ATTACHMENT NINE

Assessment of Water Quality Effects (SLR)



McCALLUM BROS LTD

Established 1904

Te Ākau Bream Bay Sand Extraction

Water Quality Assessment of Environmental Effects

McCallum Group

[redacted]

Prepared by:

SLR Consulting New Zealand

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Basis of Report

This report has been prepared by SLR Consulting New Zealand (SLR) with all reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with McCallum Group (the Client). Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

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Although this is not a hearing before the Environment Court, I record that I have read and agree to comply with the Environment Court's Code of Conduct for Expert Witnesses as specified in the Environment Court's Practice Note 2023 as relevant to preparation of a report for this Fast-Track application. I confirm that this report is within my area of expertise, except where I state that I rely upon the evidence or reports of other expert witnesses lodged forming part of the project's application material. I have not omitted to consider any material facts known to me that might alter or detract from the opinions expressed.

Executive Summary

McCallum Bros Limited (**MBL**) intends to submit a resource consent application to extract sand in Te Ākau Bream Bay via the fast-track consenting process (Fast-track Approvals Act 2024). The proposed extraction area occurs in the vicinity of existing anchorage sites that are used by commercial vessels awaiting berthage at Northport. The specific location of the proposed extraction activity is shown in Figure 1.

This report presents the results of an eight-week sampling campaign conducted between May and June 2024. The purpose was to i) describe the state of ambient water quality in the proposed sand extraction Application Area, and ii) to use the knowledge acquired from previous studies and regional data to inform the assessment of effects on water quality from the proposed sand extraction in Te Ākau Bream Bay.

In general, water quality results from the targeted eight-week field campaign showed little difference between the proposed Application Area and the southern Reference location. Minor differences were noted between weeks and between surface water, mid-water and bottom water sample profiles, which were attributed to natural variation.

Compared against available regional water quality monitoring under the Northland Regional Council's (NRC) long-term State of the Environment (SoE) programme, there were few discernible differences between the SoE data and 8-week field data. Differences are largely attributed to the temporal sampling scale - eight-week campaign versus five years of monthly SoE data. All parameters, however, were well below Northland Regional Council's Policy H.3.3 thresholds for coastal water quality, indicating good water quality, and there was no indication that sites were markedly different to each other.

Key parameters such as total suspended solids (TSS), turbidity, nutrients and metals are all highly influenced by a combination of local metocean conditions and land-based sources from freshwater inflows into the Te Ākau Bream Bay receiving environment.

Water quality in terms of temperature, dissolved oxygen and pH is subject to larger scale climatic drivers, which occur on a global scale. Whilst outside the scope of this assessment, the Te Ākau Bream Bay environment may be subject to global changes in pH, primarily due to climate change and longer-term changes in sea temperature, but this is likely not to become apparent or detectable for decades to come (refer to **Section 4.3**).

On the basis of the sampling undertaken and comparison against available regional data from long-term SoE monitoring locations, the water quality in the Te Ākau Bream Bay marine environment (for key water quality parameters turbidity, TSS, pH, nutrients, and metal contaminants) is considered to be of high value.

The magnitude of effects of the proposed activity on water quality is assessed to be **Negligible** and localised to the area being extracted. The Te Ākau Bream Bay marine environment is considered to have a '*good capacity to absorb proposed changes*'; any effects are highly likely to be very short-term/temporary increases in TSS only and will return to ambient levels within an hour of the activity ceasing. In addition, it is likely there will be '*No discernible change*' relative to the wider open coastal waters after reasonable mixing, and as assessed over a 12-month period (as per the NRC Policy H.3.3 Coastal water quality standards).

For ocean pH, there were no available regional data that have assessed pH. The data summarised from the 8-week sampling campaign show little difference between sites or with depth. On the basis of national analysis reported for the New Zealand Ocean Acidification Observation Network, it is likely that any trends in ocean pH for Auckland and Bay of Plenty regions will not become apparent for decades to come (>60 years). Given the proximity to Te

Ākau Bream Bay, a similar time period is likely to apply for any discernible trends in pH to emerge for the coastal waters in the Northland Region.

As such, the overall level of effects on key water quality parameters (including TSS, turbidity, nutrients, pH and contaminants) is determined to be **Negligible**.

Any plume generated by proposed sand extraction in Te Ākau Bream Bay will be highly localised in terms of the temporal and spatial extent. Given the high assimilative capacity of the wider Te Ākau Bream Bay environment, natural fluctuations and prevalent metocean conditions experienced in the bay, it is highly unlikely that coastal water quality standards set out in NRC's Policy H.3.3 will be breached. On this basis, the overall level of effects of the proposed sand extraction on water quality in Te Ākau Bream Bay is considered to be **Negligible**.

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Acronyms and Abbreviations

Amm-N	Total ammoniacal-nitrogen
ANZG	Australia and New Zealand Guidelines for fresh and marine water quality
°C	Degrees Celsius
DO	Dissolved Oxygen
DRP	Dissolved Reactive Phosphorus
EC	Electrical Conductivity
EIANZ	Environmental Institute of Australia and New Zealand
FNU	Formazin Nephelometric Units
MBL	McCallum Bros Limited
Mg/L	Milligrams per litre
NNN	Nitrite-Nitrate Nitrogen
NRC	Northland Regional Council
NTU	Nephelometric turbidity unit
NZOA-ON	New Zealand Ocean Acidification Observing Network
ORP	Oxidation Reduction Potential
PPT	Parts per thousand
PRP	Proposed Regional Plan
RFU	Relative fluorescence units
SoE	State of the Environment
TKN	Total Kjeldahl Nitrogen
TN	Total Nitrogen
TON	Total Organic Nitrogen
TP	Total phosphorus
TSHD	Trailing suction hopper dredge
TSS	Total Suspended Sediment

1.0 Introduction

McCallum Bros Limited (**MBL**) intends to submit a resource consent application to extract sand in Te Ākau Bream Bay from the area indicated on **Figure 1**. The intention is for this application to be made as a fast-track application.

The proposed extraction area is located at least 4.7 km from the shore and occurs in the vicinity of existing anchorage sites that are used by commercial vessels awaiting berthage at Northport, as well as ships and vessels transiting Te Ākau Bream Bay to and from Marsden Point and the Whangārei Harbour. The proposed extraction will occur beyond the seaward depth of closure in Te Ākau Bream Bay (i.e. the morphodynamic boundary separating the active coastal zone, in terms of sediment transport, from the inactive seaward zone).

MBL supply marine-sourced sands to concrete manufacturers, and the proposed extraction in Te Ākau Bream Bay will represent a change from the existing sand extraction operations in the Mangawhai–Pākiri embayment, which have been occurring since the early 1900s.

The overall objectives of this report are twofold:

- To describe the ambient water quality in the vicinity of the proposed extraction area and reference location in Te Ākau Bream Bay.
- To undertake a robust assessment of actual and potential environmental effects of the proposed sand extraction activities, including recommendations of mitigation measures to ensure that effects on marine water quality from the proposed sand extraction activities can be managed to acceptable levels.

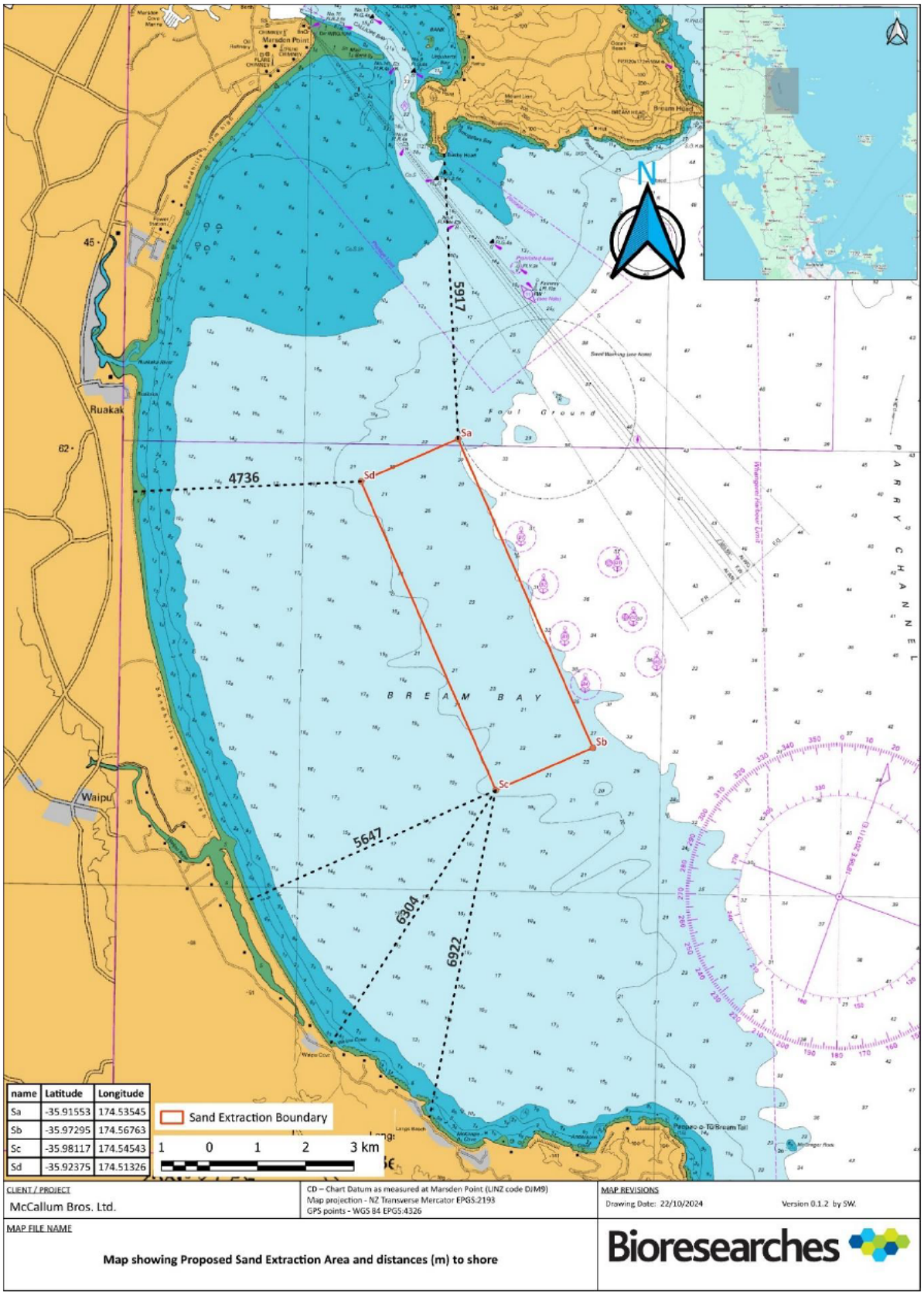


Figure 1: Proposed sand extraction boundary (red). [Source: Bioresearches]

1.1 This document

This document sets out the methods for undertaking a targeted eight-week water quality sampling campaign in Te Ākau Bream Bay to describe ambient water quality. The data was used to assess the actual and potential environmental effects on water quality from the proposed sand extraction activity. Specifically, the components of the assessment include:

- Results of the targeted eight-week field campaign to assess water quality within the proposed activity area (two locations) and at the proposed reference location;
- Compilation of the water quality data and comparison/contextualisation with available regional data, including the data collected for the Pākiri sand extraction consenting processes;
- A description of the potential effects on water quality from the proposed operations with a focus on both direct (e.g. immediate plume from the extraction activity) and indirect effects (e.g. any long-term residual effects to water quality);
- Assess (in terms of likelihood and magnitude) the actual and potential effects of the proposed sand extraction on water quality; and
- Recommended measures to avoid, remedy or mitigate any potential or actual effects.

1.2 Assumptions

The assessment set out in this report draws on data acquired by MBL for the Pākiri Embayment and presented in Jacobs (2020). The key assumptions throughout this report are identified as follows:

- Sand characteristics are very similar between Pākiri and Te Ākau Bream Bay;
- Ambient water quality (physicochemical as well as nutrient quality) is very similar between Pākiri and Te Ākau Bream Bay;
- There is no discernible source of contaminants adjacent to the proposed application area that are identified as significantly contributing to reduced benthic quality and/or contributing to water column[1] effects;
- The same vessel, *William Fraser,* is proposed to be used – thus, the same assumptions regarding extraction operations and discharge of overburden are applicable to operation in Te Ākau Bream Bay; and
- Resultant plume generation and behaviour (spatial and temporal extent) is likely to be similar in Te Ākau Bream Bay, as described for the Pākiri Embayment.
- The southern reference area (denoted by the green rectangle in **Figure 2**) will remain a true reference location for the purpose of this water quality assessment and is assumed not to be subject to potential plume effects during proposed sand extraction activities.

[1] The water column refers to the vertical expanse of water from the water surface to the seabed.

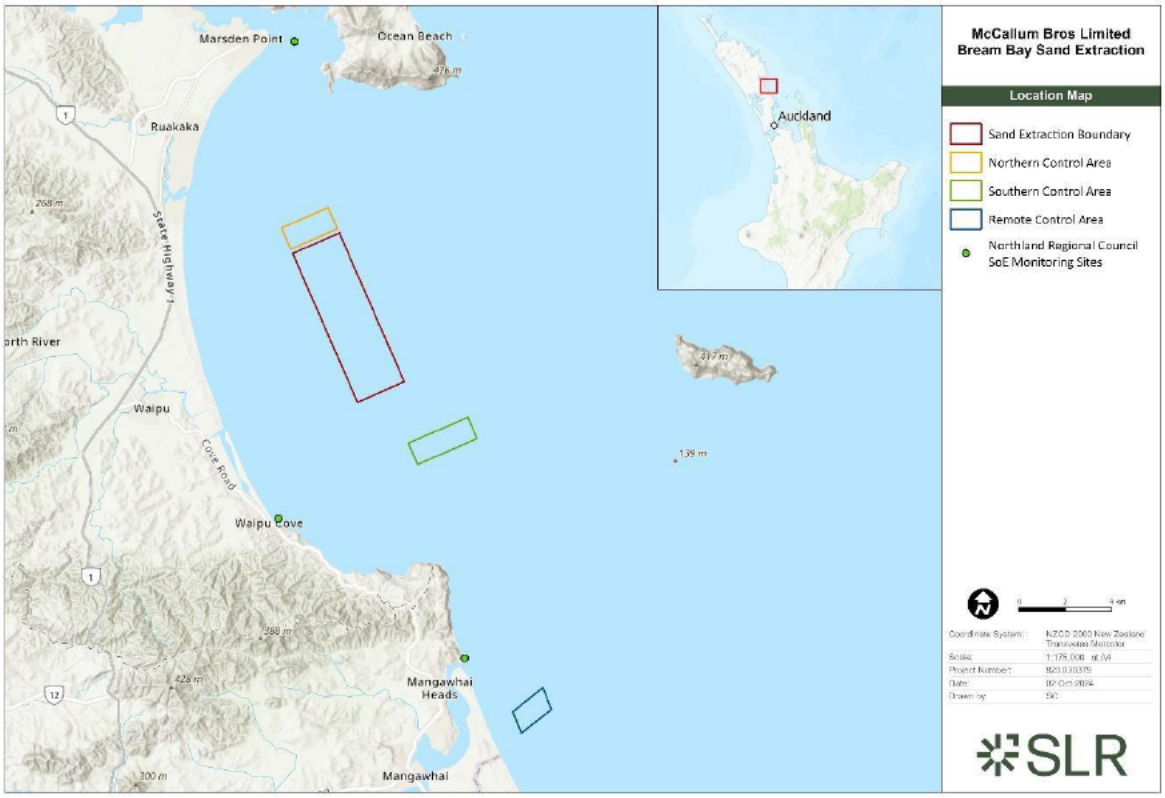


Figure 2: Proposed sand extraction boundary (red), northern control area (orange), southern control area (green), and remote control area (blue) in Te Ākau Bream Bay. The locations of NRC's SoE monitoring sites are included for reference.

2.0 Relevant regional plan policies

Two key policy tables set out in the Proposed Regional Plan (**PRP**) for Northland (NRC, 2024) are listed in Appendix H of the PRP:

- Policy H.3.3 Coastal water quality standards; and
- Policy H.3.4 Coastal sediment quality guidelines.

These two tables are listed in **Appendix A** in this report and are referred to throughout this report. The water quality standards are prescribed for a range of attributes relevant to the proposed sand extraction activity in Te Ākau Bream Bay, namely turbidity and pH. A suite of other physicochemical, nutrient, and biological attributes is listed and discussed where relevant.

Microbiological water quality attributes listed in Policy H.3.3 are not considered relevant to the proposed sand extraction activity, as it is highly unlikely there are any potential sources of microbiological contaminants associated with the activity (including any sediment-associated naturalised sources). These parameters are not considered further in this report.

Reference to Policy H.3.4 is included for providing context to benchmarking the results of benthic sediment quality and risks of water column contamination due to mobilisation of

potential sediment contaminants. A detailed analysis and discussion of benthic sediment quality is contained in Bioresearches (2024).

The 'Compliance Metric' in Table 25 of Policy H.3.3 in the NRC PRP provides for annual median values, minimum and maximum values, and maximum allowable change. For 'Open Coastal Waters' applicable to Te Ākau Bream Bay, the threshold is of 'no discernible change' (except for metals and microbiological parameters). For comparison and where available, numeric metrics are provided for 'estuaries'.

3.0 Project Description

This section summarises the key aspects of the sand extraction activity relevant to the assessment of water quality. The key considerations for this assessment are as follows:

- Effects of sand extraction activities on receiving environment quality in relation to suspended sediment and resulting turbidity plumes anticipated to be generated in the water column;
- Effects of sand extraction on ambient water column pH;
- Effects of sand extraction activities on other general water quality, including physicochemical parameters (electrical conductivity (**EC**), dissolved oxygen (**DO**, temperature), nutrients (nitrogen and phosphorus) and biological parameters (chlorophyll-a); and
- Effects of disturbance of the seabed floor on water column quality in regard to mobilisation of potential contaminants.

3.1 Background

For the Te Ākau Bream Bay sand extraction project, MBL are proposing to use their purpose-built trailing suction hopper dredge (TSHD), the *William Fraser* (**Figure 3**), to extract and process the sand from the proposed application area. The vessel was custom-built in Malaysia in 2019 for MBL.

The *William Fraser* is 68 m long with a hopper volume capacity of 923 m^3. It adopts a 'trailing suction' method, which operates by sucking material from the seabed as a sand slurry using a trailing suction head fitted to pipes that trail over the bed as the ship sails over the extraction area. The sand pumps lift the extracted sand slurry through the pipework to pass through sand screens, which are delivered to the onboard hopper via a series of valves and pipes alongside the hopper.



Figure 3: The *William Fraser* actively extracting at Pākiri [Source: MBL]

Features of the *William Fraser* that minimise environmental effects are summarised in the bullets below (McCallum, 2022):

- Euroclass, ACERT marine propulsion engines that meet both EPA Tier 4 and IMO II emission regulations to minimise fuel use and reduce emissions;
- Moon pools to deliver the oversize and sediment discharge below the water line to minimise turbidity;
- A Dutch-designed screening deck, rather than flume pipes, which reduces damage to live animals passing through the draghead and increases the screening efficiency;
- A draghead designed to minimise seabed disturbance and take a wider and shallower extraction furrow. This also reduces the entrainment of burrowing organisms;
- An electric pump to reduce underwater noise and eliminate the possibility of hydraulic oil leaks or spills;
- Acoustically lined engine and pump rooms to reduce engine noise from the vessel; and

The sand extraction process is also described in McCallum (2022) and is summarised below.

The operational cycle would begin when the *William Fraser* leaves the Port of Auckland on the morning of an extraction day, transiting to the Te Ākau Bream Bay extraction site. This transit route passes through Tiri Passage, rounds Kawau Island, Takatu Point and Cape Rodney before travelling along Jellicoe Channel and rounding Paepae-o-tū (Bream Tail) to enter Te Ākau Bream Bay. During transit, the TSHD travels at a maximum of 9.5 knots in keeping with the requirements of the Hauraki Gulf Transit Protocol (POAL, 2015), which recommends a speed limit of 10 knots to reduce the probability of vessel strike to Bryde's whales.

Once the vessel is 1 km away from the extraction site, it reduces its speed and begins to prepare the extraction equipment. By the time the vessel is within 500 m of its extraction start point, it will be travelling at a speed of 1.5 to 2.5 knots, which it maintains while extracting sand.

The draghead is only lowered into the water in readiness when the vessel is inside the application area. When the vessel reaches the extraction start point within the defined sand extraction area (**Figure 1**), the draghead is lowered completely to the seabed, and pumping of sand slurry (a mixture of sand and seawater) commences. The pump is not engaged until the draghead is less than 3 m from the seabed.

Once aboard, the slurry passes through two screens: a punch hole plate (with ~20 mm holes) to remove large objects and shells, followed by a 2.5 mm screen to remove any larger material. The screened material is then conveyed to the hopper, where the sand settles. The water and any finer sediments pass out of the hopper into one of the six 'moon pools' (sitting at 1.5m below the sea surface) before being discharged at the keel, and any larger material captured by the screen is also discharged below the waterline.

The average time to fill the hopper at Pākiri in deeper water (35–38 m) is 6.5 hours (range 5–8 hours). Extraction times in Te Ākau Bream Bay are expected to be a maximum of 3.5 hours as the depth is less (20–30 m) and the sand is finer.

Once the hopper is full, the draghead is lifted off the seabed, and the equipment is flushed with seawater before it is stowed onboard, and the vessel returns to Auckland to unload.

Extraction will be conducted during daylight hours only, 12:00 pm to 6:00 pm from April to September and 12:00 pm to 8:00 pm from October to March. This change from nighttime extraction, as conducted in Pākiri, is proposed to minimise disturbance and acoustic disruption to marine mammals.

Example images of the plume visible during extraction are shown in **Figures 4** and **5**.



Figure 4: Visible plume as recorded from the stern of the *William Fraser* on 26 November 2019



Figure 5: 1187 m long visible plume behind the 68 m long *William Fraser* on 26 November 2019

3.2 Differences to Pākiri extraction

There are some key proposed differences between the sand extraction process in Te Ākau Bream Bay and the process used in Pākiri (pers. Comms. Luke Davis, email dated 14 January 2025); these are:

- Reduced extraction time and distance for the same volume of sand due to improvements in the screening and delivery system. This is estimated to reduce the extraction distance to 13 km over a period of up to 3.5 hours.
- Extraction will be conducted during daylight hours (12:00 pm to 6:00 pm from April to September and 12:00 pm to 8:00 pm from October to March). This change is proposed to minimise disturbance and acoustic disruption to marine mammals.

3.3 Discharge of oversized material

There are two main methods by which suspended sediments are potentially discharged into the receiving waters as a result of the sand extraction operations:

- Over-sized material and excess water volume that does not pass through the screen system is delivered into pipework that discharges into the fore port side moon pool; and

- Sediment-laden water that is delivered to the hopper[2] flows over the weir boards and into one of six moon pools that are located fore, mid or aft of the hopper.

The *William Fraser* uses a flat deck screening technology rather than a flume system as used on historic sand extraction vessels. The sand slurry is pumped into a screen tower and over an 8 m^2 "screen deck". Material passing through the screens is transported to the hopper via two pipes located along the side of the vessel with a series of valves on these pipes so that the load in the hopper can be balanced and controlled in the vessel. Any oversized material not passing through the screen deck is collected and delivered into a pipe that discharges into the fore port side "moon pool", which is then discharged below the keel of the vessel, at least 1.5 m below the sea surface. The majority of the oversized material comprises shell fragments greater than 2 mm (the maximum limit of the sand screens).

The *William Fraser* hopper weir boards will be used to drain excess water, fines, and silt from the hopper. This material is collected via the six "moon pools" and discharged back to sea. The resulting plume of TSS is described as localised and temporary (short-lived) (see **Section 4.2** for details).

4.0 Description of the Existing Environment

This section sets out a description of the existing environment with regard to water quality assessed at long-term state of the environment monitoring sites by NRC. Summary data previously acquired by MBL in the Pākiri Embayment is included for context.

4.1 Regional Overview

In order to characterise existing water quality conditions within the proposed new consent sand extraction area, a comparison was made against long-term SoE monitoring sites that were in close proximity to the proposed application area. The data associated with these SoE sites were then compared to the data from *in-situ* samples collected in May-June 2024 (**Section 5.0**). The three NRC reference sites identified as suitable comparisons include:

- Whangārei Harbour at Mair Bank (~7.5 km north of application area boundary)
- Waipū Cove at Beach (~6 km southwest of application area boundary)
- Open Coast at Mangawhai Heads (~12 km south of application area boundary)

Data were sourced from the online NRC Environmental data hub[3] (discrete coastal water quality), and data from 1 July 2019 – 30 June 2024 were summarised. **Table 1** lists a suite of key water quality parameters for three NRC SoE monitoring sites. Available data acquired in a 2019 field sampling campaign by MBL for the Pākiri Embayment is also referred to for context.

[2] On the port and starboard side of the hopper is a fine mesh grill which allows water but not sand to pass through. The water is released through the six moon pools (three on each side of the vessel) (MBL, pers. comm).

[3] https://www.nrc.govt.nz/environment/environmental-data/environmental-data-hub/?moduleId=7&collectionId=37&displayId=1

Table 1: Median values (5 year) for key water quality parameters measured at three long term State of the Environment monitoring sites by Northland Regional Council, and parameter range for available Pākiri Embayment data.

Parameter[1]	Whangārei Harbour at Mair Bank	Waipū Cove at Beach	Mangawhai Heads	Pākiri Embayment[2]
Temperature (°C)	17.7	18.25	17.9	15.64-18.15
Dissolved oxygen (mg/L)	7.725	7.8	7.87	7.02-7.51
Turbidity (NTU)	1.14	3.345	1.185	0.13-0.29
Total suspended solids (TSS) (mg/L)	5.2	21.5	9.9	0.98-2.9
Salinity (ppt)	34.25	34.19	34.485	35.34
Total nitrogen (mg/L)	0.0925	0.11	0.087	
Total Phosphorus (mg/L)	0.009	0.0135	0.009	
Chlorophyll a (mg/L)	0.00125	0.0022	0.0014	1.0-1.27

[1] pH was not analysed for NRC SoE or Pākiri Embayment

[2] Data for Pākiri Embayment collected *in situ* using deployed sensors (WQM and CTD casts) in November and December 2019. Five-year NRC SoE data acquired from discrete monthly water quality samples analysed in the laboratory.

Long-term SoE records indicate that turbidity and TSS were generally higher at Waipū Cove compared with Mair Bank and Mangawhai Heads, likely influenced by the proximity to freshwater inflows and exposure to land-based loads of sediment transported to the nearshore coastal waters. Similarly, total nutrients (nitrogen and phosphorus) were also higher at the Waipū Cove site compared with Mair Bank and Mangawhai Heads. Overall data suggest some degree of variability across the Te Ākau Bream Bay region in regard to a subset of water quality parameters that are likely influenced by land-based runoff (i.e. TSS and nutrients), but factors including temperature, salinity and dissolved oxygen are relatively constant.

Data acquired for the Pākiri Embayment (noting this was a limited and small data set by comparison) indicate relatively similar profiles of low turbidity and TSS. Temperature, dissolved oxygen, and salinity are within a similar range of the SoE data.

4.2 Summary of water quality in the Pākiri Embayment

Jacobs (2020) (provided in **Appendix G**) details the results of a series of targeted water quality monitoring events to assess the effects of sand extraction activity on water column quality. The focus of Jacobs (2020) was to characterise the extent of any turbidity plume generated by the trial extraction activity to inform the assessment of risks to water quality. The data are summarised here to provide a comparison to ambient water quality in Te Ākau Bream Bay and to provide a summary of the key effects on water quality resulting from the extraction activities in the Pākiri Embayment. Taking into account several assumptions (see below), the main findings are considered applicable to the assessment of potential effects on water quality in Te Ākau Bream Bay from sand extraction.

It is not feasible to replicate the trial extraction and plume assessment in Te Ākau Bream Bay for this current report. However, the following assumptions are adopted from Jacobs (2020) to the Te Ākau Bream Bay assessment for context:

- Benthic sediment quality (reported in Bioresearches, 2024) is similar in terms of grain size, organic content, and contaminant status;
- The depth of the proposed Application Area in Te Ākau Bream Bay is similar to the depth of trial extraction reported in Jacobs (2020);
- There are no significant point sources of contaminants adjacent to the proposed application area (e.g. significant stormwater inflow or wastewater inflow) other than freshwater stream/freshwater inflow that are identified as significantly contributing to reduced benthic quality and/or contributing to water column effects; and
- The same extraction vessel, *William Fraser,* is proposed to be used for the Te Ākau Bream Bay sand extraction application, however, there are improvements to the extraction efficiency, which will result in less sediment being deposited from the vessel; and
- Te Ākau Bream Bay is close to Pākiri and is subject to similar climatic and metocean conditions. Thus, processes such as climate change and ocean acidification can be assumed to be similar across the two locations.

Based on these assumptions, it is reasonable to apply the general findings about the plume behaviour characterised for the Pākiri extraction trial to the Te Ākau Bream Bay Application Area as a worst-case scenario; due to the proposed extraction efficiencies, the effects in Te Ākau Bream Bay will be less than in Pākiri.

A summary of the key results of the assessment of the trial plume assessment is shown in **Figure 6**.

As reported in Jacobs (2020), analyses of sand extraction plume sampling involved the collection of samples from behind the *William Fraser* on two 2 km transects. Jacobs (2020) noted the speed of the extraction vessel *William Fraser* was consistent at 2.5 knots – approximately 3.25 minutes per 250 m traversed. Thus, the transects sampled every 3.25 minutes, until the full distance (2000 m) was reached, corresponded to ~26 minutes.

Using a Van Dorn water sampler, samples through the discharge plume were collected at three depths (surface (<1 m), mid (15 m) and bottom water (35 m)) to obtain samples for TSS analyses. A CTD cast concurrently collected data on turbidity, temperature, dissolved oxygen, salinity, pH, PAR, conductivity and fluorescence through the water column.

Overall, TSS in surface water (<1 m) at the point of discharge was elevated by 0.5-6 mg/L compared with other depths sampled (17.5 m, 35 m). Elevated TSS and turbidity both declined with distance from the extraction vessel. After 250 m, TSS concentrations ranged between 2-4 mg/L and were generally within the range of the ambient TSS concentrations (**Figure 6, A-B**).

Similarly, slightly elevated turbidity was apparent in the immediate surface water (<1 m) within 250 m of the vessel but declined rapidly with distance along the transects (**Figure 6, C-D**). Within ~26 minutes (i.e. when the extraction vessel was 2000 m from the sampling vessel), there were minimal to negligible effects of the plume (as TSS or turbidity) in the water column in the two transects. This was using the previous screening deck, so the effects of the plume in Te Ākau Bream Bay are anticipated to be less.

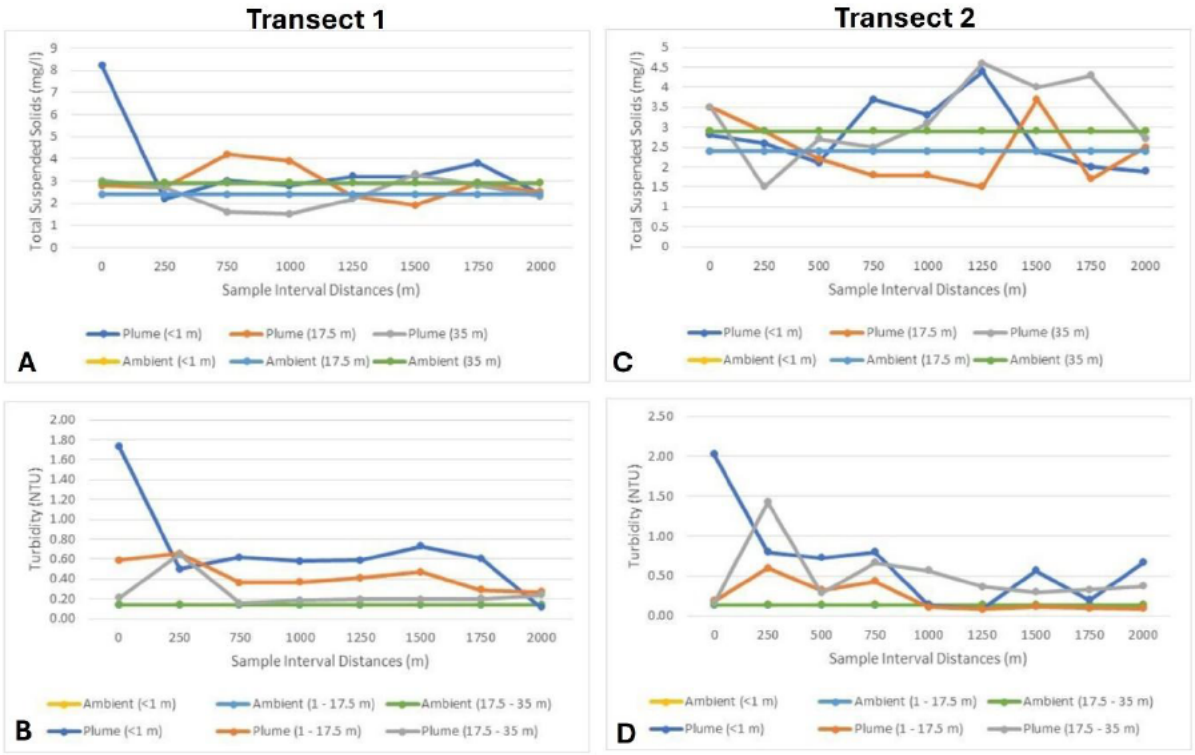


Figure 6: Summary of water turbidity and TSS assessed for the Pākiri Embayment trail extraction (summarised from Jacobs (2020)). A-B transect 1, C-D transect 2. Note different Y-axis scale bars between Transect 1 and Transect 2 TSS and Turbidity plots. Ambient (<1m) transect is not visible as it is hidden behind other transects.

4.3 Status of pH in Te Ākau Bream Bay

A summary of the status of pH in marine waters of Te Ākau Bream Bay is included here to provide context around the assessment of potential risks of sand extraction to ocean acidification. Direct measures of ocean pH are not included in the suite of parameters assessed in NRC's SoE programme. Data referred to in this section are cross-referenced from the New Zealand Ocean Acidification Observing Network[4] (NZOA-ON). The research is led by scientists from NIWA[5], and the data is contributed to the Global Ocean Acidification Observing Network. Data is reported to Tatauranga Aotearoa (Stats NZ), the latest report covering the period of data collected between 2015 – 2021 is reported in the NIWA report 'Ocean Acidification Assessment'[6] (July 2022).

Trends in ocean pH for New Zealand have only been assessed for the long-term monitoring site off the coast of Dunedin – the Munida Time Series open ocean site. The Munida Time Series represents a 65km long transect off the south coast of New Zealand used for a range

[4] https://nzodn.nz/portal/

[5] https://niwa.co.nz/coasts-and-oceans/research-projects/new-zealand-ocean-acidification-observing-network-nzoa-on

[6] https://environment.govt.nz/assets/publications/ocean-acidification-assessment.pdf

of long-term research purposes, including the Southern Hemisphere's longest running ocean record of pH measurements.

The most recent report (NIWA 2022) finds that ocean acidity in these sub-Antarctic waters along the transect increased by an average of 8.6 % over the 23 years from 1998 to 2020. This is within the range observed at other open ocean sites around the world. Noting pH is measured on a logarithmic scale – this is equivalent to a decrease of 0.023 pH units – from a modelled value of pH 8.092 in 1998 to pH 8.057 in 2020 (NIWA 2022).

For coastal sites across New Zealand (including Wellington, Auckland and Waikato), the seasonal and interannual variability of the acidity at the coastal sites is much larger than that of the Munida open ocean site. The Time of Emergence (the time required for a long-term signal to emerge from the short-term variability) has been calculated as 58 years for Wellington, 60 years for Bay of Plenty, and 73 years for Auckland. Thus, for Te Ākau Bream Bay, it is anticipated that a Time of Emergence will similarly range between 60 and 73 years. As with Auckland and Bay of Plenty coastal waters, it is likely that *ocean temperature* will be the main driver of pH change (NIWA 2022).

5.0 Te Ākau Bream Bay Ambient Water Quality

This section sets out a description of the water quality in the existing environment at the proposed sand extraction area and at the southern control site in Te Ākau Bream Bay. Available regional data from Northland Regional Council (**NRC**), as well as relevant field data from the Pākiri embayment, are included for context.

A targeted eight-week field sampling campaign was undertaken by SLR from 6 May 2024 to 26 June 2024. The purpose of the field campaign was to acquire sufficient site-specific water quality data that could be used to describe the ambient state of water quality in Te Ākau Bream Bay for the sampling period. **Figure 7** shows the locations of the three sampling locations spread across the proposed sand extraction boundary (Application Areas 1 and 2), and the southern control area (Reference 1).

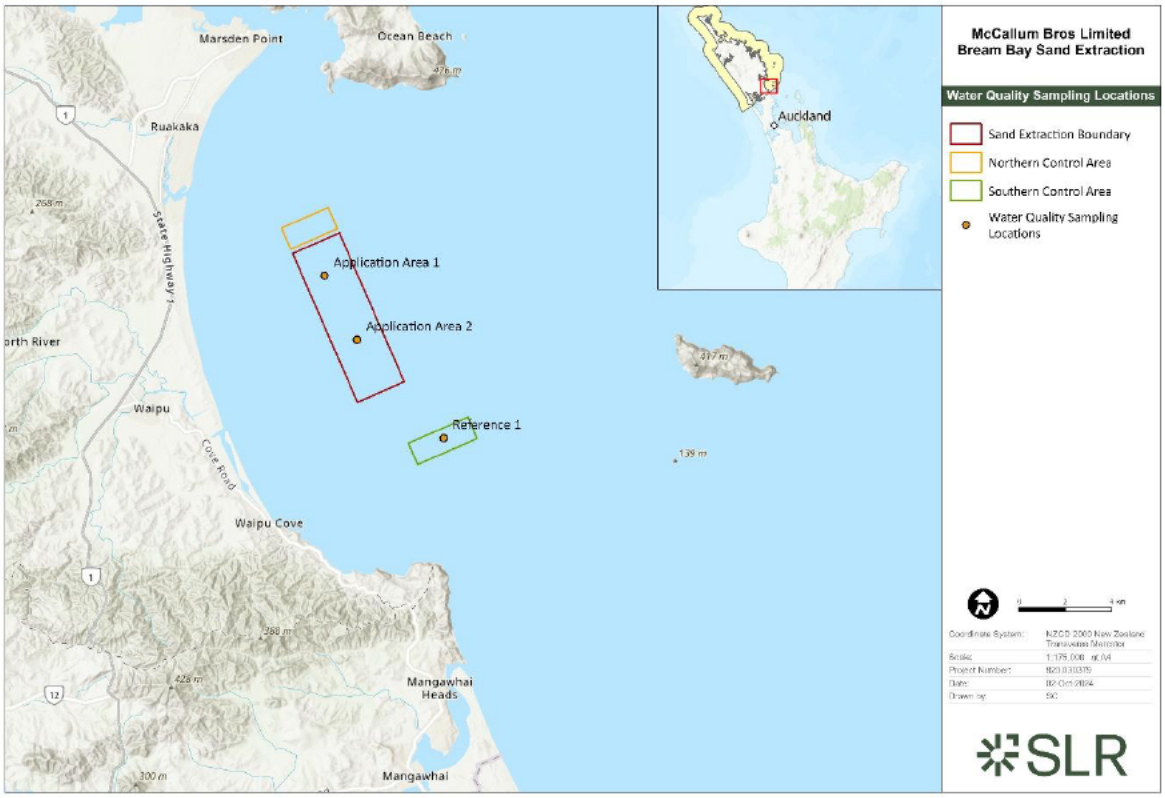


Figure 7: Te Ākau Bream Bay water quality sampling locations: proposed application area (Application Area 1 and Application Area 2 within the sand extraction boundary) and proposed southern reference location (Reference 1).

5.1.1 Field Methodology

All field sampling was undertaken by an SLR staff member on board the MBL vessel, *Tin Boat*. The vessel was skippered by MBL staff.

Sampling locations were identified to include two representative sampling locations within the proposed extraction boundary (Application Areas 1 and 2 (**AA1** and **AA2**, respectively)) and one sampling location within the southern control boundary (Reference 1 (**Ref1**)) (**Figure 7**).

The weekly sampling schedule included the following:

Application Area 1: Vertical sonde profile[7]

Application Area 2: Vertical sonde profile; Van Dorn Grab[8] samples (surface, mid-water, bottom water)

Reference Area 1: Vertical sonde profile; Van Dorn Grab samples (surface, mid-water, bottom water)

[7] A sonde is an instrument used to measure a range of water quality parameters. For a vertical profile, multiple measurements are made as the instrument descends through the water column.

[8] A Van Dorn Grab is a device used to get a water sample from a specific depth in the water column.

5.1.1.1 Vertical sonde profile

At each location, a YSI EXO2 sonde was lowered at a rate of approximately 1m/second to record a continuous depth profile of water quality. The parameters are listed in **Table 2**.

Prior to each deployment, the sensors were calibrated, and readings were verified to ensure that the sensors were within the manufacturer's calibration specification. Following each deployment, sensors were verified against the calibration range to determine any sensor drift and to ensure the acquired data was within acceptable limits. In the event that any calibration or verification checks were found to be outside the acceptable range, the sensors were recalibrated against standard solutions. A record of all sonde calibration and verification checks is provided in **Appendix B**.

Table 2: Water quality parameters recorded by the EXO2 sonde vertical profile

Parameter	Unit
Depth	m
pH	No unit
Specific Conductivity	µS/cm
Dissolved Oxygen	mg/L; % saturation
Temperature	°C
ORP	mV
Turbidity	NTU
Chlorophyll-a	µg/L

For data recording, the sonde was set to 'log' mode and manually lowered at a slow, constant speed (approx. 1m/sec) until the sonde was just above the seabed floor (determined by the onboard depth sounder). At the end of each field day, sonde data were transferred to the SLR field personnel's laptop using YSI Kor software.

5.1.1.2 Discrete water quality

Discrete grab samples using a 5 L Van Dorn grab sampler deployed over the side of the field vessel were undertaken at Application Area 2 and Reference Area 1. At each location, three grab samples were taken to include a surface water, mid-water and bottom-water sample. Van Dorn grab samples were sub-sampled into pre-labelled laboratory-supplied bottles, stored in a chilli bin and dispatched to Hill Laboratories with the appropriate chain of custody paperwork on the same day.

Table 3 lists the analytical suite (and detection limits) for discrete grab samples. All field sheets and chain of custody records are listed in **Appendix D**. Hill Laboratory certificates are listed in **Appendix F**.

Table 3: Laboratory analytical parameters and detection limits

Parameter	Detection Limit / Unit of Measurement
Turbidity	0.05 NTU
Total suspended solids (TSS)	3 g/m^3
pH	0.1 pH units
Electrical conductivity (EC)#	0.10 mS/m
Salinity	0.2 ppt
Total nitrogen (TN)	0.05 g/m^3
Total ammoniacal-nitrogen (Amm-N)	0.005 g/m^3
Nitrate-N + Nitrite N (NNN)	0.0010 g/m^3
Total Kjeldahl Nitrogen (TKN)	0.10 g/m^3
Total Phosphorus (TP)	0.003 g/m^3
Dissolved Reactive Phosphorus (DRP)	0.0010 g/m^3
Chlorophyll a (Chl-a)	0.003 g/m^3

Note EC is reported by the laboratory in mS/m, whereas the sonde is in µS/cm.

5.1.2 Data analysis

Sonde data were viewed after collection to ensure they were clear and representative of the expected conditions, and any anomalies in data records were identified. Only data in the applicable seawater electrical conductivity (EC) range (i.e. 45,000–54,000 µS/cm) were used; data below the range were removed for analyses (as it was indicative of the sonde not being submerged in the surface water). For the purpose of statistical summaries, turbidity values were recorded as zero when the instrument reported a negative number. This is because the true measure cannot be less than zero (i.e. negative values are an artefact of sonde-specific calibration).

For each respective week of sampling, depth data for Van Dorn grab samples were used to inform the middle and bottom water depths for corresponding vertical sonde data. Sonde data was depth averaged across an approximate 2 m depth range to give representative parameter readings at surface water (0–2 m depth range), mid water (approx. 11–13 m depth range) and bottom water (approx. 23–25 m depth range). Data were also depth averaged over the entire profile for comparison.

Summary statistics over the eight-week sampling campaign were compiled to give minimum, maximum, median and 95th percentile values. Data were compared against available Coastal Water Quality Standards (PRP Table 25 in Policy H3.3, Appendix A), noting that the comparisons are set out to align with the applicable compliance metric[9]. **Section 5.2** provides a comparison of Te Ākau Bream Bay data against regional data (NRC SoE) as well as data previously compiled for the Pākiri Embayment (Jacobs 2020).

[9] As noted in Section 2, the 'Compliance Metric' in Table 25 of Policy H.3.3 in the NRC PRP provides for annual median values, minimum and maximum values, and maximum allowable change. Other summary statistics not represented by the NRC PRP are not presented for the purpose of this assessment.

5.1.3 Results

5.1.3.1 Vertical sonde profile

All verified sonde vertical profile data are listed in **Appendix E**. A summary of key water quality parameters is listed in **Table 4** (note all parameters are listed in **Appendix E**). Box plots of weekly sonde profiles, split across the surface, midwater and bottom water depths for three key parameters (turbidity, pH and chlorophyll-a) are also shown in **Figure 8**.

In general, the depth-averaged sonde data show that water quality was consistent across the three sampling locations with no discernible difference – this is shown in the very similar median values as well as similar ranges across 5th to 95th percentile values. Small differences are noted between sites for chlorophyll, which was slightly higher at AA2 compared with the Ref1 location. The main parameters of interest for the proposed sand extraction (turbidity and pH) were all largely consistent across the three sampling locations (**Table 4**).

Turbidity was generally low, with recorded maximum values all below 10 FNU, and the 95th percentiles were below 1 FNU. Box-plots showing the weekly profiles at surface water, midwater, and bottom water generally show that turbidity was variable in surface water and less variable at mid and bottom water profiles. There are a few exceptions, with turbidity also noted as more variable at the bottom water for week three at AA1 and Ref1 locations.

Chlorophyll-a was also more variable at the Reference location, with a higher spread of results in box plots apparent for most sampling weeks and at both surface and bottom water sample depths. Pooling across weeks and depths, general concentrations were similar (**Table 5**).

Specific conductivity and dissolved oxygen were also consistent across sites – with median and 95th percentiles in similar ranges. Similarly, median pH (pooled across depth) was also similar across the three locations; however, as noted in **Figure 8**, weekly variability at the Reference location was apparent for the 8-week period, particularly in weeks 1-4. For pH, a slight shift from around pH 8.2 to pH 8.05 was noted from week 4 to week 5 (**Figure 8**). Sonde verification records (**Appendix B**) indicate the week-4 pre-deployment verification was within the satisfactory range, but the post-deployment verification identified the pH sensor required recalibration. This recalibration is the likely contributor to the slight shift (rather than any environmental effects), as it was observed to be consistent across all depths and both locations from week 5 onwards.

Table 4: Eight-week (May/June 2024) depth-averaged key water quality parameters recorded at three sites in Te Ākau Bream Bay (data represent minimum, maximum, median and 95th percentile values of all data recorded at each site, compiled across the eight weeks).

Parameter	Min.	Max.	Median	5th percentile	95th percentile
Application Area 1 (AA1)					
Temperature (°C)	15.96	19.28	16.78	16.10	18.25
DO %	90.10	105.90	96.40	90.40	104.60
Spec. Cond. (µS/m)	45666	53994	53636	46407	53761
pH	7.94	8.25	8.05	8.02	8.22
Chl-a (µg/L)	1.37	3.98	2.12	1.57	2.89
Turbidity[1] (FNU)	0	7.70	0.03	0	0.12
Application Area 2 (AA2)					
Temperature (°C)	15.03	18.37	16.74	16.04	17.68
DO %	89.10	107.30	95.70	90.30	99.55
Spec. Cond. (µS/m)	46368	54461	53650	53343	53791
pH	8.01	8.22	8.05	8.03	8.22
Chl-a (µg/L)	1.04	2.98	1.75	1.37	2.29
Turbidity[1] (FNU)	0	8.06	0.01	0	0.1
Reference Area 1 (Ref1)					
Temperature (°C)	15.80	18.38	16.86	15.94	18.35
DO %	91.10	107.70	96.20	91.40	104.90
Spec. Cond. (µS/m)	46256	54500	53648	46381	53769
pH	7.44	8.23	8.04	7.91	8.23
Chl-a (µg/L)	1.03	5.30	1.70	1.27	3.61
Turbidity[1] (FNU)	0	7.66	0.01	0	0.10

[1] Raw turbidity values are listed in **Appendix E**. Negative values are represented as 'zero' in summary tables.

5.1.3.2 Discrete water quality

Table 5 and **Table 6** list a summary of discrete grab sample data collected at three depths at sites AA2 and Ref1 over the course of the eight-week sampling period. Data are summarised as minimum, maximum, median and 95th percentiles, noting these data correspond to the compliance metrics listed in Table 25 of Policy H.3.3 of the NRC PRP.

Figure 8 displays box plots of three key parameters (turbidity, pH, and chlorophyll) relevant to the assessment of effects of the proposed activity on water quality in the proposed application area. Box plot data represent the sonde data split across three water depths (surface, mid and bottom water), as well as insert data of the 8-week medians of discrete water samples for reference.

As with the sonde data, laboratory analyses of discrete samples for turbidity all returned low median values for the three sample depths and correspondingly low 95th percentile values. This was apparent for TSS, having low concentrations and generally low 95th percentiles, indicating generally consistent results across the sampling period.

Similarly, pH, EC and Salinity were all consistent across depth and between the two sites, along with similar 95th percentile ranges, showing consistency (and low variation) in sampling conditions during the 8-week sampling period.

pH was within the NRC Policy H.3.3 range for open coastal waters (pH 8.0-8.4), and turbidity was well below the NRC threshold for estuaries (included here for comparison, but noting the sites are classified as open coastal waters).

Nutrient concentrations (**Table 6**) were also relatively low and generally consistent across the two locations and water depths. All were well below the estuarine values for water quality listed in NRC's Policy H.3.3. As with the physicochemical parameters in **Table 5**, the similarity between the median and 95th percentile all show the consistency in sampling across the 8-week period, with low variability. This is also reflected in the low range between the minimum and maximum values listed for all parameters in **Table 5** and **Table 6**.

Table 5: Summary of discrete water quality physicochemical parameters at depth from the Application Area 2 and Reference Area 1 sites (n=8 for all measures).

Parameter	Depth	Application Area 2					Reference Area 1				NRC Estuaries	NRC Open Coastal Water
		Min	Max	median	95th %		Min	Max	median	95th %		
pH	S	8.1	8.2	8.15	8.2		8.1	8.2	8.15	8.2	7.0–8.5	8.0–8.4
	M	8.1	8.2	8.1	8.2		8.1	8.2	8.15	8.2		
	B	8.1	8.2	8.1	8.2		8.1	8.2	8.2	8.2		
Electrical Cond. (mS/m)	S	5310	5360	5325	5353		5270	5350	5335	5350	—	—
	M	5310	5350	5335	5350		5280	5400	5320	5379		
	B	5310	5400	5330	5382.5		5290	5350	5315	5346.5		
Salinity	S	36	36	36	36		35	36	36	36	—	—
	M	36	36	36	36		35	36	36	36		
	B	36	36	36	36		36	36	36	36		
Turbidity (NTU)	S	0.025	0.09	0.025	0.083		0.025	0.72	0.095	0.6185	<6.9	No discern. change
	M	0.025	0.1	0.05	0.088		0.025	0.23	0.025	0.2055		
	B	0.025	0.09	0.025	0.083		0.025	0.17	0.025	0.156		
TSS (g/m^3)	S	1.5	4	1.5	3.65		1.5	3	1.5	2.475	—	—
	M	1.5	6	1.5	5.3		1.5	7	1.5	5.6		
	B	1.5	6	1.5	5.65		1.5	1.5	1.5	1.5		

Table 6: Summary of discrete water quality nutrient and biological parameters at depth from the Application Area 2 and Reference Area 1 sites (n=8 for all measures). TKN=Total Kjeldahl Nitrogen, DRP = Dissolved Reactive Phosphorus.

Parameter	Depth	Application Area 2					Reference Area 1				NRC Estuaries	NRC Open Coastal Water
		Min	Max	median	95th %		Min	Max	median	95th %		
Total Nitrogen (g/m^3)	S	0.15	0.15	0.15	0.15		0.15	0.15	0.15	0.15	<0.220	No discern. change
	M	0.15	0.3	0.15	0.265		0.15	0.15	0.15	0.15		
	B	0.15	0.15	0.15	0.15		0.15	0.2	0.15	0.1825		
Ammoniacal-N (g/m^3)	S	0.008	0.019	0.0115	0.0169		0.008	0.021	0.01	0.0189	<0.023	No discern. change
	M	0.009	0.023	0.013	0.01985		0.008	0.014	0.012	0.014		
	B	0.008	0.016	0.0115	0.016		0.008	0.013	0.0115	0.0127		
Nitrate-N + Nitrite-N (g/m3)	S	0.0131	0.057	0.0325	0.05225		0.003	0.054	0.0205	0.05075	<0.048	No discern. change
	M	0.0131	0.059	0.032	0.054		0.0025	0.057	0.02035	0.0533		
	B	0.0136	0.059	0.035	0.05375		0.0013	0.058	0.0105	0.0521		
TKN (g/m3)	S	0.1	0.1	0.1	0.1		0.1	0.1	0.1	0.1	—	—
	M	0.1	0.2	0.1	0.165		0.1	0.1	0.1	0.1		
	B	0.1	0.1	0.1	0.1		0.1	0.1	0.1	0.1		
Total Phosphorus (g/m^3)	S	0.006	0.014	0.008	0.01365		0.005	0.013	0.0065	0.0123	<0.030	No discern. change
	M	0.005	0.016	0.008	0.01495		0.005	0.013	0.007	0.0113		
	B	0.006	0.014	0.008	0.01295		0.005	0.013	0.007	0.0109		
DRP (g/m^3)	S	0.0036	0.0114	0.0076	0.01053		0.0014	0.011	0.00515	0.0103	—	—
	M	0.0041	0.0117	0.0078	0.01065		0.0015	0.0114	0.00525	0.0105		
	B	0.0037	0.0116	0.0081	0.01097		0.0034	0.0111	0.00535	0.01037		
Chlorophyll-a (g/m^3)	S	0.0015	0.0015	0.0015	0.0015		0.0015	0.0015	0.0015	0.0015	<0.004	No discern. change
	M	0.0015	0.0015	0.0015	0.0015		0.0015	0.004	0.0015	0.0031		
	B	0.0015	0.0015	0.0015	0.0015		0.0015	0.0015	0.0015	0.0015		

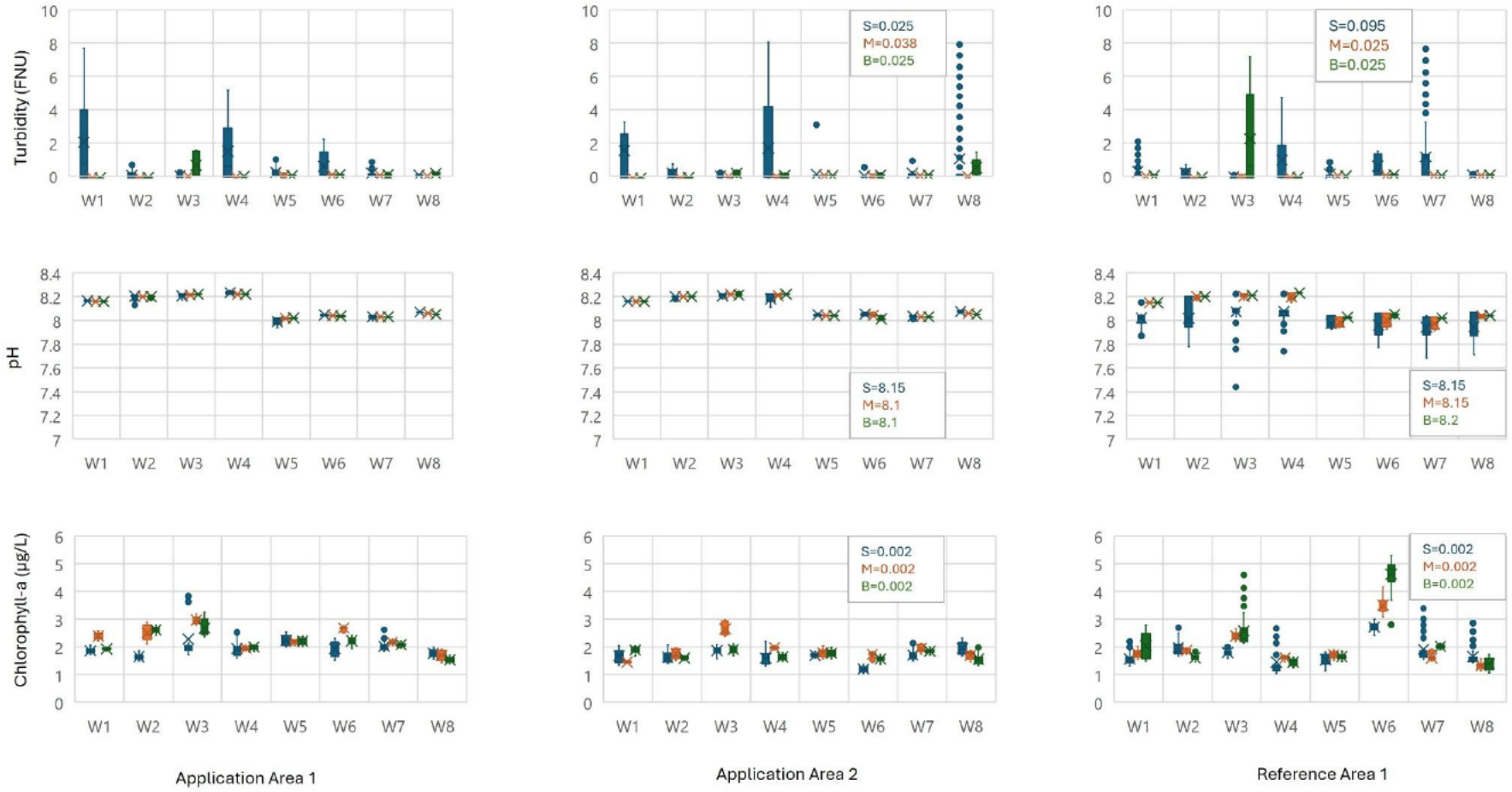


Figure 8: Weekly profile of key water quality parameters assessed at surface-water (S; blue), mid-water (M; orange) and bottom water (B; green) depths. Box plots represent sonde data profiles, and data insert boxes show 8-week medians of discrete grab samples at sites AA2 and Ref1. Note that the step change in pH is attributed to recalibration.

5.2 Comparison against regional water quality (SoE and Pākiri embayment)

5.2.1 Water quality

A comparison of Te Ākau Bream Bay ambient water quality against regional water quality data (NRC SoE data) and with the Pākiri Embayment (reported in Jacobs 2020) is presented in **Table 7**. The Te Ākau Bream Bay 8-week median values are listed against the NRC SoE 5-year median data and the available data range for the Pākiri Embayment (noting this was a smaller data set by comparison, and data are summarised from the pre-extraction baseline assessment only).

Table 8 lists the median and 95th percentile values of available data for a subset of key parameters relevant for the main effects of the proposed sand extraction – namely pH, turbidity and TSS. Data are compared across available regional data as well as the NRC PRP thresholds (where listed).

Across the main physicochemical parameters (DO, temperature, conductivity, salinity), monitoring results from the 8-week survey were in general agreement with the NRC SoE and Pākiri Embayment data ranges. Some minor differences (e.g. in salinity and DO) can be attributed to a combination of the differences in the size of the data sets available for comparison, seasonal differences (i.e. 8 weeks over May/June versus pooled seasonal effects), and differences due to instrumentation variation. Importantly, there are no marked or 'significant' differences that suggest any of the locations are inherently different in terms of the general state of ambient water quality.

There was no marked or 'significant' difference in mean nutrient and chlorophyll-a concentrations. Taking into account the difference in sample size, there were no marked differences that suggest the water body sampled at the Application Area 2 or Reference 1 locations (either by the sonde or discrete samples) were different compared with the three long-term NRC SoE monitoring sites in Te Ākau Bream Bay. In general, nitrogen-based parameters (TN, Amm-N, NNN, TKN) were marginally higher during the 8-week sample campaign than the median values across the 5 years for the three long-term NRC SoE sites. The 8-week median values, however, still represent very low concentrations, and differences are largely attributed to the difference in available data sets (i.e. eight sampling weeks versus five years of monthly data collection).

Median total phosphorus concentrations over the 8-week period were marginally lower than the long-term SoE median values, and DRP was lower for the Ref1 site and generally the same for the Application Area 2 site as compared against the SoE median. As with the nitrogen parameters, phosphorus concentrations represent very low values across the Te Ākau Bream Bay area and are not dissimilar to the long-term records.

The median pH of marine water in the proposed application and reference area, as listed in **Table 8** shows the pH values are within the range as set out in Table 25 of Policy H. 8.3.3 of NRC's PRP. The measurement of pH is not in scope for NRC's SoE programme and was not assessed by Jacobs (2020). Although there is a small difference between the field sonde and laboratory analyses, the median values (and 95th percentiles) are within the NRC PRP range. Differences are likely due to sonde calibration (as noted in Figure 8), and differences between field and laboratory methods of analysis.

Both turbidity and TSS median values were generally lower for the 8-week sampling period compared to the three SoE locations (**Table 8)**. The NRC Policy H.3.3 compliance metric for turbidity is described in narrative terms as '*No discernible change'* and '*must be maintained at or below the current annual median or at/below pre-existing levels, whichever is lesser*' (NRC PRP Policy H.3.3). For waters in Te Ākau Bream Bay, the existing ambient turbidity in

the coastal waters ranges from 1.14 NTU at Mair Bank to 3.35 NTU at Waipū Cove. The median assessed in the 8-week period demonstrated that there is consistency in median values recorded across the Application Area and Reference locations and across the depth profiles for the two locations. Any plume expected to be generated in the proposed Application Area is likely to be highly dispersed and diluted, and water quality at the mixing zone is highly likely to return to ambient background levels within a short period of time (i.e. within hours of any cessation of sand extraction activity, as noted in Jacobs 2020). It is, therefore, likely that the compliance metric of '*No discernible change*' (noting this metric is assessed as a 12-month median value) will be achieved following reasonable mixing.

Table 7: Te Ākau Bream Bay ambient water quality (median values) compared against NRC SoE 5-year median and Pākiri Embayment data (November-December 2019, Jacobs 2020)

Parameter	Te Ākau Bream Bay AA1 (sonde)	Te Ākau Bream Bay AA2 (sonde / discrete)	Te Ākau Bream Bay Ref1 (sonde / discrete)	NRC Whangārei Harbour at Mair Bank	NRC Waipū Cove at Beach	NRC Open Coast at Mangawhai Heads	Pākiri WQM[1]	Pākiri CTD[1]
Temperature (°C)	16.78	16.74	16.86	17.7	18.25	17.9	15.64-18.15	-
DO %	96.4	95.7	96.2	100.25	101.6	101.9	-	-
DO (mg/L)				7.725	7.8	7.87	7.02-7.58	7.51
Spec. Cond. (µS/m) (field)	53636	53650	53648	-	-	-	-	45400
Electrical Cond. (mS/m) (lab)	-	5330	5323	-	-	-		
pH (field)	8.05	8.05	8.04	-	-	-	-	-
pH (lab)	-	8.1	8.15	-	-	-	-	-
Salinity	-	36	36	34.25	34.19	34.485		35.34
Turbidity[1,2] (FNU) (field)	0.03	0.01	0.01	-	-	-	0.29 (NTU)	0.13-0.14 (NTU)
Turbidity[2] (NTU) (lab)	-	0.033	0.048	1.14	3.345	1.185	-	-
TSS (g/m^3)	-	1.5	1.5	5.2	21.5	9.9	0.98	2.4-2.9
Total Nitrogen (g/m^3)	-	0.15	0.15	0.0925	0.11	0.087	-	-
Ammoniacal-N (g/m3)	-	0.012	0.011	0.0025	0.0038	0.0025	-	-
Nitrate-N + Nitrite-N (g/m3) (NNN)	-	0.0332	0.0171	0.018	0.011	0.013	-	-
TKN (g/m^3)	-	0.10	0.10	0.087	0.0995	0.078	-	-

Parameter	Te Ākau Bream Bay AA1 (sonde)	Te Ākau Bream Bay AA2 (sonde / discrete)	Te Ākau Bream Bay Ref1 (sonde / discrete)	NRC Whangārei Harbour at Mair Bank	NRC Waipū Cove at Beach	NRC Open Coast at Mangawhai Heads	Pākiri WQM[1]	Pākiri CTD[1]
Total Phosphorus (g/m3)	-	0.008	0.0068	0.009	0.0135	0.009	-	-
DRP (g/m^3)	-	0.0078	0.00525	0.006	0.008	0.007	-	-
Chl-a (µg/L) (field)	2.12	1.75	1.70	-	-	-	1.22-1.27	1.0
Chlorophyll- a (g/m^3)	-	0.0015	0.0015	0.00125	0.0022	0.0014	-	-

[1] Ambient water quality, pre-plume trial extraction sampling.

[2] Turbidity units reported (as FNU or NTU) are similar; NTU measurements of turbidity are derived from a white light beam (as per USEPA method 180.1), whereas FNU measures turbidity with an infrared light source (in accordance with ISO7027).

Table 8: Key parameters (turbidity, TSS and pH) median with 95th percentile values in brackets compared against NRC and PRP ranges. 95th percentile values are included to determine the upper range of 'no discernible range' applicable to the assessment of effects.

Parameter	Te Ākau Bream Bay AA1 (sonde) Median/ 95th ile	Te Ākau Bream Bay AA2 (sonde / discrete) Median/ 95th ile	Te Ākau Bream Bay Ref1 (sonde / discrete) Median/ 95th ile	NRC Whangārei Harbour at Mair Bank	NRC Waipū Cove at Beach	NRC Open Coast at Mangawhai Heads	Pākiri Embayment[1]	PRP
pH (field)	8.05 (8.22)	8.05 (8.22)	8.04 (8.23)	-	-	-	-	8.0-8.4
pH (lab)		8.1 (8.2)	8.15 (8.2)	-	-	-	-	
Turbidity (FNU) (field)	0.03 (0.12)	0.01 (0.1)	0.01 (0.10)	-	-	-	-	No discern. change
Turbidity (NTU) (lab)	-	0.033 (0.083)	0.048 (0.206)	1.14 (4.09)	3.35 (10.95)	1.19 (3.64)	1.29-2.33	No discern. change
TSS (g/m^3)	-	1.5 (5.3)	1.5 (2.475)	5.2 (12.3)	21.5 (145.25)	9.9 (65.04)	1.04[2] - <3.0[3]	-

[1] Pākiri embayment data ranges are summarised from are from Jacobs (2020) and represent ambient water quality assessed for Pākiri Embayment, prior to the trial extraction plume assessment as described in Jacobs (2020). The data range is insufficient to calculate 95th percentile values.

[2] TSS data assessed from the continuous field deployment of sensors, not as the laboratory assessment of TSS water quality samples.

[3] TSS data were assessed as discrete water samples acquired using a Van Dorn grab sample method and laboratory analysis.

5.2.2 Metals/metalloid data (summarised from West and van Winkel 2025)

Table 9 sets out the summary of sediment organic content and potential contaminants in sampling cells sampled across the proposed Application Area (refer to West and van Winkel (2025) for a full description of the sampling method, detailed results and discussion). In brief, the site referred to as 'top' represents locations in the Application Area polygon, where sediment sampling locations were closest to the four identified anchorage sites adjacent to the proposed Application Area. This is followed by the mid-upper (second nearest), mid-lower (third nearest), and lower (most distant) polygon, with the hypothesis that the top polygon, being closest to the anchorage points, would potentially have the highest sediment contaminant levels.

Average sediment contaminants are listed in comparison against the ANZG default guideline values (DGV) as well as the NRC Policy H.3.4 values listed in Table 26 of the PRP.

Metal and organic contaminants are all well below the ANZG DGV as well as the NRC PRP thresholds. Sediments are also described as 'sandy' (West and van Winkel, 2025), with generally low mud and organic content (**Table 9**). On the basis of the very low levels of sediment contaminants and the sandy nature of the sediments, elutriate tests were not considered necessary to determine likely dissolution of metals into the water column following any proposed extraction activity.

Whilst this study did not test for the water column concentrations of key metals copper, zinc or lead (which are listed in the NRC PRP Table 25 of Policy H.3.3), nearby SoE water quality results for copper and zinc in coastal waters were within the PRP thresholds and reported as <0.0002 mg/L for copper, and <0.002 for zinc (NRC Environment Data[10]), noting the PRP thresholds of 0.0003 mg/L Cu and 0.007 mg/L Zn.

The actual and potential risk of contaminant mobilisation from sediment to the water column is discussed further in **Section 6.0**. However, given the low concentrations of contaminants in benthic sediments, the current state of copper and zinc at long-term water quality SoE sites, and no indication of new sources of contaminants at risk of accumulating at the Application Area. The weight of evidence supports the conclusion that water column contaminant levels at the proposed Application Area will also be low and well below NRC Regional Plan thresholds.

[10] https://www.nrc.govt.nz/environment/environmental-data/environmental-data-hub/?moduleId=7&collectionId=37&displayId=1

Table 9: Summary of sediment contaminants across the proposed Application Area sampled across the top polygon (closest to four identified anchorages), mid-upper, mid lower, and lower polygon (most distant from the four anchorages).

Parameter	Top	Mid Upper	Mid Lower	Lower	Pākiri range	ANZG-DGV	ANZG-High	NRC RP P H.3.4
Total Organic Carbon (%)	0.18	< 0.13	< 0.13	< 0.13	< 0.13	-	-	-
Metals/metalloids (mg/kg dry weight)								
Total Recoverable Arsenic	7.51	7.70	6.40	5.65	6.2-8.8	20	70	-
Total Recoverable Cadmium	0.01	0.01	0.01	< 0.01	< 0.01-0.011	2	10	0.68
Total Recoverable Chromium	16.25	15.35	14.15	11.70	11.7-14.1	80	370	52.3
Total Recoverable Copper	0.78	0.70	0.63	0.45	0.4-0.5	65	270	18.7
Total Recoverable Lead	2.33	2.30	2.12	1.64	1.48-1.79	50	220	30.2
Total Recoverable Mercury	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0	1	-
Total Recoverable Nickel	3.23	3.33	2.95	2.33	2.4-2.8	21	52	15.9
Total Recoverable Zinc	15.13	15.75	14.93	12.13	10.7-12.4	200	410	124.00
Hydrocarbons (mg/kg dry weight)								
C7 - C9	< 20	< 20	< 20	< 20	n.a	-	-	-
C10 - C14	< 20	< 20	< 20	< 20	n.a	-	-	-
C15 - C36	< 40	< 40	< 40	< 40	n.a	-	-	-
Total hydrocarbons (C7 - C36)	< 80	< 80	< 80	< 80	n.a	280	550	-

n.a=not assessed

6.0 Assessment of Effects

This section describes the approach for assessing the levels of potential and actual effects of sand extraction on water quality, i.e. the key environmental factor of interest in this report. The relative environmental 'value' (and contributing attributes) of the environmental factor (i.e. effects on the water column) are considered, as well as the magnitude (or consequence) of adverse impacts occurring during the sand extraction process. In addition, the likelihood, timing and duration of different levels of consequences are also considered as part of the magnitude criteria. The assessment includes the following environmental factors of water quality and the potential for residual TSS or turbidity to persist in the water column as a result of the proposed sand extraction activity. Risks to general water quality are also considered.

As noted in **Section 3**, the key considerations for this assessment are:

- Effects of sand extraction activities on receiving environment quality in relation to suspended sediment and resulting turbidity plumes anticipated to be generated in the water column;
- Effects of sand extraction on ambient water column pH;
- Effects of sand extraction activities on other general water quality, including physicochemical parameters (EC, DO, temperature), nutrients (nitrogen and phosphorus) and biological parameters (chlorophyll); and
- Effects of disturbance of the seabed floor on water column quality in regard to mobilisation of potential contaminants.

The assessment draws on the key findings set out for the Pākiri embayment extraction trials, as noted in **Section 4.2**, and the following assumptions:

- Sand characteristics are very similar between Pākiri and Te Ākau Bream Bay;
- Ambient water quality (physicochemical as well as nutrient quality) is very similar between Pākiri and Te Ākau Bream Bay;
- There is no discernible source of contaminants adjacent to the proposed application area that are identified as significantly contributing to reduced benthic quality and/or contributing to water column effects;
- The same vessel, *William Fraser,* is proposed to be used – thus the same assumptions regarding extraction operations and the discharge of overburden are applicable to operation in Te Ākau Bream Bay – with key differences noted in Section 3.2; and
- Resultant plume generation and behaviour (spatial and temporal extent) is likely to be similar in Te Ākau Bream Bay, as described for the Pākiri Embayment.

6.1.1 Defining effect

The Resource Management Act (RMA, 1991) defines the meaning of effect as:

a) any positive or adverse effect; and

b) any temporary or permanent effect; and

c) any past, present, or future effect; and

d) any cumulative effect that arises over time or in combination with other effects—regardless of the scale, intensity, duration, or frequency of the effect, and also includes

e) any potential effect of high probability; and

f) any potential effect of low probability that has a high potential impact.

The assessment of the significance of effects and determination of residual effects takes into account any planned mitigation measures incorporated into the proposed activity by the nature of its design. The significance of effects can be characterised as the result of the degree of change predicted (i.e. the magnitude of effect) and the value of the receptor/resource that is subjected to that change. For each impact, the value of the receptor (water column) (**Table 10**) and likely magnitude of the effect (**Table 11**) are defined below.

Table 10: Narrative descriptions for assigning an ecological value to the receptor (ambient water body)[11]

Category	Criteria description
Very high	Pristine quality water body; no evidence of land-based and/or anthropogenic effects.
High	High quality of water body; minimal land-based and/or anthropogenic effects, generally not discernible under ambient conditions.
Medium	Good quality of water body; some land-based and/or anthropogenic effects. Discernible but not long-lasting effects.
Low	Poor quality of water body; high land-based and/or anthropogenic effects that are discernible under ambient conditions.
Negligible	Degraded quality of water body; very high land-based and/or anthropogenic effects that precludes assessment of ambient conditions.

Table 11 below presents generic criteria for determining effect magnitude (for adverse effects). Each detailed assessment will define the effect magnitude in relation to its environmental aspect.

[11] Adapted from the approach set out in Jacobs (2020) and guidance in EIANZ EcIA (Roper-Lindsay et al., 2018). It is important to note that the EIANZ framework does not provide formal guidance on assigning value to the water body itself, rather the general approach to assigning value is considered for this report.

Table 11: Consequence (magnitude) and duration classifications[12]

Description	Scale	Duration and recovery	Natural environment
Negligible	Highly localised effect (within a small portion of the Application Area)	Temporary, during works only (hours-days). Receptor with a high capacity to absorb proposed changes; no recovery period necessary.	Negligible impact. No alteration of ambient conditions. No perceptible change to the specific conditions assessed. No remediation is required.
Low	Localised effect (within 50% of Application Area)	Short-term duration (days to weeks). Receptor with good capacity to absorb proposed changes; rapid natural recovery once activity stops (hours to days).	Detectable but small change to the specific conditions assessed that may temporarily exceed NRC/ANZG thresholds. No remediation is required.
Moderate	Medium-scale effect (constrained to Application Area)	Medium-term duration (weeks). Receptor with some (to little) capacity to absorb proposed changes. A short-term natural recovery period is required once activity stops (weeks to months, less than 5 years).	Detectable change to the specific conditions assessed, resulting in non-fundamental temporary change, such as moderate alteration to water quality indicators detected that exceed NRC/ANZG thresholds. No remediation is required.
High	Large-scale effect (impacting outside the Application Area into Te Ākau Bream Bay)	Long-term duration (months). Receptor with little to no capacity to absorb proposed changes; substantial recovery period required once activity stops (years to decades).	Widespread impacts and exceedance of baseline conditions outside the Application Area, moderate remediation may be required. Substantial changes to water quality that may impact ecosystem health.
Very high	Very large-scale effect (extending to wider Te Ākau Bream Bay and beyond)	Duration years-decades. Receptor (human, physical or biological) with no capacity to absorb proposed changes; recovery period required once activity stops is more than a decade.	Fundamental change to the specific conditions assessed resulting in long-term or permanent change, typically widespread in nature and requiring significant intervention to return to baseline; would violate national standards or Good International Industry Practice (GIIP) without mitigation. Major impacts and considerable remediation may be required. Major impact to ecosystem health.

[12] Adapted from Tables 8 and 9 of EIANZ EcIA (Roper-Lindsay et al., 2018)



6.2 Assessment methodology

The assessment methodology determines the value of the water body itself, identifies potential impacts and then assesses the magnitude and overall significance of environmental impacts. Impact significance involves a process of determining the acceptability of a predicted impact.

Risks and key environmental impacts to water quality associated with the proposed sand extraction were identified and evaluated through a method consistent with both the Risk management – Guidelines AS ISO 31000:2018 (Standards Australia 2018) and the EIANZ Ecological Impact Assessment Guidelines (Roper-Lindsay et al., 2018). Combining the two guidelines into this process recognises the key steps in Ecological Impact Assessment as described in the EIANZ guidelines – i.e., assigning a value based on current understanding of the state of the receptor (water column), and assessment of the magnitude of the impact (incorporating the capacity of the receptor to absorb the proposed change).

The assessment includes the following steps:

1 Identification of the main project activities (i.e. sand extraction, also known as environmental aspects[13] of the proposed activity in the risk assessment framework) with potential to affect[14] environmental receptor(s) (i.e. water quality);

2 Identification of environmental receptors that may be directly or indirectly affected[15] by project activities[16];

3 Determining the environmental value[17] of the receptor, in terms of the current state of the ambient water body within the vicinity of the proposed application area in Te Ākau Bream Bay, using the results of the targeted field campaign and available NRC data literature review for each factor (**Table 10**);

4 Describing the interaction between water quality and project activities (effects) to assign a consequence/magnitude of effects (**Table 11)**;

5 Assigning an inherent risk rating as per **Table 12** based on the assigned consequence x value, and ensure the description in **Table 13** is appropriate;

6 Identification of management/mitigation measures[18] (risk treatments) which will be incorporated to reduce the inherent risk of the proposed sand extraction activity; and

[13] Environmental aspects: A feature or characteristic of a project activity that affects or can affect the environment, i.e.: sand extraction via dredge, and disposal of residual oversized material constitute the main activities potentially impacting on water quality.

[14] Environmental effects: Any change that a project or activity (see aspects) may cause in the environment whether adverse or beneficial (impact is commonly used). For this assessment effects are considered as any change to the identified environmental factors, namely changes to water quality.

[15] Environmental effects: Any change that a project or activity may cause in the environment whether adverse or beneficial (impact is commonly used). For this assessment effects are considered as any change to the identified environmental factors (water quality parameters).

[16] Project activity: A feature or characteristic of a project activity that affects or can affect the environmental factors. identifies the environmental factors relevant to this project.

[17] Environmental value: adapted from EIANZ approach to assigning ecological value and/or sensitivity of a receptor. For the purpose of this assessment of effects, the state of the environmental conditions in the environmental media such as water (or sediment), is expressed in terms of its current state, based on the long term SoE data, the 8-week targeted field campaign, and the implied values integrated into the NRC Policy H.3.3 thresholds. For this report, only the 'value' of the water column itself (as the main receptor of interest) is considered, and does not include ecological or cultural values.

[18] Management/Mitigation: The implementation of measures designed to reduce the effects of a proposed action on the environment.

7 Determining the residual risk rating. The description of the risk ranking category is provided in the development of specific measures to treat the identified risks, which are subsequently incorporated into proposed management strategies, actions, and commitments to be implemented during the refurbishment program.

It is also important to note that the EIANZ framework was specifically developed for terrestrial and freshwater ecosystem assessments. Given that the process of assigning ecological value for marine ecosystems has not been set out in EIANZ, this report has adapted the theoretical framework and incorporated aspects of Standards Australia (2018).

The assessment of effect magnitude is undertaken by categorising identified effects of the Project as beneficial or adverse. Effects are then categorised as 'severe', 'major', 'moderate', 'low' or 'negligible' based on consideration of parameters such as:

- Duration of the effect – ranging from 'well into operation' to 'temporary with no detectable impact';
- Spatial extent of the effect – for instance, within the site boundary, within the district, regionally, nationally, and internationally;
- Reversibility – ranging from 'permanent, thus requiring significant intervention to return to baseline' to 'no change';
- Likelihood – ranging from 'occurring regularly under typical conditions' to 'unlikely to occur';
- Compliance with legal standards and established professional criteria – ranging from 'substantially exceeds national standards or international guidance' to 'meets the standards' (i.e. effects are not predicted to exceed the relevant standards) presents generic criteria for determining effect magnitude (for adverse impacts). Each detailed assessment in the accompanying AEE defines the effect magnitude in relation to its environmental aspect; and
- Any other effect characteristics of relevance.

Table 12: Risk rating[19]

		Value of the waterbody				
		Very high	High	Moderate	Low	Negligible
Magnitude of effect	Very high	Very high	Very high	High	Moderate	Low
	High	Very high	Very high	Moderate	Low	Negligible
	Moderate	High	High	Moderate	Low	Negligible
	Low	Moderate	Low	Low	Negligible	Negligible
	Negligible	Low	Negligible	Negligible	Negligible	Negligible

[19] Adapted from Table 10 of EIANZ EcIA (Roper-Lindsay et al., 2018)

Table 13: Risk ranking description[20]

Risk ranking	Risk description
Very High	Very high – Unacceptable[21] for the project to continue under existing circumstances. Refine the project and control measures to lower the risk category
High	High risk (intolerable risk) – Level of risk is generally unacceptable. Refine the project and control measures to lower the risk category
Medium	Medium risk – Level of risk is broadly acceptable[22]
Low	Low risk – Level of risk is largely acceptable
Negligible	Very low risk – Level of risk is acceptable

6.3 Effect Evaluation

The determination of effect significance involves making a systematic assessment of the magnitude of project impacts. This is typically conducted at two levels:

- The significance of project effects factoring in the mitigation inherently within the design of the project; and
- The significance of project effects following the implementation of additional mitigation measures to reduce residual risk to acceptable levels.

The effects are evaluated and take into account the interaction between the magnitude and sensitivity criteria as set out in the risk matrix in **Table 12** above. The outcome of the matrix approach is to identify the likely significance of effects on the environment and values of the project area. In this current assessment of environmental effects, effects that are identified to be 'moderate to 'very high' are considered as significant effects. Conversely, effects identified to be 'very low' to 'low' are not significant. Where impacts are determined to be significant, mitigation measures are required to be implemented to reduce residual risk to 'low' or 'very low' to be acceptable for the project effects assessment.

6.3.1 Effect on suspended sediment and turbidity plume generation

The results presented in **Section 5.0** demonstrate that ambient levels of both suspended sediment and turbidity throughout the water column are consistent between the sites in the Application Area and Reference locations. This was apparent for comparisons across the surface water (0-2m), midwater and bottom water ranges, noting there was generally no difference in the ambient levels of TSS or turbidity within each location, and between locations.

TSS and turbidity in the 8-week sampling campaign were also lower than the range and upper threshold (95th percentile levels) reported for NRC's SoE locations at Mair Bank,

[20] Adapted from Table 11 of EIANZ EcIA (Roper-Lindsay et al., 2018)

[21] 'Unacceptable impact' is the change in the receiving environment water quality that has exceeded the acceptable level and usually indicates that a change has occurred that is not acceptable from a socio-economic, ecological, biological or cultural values perspective. For the proposed Bream Bay sand extraction activity, 'unacceptable impacts' in this report are evaluated only for water quality.

[22] 'Acceptable level' is the maximum level of change in environmental parameters (water quality indicators) before the environmental effects become unacceptable. For the proposed Bream Bay sand extraction activity, changes are largely associated with TSS and turbidity in the water column.

Waipū Cove, and Mangawhai Heads. I note that the NRC monitoring locations are located further inshore than the Application Area, and, as such, this difference is expected.

As summarised in **Section 4.2**, assessment of plume generated by the *William Fraser* in the Pākiri Embayment reported minor elevations in TSS (3.5 – 8 mg/l) concentrations and turbidity (1 – 2 NTU) values in the surface water at the point of discharge that rapidly decline back to ambient ranges (Jacobs 2020). The findings from that study concluded that TSS concentrations and turbidity levels within the plume after 250 m were within ranges expected of a coastal marine environment. Noting the proximity of this area with Te Ākau Bream Bay, and the similarity in physicochemical parameters, it is reasonable to imply that any TSS and turbidity plume generated in the Te Ākau Bream Bay Application Area would similarly return to ambient background levels within a short period of time (i.e., within hours of the cessation of any sand extraction in the Application Area).

As noted in **Section 4.2**, the *William Fraser* would typically travel between 1.5 and 2.5 knots. As reported in Jacobs (2020), the plume transects were sampled during calm conditions, allowing the vessel to travel at a maximum of 2.5 knots, or at a rate of 3.25 minutes/250 m. As summarised in **Section 4.2**, by the time the vessel reached 2000 m, this equated to around 26 minutes, by which time TSS and turbidity were already within the range of background water quality.

NRC's Policy H.3.3 Coastal Water Quality Standards (Appendix 1) requires most water quality attributes in the open coast to have '*No discernible change'* to the annual median attribute state, 'allowing for reasonable mixing'. For water quality in the Application Area, the zone of reasonable mixing has not yet been defined, but the following is noted. TSS and turbidity vary across the three NRC SoE sites (see **Section 4.1**). The 5-year median TSS and turbidity at Waipū Cove were reported at 21.5 mg/L and 3.35 NTU, respectively. These are well above the median values reported for the 8-week sampling campaign for the Application area and Reference location, but also acknowledging here the large difference in sample size and regimes (i.e. eight, weekly samples for the targeted field campaign versus NRC's SoE with monthly sampling for 5 years, equating to 60 data points).

Taking this into account, the assessment of '*no discernible change'* still indicates that the open coast is highly dynamic, subject to fluctuations, and has a high capacity to absorb changes in disturbance regimes.

Disturbance incurred via the sand extraction process results in immediate elevation of TSS and water column turbidity. However, as demonstrated in the Pākiri transect assessment, elevated TSS and turbidity are likely to dissipate and attenuate quickly into the wider receiving environment; in this test, this was within ~30 minutes. Based on an extraction time of 3.5 hours[23], turbidity is likely to be elevated in the Application Area for approximately 4 hours total, noting that the area of elevated turbidity will be restricted to the location of the vessel. The residual effects after this time (if any) will not be discernible from the natural background variation that is already evident across the open coastal waters in Te Ākau Bream Bay.

Changes in the way the screening deck is operated can have significant effects on the volume of sediment passing over the screens and out under the vessel. In 2020, the screening deck was set up and operated in a way that each extraction track to fill the (923 m^3) hopper was in the order of 20 km. This equates to 3200 m^3 of sediment removed from the seabed to extract 923 m^3 — an efficiency of 29%. The plumes were the result of 2277 m^3 of sediment discharged. Under these operating conditions, the plume created

[23] See Section 3.2

behind the vessel was approximately as wide as the vessel, with very little lateral spread visible.

MBL have refined the setup and operation of the screening deck, and now each extraction track to fill the hopper is in the order of 13 km. This equates to 2080 m^3 of sediment removed from the seabed to extract 923 m^3 — an efficiency of 44%. The plumes will be the result of 1157 m^3 of sediment discharged, a 50% reduction on the tested 20 km setup. Since the plume water quality data collected and presented in Jacobs (2020) were tested under the 20 km extraction track setup, the water quality effects under the 13 km track setup are expected to be reduced. The sediment settlement rates will be similar, so the duration of the plume will be similar; however, with 50% less sediment discharged, it is expected that the suspended solids concentrations within the plume will be less than at Pākiri.

6.3.1.1 Aquaculture water intake

A submarine water intake pipe used for aquaculture operations at NIWA is located 5.78 km to the northwest of the proposed extraction area. The intake pipe has a diameter of 2.4 m and is approximately 6 m below the sea surface. The annual average turbidity measured at the water intake was 1.5 and 1.3 NTU in 2023 and 2024, respectively; however, turbidity can increase up to 4 NTU during storms.[24] During Cyclone Gabrielle (12–15 February 2023), values of up to 15 NTU were recorded.[21]

As summarised in **Section 4.2**, turbidity levels measured in surface waters of the discharge plume returned to <1 NTU within 250 m and were within the range of ambient levels. At the end of the 2 km transect, turbidity was indistinguishable from ambient levels. Sediment suspended lower in the water column is likely to disperse less than in the upper water column due to settling. As such, there is unlikely to be any measurable turbidity difference at the water intake due to the sand extraction for the following reasons:

- The northwestern corner of the Application Area is 5.78 km from the water intake. This is almost three times further than the 2 km transect measured at Pākiri, where turbidity was indistinguishable from ambient levels. This transect was in the direction of the plume. The rest of the Application Area is further away from the water intake, which will further decrease the likelihood of effects.
- As noted above, up to 50% less sediment is expected to be discharged in Te Ākau Bream Bay than during the Pākiri Embayment measurements due to refinements in the setup and operation of the screening deck. This will further reduce the potential effects on water column turbidity.

As such, the potential effects of the extraction activity on the aquaculture water intake are considered to be **Negligible**. This Coastal Processes report (Tonkin and Taylor, 2025; section 5.11.6) reaches a similar conclusion, that 'no effects' are expected at the intake.

6.3.1.2 Overall effects on suspended sediment and turbidity

In line with the criteria outlined in **Table 10** and **Table 11**, the current state of marine water quality in Te Ākau Bream Bay can be considered to be of **High** quality. This is due to it being located in the open coast, subject to some land-based inflow and anthropogenic disturbance, and having naturally high variability. It also has a high capacity to absorb the proposed changes from any temporary effects on water quality, and any effects are likely to be temporary and not discernible from ambient water quality after reasonable mixing. The sampling results indicate that the magnitude of effects from the sand extraction activity on

[24] Pers. comms. Andrew Forsythe (NIWA), via email dated 31 January 2025.



TSS and turbidity concentrations is **Negligible** after reasonable mixing. There is likely to be '*No discernible change*' (as per the NRC Policy H.3.3 Coastal water quality standards, and as assessed over a 12-month period) between the water in the application area/mixing zone, as compared to the wider open coastal waters, after reasonable mixing.

Overall, it is considered that water quality will be maintained and not degraded by the proposed activities. This is consistent with Objective 1 of the New Zealand Coastal Policy Statement (NZCPS), Objective 3.2 of the Regional Policy Statement for Northland, and Objective F.1.2 of the Proposed Regional Policy Statement for Northland.

As such, the overall level of effects on TSS and turbidity in the water column is determined to be **Negligible** and localised to the area of extraction.

6.3.2 Effect on ambient water column pH

Section 4.3 summarises the status of current knowledge about ocean pH for New Zealand's coastal waters, noting that the only available long-term trends are available for the established long-term monitoring site off the coast of Dunedin – the Munida Time Series open ocean site (65 km long transect). A recent trend analysis (reported in NIWA 2022) found that ocean acidity in the sub-Antarctic waters along the transect increased by an average of 8.6 % over the 23 years from 1998 to 2020, noting this was within the range observed at other open-ocean sites around the world (NIWA 2022). It is reiterated again that pH is measured on a logarithmic scale, and the increase in acidity is equivalent to a decrease of 0.023 pH units – from a modelled value of pH 8.092 in 1998 to pH 8.057 in 2020 (NIWA 2022).

The Time of Emergence for trends to be able to be assessed for coastal waters in Auckland and the Bay of Plenty was estimated to be 73 and 60 years, respectively. Given the proximity to Te Ākau Bream Bay, a similar time period (>60 years) is likely to apply for any discernible trends in pH to emerge.

There are no SoE data that assess pH in the Northland region. The median and 95th percentiles summarised from the 8-week sampling campaign show little difference between sites or with depth. On a weekly basis, the EXO2 Sonde profile data indicated a wider range of variance, but only at the Reference location and for the surface water (0–2m) depth range. This was more pronounced in weeks 1 to 4 and, to a lesser extent, in weeks 5 to 8. Laboratory data showed very little difference between the median pH recorded for surface, mid-water and bottom-water results.

All median pH levels were within the NRC Policy H.3.3 range for pH of 8.0–8.4 for open coastal waters. Fluctuations to pH are anticipated to be recorded over time – influences are likely to include (but not be limited to) land-based nutrients discharged to the open coast (influencing primary production and carbon/nutrient cycling processes), changes to coastal water temperature, and global increases in greenhouse gas emissions. Disturbance to the seabed floor has been implied as a source potentially contributing to the release of carbon stores that may also contribute to ocean acidification, but levels of organic content in benthic sediments have been reported as very low (**Section 5.2.2**), thus do not represent a notable source of available organic carbon.

In line with the criteria outlined in **Table 10** and **Table 11**, the current state of marine water quality in terms of pH in Te Ākau Bream Bay can be considered to be of **High** quality in that it is located on the open coast, subject to some land-based inflow and anthropogenic disturbance, but has naturally high variability. Any localised flux in pH is likely due to processes on larger spatial and temporal scales than those associated with the footprint of the proposed Application Area. In terms of pH, there is likely to be no change to annual

median values outside the pH range prescribed in NRC Policy H.3.3 Coastal water quality standards as a result of the proposed sand extraction activity.

The results of the sampling undertaken indicate that the magnitude of effects from the sand extraction activity on pH is **Negligible** after reasonable mixing. There is likely to be '*No discernible change*' (as per the NRC Policy H.3.3 Coastal water quality standards, and as assessed over a 12-month period) between the pH of the water in the application area/mixing zone, as compared to the wider open coastal waters, after reasonable mixing.

As such, the overall level of effects on pH in the water column is determined to be **Negligible**.

6.3.3 Effect on general water quality

Effects of sand extraction activities on other general water quality include potential effects to effects to physicochemical parameters (EC, DO, temperature), nutrients (nitrogen and phosphorus) and biological parameters (chlorophyll-a).

As summarised in **Section 5.2**, the 95th percentiles for the physicochemical and nutrients at the NRC SoE sites demonstrate that the upper ranges recorded to date are higher than those recorded across the 8-week sampling period.

Freshwater inflows to the bay are the likely contributor to fluctuations in nutrient status, as well as responsible for the variation observed for TSS and turbidity. For the proposed Application Area in Te Ākau Bream Bay, these freshwater sources are likely to be the Ruakākā River and Waipū River. NRC's long-term freshwater monitoring site Ruakākā at Flyger Road[25] reports the river is in the worst 25% of all rivers in New Zealand for turbidity, clarity, ammoniacal-nitrogen, and phosphorus (TP and DRP), and is in the worst 50% of rivers for nitrogen (including TN, TON, nitrate-N, and DIN). At the point of discharge to Te Ākau Bream Bay, this is a relatively short distance (approximately 7 km) to the proposed Application Area. Water quality in Te Ākau Bream Bay is also likely to be influenced by that of the Whangārei Harbour, which discharges in the north of Te Ākau Bream Bay.

In the absence of other contaminating sources, the extraction of sand from the seabed floor is highly unlikely to contribute to localised fluctuations in nutrients in the water column (given the low organic content and sandy nature of the benthic environment). Any fluctuations would be near impossible to discern from the ambient background fluctuations already observed at the open coast SoE monitoring locations.

Effects of increased turbidity, and thus reduced light penetration through the water column, can reduce the available light for photosynthetic processes of primary producers such as aquatic plants and phytoplankton. As discussed above, any plume generation and effects on turbidity are highly localised and short-lived (i.e. water quality is returned to ambient conditions within ~30 minutes of the cessation of the proposed sand extraction activities).

To gain a broad perspective, an approach to assess the area of Te Ākau Bream Bay over which elevated turbidity and, therefore, potentially reduced photosynthetic activity occurs is to look at the maximum area covered under the proposed extraction scenario. This is an extraction up to 3.5 hours, travelling between 1 and 3 knots (using an average of 2 knots for this example), which equals a distance of 13 km. Figures 3 and 4 show that the plume width behind the vessel is relatively narrow; for this assessment, a plume width of 100 m has been assumed, but it is acknowledged that this is a rough estimate, noting that the behaviour of a plume will be highly asymmetrical in response to the prevailing sea state, wind direction and currents. A distance of 13 km and a plume width of 100 m result in a total area of 1.3 km^2. Te

[25] https://www.lawa.org.nz/explore-data/northland-region/river-quality/ruakaka-river/ruakaka-at-flyger-road

Ākau Bream Bay is approximately 200 km^2, meaning that during each extraction over about 4 hours, up to 0.65% of the area in Te Ākau Bream Bay may be subjected to elevated levels of turbidity, but also noting that the area impacted at any point in time will be a small fraction of the 1.3 km^2 due to the dispersal and settling of the sediment.

Considering the relatively small proportion of Te Ākau Bream Bay that will be subjected to elevated turbidity levels at any one time, the effects of the proposed activity on phytoplankton in Te Ākau Bream Bay are considered to be **Negligible**.

In line with the magnitude criteria outlined in **Table 10** and **Table 11**, the current state of water quality in Te Ākau Bream Bay (in terms of nutrients and physicochemical water quality) can be considered to be of **High** quality, in that it is located on the open coast, subject to some land-based inflow and anthropogenic disturbance, but has naturally high variability. It also has a high capacity to absorb the proposed changes from any temporary effects on water quality, and any effects are likely to be temporary and not discernible from ambient water quality after reasonable mixing. Any localised flux in nutrients is largely influenced by freshwater inflows to the bay rather than as a result of the proposed sand extraction activity. Similarly, fluctuations to metocean conditions, including salinity, ocean temperature and dissolved oxygen, are influenced on much larger spatial and temporal scales than those that are incurred within the proposed Application Area itself. Given the fluctuations in general water quality observed for the NRC SoE sites and the high capacity of the water body to absorb any effect, there is likely to be '*no discernible change*'[26] between the water in the application area/mixing zone and the wider open coastal waters after reasonable mixing. As such, the magnitude of effects from the sand extraction activity on nutrient concentrations and physicochemical water quality is **Negligible** after reasonable mixing.

As such, the overall level of effects on general water quality is determined to be **Negligible**.

6.3.4 Effect on sediment contaminant mobilisation

The effects of disturbance of the seabed floor on water column quality in regard to the mobilisation of potential contaminants were summarised in Section 5.2.2. The field investigation detailed in West and van Winkel (2025) reported very low sediment contaminant concentrations in all composite sample analyses, including those closest to the known anchorage locations that were proposed to be at the highest risk of containing contaminants. Similarly, the 'sandy' texture, low mud content, and low organic content reduce the potential for the benthic area within the proposed Application Area to act as a potential 'sink' for any contaminant deposition in the future.

NRC's coastal SoE monitoring has included monitoring for both copper and zinc as part of the long-term water quality monitoring programme. Analyses of median copper concentrations found median levels at two locations (Mangawhai Heads and Mair Bank, both recording 5-year median values of 0.0005 mg/L) were above the NRC Policy H.3.3 threshold of 0.0003 mg/L. Median zinc concentrations were below the NRC Policy H.3.3 threshold for zinc (0.007 mg/L). Noting the threshold of compliance is annual maximum (rather than annual median), site analyses also demonstrated regular exceedance at all three SoE locations for copper and occasional exceedance for zinc.

The target attribute state for copper and zinc in open coastal waters, by comparison to the ANZG thresholds, indicates the NRC thresholds as generally conservative – representing the 99th percentile of species protection (Cu) and two times the 99th percentile of species protection for zinc. It is noted that the ANZG DGVs are long-term chronic thresholds, and these are generally applicable after reasonable mixing has been taken into consideration. In

[26] as per the NRC Policy H.3.3 Coastal water quality standards, and as assessed over a 12-month period



addition, the 99th percentile of species protection represents conditions that are considered undisturbed or pristine.

The water body in Te Ākau Bream Bay can be considered to have high water quality. The proximity of the proposed Application Area to land-based influences and freshwater inflows, however, means that the water body may be subject to temporal fluctuations following significant freshwater inflows after rainfall that would potentially flush contaminants to the coastal receiving environment. Given the very low sediment contaminant concentrations recorded in the proposed Application Area, the proposed activity of sand extraction represents a very low source of potential contamination that is unlikely to contribute to the current concentrations assessed at NRC's SoE locations in the region.

Benthic sediment is generally the repository of water-borne contaminants such as metals and hydrocarbons, and deposition is facilitated by the presence of elevated sediment organic content as well as fine particulates/mud content. The results of sediment analyses (Bioresearches 2024) confirm that all benthic sediment metal and hydrocarbon concentrations in the proposed Application Area are low and do not indicate that the Port or wider harbour activities pose any long-term risk to sediment contamination levels across the proposed Application Area.

In line with the criteria outlined in **Table 10** and **Table 11**, the current state of marine water quality in Te Ākau Bream Bay can be considered to be of **High** value. The waters are located on the open coast, subject to some land-based inflow and anthropogenic disturbance that may contribute to fluxes in water column contaminants (copper and zinc) but have naturally high variability. It also has a high capacity to absorb the proposed changes from any temporary effects on water quality, and any effects are likely to be temporary and not discernible from ambient water quality after reasonable mixing.

On the basis of the current state of sediment contaminant concentrations being very low, and variability in dissolved copper and zinc concentrations (assessed by NRC to be within the 95th percentile level of species protection), the magnitude of effects from the sand extraction activity on dissolved contaminant concentrations is **Negligible**, after reasonable mixing. There is likely to be no change on an annual basis outside the range prescribed in NRC's Policy H.3.3 Coastal water quality standards.

As such, the overall level of effects on general water quality is determined to be **Negligible**.

7.0 Mitigation and Monitoring

As outlined in **Section 6**, the overall level of effects of the sand extraction activity on the receiving water quality in Te Ākau Bream Bay is considered to be **Negligible** for all factors assessed.

The utilisation of the six moon pools on the *William Fraser* vessel (as discussed in Jacobs 2020) has shown to be effective at confining both the spatial and temporal plume in the water column to one that is highly localised, short term in duration, and of low intensity and will form an effective mitigation to ensure effects to the water column are kept to a minimum, and water quality will return to ambient levels both within the footprint of the proposed Application Area, and in the immediate receiving environment, within hours of cessation of any sand extraction activities.

Sand extraction will not incur any adverse effects on other water quality parameters, including pH, nutrients, or chlorophyll-a. Additional mitigations to manage potential adverse effects of these factors are therefore not required. Water quality applicable to this area, as prescribed in the Coastal Plan and the NZCPS, will be maintained.

Whilst specific additional mitigation measures are not required to reduce potential effects, recommendations have been provided below in line with good international industry practice:

- All project-associated vessels to have and implement a waste management plan compliant with the International Convention for the Prevention of Pollution from Ships (1973/1978) (Marpol 73/78) and its Annexes;
- An Oil Spill Prevention and Response Plan to be produced and implemented prior to sand extraction (McCallum Bros Limited., 2025a); and
- All project-associated vessels to work to Maritime New Zealand standards and the International Maritime Organisation (IMO) standards.

There are no additional specific monitoring recommendations with respect to water quality.

8.0 Conclusions

This assessment considered the potential effects of the proposed sand extraction activity on general water quality in the proposed Application Area, Te Ākau Bream Bay.

Results from the eight-week targeted field campaign in Te Ākau Bream Bay (May to June 2024) assessed the general water quality both within the proposed Application Area and at the proposed southern control Reference Area. Results showed little difference between the two sites, and within sites, there was little difference between the surface, midwater and bottom water quality.

Compared against available regional water quality monitoring under NRC's long-term SoE programme, it is expected that the general receiving environment is subject to both spatial and temporal variations in water quality in the open coast. For parameters such as TSS, turbidity, nutrients and metals, these are all highly influenced by a combination of local metocean conditions as well as land-based sources from freshwater inflows.

Water quality in terms of temperature, dissolved oxygen, and pH is subject to larger-scale climatic drivers occurring on a global scale. Whilst outside the scope of this assessment, it is apparent that the Te Ākau Bream Bay environment may be subject to global changes in pH, primarily due to climate change and wider sea temperature drivers, but this is likely not to become apparent or detectable for decades to come (refer to **Section 4.3**).

In lieu of trialling sand extraction to assess effects on water quality at the proposed Application Area, results from the Pākiri Embayment 2019 plume sampling transects (detailed in Jacobs 2020) were considered to be applicable to the Te Ākau Bream Bay proposal. These results concluded that minor elevations in TSS and turbidity are likely to occur at the water's surface at the point of discharge of any overburden and extraction activity, but rapidly return to ambient levels over a short distance from the extraction vessel (i.e. at ~250m and after reasonable mixing). Further, water quality was reported to return to ambient conditions after 26 minutes of plume sampling, representing a distance of 2000 m traversed by the *William Fraser.*

Jacobs (2020) also stated that the discharge of overburden via the six moon pools on the *William Fraser vessel* also assists in reducing the spread of the plume and reducing the visual effects of the plume from the sea surface. The low TSS concentrations and turbidity values observed at the point of discharge compared to the TSS concentrations from the weir board discharges demonstrated that the majority of the material being discharged comprised oversized material that falls rapidly through the water column.

Te Ākau Bream Bay and Pākiri Embayment are similar benthic environments with regard to benthic sediment quality – both comprise sandy texture, low mud, and low organic content, and low sediment contaminant status. Given that the *William Fraser* vessel will be used in the proposed sand extraction for Te Ākau Bream Bay, the water quality findings for Pākiri Embayment are applicable to Te Ākau Bream Bay.

Any plume generated by proposed sand extraction in Te Ākau Bream Bay will be highly localised in terms of the temporal and spatial extent and limited plume intensity. Given the relatively exposed coastal setting of the wider Te Ākau Bream Bay environment and natural fluctuations experienced in the bay, it is considered that water quality will be maintained and not degraded by the proposed activities. This is consistent with Objective 1 of the NZCPS, Objective 3.2 of the Regional Policy Statement for Northland, and Objective F.1.2 of the Proposed Regional Policy Statement for Northland. On this basis, the overall level of effects of the proposed sand extraction on water quality in Te Ākau Bream Bay is considered to be **Negligible**.

9.0 References

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Appendix A Regional Plan Policies

Te Ākau Bream Bay Sand Extraction

Water Quality Assessment of Environmental Effects

McCallum Group

SLR Project No.: 820.030379.00001

17 December 2025

Proposed Natural Resources Plan Standards and Guidelines

Policy H.3.3 Coastal Water Quality Standards

The water quality standards in Table 25: Water quality standards for ecosystem health in coastal waters, contact recreation and shellfish consumption apply to Northland's coastal waters, and they apply after allowing for reasonable mixing.

Table 25: Water quality standards for ecosystem health in coastal waters, contact recreation and shellfish consumption

Attribute	Unit	Compliance Metric	Coastal water quality management unit			
			Hātea River	Tidal Creeks	Estuaries	Open coastal water
Dissolved oxygen	Mg/L	Annual median	>6.2	>6.3	>6.9	No discernible change
		Minimum	4.6			
Temperature	°C	Maximum change	3			
pH	pH units are dimensionless	Annual minimum and annual maximum	7.0-8.5			8.0-8.4
Turbidity	NTU	Turbidity must be maintained at or below the current annual median or at or below pre-existing levels, whichever is lesser.	<7.5	<10.8	<6.9	No discernible change
Secchi depth	m	Annual median	>0.8	>0.7	>1.0	No discernible change
Chlorophyll-a	mg/L	Annual median	<0.003	<0.004	<0.004	No discernible change
Total phosphorus	mg/L	Annual median	<0.119	<0.040	<0.030	No discernible change
Total nitrogen	mg/L	Annual median	<0.860	<0.600	<0.220	No discernible change
Nitrate-nitrite nitrogen	mg/L	Annual median	<0.580	<0.218	<0.048	No discernible change
Ammoniacal nitrogen	mg/L	Annual median	<0.099	<0.043	<0.023	No discernible change
Copper	mg/L	Maximum	0.0013			0.0003
Lead	mg/L	Maximum	0.0044			0.002
Zinc	mg/L	Maximum	0.0150			0.007

Attribute	Unit	Compliance Metric	Coastal water quality management unit			
			Hātea River	Tidal Creeks	Estuaries	Open coastal water
Faecal coliforms	MPN/100mL	Median	Not applicable		≤14	≤14
		Annual 90th percentile	Not applicable		≤43	≤43
Enterococci	Enterococci/100mL	Annual 95th percentile	≤500	≤200	≤200	≤40

Advice Note: Water quality values will vary throughout the year, and the values stated as annual median or percentile values may be exceeded for short periods of time during that annual period without the median or percentile standard being exceeded.

Policy H.3.4 Coastal sediment quality guidelines

A discharge of a contaminant into coastal water or any surface water flowing to coastal water must not cause any of the following benthic sediment quality standards to be exceeded in the coastal marine area.

Table 26: Coastal sediment quality guidelines for Northland coastal marine areas

Attribute	Unit	Compliance Metric	Coastal water quality management unit			
			Hātea River	Tidal Creeks	Estuaries	Open coastal water
Copper	Mg/kg	Maximum	65	18.7		
Lead	Mg/kg	Maximum	50	30.2		
Zinc	Mg/kg	Maximum	200	124		
Chromium	Mg/kg	Maximum	80	52.3		
Nickel	Mg/kg	Maximum	21	15.9		
Cadmium	Mg/kg	Maximum	1.5	0.68		

Appendix B EXO2 Sonde calibration and verification records

Te Ākau Bream Bay Sand Extraction

Water Quality Assessment of Environmental Effects

McCallum Group

SLR Project No.: 820.030379.00001

17 December 2025

VAN WALT
monitoring your needs

Van Walt Ltd - [redacted]
email: [redacted] - www.vanwalt.com

Service Report

Company: SLR Consulting **Contact Person:** Nicola Pyper
Instrument: EXO 2 **Serial number:** 14J102579

Customer Description:
Recovered from flood incident.

Initial Inspection:

- Sonde and cable appear to be in serviceable condition. Handset damaged beyond repair.
- Initial readings after cleaning.

	Reading
pH7	7.25
pH4	4.66
Conductivity (1413)	1463
ORP (250)	234
DO%	106%
Chlorophyl	n/a

- Connected to KOR software via USB adapter. Updated firmware
- Inwards test good for all parameters. Chlorophyl sensor appears ok but not tested with standard. pH module OK but toward the end of its life. DO% reads OK but DO cap expired.
- EC, pH, ORP and DO calibrated fine. Chlorophyl remains on factory calibration.
- Checked remaining settings via KOR software.

Conclusion:

- The sonde and sensors are serviceable but are due for some consumable parts replacing (pH/ORP module and DO cap)
- Cable tested OK
- Handset. Damaged beyond repair.

Date completed: **28/07/2023.**

VAN WALT
monitoring your needs

Repairs completed 15/03/2024

Fit New DO Cap: 24B102689
Fit New pH ORP Module: 24C100014
Update DO Cap coefficients.
Verify Temperature
Calibrate EC
Calibrate DO
Calibrate pH
Calibrate ORP
Calibrate Chlorophyl
Check firmware.
Test handset: SN: 24B102224. Set time and date, display units. OK

Dirk va[redacted]

Calibration Report

Last Calibration Time: 21/03/2021 15:54:45

Calibration Start Time: 09/02/2024 13:48:52

Calibration End Time: 09/02/2024 13:51:31

Parameter: DO (% Sat)

Instrument:

Type: EXO1

Name: Sonde 13H100005

Serial Number: 13H100005

Firmware Version: 1.0.86

Sensor:

Type: DO

Serial Number: 13M100136

Firmware Version: 3.0.5

Status: Completed

Technician: <Unknown>

QC Score: Good

Sensor Specific

DO Cap Serial Number: 13L100169

DO Cap Replacement Date: 11/09/2015

DO Gain: 1.16

DO (mg/L): 8.07 mg/L

Notes:

Calibration Points:

Calibration Point #1:

Pre Calibration Value: 93.7 % Sat

Post Calibration Value: 96.6 % Sat

Raw Calibration Value: 0.0 % Sat

Temperature: 24.529 °C

Standard Value: 100.0 % Sat

Is Stable: True

Barometer: 735.0 mmHg

Calibration Report

Last Calibration Time: 09/08/2019 11:14:10

Calibration Start Time: 09/02/2024 13:58:57

Calibration End Time: 09/02/2024 14:00:22

Parameter: Sp Cond (µS/cm)

Instrument:

Type: EXO1

Name: Sonde 13H100005

Serial Number: 13H100005

Firmware Version: 1.0.86

Sensor:

Type: Conductivity

Serial Number: 13L101948

Firmware Version: 3.0.5

Status: Completed

Technician: <Unknown>

QC Score: Good

Sensor Specific

Cell Constant: 5.63

Notes:

Calibration Points:

Calibration Point #1:

Pre Calibration Value: 1407.2 µS/cm

Post Calibration Value: 1413.0 µS/cm

Raw Calibration Value: 0.0 µS/cm

Temperature: 22.861 °C

Standard Value: 1413.0 µS/cm

Is Stable: True

Calibration Report

Last Calibration Time: <Unknown>

Calibration Start Time: 15/03/2024 12:13:52

Calibration End Time: 15/03/2024 12:17:51

Parameter: pH

Instrument:

Type: EXO1

Name: Sonde 13K103237

Serial Number: 13K103237

Firmware Version: 1.0.86

Sensor:

Type: pH/ORP

Serial Number: 14G101422

Firmware Version: 3.0.0

Status: Completed With Warnings

Technician: <Unknown>

QC Score: Good

Sensor Specific

pH Range: 4.00 pH - 7.00 pH

Delta Slope 173.6 mV

mV per Decade 57.87

Sensor Module Replacement Date: 15/03/2024

Notes:

Calibration Points:

Calibration Point #1:

Pre Calibration Value: 7.22 pH

Post Calibration Value: 7.00 pH

Raw Calibration Value: -13.0 mV

Temperature: 20.048 °C

Standard Value: 7.00 pH

Is Stable: True

Calibration Point #2:

Pre Calibration Value: 4.23 pH

Post Calibration Value: 4.00 pH

Raw Calibration Value: 160.6 mV

Temperature: 19.969 °C

Standard Value: 4.00 pH

Is Stable: True

Calibration Report

Last Calibration Time: <Unknown>

Calibration Start Time: 15/03/2024 12:20:44

Calibration End Time: 15/03/2024 12:21:49

Parameter: ORP (mV)

Instrument:

Type: EXO1

Name: Sonde 13K103237

Serial Number: 13K103237

Firmware Version: 1.0.86

Sensor:

Type: pH/ORP

Serial Number: 14G101422

Firmware Version: 3.0.0

Status: Completed

Technician: <Unknown>

QC Score: Good

Sensor Specific

Sensor Module Replacement Date: 15/03/2024

Notes:

Calibration Points:

Calibration Point #1:

Pre Calibration Value: 249.0 mV

Post Calibration Value: 255.8 mV

Raw Calibration Value: 0.0 mV

Temperature: 19.999 °C

Standard Value: 255.8 mV

Is Stable: True

Calibration Report

Last Calibration Time: 15/02/2023 14:43:46

Calibration Start Time: 15/03/2024 14:02:22

Calibration End Time: 15/03/2024 14:11:40

Parameter: Chlorophyll (RFU)

Instrument:

Type: EXO1

Name: Sonde 13K103237

Serial Number: 13K103237

Firmware Version: 1.0.86

Sensor:

Type: TAL-PE

Serial Number: 17E104255

Firmware Version: 3.0.5

Status: Completed With Warnings

Technician: <Unknown>

QC Score: Good

Notes:

Calibration Points:

Calibration Point #1:

Pre Calibration Value: 0.28 RFU

Post Calibration Value: 0.00 RFU

Raw Calibration Value: 0.00 RFU

Temperature: 19.938 °C

Standard Value: 0.00 RFU

Is Stable: False

Calibration Point #2:

Pre Calibration Value: 16.37 RFU

Post Calibration Value: 17.30 RFU

Raw Calibration Value: 0.00 RFU

Temperature: 19.082 °C

Standard Value: 17.30 RFU

Is Stable: True

Calibration Report

Last Calibration Time: 09/08/2019 11:29:07

Calibration Start Time: 23/04/2024 11:42:30

Calibration End Time: 23/04/2024 11:47:47

Parameter: Turbidity (FNU)

Instrument:

Type: EXO1

Name: Sonde 13H100005

Serial Number: 13H100005

Firmware Version: 1.0.86

Sensor:

Type: Turbidity

Serial Number: 15A103752

Firmware Version: 3.0.0

Status: Completed

Technician: <Unknown>

QC Score: Good

Notes:

Calibration Points:

Calibration Point #1:

Pre Calibration Value: -1.41 FNU

Post Calibration Value: 0.00 FNU

Raw Calibration Value: 0.00 FNU

Temperature: 16.560 °C

Standard Value: 0.00 FNU

Is Stable: True

Calibration Point #2:

Pre Calibration Value: 128.65 FNU

Post Calibration Value: 124.00 FNU

Raw Calibration Value: 0.00 FNU

Temperature: 16.759 °C

Standard Value: 124.00 FNU

Is Stable: True

POST VERIFICATION/
CALIBRATION REPORT

SLR

Water Quality Meter Calibration Form	
Meter ID:	EXO2 - 14J102579
Staff Member:	Pamela Kane-Sanderson / Daniel Ahern
Date:	07 May 2024
Time (NZST):	14:00
Monitoring Programme:	Bream Bay Water - McCallum Group - 820.030379.00001

3 Point pH Calibration

Solution	Temperature (° C)	pH Value (pH)	~~pH Value (mV)~~	Acceptable
pH 7	18.42	7.12		(Y) / N
pH 4	18.36	4.10		(Y) / N

Specific Conductivity Calibration

Solution	Temperature (° C)	Conductivity Value	Acceptable
1,413 µs/cm	18.90	1212 µs/cm	(N) → sensor cleaned
~~147 µs/cm~~		1220	~~X~~ (N) → re-calibrated 1413

Dissolved Oxygen Calibration

Post-Calibration	Temperature (° C)	DO (mg/L)	DO (% S)	Acceptable
DO	19.66		108%	Y (N) → recalibrate 100.6%

DO% cB 100%.

ORP Calibration

Calibration Value (mV)	240 Not acceptable.	→ calibrate 257.8
Temperature (° C)	18.5°C	

End of Day Checks

Staff Member: Pamela Kane-Sanderson/Dan Ahern — Time (NZST):

Parameter	Value	Temperature (° C)	Acceptable	
pH 7	7.12	18.42	(Y) / N	
Specific Cond. (µs/cm)	1212	18.90	Y / (N)	→ recalibrate
ORP (mV)	240	18.5	(N)	→ re-calibrate
Turbidity (FNU)	1.5 FNU = demineralised water	125.5 FNU = turbidity standard	(Y) / N	
Chlorophyl-a	19.44 chl RFU / 71.44 Chl µg/L	17.46 °C	(Y) / N	

Guidance Notes

pH calibration is acceptable if pH in mV is within the following:
- pH 7: 0 mV (+/- 50 mV). End of day check should be within 6.8 pH units to 7.2 pH units.
- pH 4: +165 mV to +180 mV.
- pH 10: -165 mV to -180 mV.

Specific conductivity:
- Initial calibration to be undertaken using 1,413 µs/cm calibration solution. Post-calibration to be undertaken using 147 µs/cm calibration solution. Calibration and end of day check is acceptable if specific conductivity is between 120 µs/cm and 175 µs/cm post-calibration.

DO:
- Post-calibration value should be 100.0 % S (+/-0.5 % S).

Additional Calibration Comments

Verification and Calibration's conducted with Dirk Van Walt.

START WEEK 2 - PRE DEPLOYMENT VERIFICATION

SLR

Water Quality Meter Calibration Form	
Meter ID:	EXO2 - 14J102579
Staff Member:	Pamela Kane-Sanderson
Date:	12-May-2024
Time (NZST):	16:30
Monitoring Programme:	Bream Bay Water - McCallum Group - 820.030379.00001

3 Point pH Calibration				
Solution	Temperature (° C)	pH Value (pH)	~~pH Value (mV)~~	Acceptable
pH 7	16°C	7.15		(Y) / N
pH 4	16.1°C	4.16		(Y) / N

Specific Conductivity Calibration			
Solution	Temperature (° C)	Conductivity Value	Acceptable
1,413 µs/cm	16.29°C	1,411 µs/cm	~~N/A~~ Yes
~~147 µs/cm~~			~~Y / N~~

Dissolved Oxygen Calibration				
Post-Calibration	Temperature (° C)	DO (mg/L)	DO (% S)	Acceptable
DO	14.2°C	10.26	100 %	(Y) / N

(05.24) 08:33

ORP Calibration		
Calibration Value (mV)	264.1 mV	(standard bottle 15°-20°C = 265.8 - 258.1) ✓
Temperature (° C)	15.6°C	

Start of Day Checks			
Staff Member:		Time (NZST):	
Parameter	Value	Temperature (° C)	Acceptable
pH 7	7.15	16.0°C	(Y) / N
Specific Cond. (µs/cm)	1,411 µs/cm	16.29°C	(Y) / N
ORP (mV)	264.1 mV	15.6°C	~~N/A~~ Yes
Turbidity (FNU)	15.74°C / 0.01FNU - Deionised water	15.5°C / 125.3FNU - Formazin Standard (2.24)	(Y) / N
Chlorophyl-a	20.3CHRFU / 74.5 ug/L	9.7°C	(Y) / N

Guidance Notes
pH calibration is acceptable if pH in mV is within the following: - pH 7: 0 mV (+/- 50 mV). End of day check should be within 6.8 pH units to 7.2 pH units. - pH 4: +165 mV to +180 mV. - pH 10: -165 mV to -180 mV. Specific conductivity: - Initial calibration to be undertaken using 1,413 µs/cm calibration solution. Post-calibration to be undertaken using 147 µs/cm calibration solution. Calibration and end of day check is acceptable if specific conductivity is between 120 µs/cm and 175 µs/cm post-calibration. DO: - Post-calibration value should be 100.0 % S (+/-0.5 % S).

Additional Calibration Comments
All verified OK, no calibration needed.

END WEEK 2 - POST DEPLOYMENT VERIFICATION.

SLR

Water Quality Meter Calibration Form	
Meter ID:	EXO2-14J102579
Staff Member:	Pamela Kane-Sondessan
Date:	15 May 2024
Time (NZST):	12:00
Monitoring Programme:	Bream Bay Water - McCallum Crop 820-030379-0001

3 Point pH Calibration

Solution	Temperature (° C)	pH Value (pH)	~~pH Value (mV)~~	Acceptable
pH 7	18.124°C	7.14		(Y) / N
pH 4	18.540°C	4.11		(Y) / N

Specific Conductivity Calibration

Solution	Temperature (° C)	Conductivity Value	Acceptable
1,413 µs/cm	18.135°C	1398.8	~~N/A~~
~~147 µs/cm~~			(Y) / N

Dissolved Oxygen Calibration

Post-Calibration	Temperature (° C)	DO (mg/L)	DO (% S)	Acceptable
DO	20.3°C	9.09mg/L	100.3%	(Y) / N

13.5.24
13:15
(sea level)

ORP Calibration

Calibration Value (mV)	257
Temperature (° C)	18.648°C

End of Day Checks

Staff Member: | Time (NZST):

Parameter	Value	Temperature (° C)	Acceptable	
pH 7	7.14	18.124°C	(Y) / N	± 0.1 (7.03 @ 18°C)
Specific Cond. (µs/cm)	1398.8°C	18.135°C	(Y) / N	± 20
ORP (mV)	257	18.648°C	~~N/A~~ Yes	257.8 @ 18.5°C
Turbidity (FNU)	OFNU/18.8°C = Deionized water	123.27 / 18.99°C (124 standard)	Y / N	
Chlorophyl-a	23.51 RFU	6.254°C	(Y) / N	20.8 @ 8°C

Guidance Notes

pH calibration is acceptable if pH in mV is within the following:
- pH 7: 0 mV (+/- 50 mV). End of day check should be within 6.8 pH units to 7.2 pH units.
- pH 4: +165 mV to +180 mV.
- pH 10: -165 mV to -180 mV.

Specific conductivity:
- Initial calibration to be undertaken using 1,413 µs/cm calibration solution. Post-calibration to be undertaken using 147 µs/cm calibration solution. Calibration and end of day check is acceptable if specific conductivity is between 120 µs/cm and 175 µs/cm post-calibration.

DO:
- Post-calibration value should be 100.0 % S (+/-0.5 % S).

Additional Calibration Comments

All verified OK, no calibration needed.

START WEEK 3- PRE DEPLOYMENT VERIFICATION

SLR

Water Quality Meter Calibration Form	
Meter ID:	EXO2 - 14J102579
Staff Member:	Pamela Kane-Sanderson
Date:	21-May-2024
Time (NZST):	15:30
Monitoring Programme:	Bream Bay Water - McCallum Crop - 820.030379.00001

3 Point pH Calibration

Solution	Temperature (° C)	pH Value (pH)	pH Value (mV)	Acceptable
7.02 @ 20°C pH 7	18.79°C	7.17	-22.8	(Y) / N
pH 4	18.67°C	4.16	150.4	(Y) / N

Specific Conductivity Calibration

Solution	Temperature (° C)	Conductivity Value	Acceptable
1,413 µs/cm	19.15°C	1424	~~N/A~~ Yes
~~147 µs/cm~~			(Y) / N

Dissolved Oxygen Calibration

Post-Calibration	Temperature (° C)	DO (mg/L)	DO (% S)	Acceptable
DO	21.35°C	-	97.7%	(Y) N

local mmHg = 743.3mmHG = Handheld.

ORP Calibration

Calibration Value (mV) (257.1)	253.8
Temperature (° C) (19°C)	18.86°C

Start of Day Checks

Staff Member:		Time (NZST):	
Parameter	**Value**	**Temperature (° C)**	**Acceptable**
pH 7	7.17	18.79°C	(Y) / N
Specific Cond. (µs/cm)	1424	19.15°C	(Y) / N
ORP (mV)	253.8	18.86°C	~~N/A~~ Yes
Turbidity (FNU)	20.08°C / 0 FNU = deminerused water	19.02°C / Turbidity Standard (124) 122.1	(Y) / N ± 2%
Chlorophyl-a	17.66 (18°C = 17.6)	17.85°C	(Y) / N

Guidance Notes

pH calibration is acceptable if pH in mV is within the following:
- pH 7: 0 mV (+/- 50 mV). End of day check should be within 6.8 pH units to 7.2 pH units.
- pH 4: +165 mV to +180 mV.
- pH 10: -165 mV to -180 mV.

Specific conductivity:
- Initial calibration to be undertaken using 1,413 µs/cm calibration solution. Post-calibration to be undertaken using 147 µs/cm calibration solution. Calibration and end of day check is acceptable if specific conductivity is between 120 µs/cm and 175 µs/cm post-calibration.

DO:
- Post-calibration value should be 100.0 % S (+/-0.5 % S).

Additional Calibration Comments

Note: 000 % Sat: Raw DO reading corrected with temp and local barometric pressure at the time of calibration.
(local mmHg / 760mmHg) x 100 = % Sat
(743.3 / 760) x 100 = 97.8 % Sat ✓

→ All verified ok, no calibration needed.

Rev: 1.0
Date: 03 May 2024

END WEEK 3 - POST DEPLOYMENT VERIFICATION

SLR

Water Quality Meter Calibration Form	
Meter ID:	EXO2 - 14J102579
Staff Member:	~~Pamela Kane-Sanderson~~
Date:	23 May 2024
Time (NZST):	13:00
Monitoring Programme:	Beam Bay Water - McCallum Group - 820.030379.00001

3 Point pH Calibration

Solution	Temperature (° C)	pH Value (pH)	pH Value (mV)	Acceptable
(7.02 - 7.04 pH) pH 7	17.94°C	7.17 pH	-21.8 mV	(Y) / N
pH 4	18.01°C	4.17 pH	149.5 mV	(Y) / N

Specific Conductivity Calibration

Solution	Temperature (° C)	Conductivity Value	Acceptable
1,413 µs/cm	18.15°C	1418.8	~~N/A~~ Yes
~~147 µs/cm~~			~~Y / N~~

Dissolved Oxygen Calibration

Post-Calibration	Temperature (° C)	DO (mg/L)	DO (% S)	Acceptable
DO	19.58°C	8.76 mg/L	95.6% Sat	(Y) / N

see note.

ORP Calibration

Calibration Value (mV)	253
Temperature (° C)	18.09°C

End of Day Checks

Staff Member:		Time (NZST):	
Parameter	**Value**	**Temperature (° C)**	**Acceptable**
pH 7	7.17	17.94°C	(Y) / N
Specific Cond. (µs/cm)	1418.8	18.15°C	(Y) / N
ORP (mV)	253	18.09°C	N/A (258.5)
Turbidity (FNU)	17.69°C / -0.06 FNU = de mineralised water (0 FNU)	17.98°C / 122.0	Turbidity standard (124) (Y) / N ±2%
Chlorophyll-a	19.52 RFU	14.81°C	(Y) / N

±5%. (14°C = 18.9 RFU)

Guidance Notes

pH calibration is acceptable if pH in mV is within the following:
- pH 7: 0 mV (+/- 50 mV). End of day check should be within 6.8 pH units to 7.2 pH units.
- pH 4: +165 mV to +180 mV.
- pH 10: -165 mV to -180 mV.

Specific conductivity:
- Initial calibration to be undertaken using 1,413 µs/cm calibration solution. Post-calibration to be undertaken using 147 µs/cm calibration solution. Calibration and end of day check is acceptable if specific conductivity is between 120 µs/cm and 175 µs/cm post-calibration.

DO:
- Post-calibration value should be 100.0 % S (+/-0.5 % S).

Additional Calibration Comments

Note: DO % Sat = (local mmHg / 760 mmHg) x 100 = % Sat
(730.1 / 760) x 100 = 96% Sat ± 0.5% ✓

→ Potential to Calibrate pH next pre-verification.

Currently all verified ok, no calibration needed.

Rev: 1.0
Date: 03 May 2024

START WEEK 4 - PRE DEPLOYMENT VERIFICATION

SLR

Water Quality Meter Calibration Form	
Meter ID:	EXO2-14J102579
Staff Member:	Pamela Kane-Sanderson
Date:	26-May 2024
Time (NZST):	15:30
Monitoring Programme:	Bream Bay Water-McCallum Crap-820.030379.0001

3 Point pH Calibration

Solution	Temperature (° C)	pH Value (pH)	pH Value (mV)	Acceptable	
(15°C = 7.04) pH 7	16.6°C	7.05	-15.8mV	(Y) N	±0.1 pH
(15°C = 4.00) pH 4	17.4°C	~~4.00~~ 4.13	151.3mV	(Y) N	±0.1 pH

Specific Conductivity Calibration

Solution	Temperature (° C)	Conductivity Value	Acceptable	
1,413 µs/cm	17.52°C	1418.1	~~N/A~~ Yes	±20 µs/cm ✓
~~147 µs/cm~~			~~Y / N~~	

Dissolved Oxygen Calibration

Post-Calibration	Temperature (° C)	DO (mg/L)	DO (% S)	Acceptable	
DO	19.1°C	-	95.2%	(Y) N	±1% of air sat. ROV ✓

ORP Calibration

Calibration Value (mV)	259.8mV	257.8 mV	±20mV ✓
Temperature (° C)	(17°C)	17.00°C	

Start of Day Checks

Staff Member:		Time (NZST):	
Parameter	**Value**	**Temperature (° C)**	**Acceptable**
pH 7	7.05	16.6°C	(Y) / N
Specific Cond. (µs/cm)	1418.1 µs/cm	17.52°C	(Y) / N
ORP (mV)	257.8 mV	17.00°C	~~N/A~~ Yes
Turbidity (FNU)	16.96°C / 0.05 FNU demineralised water	16.85°C / 122.6 FNU	Turbidity by Standards (124) (Y) N ±2%
Chlorophyl-a	21.83 RFU	7.4°C (8°C = 20.8)	(Y) N ±5%

Guidance Notes

pH calibration is acceptable if pH in mV is within the following:
- pH 7: 0 mV (+/- 50 mV). End of day check should be within 6.8 pH units to 7.2 pH units.
- pH 4: +165 mV to +180 mV.
- pH 10: -165 mV to -180 mV.

Specific conductivity:
- Initial calibration to be undertaken using 1,413 µs/cm calibration solution. Post-calibration to be undertaken using 147 µs/cm calibration solution. Calibration and end of day check is acceptable if specific conductivity is between 120 µs/cm and 175 µs/cm post-calibration.

DO:
- Post-calibration value should be 100.0 % S (+/-0.5 % S).

Additional Calibration Comments

Note: DO% Sat = (local mmHg / 760 mmHg) x 100 = % Sat
(730.9 mmHg / 760 mmHg) x 100 = 96.2% ✓

-cleaned pH sensors as slightly high pH values post calibration. Sensor ok now.

→ All verified ok, no calibration needed.

Rev: 1.0
Date: 03 May 2024

END WEEK 4 - POST DEPLOYMENT VERIFICATION

SLR

Water Quality Meter Calibration Form	
Meter ID:	EXO2 - 14J102579
Staff Member:	Pamela Kane-Sanderson
Date:	28-May 2024
Time (NZST):	9:30
Monitoring Programme:	Bream Bay Water - McCallum Crap - 820.03079.0000

3 Point pH Calibration

Solution	Temperature (° C)	pH Value (pH)	pH Value (mV)	Acceptable
pH 7 (pH7@15C = 7.04)	15.76°C	7.26	-28.4	Y / (N) → Re-calibrated
pH 4	15.53°C	4.28	141.7	Y / (N) → Re-calibrated.

Specific Conductivity Calibration

Solution	Temperature (° C)	Conductivity Value	Acceptable
1,413 µs/cm	15.85°C	1413.8 µs/cm	~~N/A~~ Yes ±20 µs/cm ✓
~~147 µs/cm~~			~~Y / N~~

Dissolved Oxygen Calibration

Post-Calibration	Temperature (° C)	DO (mg/L)	DO (% S)	Acceptable
DO	16.03°C	9.37	~~96.4%~~ 95%	Y (N) → Re-calibrated

ORP Calibration

Calibration Value (mV)	(261.2)	255.5 ±20 mV ✓
Temperature (° C)	(16°C)	15.71°C

End of Day Checks

Staff Member:		Time (NZST):	
Parameter	**Value**	**Temperature (° C)**	**Acceptable**
pH 7	7.26	15.76°C	Y / (N) → calibrated.
Specific Cond. (µs/cm)	1413.8 µs/cm	15.85°C	(Y) / N
ORP (mV)	255.5	15.17°C	~~N/A~~ yes
Turbidity (FNU)	17.2°C / -0.11 FNU demineralised water = 0	16.26°C / 120.35 FNU turbidity standard (124)	Y (N) → calibrated
Chlorophyl-a	20.88	10.77°C (10°C = 20.2)	(Y) / N

Guidance Notes

pH calibration is acceptable if pH in mV is within the following:
- pH 7: 0 mV (+/- 50 mV). End of day check should be within 6.8 pH units to 7.2 pH units.
- pH 4: +165 mV to +180 mV.
- pH 10: -165 mV to -180 mV.

Specific conductivity:
- Initial calibration to be undertaken using 1,413 µs/cm calibration solution. Post-calibration to be undertaken using 147 µs/cm calibration solution. Calibration and end of day check is acceptable if specific conductivity is between 120 µs/cm and 175 µs/cm post-calibration.

DO:
- Post-calibration value should be 100.0 % S (+/-0.5 % S).

Additional Calibration Comments

Battery 76.6%.
DO % Sat = (local mmHg / 760 mmHg) x 100 = % Sat
(732.4 / 760 mmHg) x 100 = 96.4%

Rev: 1.0
Date: 03 May 2024

→ DO calibrated.
→ pH calibrated.
→ Turbidity Calibrated

} All other sensors verified ok. no calibration needed.

START WEEK 5 - PRE DEPLOYMENT VERIFICATION

SLR

Water Quality Meter Calibration Form

Meter ID: EXO2 - 14J102599
Staff Member: Pamela Kane-Sanderson
Date: 02 June 2024
Time (NZST): 19:00
Monitoring Programme: Bream Bay Water - McCallum Crop - 820.030379.0000

3 Point pH Calibration

Solution	Temperature (° C)	pH Value (pH)	pH Value (mV)	Acceptable
pH 7	18.45°C	7.02	-26.7mV	(Y) / N
pH 4	18.85°C	4.00	144.6mV	(Y) / N

(pH7 @ 20°C = 7.02)

Specific Conductivity Calibration

Solution	Temperature (° C)	Conductivity Value	Acceptable
1,413 µs/cm	18.05°C	1412.6 µS/cm	~~N/A~~ Yes
~~147 µs/cm~~			~~Y / N~~

± 20 µs/cm

Dissolved Oxygen Calibration

Post-Calibration	Temperature (° C)	DO (mg/L)	DO (% S)	Acceptable
DO	22.35°C	8.59 mg/L	98.7%	(Y) / N

±1% ✓

ORP Calibration

Calibration Value (mV) (257.1)	249.7 mV
Temperature (° C) (19°C)	18.81°C

±20 ✓

Start of Day Checks

Staff Member: Time (NZST):

Parameter	Value	Temperature (° C)	Acceptable
pH 7	7.02	18.45°C	(Y) / N
Specific Cond. (µs/cm)	1412.6 µs/cm	18.05°C	(Y) / N
ORP (mV)	249.7mV	18.81°C	~~N/A~~ Yes
Turbidity (FNU)	17.95°C / -0.03 demineralised water = 0 FNU	/ Turbidity standard (124)	Y / N
Chlorophyl-a	17.6 Rfu	15.4°C	(Y) / N

±5%

14 - 16°C (18.9 - 18.3)

Guidance Notes

pH calibration is acceptable if pH in mV is within the following:
- pH 7: 0 mV (+/- 50 mV). End of day check should be within 6.8 pH units to 7.2 pH units.
- pH 4: +165 mV to +180 mV.
- pH 10: -165 mV to -180 mV.

Specific conductivity:
- Initial calibration to be undertaken using 1,413 µs/cm calibration solution. Post-calibration to be undertaken using 147 µs/cm calibration solution. Calibration and end of day check is acceptable if specific conductivity is between 120 µs/cm and 175 µs/cm post-calibration.

DO:
- Post-calibration value should be 100.0 % S (+/-0.5 % S).

Additional Calibration Comments

Note: DO % Sat = (local mmHg / 760 mmHg) x 100 = % Sat
(743 / 760) x 100 = 97.9% Sat

Battery 76.1%

All sensors verified ok, no calibration needed.

Rev: 1.0
Date: 03 May 2024

END WEEK 5 - POST DEPLOYMENT VERIFICATION

SLR

Water Quality Meter Calibration Form

Meter ID: EXO2 - 14J102599
Staff Member: Pamela Kope-Sorderson
Date: 05 June 2024
Time (NZST): 10:15
Monitoring Programme: Bream Bay Water McCallum Group - 820.030379.0000)

3 Point pH Calibration

Solution	Temperature (° C)	pH Value (pH)	pH Value (mV)	Acceptable
pH 7 (pH 7 @ 15°C = 7.04)	16.63°C	7.06	-28.9 mV	(Y) / N
pH 4	16.59°C	4.05	139.6 mV	(Y) / N

±0.1 ✓

Specific Conductivity Calibration

Solution	Temperature (° C)	Conductivity Value	Acceptable
1,413 µs/cm	16.55°C	1409.3 µs/cm	N/A YES
~~147 µs/cm~~			~~Y / N~~

± 20 µs/cm ✓

Dissolved Oxygen Calibration

Post-Calibration	Temperature (° C)	DO (mg/L)	DO (% S)	Acceptable
DO	15.59°C	9.68 mg/L	97.3 %	(Y) / N

± 1% of 97.5 ✓

ORP Calibration

Calibration Value (mV)	(260.5 mV)	252.1 mV
Temperature (° C)	(16.5°C)	16.73°C

± 20 mV ✓

Start of Day Checks

Staff Member: Time (NZST):

Parameter	Value	Temperature (° C)	Acceptable
pH 7	7.06	16.63°C	(Y) / N
Specific Cond. (µs/cm)	1409.3 µs/cm	16.55°C	(Y) / N
ORP (mV)	252.1 mV	16.73°C	N/A
Turbidity (FNU)	0.0 FNU / 16.32°C = denumerical Notes = 0 FNU		(Y) / N
Chlorophyl-a	19.21	17.11 °C	(Y) / N

(16-18°C = 18.3-17.6?)

± 5 % potential calibration next verification

Guidance Notes

pH calibration is acceptable if pH in mV is within the following:
- pH 7: 0 mV (+/- 50 mV). End of day check should be within 6.8 pH units to 7.2 pH units.
- pH 4: +165 mV to +180 mV.
- pH 10: -165 mV to -180 mV.

Specific conductivity:
- Initial calibration to be undertaken using 1,413 µs/cm calibration solution. Post-calibration to be undertaken using 147 µs/cm calibration solution. Calibration and end of day check is acceptable if specific conductivity is between 120 µs/cm and 175 µs/cm post-calibration.

DO:
- Post-calibration value should be 100.0 % S (+/-0.5 % S).

Additional Calibration Comments

Note DO% Sat: (local mmHg / 760 mmHg) x 100 = % Sat.
(740.7/760) x 100 = 97.5% Sat

Battery 74.0%

All sensors verified ok, no calibration needed.

Rev: 1.0
Date: 03 May 2024

START WEEK 6 - PREDEPLOYMENT VERIFICATION

SLR

Water Quality Meter Calibration Form

Meter ID: EXO2 - 14J102599
Staff Member: Pamela Kane-Sanderson
Date: 11 June 2024
Time (NZST): 1945
Monitoring Programme: Bream Bay Water Mccallum Crop - 820.030379.00001

3 Point pH Calibration

Solution	Temperature (° C)	pH Value (pH)	pH Value (mV)	Acceptable
pH 7	17.45°C	7.06	-30.0 mV	(Y) / N
pH 4	17.43 °C	4.03	141.3 mV	(Y) / N

±0.1 ✓

Specific Conductivity Calibration

Solution	Temperature (° C)	Conductivity Value	Acceptable
1,413 µs/cm	17.40°C	1410.7 µs/cm	~~N/A~~ Yes
~~147 µs/cm~~			~~Y / N~~

± 20 µs/cm ✓

Dissolved Oxygen Calibration

Post-Calibration	Temperature (° C)	DO (mg/L)	DO (% S)	Acceptable
DO	17.34 °C	9.21 mg/L	96.1%	(Y) / N

±1%

ORP Calibration

Calibration Value (mV)	(259.1mV)	250.0 mV
Temperature (° C)	(17.5°C)	17.51°C

±20 ✓

Start of Day Checks

Staff Member:		Time (NZST):	
Parameter	**Value**	**Temperature (° C)**	**Acceptable**
pH 7	7.06	17.45°C	(Y) / N
Specific Cond. (µs/cm)	1410.7 µs/cm	17.40°C	(Y) / N
ORP (mV)	250.0 mV	17.51°C	~~N/A~~ Yes
Turbidity (FNU)	0.00 FNU / 17.18°C = demineralised water or FNU	123.45 FNU / 17.69°C 124 Turbidity standard	(Y) / N
Chlorophyl-a	20.01 RFU	12.44 °C	(Y) / N

✓ ± 2%

12°C = 19.5 RFU

±5% ✓

Guidance Notes

pH calibration is acceptable if pH in mV is within the following:
- pH 7: 0 mV (+/- 50 mV). End of day check should be within 6.8 pH units to 7.2 pH units.
- pH 4: +165 mV to +180 mV.
- pH 10: -165 mV to -180 mV.

Specific conductivity:
- Initial calibration to be undertaken using 1,413 µs/cm calibration solution. Post-calibration to be undertaken using 147 µs/cm calibration solution. Calibration and end of day check is acceptable if specific conductivity is between 120 µs/cm and 175 µs/cm post-calibration.

DO:
- Post-calibration value should be 100.0 % S (+/-0.5 % S).

Additional Calibration Comments

Note: DO% Sat = (local mmHg / 760 mmHg) x 100 = % Sat
(733.7 / 760) x 100 = 96.5%
Battery = 67.3%
All sensors verified ok, no calibration needed

Rev: 1.0
Date: 03 May 2024

END-WEEK 6 - POST DEPLOYMENT VERIFICATION

SLR

Water Quality Meter Calibration Form	
Meter ID:	EXO2 - 14J102599
Staff Member:	Pamela Kane-Sondeisen
Date:	13 June 2024
Time (NZST):	20:30
Monitoring Programme:	Bream Bay Water McCallum Grp - 820.030379.00001

3 Point pH Calibration

Solution	Temperature (° C)	pH Value (pH)	pH Value (mV)	Acceptable	
pH 7	16.94	7.02	-26.8 mV	(Y) / N	±0.1 ✓
pH 4	17.01 °C	4.00	142.9 mV	(Y) / N	

15°C = 7.06
25°C = 7.02

Specific Conductivity Calibration

Solution	Temperature (° C)	Conductivity Value	Acceptable	
1,413 µs/cm	16.62°C	1417 µS	~~N/A~~ Yes	±20 µs/cm ✓
~~147 µs/cm~~	~~ABANDONED~~		~~Y / N~~	

Dissolved Oxygen Calibration

Post-Calibration	Temperature (° C)	DO (mg/L)	DO (% S)	Acceptable	
DO	17.39°C	9.13	95.3%	(Y) / N	±1% ✓

ORP Calibration

Calibration Value (mV)	(259.8)	253.8 mV
Temperature (° C)	(17°C)	16.96°C

±20 ✓

End of Day Checks

Staff Member:		Time (NZST):		
Parameter	**Value**	**Temperature (° C)**	**Acceptable**	
pH 7	7.02	16.94°C	(Y) / N	
Specific Cond. (µs/cm)	1417.5 µs/cm	16.62°C	(Y) / N	
ORP (mV)	253.8 mV	16.96°C	~~N/A~~ Yes	
Turbidity (FNU)	0.01 FNU / 16.52°C	Deminzed water = 0 FNU	123.67 / 16.62°C	Turbidity standard 124	(Y) / N	±2% ✓
Chlorophyl-a	18.83 (14°C = 18.9)		14.81°C	(Y) / N	±5%

Guidance Notes

pH calibration is acceptable if pH in mV is within the following:
- pH 7: 0 mV (+/- 50 mV). End of day check should be within 6.8 pH units to 7.2 pH units.
- pH 4: +165 mV to +180 mV.
- pH 10: -165 mV to -180 mV.

Specific conductivity:
- Initial calibration to be undertaken using 1,413 µs/cm calibration solution. Post-calibration to be undertaken using 147 µs/cm calibration solution. Calibration and end of day check is acceptable if specific conductivity is between 120 µs/cm and 175 µs/cm post-calibration.

DO:
- Post-calibration value should be 100.0 % S (+/-0.5 % S).

Additional Calibration Comments

Note: DO % Sat = (local mmHg / 760 mmHg) x 100 = % Sat
(727.4/760) x 100 = 95.7% Sat

Battery = 71.4%

All sensors verified ok, no calibration needed.

Rev: 1.0
Date: 03 May 2024

START WEEK 7 – PREDEPLOYMENT VERIFICATION

SLR

Water Quality Meter Calibration Form	
Meter ID:	EXO2 - 14J102599
Staff Member:	Pamela Kane-Sanderson
Date:	16 June 2024
Time (NZST):	20:00
Monitoring Programme:	Beam Bay Water McCallum Crap - 820-030379.00001

3 Point pH Calibration

Solution	Temperature (° C)	pH Value (pH)	pH Value (mV)	Acceptable	
pH 7 (15°C = 7.04)	16.83°C	7.05	-28.3 mV	(Y) / N	±0.1 ✓
pH 4	17.28°C	3.98	144.8mV	(Y) / N	

Specific Conductivity Calibration

Solution	Temperature (° C)	Conductivity Value	Acceptable	
1,413 µs/cm	16.60	1415.4	~~N/A~~ ~~Yes~~	±20 µs/cm ✓
~~147 µs/cm~~			~~Y / N~~	

Dissolved Oxygen Calibration

Post-Calibration	Temperature (° C)	DO (mg/L)	DO (% S)	Acceptable	
DO	19.29°C	8.78	95.2% S	(Y) / N	±1% ✓

ORP Calibration

Calibration Value (mV)	(259.1mV)	252.5 mV
Temperature (° C)	(~~19.86°~~ 17.5)	17.37°C

±20 ✓

Start of Day Checks

Staff Member:		Time (NZST):	
Parameter	**Value**	**Temperature (° C)**	**Acceptable**
pH 7	7.05	16.83°C	(Y) / N
Specific Cond. (µs/cm)	1415.4 µs/cm	16.60°C	(Y) / N
ORP (mV)	252.5mV	17.37°C	N/A
Turbidity (FNU)	0.07 / 16.65°C Demineralised water	122.77 / 17.24°C Turbidity Standard (124)	(Y) / N
Chlorophyl-a	17.77RFU (16°C = 18.3)	15.37°C	(Y) / N

±2% ✓

Guidance Notes

pH calibration is acceptable if pH in mV is within the following:
- pH 7: 0 mV (+/- 50 mV). End of day check should be within 6.8 pH units to 7.2 pH units.
- pH 4: +165 mV to +180 mV.
- pH 10: -165 mV to -180 mV.

Specific conductivity:
- Initial calibration to be undertaken using 1,413 µs/cm calibration solution. Post-calibration to be undertaken using 147 µs/cm calibration solution. Calibration and end of day check is acceptable if specific conductivity is between 120 µs/cm and 175 µs/cm post-calibration.

DO:
- Post-calibration value should be 100.0 % S (+/-0.5 % S).

Additional Calibration Comments

Note: DO% Sat = (local mmHg / 760mmHg) x 100 = % Sat
(728.9/760) x 100 = 95.9%

Battery 65.0%

All sensors verified ok, no calibration needed

END WEEK 7 - POST DEPLOYMENT VERIFICATION.

SLR

Water Quality Meter Calibration Form	
Meter ID:	EX02 - 14J102599
Staff Member:	Pamela Kane-Sanderson
Date:	19 June 2024
Time (NZST):	10:00
Monitoring Programme:	Bream Bay Water McCallum Group - 820-030379-00001

3 Point pH Calibration

Solution	Temperature (° C)	pH Value (pH)	pH Value (mV)	Acceptable
pH 7 (15°C = 7.04)	17.27°C	7.08	-30.2mV	(Y) N
pH 4	17.34°C	4.02	142.3mV	(Y) N

±0.1 ✓

Specific Conductivity Calibration

Solution	Temperature (° C)	Conductivity Value	Acceptable
1,413 µs/cm	17.20°C	1410.8	~~N/A~~ Yes
~~147 µs/cm~~			~~Y / N~~

± 20 µs/cm ✓

Dissolved Oxygen Calibration

Post-Calibration	Temperature (° C)	DO (mg/L)	DO (% S)	Acceptable
DO	17.33°C	9.26	96.5%	(Y) N

±1% ✓

ORP Calibration

Calibration Value (mV) (258.5)	250.9	±20 ✓
Temperature (° C) (18°C)	17.94°C	

End of Day Checks

Staff Member:		Time (NZST):	
Parameter	Value	Temperature (° C)	Acceptable
pH 7	7.08	17.27°C	(Y) N
Specific Cond. (µs/cm)	1410.8	17.20°C	(Y) N
ORP (mV)	250.9	17.94 °C	~~N/A~~ Yes
Turbidity (FNU)	0.10 FNU / 16.96°C (demineralised water = 0 FNU)	122.35 / 17.23°C (Turbidity standard 124)	(Y) N
Chlorophyl-a	18.8 RFU (14°C = 18.9)	14.02°C	(Y) N

± 2% ✓

± 5% ✓

Guidance Notes

pH calibration is acceptable if pH in mV is within the following:
- pH 7: 0 mV (+/- 50 mV). End of day check should be within 6.8 pH units to 7.2 pH units.
- pH 4: +165 mV to +180 mV.
- pH 10: -165 mV to -180 mV.

Specific conductivity:
- Initial calibration to be undertaken using 1,413 µs/cm calibration solution. Post-calibration to be undertaken using 147 µs/cm calibration solution. Calibration and end of day check is acceptable if specific conductivity is between 120 µs/cm and 175 µs/cm post-calibration.

DO:
- Post-calibration value should be 100.0 % S (+/-0.5 % S).

Additional Calibration Comments

Note: DO% Sat = (local mmHg / 760 mmHg) x 100 = % Sat

(734.1/760) x 100 = 96.6%

Battery 65.4%

All sensors verified ok, no calibration needed.

...LER 8 - PREDEPLOYMENT VERIFICATION

SLR

Water Quality Meter Calibration Form	
Meter ID:	EXO2 - 14J102599
Staff Member:	Pamela Kane-Sandesara
Date:	23 June 2024
Time (NZST):	1930
Monitoring Programme:	Beam Bay Water McCallum Gap - 820-030379-00001

3 Point pH Calibration

Solution	Temperature (° C)	pH Value (pH)	pH Value (mV)	Acceptable	
pH 7	16.14°C	7.05	-28.9mV	(Y) N	±0.1 ✓
pH 4	16.45°C	4.02	141.5 mV	(Y) N	

(15°C = 7.04)

Specific Conductivity Calibration

Solution	Temperature (° C)	Conductivity Value	Acceptable	
1,413 µs/cm	16.30°C	1411.6	~~N/A~~ Yes	±20 µs/cm ✓
~~147 µs/cm~~			~~Y / N~~	

Dissolved Oxygen Calibration

Post-Calibration	Temperature (° C)	DO (mg/L)	DO (% S)	Acceptable	
DO	17.80°C	9.38mg/L	98.8% S	(Y) N	±1% ✓

(99.2%)

ORP Calibration

Calibration Value (mV)	260.5	253.8mV
Temperature (° C)	(16.5°C)	16.60°C

±20mV ✓

End of Day Checks

Staff Member:		Time (NZST):		
Parameter	Value	Temperature (° C)	Acceptable	
pH 7	7.05	16.14 °C	(Y) N	
Specific Cond. (µs/cm)	1411.6 µs/cm	16.30°C	(Y) N	
ORP (mV)	253.8mV	16.60°C	~~N/A~~ Yes	
Turbidity (FNU)	0.15 / 17.30°C demineralised water 0 ANU	122.05 / 16.26°C	Turbidity standard 124. (Y) N	±2% ✓
Chlorophyl-a	17.8 RFU	17.30°C	(Y) N	±5% ✓

(16-18°C = 18.3 - 17.6)

Guidance Notes

pH calibration is acceptable if pH in mV is within the following:
- pH 7: 0 mV (+/- 50 mV). End of day check should be within 6.8 pH units to 7.2 pH units.
- pH 4: +165 mV to +180 mV.
- pH 10: -165 mV to -180 mV.

Specific conductivity:
- Initial calibration to be undertaken using 1,413 µs/cm calibration solution. Post-calibration to be undertaken using 147 µs/cm calibration solution. Calibration and end of day check is acceptable if specific conductivity is between 120 µs/cm and 175 µs/cm post-calibration.

DO:
- Post-calibration value should be 100.0 % S (+/-0.5 % S).

Additional Calibration Comments

Note: DO% Sat = (local mmHg / 760 mmHg) x 100 = % Sat
(754.1 mmHg / 760 mmHg) x 100 = 99.2%

Battery = 82.1%

All sensors verified ok, no calibration needed.

Rev: 1.0
Date: 03 May 2024

END WEEK 8 - POST DEPLOYMENT VERIFICATION

SLR

Water Quality Meter Calibration Form

Meter ID:	EXO2 - 14J102599
Staff Member:	Pamela Kane-sanderson
Date:	24 June 2024
Time (NZST):	20:00
Monitoring Programme:	Bream Bay Water McCallum Crap-820.030379.00001

3 Point pH Calibration

Solution	Temperature (° C)	pH Value (pH)	pH Value (mV)	Acceptable	
pH 7 (15°C=7.0)	16.87°C	7.06	-28.7mV	(Y) N	±0.1 ✓
pH 4	17.05°C	4.00	143.2mV	(Y) N	

Specific Conductivity Calibration

Solution	Temperature (° C)	Conductivity Value	Acceptable	
1,413 µs/cm	17.42°C	1407.0	~~N/A~~ Yes	±20 µs/cm ✓
~~147 µs/cm~~			~~Y / N~~	

Dissolved Oxygen Calibration

Post-Calibration	Temperature (° C)	DO (mg/L)	DO (% S)	Acceptable	
DO	18.78°C	9.20mg/L	98.8 %	(Y) / N	±1% ✓

ORP Calibration

Calibration Value (mV)	(259.8mV)	253.3 mV	±20mV ✓
Temperature (° C)	(17°C)	17.01°C	

End of Day Checks

Staff Member:		Time (NZST):	
Parameter	Value	Temperature (° C)	Acceptable
pH 7	7.06	16.87°C	(Y) N
Specific Cond. (µs/cm)	1407.0	17.42°C	(Y) N
ORP (mV)	253.3mV	17.01°C	~~N/A~~ Yes
Turbidity (FNU) (24 standard)	120.48	16.95°C	Y / (N) → calibrate.
Chlorophyl-a	18103 RFU	17.57°C	(Y) N

(16-18°C) = (18.3-17.6 RFU)

Guidance Notes

pH calibration is acceptable if pH in mV is within the following:
- pH 7: 0 mV (+/- 50 mV). End of day check should be within 6.8 pH units to 7.2 pH units.
- pH 4: +165 mV to +180 mV.
- pH 10: -165 mV to -180 mV.

Specific conductivity:
- Initial calibration to be undertaken using 1,413 µs/cm calibration solution. Post-calibration to be undertaken using 147 µs/cm calibration solution. Calibration and end of day check is acceptable if specific conductivity is between 120 µs/cm and 175 µs/cm post-calibration.

DO:
- Post-calibration value should be 100.0 % S (+/-0.5 % S).

Additional Calibration Comments

Note: DO% Sat (local mm Hg / 760 mm Hg) x 100 = % Sat Battery 63.9%
(753.7/760) x 100 = 99.2 %

All sensors verified ok, except turbidity where calibration needed.

Rev: 1.0
Date: 03 May 2024

Appendix C Field Sheets

Te Ākau Bream Bay Sand Extraction

Water Quality Assessment of Environmental Effects

McCallum Group

SLR Project No.: 820.030379.00001

17 December 2025

Bream Bay Monitoring Field Sheet

Date:	6 May 2024 Departed Marsden Point Ramp: 10:00		
In Attendance:	Pamela Kane-Sanderson (Tim – Skipper, Chris Garton – Client, Holly – iwi)		

SITE DETAILS			
Site Name:	Application Area 1 (A1) Application Area 2 (A2) Reference Area 1 (R1)	**Collection:**	2 sites – Van Dorn Grabs 3 sites – EXO2 sonde profile
Time on site	11:00		

FIELD DETAILS	
Weather conditions (circle)	Sunny and overcast <0.5 m swell
Wind intensity (circle) / direction	Light Approximate wind direction: South East
Visual effects (circle & describe) (at downstream site resulting from outlet discharge)	NO: Conspicuous turbidity / litter / oil or grease films / visible scums / foams / floatable or suspended materials / objectional odour. Describe any adverse visual effects (if applicable): None Clear blue water, few small jelly's / salps on surface Visibility 10+ metres vertical
Photographs taken	☒ Yes – on file
Any additional HSE concerns?	No
Any other field observations?	Australian gannet Little penguin Petrel (possibly common diving petrel) Seen in vicinity.
Field sheet archived	☒ Archived

Site	Sonde Start time	Sonde Stop Time	Van Dorn Grab sample time
Site 1: Application Area 1 Depth 25m	**13:05**	**13:07**	**Not applicable**
Site 2 Application Area 2 (A2) **Depth 25m**	**12:23**	**12:24**	**Surface (S): 12:32** **Mid (M):12:36 (12.5m)** **Bottom (B):12:40 (25m)**
Site 3: Reference Area 1 (R1) **Depth 22m**	**11:34** **11:47** **11:57**	**11:38** **11:49** **11:59**	**Surface (S): 11:08** **Mid (M): 11:13 (12.5m)** **Bottom (B):11:20 (22m)**

Note:

1. At R1, ended up doing 3 Sonde drops, as thought the Sonde wasn't recording, but it actually was, x 3 scans on file.

2. Field note times for Sonde drops are recorded slightly differently, as my watch was out by a few minutes. These Sonde drop times are based off the recorded Sonde data.

3. Locations have been entered onto boats GPS system:

Reference 1: S35°59.675' E174°35.212'

Application Area 2: S35°57.412' E174°32.683'

Application Area 1: S35°55.933' E174°31.720'

Bream Bay Monitoring Field Sheet

Date:	13 May 2024
In Attendance:	Pamela Kane-Sanderson and Robbie McCallum

SITE DETAILS			
Site Name:	Application Area 1 (A1) Application Area 2 (A2) Reference Area 1 (R1)	**Collection:**	2 sites – Van Dorn Grabs 3 sites – EXO2 sonde profile
Time on site			

FIELD DETAILS	
Weather conditions (circle)	Clear, scattered cloud, sunny
Wind intensity (circle) / direction	Light. Approximate wind direction: NW/W 10knots
Visual effects (circle & describe) (at downstream site resulting from outlet discharge)	NO: Conspicuous turbidity / litter / oil or grease films / visible scums / foams / floatable or suspended materials / objectional odour. Describe any adverse visual effects (if applicable): None Clear blue water Visibility 10+ metres vertical
Photographs taken	☒ Yes ☒ Archived?
Any additional HSE concerns?	No
Any other field observations?	Australian gannet Southern Black Back Gulls Petrel (possibly common diving petrel) 3 x Bottlenose dolphins Seen in vicinity.
Field sheet archived	☒ Archived

Site	Sonde Start time	Sonde Stop Time	Van Dorn Grab sample time
Site 1: Application Area 1 Depth 27.6m	**11.40**	**11.44**	**Not applicable**
Site 2 Application Area 2 (A2) **Depth 27.1m**	**11.15**	**11.20**	**Surface (S): 10.48** **Mid (M):10.55 (14m)** **Bottom (B):11.02 (26m)**
Site 3: Reference Area 1 (R1) **Depth 26.3m**	**10.20**	**10.25**	**Surface (S): 9.50** **Mid (M): 9.58 (13m)** **Bottom (B):10.10 (26m)**

Bream Bay Monitoring Field Sheet

Date:	22 May 2024
In Attendance:	Pamela Kane-Sanderson and Gavin + 1 other (McCallum Brother employees)

SITE DETAILS			
Site Name:	Application Area 1 (A1) Application Area 2 (A2) Reference Area 1 (R1)	**Collection:**	2 sites – Van Dorn Grabs 3 sites – EXO2 sonde profile
Time on site			

FIELD DETAILS	
Weather conditions (circle)	Clear, sunny
Wind intensity (circle) / direction	12knots, gusting 20knots. Approximate wind direction: SW
Visual effects (circle & describe) (at downstream site resulting from outlet discharge)	NO: Conspicuous turbidity / litter / oil or grease films / visible scums / foams / floatable or suspended materials / objectional odour. Describe any adverse visual effects (if applicable): None Clear blue water Visibility 7+ metres vertical
Photographs taken	☒ No ☐ Archived?
Any additional HSE concerns?	Quite a lot of wind chop and therefore to get to sight was very bumpy, so we travelled via the coast for a smoother ride. Got a little seasick during this field work, client called Friday (24 May 2024), to suggest I take sea legs. After refuelling one of the petrol takes from a spare jerry can, clients boat skipper lite a cigarette, I told him to go up the front of the boat.
Any other field observations?	Australian gannet Southern Black Back Gulls
Field sheet archived	☒ Archived

Site	Sonde Start time	Sonde Stop Time	Van Dorn Grab sample time
Site 1: Application Area 1 Depth 26m	**11.42**	**11.48**	**Not applicable**
Site 2 Application Area 2 (A2) **Depth 25m**	**11.02**	**11.06**	**Surface (S): 11.15** **Mid (M):11.18 (12.5m)** **Bottom (B):11.24 (25m)**
Site 3: Reference Area 1 (R1) **Depth 25m**	**10.33**	**10.39**	**Surface (S): 10.15** **Mid (M): 10.19 (12.5m)** **Bottom (B):10.23 (25m)**

Bream Bay Monitoring Field Sheet

Date:	27 May 2024
In Attendance:	Pamela Kane-Sanderson, Robbie McCallum

SITE DETAILS			
Site Name:	Application Area 1 (A1) Application Area 2 (A2) Reference Area 1 (R1)	**Collection:**	2 sites – Van Dorn Grabs 3 sites – EXO2 sonde profile
Time on site			

FIELD DETAILS	
Weather conditions (circle)	Sunny, partly cloudy
Wind intensity (circle) / direction	moderate 10-15knots, gusting to 20knots, Approximate wind direction: SW Swell height – 0.3 m NE
Visual effects (circle & describe) (at downstream site resulting from outlet discharge)	NO: Conspicuous turbidity / litter / oil or grease films / visible scums / foams / floatable or suspended materials / objectional odour. Describe any adverse visual effects (if applicable): None Clear blue water Visibility 13+ metres vertical
Photographs taken	☒ No ☐ Archived?
Any additional HSE concerns?	Wind picked up at last location A1, due to the slow lowering of the Sonde, it got caught around the prop (rope not cut or effected), however we had to lean over boat to dislodge rope from motor. All ok, just to be aware of rope on descend and that skipper moves boat to adjust for rope drift. Sonde most likely needs to be lowered a bit faster in high winds for first few metres to get past surface currents. Boats GPS system was playing up, not a H & S concern as such, but had to use Field Maps to check locations required.
Any other field observations?	Australian gannets, in two big flocks sitting/resting on the water.
Field sheet archived	☒ Archived

Site	Sonde Start time	Sonde Stop Time	Van Dorn Grab sample time
Site 1: Application Area 1 25 m (approx.)	**12:09** **(Not first attempt of deployment did not work, due to rope entanglement with motor)**	**12:13**	**Not applicable**
Site 2 Application Area 2 (A2) – 25 m	**11:03**	**11:10**	**Surface (S): 11:21** **Mid (M): 11:26 (13 m)** **Bottom (B): 11:32 (25 m)**
Site 3: Reference Area 1 (R1) – 26m	**10:26**	**10:33**	**Surface (S): 10:06** **Mid (M): 10.11 (13 m)** **Bottom (B): 10:17 (26 m)**

Bream Bay Monitoring Field Sheet

Date:	4 June 2024
In Attendance:	Daniel Ahern, Gavin

SITE DETAILS			
Site Name:	Application Area 1 (A1) Application Area 2 (A2) Reference Area 1 (R1)	**Collection:**	2 sites – Van Dorn Grabs 3 sites – EXO2 sonde profile
Time on site			

FIELD DETAILS	
Weather conditions (circle)	Partly cloudy turning overcast.
Wind intensity (circle) / direction	Moderate 8-12knots Approximate wind direction: E
Visual effects (circle & describe) (at downstream site resulting from outlet discharge)	NO: Conspicuous turbidity / litter / oil or grease films / visible scums / foams / floatable or suspended materials / change in colour or visual clarity / objectional odour. Describe any adverse visual effects (if applicable): None Clear conditions. Visibility: Approx 12m
Photographs taken	☒ No ☐ Archived?
Any additional HSE concerns?	With wind opposing the tide leaving the harbour was slow and challenging. Something to consider when planning future trips. Boats GPS system was playing up. Had to use Field Maps to check locations required.
Any other field observations?	Australasian gannets resting on the water early morning and foraging late morning. Pod of dolphins observed at A2 from a distance. Small pod. Identified species.
Field sheet archived	☒ Archived

Site	Sonde Start time	Sonde Stop Time	Van Dorn Grab sample time
Site 1: Application Area 1	**11:27**	**11:34**	**Not applicable**
Site 2 Application Area 2 (A2)	**11:05**	**11:12**	**Surface (S): 10:45** **Mid (M): 10:51 (13 m)** **Bottom (B): 10:58 (24 m)**
Site 3: Reference Area 1 (R1)	**10:19**	**10:26**	**Surface (S): 09:56** **Mid (M): 10:02 (12 m)** **Bottom (B): 10:08 (22 m)**

Bream Bay Monitoring Field Sheet

Date:	12 June 2024
In Attendance:	Pamela Kane-Sanderson, Gavin

SITE DETAILS			
Site Name:	Application Area 1 (A1) Application Area 2 (A2) Reference Area 1 (R1)	**Collection:**	2 sites – Van Dorn Grabs 3 sites – EXO2 sonde profile
Time on site			

FIELD DETAILS	
Weather conditions (circle)	Mainly fine, with scattered cloud
Wind intensity (circle) / direction	15knots and easing to 5 knots Approximate wind direction: SW
Visual effects (circle & describe) (at downstream site resulting from outlet discharge)	NO: Conspicuous turbidity / litter / oil or grease films / visible scums / foams / floatable or suspended materials / change in colour or visual clarity / objectional odour. Describe any adverse visual effects (if applicable): None Clear conditions, however water appeared slightly greener than usual. Visibility: Approx 10m
Photographs taken	☐ No ☒ Archived
Any additional HSE concerns?	None
Any other field observations?	Large flock (100+) of Australasian gannets resting on the water early morning and foraging late morning.
Field sheet archived	☒ Archived

Site	Sonde Start time	Sonde Stop Time	Van Dorn Grab sample time
Site 1: Application Area 1	**10:58**	**11:08**	**Not applicable**
Site 2 Application Area 2 (A2)	**10:25**	**10:33**	**Surface (S): 10:40** **Mid (M): 10:43 (13 m)** **Bottom (B): 10:48 (24 m)**
Site 3: Reference Area 1 (R1)	**10:04**	**10:09**	**Surface (S): 09:39** **Mid (M): 09:44 (13 m)** **Bottom (B): 09:48 (24 m)**

Bream Bay Monitoring Field Sheet

Date:	17 June 2024
In Attendance:	Pamela Kane-Sanderson, Gavin

SITE DETAILS			
Site Name:	Application Area 1 (A1) Application Area 2 (A2) Reference Area 1 (R1)	**Collection:**	2 sites – Van Dorn Grabs 3 sites – EXO2 sonde profile
Time on site			

FIELD DETAILS	
Weather conditions (circle)	Mainly fine, with scattered cloud
Wind intensity (circle) / direction	7knots and easing, gusts to 13knots Approximate wind direction: NW NE Swell 0.7m
Visual effects (circle & describe) (at downstream site resulting from outlet discharge)	NO: Conspicuous turbidity / litter / oil or grease films / visible scums / foams / floatable or suspended materials / change in colour or visual clarity / objectional odour. Describe any adverse visual effects (if applicable): None Clear conditions Visibility: Approx 10m
Photographs taken	☒ No ☐ Archived
Any additional HSE concerns?	None
Any other field observations?	Individual Australasian gannets resting on the water. A few shearwaters flying about. There was a large swell perhaps up to 1m at times, therefore Sonde didn't reach bottom depths (approx. 20ish metres).
Field sheet archived	☒ Archived

Site	Sonde Start time	Sonde Stop Time	Van Dorn Grab sample time
Site 1: Application Area 1	**11:17**	**11:25**	**Not applicable**
Site 2 Application Area 2 (A2)	**10:40**	**10:49**	**Surface (S): 10:55** **Mid (M): 11:00 (13 m)** **Bottom (B): 11:05 (25 m)**
Site 3: Reference Area 1 (R1)	**10:10**	**10:17**	**Surface (S): 09:54** **Mid (M): 09:58 (13 m)** **Bottom (B): 10:03 (25 m)**

Bream Bay Monitoring Field Sheet

Date:	24 June 2024
In Attendance:	Pamela Kane-Sanderson, Gavin, Shane and Chris

SITE DETAILS			
Site Name:	Application Area 1 (A1) Application Area 2 (A2) Reference Area 1 (R1)	**Collection:**	2 sites – Van Dorn Grabs 3 sites – EXO2 sonde profile
Time on site			

FIELD DETAILS	
Weather conditions (circle)	Mainly fine, with scattered cloud
Wind intensity (circle) / direction	1 knot and easing, gusts to 3knots Approximate wind direction: SW E Swell 0.8m
Visual effects (circle & describe) (at downstream site resulting from outlet discharge)	NO: Conspicuous turbidity / litter / oil or grease films / visible scums / foams / floatable or suspended materials / change in colour or visual clarity / objectional odour. Describe any adverse visual effects (if applicable): None Clear conditions Visibility: Approx 15m
Photographs taken	☐ No ☒ Archived
Any additional HSE concerns?	None
Any other field observations?	Australasian gannets resting on the water, flying and diving for food. Shearwaters Little Blue Penguins
Field sheet archived	☒ Archived

Site	Sonde Start time	Sonde Stop Time	Van Dorn Grab sample time
Site 1: Application Area 1	**11:08**	**11:17**	**Not applicable**
Site 2 Application Area 2 (A2)	**10:32**	**10:41**	**Surface (S): 10:48** **Mid (M): 10:52 (13 m)** **Bottom (B): 10:57 (26 m)**
Site 3: Reference Area 1 (R1)	**10:06**	**10:15**	**Surface (S): 09:51** **Mid (M): 09:55 (13 m)** **Bottom (B): 10:00 (25 m)**

Appendix D Laboratory Chain of Custody records

Te Ākau Bream Bay Sand Extraction

Water Quality Assessment of Environmental Effects

McCallum Group

SLR Project No.: 820.030379.00001

17 December 2025

Hill Labs

ANALYSIS REQUEST

R J Hill Laboratories Limited [redacted]

[redacted]

www.hill-labs.co.nz

Job No: **357 3489**

Date Recv: 08-May-24 06:23

Received by: Gabriel Hazard

3135734891

9.6

Quote No 130421

Primary Contact Claire Conwell 293821

Submitted By ~~Claire Conwell~~ Pamela Kane-Sanderson 293821

Client Name SLR Holdings NZ Limited 281331

Address [redacted]

Phone [redacted] *Mobile* [redacted]

Email [redacted]

Charge To SLR Holdings NZ Limited 281331

Client Reference 820.030379.00001

Order No

Results To *Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.*

☑ Email Primary Contact ☑ Email Submitter ☐ Email Client

☐ Email Other

☐ Other

Dates of testing are not routinely included in the Certificates of Analysis. Please inform the laboratory if you would like this information reported.

ADDITIONAL INFORMATION / KNOWN HAZARDS

CHAIN OF CUSTODY RECORD

Sent to Hill Labs

Date & Time: 6/5/24 15:00

Name: Pamela Kane-Sanderson

Signature: [redacted]

☑ *Tick if you require COC to be emailed back*

Received at Hill Labs

Date & Time:

Name:

Signature:

Condition ☐ Room Temp ☐ Chilled ☐ Frozen *Temp:*

☐ Sample & Analysis details checked

Signature:

Priority ☐ Low ☐ Normal ☑ High

☐ **Urgent** (ASAP, extra charge applies, please contact lab first)

NOTE: The estimated turnaround time for the types and number of samples and analyses specified on this quote is by 4:30 pm, 5 working days following the day of receipt of the samples at the laboratory.

Requested Reporting Date:

Quoted Sample Types

Saline (Sal)

No.	Sample Name	Sample Date/Time	Sample Type	Tests Required
1	R1-surface (S)	6/5/24 11:08am	Sal	As per quote No# 130421
2	R1-mid (M)	6/5/24 11:13am	Sal	" "
3	R1-botton-(B)	6/5/24 11:20am	Sal	" "
4	A2-surface (S)	6/5/24 12:32	Sal	" "
5	A2-mid (M)	6/5/24 12:36	Sal	" "
6	A2-botton (B)	6/5/24 12:40	Sal	" "
7				
8				
9				
10				

R J Hill Laboratories Limited
[redacted]
www.hill-labs.co.nz

Job Information Summary

Client:	SLR Holdings NZ Limited	**Lab No:**	3573489
Contact:	Claire Conwell [redacted]	**Date Registered:**	08-May-2024 12:53 pm
		Priority:	High
		Quote No:	130421
		Order No:	
		Client Reference:	820.030379.00001
		Add. Client Ref:	
		Submitted By:	Pamela Kane-Sanderson
		Charge To:	SLR Holdings NZ Limited
		Target Date:	15-May-2024 4:30 pm

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	R1-Surface (S) 06-May-2024 11:08 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
2	R1-Mid (M) 06-May-2024 11:13 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
3	R1-Bottom (B) 06-May-2024 11:20 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
4	A2-Surface (S) 06-May-2024 12:32 pm	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
5	A2-Mid (M) 06-May-2024 12:36 pm	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
6	A2-Bottom (B) 06-May-2024 12:40 pm	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Filtration, Unpreserved	Sample filtration through 0.45µm membrane filter.	-	1-6
Turbidity	Analysis by Turbidity meter. APHA 2130 B (modified) : Online Edition.	0.05 NTU	1-6
pH	Saline water, pH meter. APHA 4500-H^+ B (modified) : Online Edition. Note: It is not possible to achieve the APHA Maximum Storage Recommendation for this test (15 min) when samples are analysed upon receipt at the laboratory, and not in the field. Samples and Standards are analysed at an equivalent laboratory temperature (typically 18 to 22 °C). Temperature compensation is used.	0.1 pH Units	1-6
Electrical Conductivity (EC)	Saline water, Conductivity meter, 25°C. APHA 2510 B : Online Edition.	0.10 mS/m	1-6
Salinity	Conductivity Meter (WTW Cond 340i with nonlinear temperature compensation according to EN 27 888). APHA 2520 B : Online Edition.	0.2	1-6

Sample Type: Saline			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Total Suspended Solids	Saline sample. Filtration using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) : Online Edition.	3 g/m^3	1-6
Total Nitrogen	Calculation: TKN + Nitrate-N + Nitrite-N. Please note: The Default Detection Limit of 0.05 g/m^3 is only attainable when the TKN has been determined using a trace method utilising duplicate analyses. In cases where the Detection Limit for TKN is 0.10 g/m^3, the Default Detection Limit for Total Nitrogen will be 0.11 g/m^3. In-house calculation.	0.05 g/m^3	1-6
Total Ammoniacal-N	Saline sample. Phenol/hypochlorite colorimetry. Flow injection analyser. (NH_4-N = NH_4^+-N + NH_3-N). APHA 4500-NH_3 H : Online Edition.	0.005 g/m^3	1-6
Nitrate-N + Nitrite-N	Saline sample. Total oxidised nitrogen. Automated cadmium reduction, Flow injection analyser. APHA 4500-NO_3^- I (modified) : Online Edition.	0.0010 g/m^3	1-6
Total Kjeldahl Nitrogen (TKN)	Total Kjeldahl digestion, phenol/hypochlorite colorimetry. Discrete Analyser. APHA 4500-N_{org} D (modified) 4500 NH_3 F (modified) : Online Edition.	0.10 g/m^3	1-6
Dissolved Reactive Phosphorus	Saline sample. Molybdenum blue colorimetry. Flow injection analyser. APHA 4500-P G : Online Edition.	0.0010 g/m^3	1-6
Total Phosphorus	Total phosphorus digestion, ascorbic acid colorimetry. Flow Injection Analyser. APHA 4500-P H (modified) : Online Edition.	0.004 g/m^3	1-6
Chlorophyll a	Acetone extraction. Spectroscopy. APHA 10200 H (modified) : Online Edition.	0.003 g/m^3	1-6

Hill Labs

ANALYSIS REQUEST

R J Hill Laboratories Limited [redacted]

Job No: **357 9775**

Date Recv: 14-May-24 06:30

[redacted]

www.hill-labs.co.nz

Received by: David Manson

3135797755

Quote No 130421

Primary Contact Claire Conwell 293821

Submitted By ~~Claire Conwell~~ Pamela Kane-Sanderson ~~293821~~

Client Name SLR Holdings NZ Limited 281331

Address [redacted]

Phone [redacted] *Mobile* [redacted]

Email [redacted]

Charge To SLR Holdings NZ Limited 281331

Client Reference 820.030379.00001

Order No

Results To *Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.*

☑ Email Primary Contact ☑ Email Submitter ☐ Email Client

☐ Email Other

☐ Other

Dates of testing are not routinely included in the Certificates of Analysis. Please inform the laboratory if you would like this information reported

CHAIN OF CUSTODY RECORD

Sent to Hill Labs

Date & Time: 13/5/24 15:00

Name: Pamela Kane-Sanderson

☐ *Tick if you require COC to be emailed back*

Signatur [redacted]

Received at Hill Labs

Date & Time:

Name:

Signature:

Condition ☐ *Room Temp* ☐ *Chilled* ☐ *Frozen* *Temp:* 6°5

☐ Sample & Analysis details checked

Signature:

ADDITIONAL INFORMATION / KNOWN HAZARDS

Priority ☐ Low ☐ Normal ☑ High

☐ **Urgent** (ASAP, extra charge applies, please contact lab first)

NOTE: The estimated turnaround time for the types and number of samples and analyses specified on this quote is by 4:30 pm, 5 working days following the day of receipt of the samples at the laboratory.

Requested Reporting Date:

Quoted Sample Types

Saline (Sal)

No.	Sample Name	Sample Date/Time	Sample Type	Tests Required
1	R1 - Surface (S)	13/5/24 9:50	Sal	As per quote No# 130421
2	R1 - Mid (M)	13/5/24 9:58	Sal	" "
3	R1 - Botlam (B)	13/5/24 10:10	Sal	" "
4	A2 - Surface (S)	13/5/24 10:48	Sal	" "
5	A2 - Mid (M)	13/5/24 10:55	Sal	" "
6	A2 - Botlam (B)	13/5/24 11:02	Sal	" "
7				
8				
9				
10				

R J Hill Laboratories Limited
[redacted]
www.hill-labs.co.nz

Job Information Summary

Client:	SLR Holdings NZ Limited	**Lab No:**	3579775
Contact:	Claire Conwell [redacted]	**Date Registered:**	14-May-2024 8:35 am
		Priority:	High
		Quote No:	130421
		Order No:	
		Client Reference:	820.030379.00001
		Add. Client Ref:	
		Submitted By:	Pamela Kane-Sanderson
		Charge To:	SLR Holdings NZ Limited
		Target Date:	21-May-2024 4:30 pm

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	R1 - Surface (S) 13-May-2024 9:50 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
2	R1 - Mid (M) 13-May-2024 9:58 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
3	R1 - Bottom (B) 13-May-2024 10:10 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
4	A2 - Surface (S) 13-May-2024 10:48 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
5	A2 - Mid (M) 13-May-2024 10:55 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
6	A2 - Bottom (B) 13-May-2024 11:02 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Filtration, Unpreserved	Sample filtration through 0.45µm membrane filter.	-	1-6
Turbidity	Analysis by Turbidity meter. APHA 2130 B (modified) : Online Edition.	0.05 NTU	1-6
pH	Saline water, pH meter. APHA 4500-H^+ B (modified) : Online Edition. Note: It is not possible to achieve the APHA Maximum Storage Recommendation for this test (15 min) when samples are analysed upon receipt at the laboratory, and not in the field. Samples and Standards are analysed at an equivalent laboratory temperature (typically 18 to 22 °C). Temperature compensation is used.	0.1 pH Units	1-6
Electrical Conductivity (EC)	Saline water, Conductivity meter, 25°C. APHA 2510 B : Online Edition.	0.10 mS/m	1-6
Salinity	Conductivity Meter (WTW Cond 340i with nonlinear temperature compensation according to EN 27 888). APHA 2520 B : Online Edition.	0.2	1-6

Sample Type: Saline			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Total Suspended Solids	Saline sample. Filtration using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) : Online Edition.	3 g/m^3	1-6
Total Nitrogen	Calculation: TKN + Nitrate-N + Nitrite-N. Please note: The Default Detection Limit of 0.05 g/m^3 is only attainable when the TKN has been determined using a trace method utilising duplicate analyses. In cases where the Detection Limit for TKN is 0.10 g/m^3, the Default Detection Limit for Total Nitrogen will be 0.11 g/m^3. In-house calculation.	0.05 g/m^3	1-6
Total Ammoniacal-N	Saline sample. Phenol/hypochlorite colorimetry. Flow injection analyser. (NH_4-N = NH_4^+-N + NH_3-N). APHA 4500-NH_3 H : Online Edition.	0.005 g/m^3	1-6
Nitrate-N + Nitrite-N	Saline sample. Total oxidised nitrogen. Automated cadmium reduction, Flow injection analyser. APHA 4500-NO_3^- I (modified) : Online Edition.	0.0010 g/m^3	1-6
Total Kjeldahl Nitrogen (TKN)	Total Kjeldahl digestion, phenol/hypochlorite colorimetry. Discrete Analyser. APHA 4500-N_{org} D (modified) 4500 NH_3 F (modified) : Online Edition.	0.10 g/m^3	1-6
Dissolved Reactive Phosphorus	Saline sample. Molybdenum blue colorimetry. Flow injection analyser. APHA 4500-P G : Online Edition.	0.0010 g/m^3	1-6
Total Phosphorus	Total phosphorus digestion, ascorbic acid colorimetry. Flow Injection Analyser. APHA 4500-P H (modified) : Online Edition.	0.004 g/m^3	1-6
Chlorophyll a	Acetone extraction. Spectroscopy. APHA 10200 H (modified) : Online Edition.	0.003 g/m^3	1-6

Hill Labs

ANALYSIS REQUEST

R J Hill Laboratories Limited [redacted]

Job No: **358 9092**

Date Recv: 23-May-24 07:04

Received by: Gabriel Hazard

[redacted]

www.hill-labs.co.nz

3135890927

Quote No 130421

Primary Contact Claire Conwell 293821

Submitted By ~~Claire Conwell~~ Pamela Kane-Sanderson 293821

Client Name SLR Holdings NZ Limited 281331

Address [redacted]

Phone [redacted] *Mobile* [redacted]

Email [redacted]

Charge To SLR Holdings NZ Limited 281331

Client Reference 820.030379.00001

Order No

Results To *Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.*

☑ Email Primary Contact ☑ Email Submitter ☐ Email Client

☐ Email Other

☐ Other

Dates of testing are not routinely included in the Certificates of Analysis. Please inform the laboratory if you would like this information reported.

ADDITIONAL INFORMATION / KNOWN HAZARDS

CHAIN OF CUSTODY RECORD

Sent to Hill Labs

Date & Time: 22/05/24 14:00

☑ *Tick if you require COC to be emailed back*

Name: Pamela Kane-Sanderson

Signature [redacted]

Received at Hill Labs

Date & Time:

Name:

Signature:

Condition ☐ Room Temp ☐ Chilled ☐ Frozen

Temp: 6.9

☐ Sample & Analysis details checked

Signature:

Priority ☐ Low ☐ Normal ☑ High

☐ **Urgent** (ASAP, extra charge applies, please contact lab first)

NOTE: The estimated turnaround time for the types and number of samples and analyses specified on this quote is by 4:30 pm, 5 working days following the day of receipt of the samples at the laboratory.

Requested Reporting Date:

Quoted Sample Types

Saline (Sal)

No.	Sample Name	Sample Date/Time	Sample Type	Tests Required
1	R1 - Surface (S)	22/05/24 10:15	Sal	As per quote No# 130421
2	R1 - Mid (M)	22/05/24 10:19	Sal	" "
3	R1 - Botham (B)	22/05/24 10:23	Sal	" "
4	A2 - Surface (S)	22/05/24 11:15	Sal	" "
5	A2 - Mid (M)	22/05/24 11:18	Sal	" "
6	A2 - Botham (B)	22/05/24 11:24	Sal	" "
7				
8				
9				
10				

R J Hill Laboratories Limited
[redacted]
www.hill-labs.co.nz

Job Information Summary

Client:	SLR Holdings NZ Limited	**Lab No:**	3589092
Contact:	Claire Conwell [redacted]	**Date Registered:**	23-May-2024 11:44 am
		Priority:	High
		Quote No:	130421
		Order No:	
		Client Reference:	820.030379.00001
		Add. Client Ref:	
		Submitted By:	Pamela Kane-Sanderson
		Charge To:	SLR Holdings NZ Limited
		Target Date:	30-May-2024 4:30 pm

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	R1 - Surface (S) 22-May-2024 10:15 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
2	R1 - Mid (M) 22-May-2024 10:19 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
3	R1 - Bottom (B) 22-May-2024 10:23 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
4	A2 - Surface (S) 22-May-2024 11:15 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
5	A2 - Mid (M) 22-May-2024 11:18 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
6	A2 - Bottom (B) 22-May-2024 11:24 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Filtration, Unpreserved	Sample filtration through 0.45µm membrane filter.	-	1-6
Turbidity	Analysis by Turbidity meter. APHA 2130 B (modified) : Online Edition.	0.05 NTU	1-6
pH	Saline water, pH meter. APHA 4500-H^+ B (modified) : Online Edition. Note: It is not possible to achieve the APHA Maximum Storage Recommendation for this test (15 min) when samples are analysed upon receipt at the laboratory, and not in the field. Samples and Standards are analysed at an equivalent laboratory temperature (typically 18 to 22 °C). Temperature compensation is used.	0.1 pH Units	1-6
Electrical Conductivity (EC)	Saline water, Conductivity meter, 25°C. APHA 2510 B : Online Edition.	0.10 mS/m	1-6
Salinity	Conductivity Meter (WTW Cond 340i with nonlinear temperature compensation according to EN 27 888). APHA 2520 B : Online Edition.	0.2	1-6

Sample Type: Saline			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Total Suspended Solids	Saline sample. Filtration using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) : Online Edition.	3 g/m^3	1-6
Total Nitrogen	Calculation: TKN + Nitrate-N + Nitrite-N. Please note: The Default Detection Limit of 0.05 g/m^3 is only attainable when the TKN has been determined using a trace method utilising duplicate analyses. In cases where the Detection Limit for TKN is 0.10 g/m^3, the Default Detection Limit for Total Nitrogen will be 0.11 g/m^3. In-house calculation.	0.05 g/m^3	1-6
Total Ammoniacal-N	Saline sample. Phenol/hypochlorite colorimetry. Flow injection analyser. (NH_4-N = NH_4^+-N + NH_3-N). APHA 4500-NH_3 H : Online Edition.	0.005 g/m^3	1-6
Nitrate-N + Nitrite-N	Saline sample. Total oxidised nitrogen. Automated cadmium reduction, Flow injection analyser. APHA 4500-NO_3^- I (modified) : Online Edition.	0.0010 g/m^3	1-6
Total Kjeldahl Nitrogen (TKN)	Total Kjeldahl digestion, phenol/hypochlorite colorimetry. Discrete Analyser. APHA 4500-N_{org} D (modified) 4500 NH_3 F (modified) : Online Edition.	0.10 g/m^3	1-6
Dissolved Reactive Phosphorus	Saline sample. Molybdenum blue colorimetry. Flow injection analyser. APHA 4500-P G : Online Edition.	0.0010 g/m^3	1-6
Total Phosphorus	Total phosphorus digestion, ascorbic acid colorimetry. Flow Injection Analyser. APHA 4500-P H (modified) : Online Edition.	0.004 g/m^3	1-6
Chlorophyll a	Acetone extraction. Spectroscopy. APHA 10200 H (modified) : Online Edition.	0.003 g/m^3	1-6

Hill Labs

ANALYSIS REQUEST

Job No: 359 2988 Date Recv: 28-May-24 06:24

R J Hill Laboratories Limited [redacted]

Received by: Nathaniel Sue

[redacted]

3135929883

www.hill-labs.co.nz

Quote No 130421

Primary Contact Claire Conwell 293821

Submitted By ~~Claire Conwell~~ Pamela Kane-Sanderson ~~293821~~

Client Name SLR Holdings NZ Limited 281331

Address [redacted]

Phone [redacted] *Mobile* [redacted]

Email [redacted]

Charge To SLR Holdings NZ Limited 281331

Client Reference 820.030379.00001

Order No

Results To *Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.*

☑ *Email Primary Contact* ☑ *Email Submitter* ☐ *Email Client*

☐ *Email Other*

☐ *Other*

Dates of testing are not routinely included in the Certificates of Analysis. Please inform the laboratory if you would like this information reported.

CHAIN OF CUSTODY RECORD

Sent to Hill Labs

Date & Time: 27/5/24 14 30

☑ *Tick if you require COC to be emailed back*

Name: Pamela Kane-Sanderson

Signatur [redacted]

Received at Hill Labs

Date & T

Name:

Signature:

Condition ☐ *Room Temp* ☐ *Chilled* ☐ *Frozen*

Temp: 8.6

☐ **Sample & Analysis details checked**

Signature:

ADDITIONAL INFORMATION / KNOWN HAZARDS

Priority ☐ **Low** ☐ **Normal** ☑ **High**

☐ **Urgent** (ASAP, extra charge applies, please contact lab first)

NOTE: The estimated turnaround time for the types and number of samples and analyses specified on this quote is by 4:30 pm, 5 working days following the day of receipt of the samples at the laboratory.

Requested Reporting Date:

Quoted Sample Types

Saline (Sal)

No.	Sample Name	Sample Date/Time	Sample Type	Tests Required
1	R1 - Surface (S)	27/5/24 10:06	Sal	As per quote No# 130421
2	R1 - Mid (M)	27/5/24 10:11	Sal	" "
3	R1 - Botlam (B)	27/5/24 10.17	Sal	" "
4	A2 - Surface (S)	27/5/24 11:21	Sal	" "
5	A2 - Mid (M)	27/5/24 11:26	Sal	" "
6	A2 - Bottom (B)	27/5/24 11:32	Sal	" "
7				
8				
9				
10				

Hill Labs

ANALYSIS REQUEST

R J Hill Laboratories Limited
[redacted]
[redacted]
www.hill-labs.co.nz

Office use only
(Job No)

Quote No 130421

Primary Contact Claire Conwell 293821

Submitted By Claire Conwell 293821

Client Name SLR Holdings NZ Limited 281331

Address [redacted]

Phone [redacted] *Mobile*

Email

Charge To SLR Holdings NZ Limited 281331

Client Reference

Order No

Results To *Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.*

☐ *Email Primary Contact* ☐ *Email Submitter* ☐ *Email Client*
☐ *Email Other*
☐ *Other*

Dates of testing are not routinely included in the Certificates of Analysis. Please inform the laboratory if you would like this information reported.

ADDITIONAL INFORMATION / KNOWN HAZARDS

CHAIN OF CUSTODY RECORD

Sent to Hill Labs
Date & Time:
☐ *Tick if you require COC to be emailed back*
Name:
Signature:

Received at Hill Labs
Date & Time:
Name:
Signature:

Condition ☐ *Room Temp* ☐ *Chilled* ☐ *Frozen* *Temp:*

☐ Sample & Analysis details checked
Signature:

Priority ☐ **Low** ☐ **Normal** ☑ **High**
☐ **Urgent** (ASAP, extra charge applies, please contact lab first)

NOTE: The estimated turnaround time for the types and number of samples and analyses specified on this quote is by 4:30 pm, 5 working days following the day of receipt of the samples at the laboratory.

Requested Reporting Date:

Quoted Sample Types

Saline (Sal)

No.	Sample Name	Sample Date/Time	Sample Type	Tests Required
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

R J Hill Laboratories Limited
[redacted]
www.hill-labs.co.nz

Job Information Summary

Client:	SLR Holdings NZ Limited	**Lab No:**	3592988
Contact:	Claire Conwell	**Date Registered:**	28-May-2024 12:06 pm
	[redacted]	**Priority:**	High
		Quote No:	130421
		Order No:	
		Client Reference:	820.030379.00001
		Add. Client Ref:	
		Submitted By:	Pamela Kane-Sanderson
		Charge To:	SLR Holdings NZ Limited
		Target Date:	05-Jun-2024 4:30 pm

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	R1 - Surface (S) 27-May-2024 10:06 am	Saline	Chlora, UP1L, S100	Chlorophyll a, Salinity, Total Suspended Solids, Total Nitrogen, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
2	R1 - Mid (M) 27-May-2024 10:11 am	Saline	Chlora, UP1L, S100	Chlorophyll a, Salinity, Total Suspended Solids, Total Nitrogen, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
3	R1 - Bottom (B) 27-May-2024 10:17 am	Saline	Chlora, UP1L, S100	Chlorophyll a, Salinity, Total Suspended Solids, Total Nitrogen, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
4	A2 - Surface (S) 27-May-2024 11:21 am	Saline	Chlora, UP1L, S100	Chlorophyll a, Salinity, Total Suspended Solids, Total Nitrogen, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
5	A2 - Mid (M) 27-May-2024 11:26 am	Saline	Chlora, UP1L, S100	Chlorophyll a, Salinity, Total Suspended Solids, Total Nitrogen, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
6	A2 - Bottom (B) 27-May-2024 11:32 am	Saline	Chlora, UP1L, S100	Chlorophyll a, Salinity, Total Suspended Solids, Total Nitrogen, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Filtration, Unpreserved	Sample filtration through 0.45µm membrane filter.	-	1-6
Turbidity	Analysis by Turbidity meter. APHA 2130 B (modified) : Online Edition.	0.05 NTU	1-6
pH	Saline water, pH meter. APHA 4500-H^+ B (modified) : Online Edition. Note: It is not possible to achieve the APHA Maximum Storage Recommendation for this test (15 min) when samples are analysed upon receipt at the laboratory, and not in the field. Samples and Standards are analysed at an equivalent laboratory temperature (typically 18 to 22 °C). Temperature compensation is used.	0.1 pH Units	1-6
Electrical Conductivity (EC)	Saline water, Conductivity meter, 25°C. APHA 2510 B : Online Edition.	0.10 mS/m	1-6
Salinity	Conductivity Meter (WTW Cond 340i with nonlinear temperature compensation according to EN 27 888). APHA 2520 B : Online Edition.	0.2	1-6

Sample Type: Saline			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Total Suspended Solids	Saline sample. Filtration using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) : Online Edition.	3 g/m^3	1-6
Total Nitrogen	Calculation: TKN + Nitrate-N + Nitrite-N. Please note: The Default Detection Limit of 0.05 g/m^3 is only attainable when the TKN has been determined using a trace method utilising duplicate analyses. In cases where the Detection Limit for TKN is 0.10 g/m^3, the Default Detection Limit for Total Nitrogen will be 0.11 g/m^3. In-house calculation.	0.05 g/m^3	1-6
Total Ammoniacal-N	Saline sample. Phenol/hypochlorite colorimetry. Flow injection analyser. (NH_4-N = NH_4^+-N + NH_3-N). APHA 4500-NH_3 H : Online Edition.	0.005 g/m^3	1-6
Nitrate-N + Nitrite-N	Saline sample. Total oxidised nitrogen. Automated cadmium reduction, Flow injection analyser. APHA 4500-NO_3^- I (modified) : Online Edition.	0.0010 g/m^3	1-6
Total Kjeldahl Nitrogen (TKN)	Total Kjeldahl digestion, phenol/hypochlorite colorimetry. Discrete Analyser. APHA 4500-N_{org} D (modified) 4500 NH_3 F (modified) : Online Edition.	0.10 g/m^3	1-6
Dissolved Reactive Phosphorus	Saline sample. Molybdenum blue colorimetry. Flow injection analyser. APHA 4500-P G : Online Edition.	0.0010 g/m^3	1-6
Total Phosphorus	Total phosphorus digestion, ascorbic acid colorimetry. Flow Injection Analyser. APHA 4500-P H (modified) : Online Edition.	0.004 g/m^3	1-6
Chlorophyll a	Acetone extraction. Spectroscopy. APHA 10200 H (modified) : Online Edition.	0.003 g/m^3	1-6

Hill Labs

ANALYSIS REQUEST

R J Hill Laboratories Limited
[redacted]
[redacted]
www.hill-labs.co.nz

Job No: 359 8753
Date Recv: 04-Jun-24 16:57
Received by: Sanaya Hansotia
3135987531

Quote No	130421	
Primary Contact	Claire Conwell	293821
Submitted By	Claire Conwell	293821
Client Name	SLR Holdings NZ Limited	281331
Address	95 Customhouse Quay	
Phone	[redacted] *Mobile*	
Email	[redacted]	
Charge To	SLR Holdings NZ Limited	281331
Client Reference	SLR.030379	
Additional Client Ref		
Order No		

Results To *Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.*

☑ *Email Primary Contact* ☑ *Email Submitter* ☐ *Email Client*

☐ *Email Other* _____

☐ *Other* _____

Dates of testing are not routinely included in the Certificates of Analysis. Please inform the laboratory if you would like this information reported.

CHAIN OF CUSTODY RECORD

Sent to Hill Labs
Date & Time: 4/6/24
Name: Daniel Ahern
Signature: [redacted]
☐ *Tick if you require COC to be emailed back*

Received at Hill Labs
Date & Time:
Name:
Signature:

Condition ☐ *Room Temp* ☐ *Chilled* ☐ *Frozen*
Temp: 13.6

☐ Sample & Analysis details checked
Signature:

ADDITIONAL INFORMATION / KNOWN HAZARDS

Priority ☐ **Low** ☐ **Normal** ☑ **High**
☐ **Urgent** (ASAP, *extra charge applies, please contact lab first*)

Requested Reporting Date: _____

Quoted Sample Types

Saline (Sal)

No.	Sample Name	Sample Date/Time	Sample Type	Tests Required
1	R1-S	0957	Sal	As per quote.
2	" - Mid	1002	"	"
3	" - B	1008	"	"
4	AZ-S	1045	"	"
5	" - Mid	1051	"	"
6	" - B	1058	"	"
7				
8				

R J Hill Laboratories Limited
[redacted]
www.hill-labs.co.nz

Job Information Summary

Client:	SLR Holdings NZ Limited	**Lab No:**	3598753
Contact:	Claire Conwell	**Date Registered:**	05-Jun-2024 10:56 am
	[redacted]	**Priority:**	High
		Quote No:	130421
		Order No:	
		Client Reference:	520.030379
		Add. Client Ref:	
		Submitted By:	Daniel Ahern
		Charge To:	SLR Holdings NZ Limited
		Target Date:	12-Jun-2024 4:30 pm

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	R1 - S 04-Jun-2024 9:57 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
2	R1 - Mid 04-Jun-2024 10:02 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
3	R1 - B 04-Jun-2024 10:08 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
4	A2 - S 04-Jun-2024 10:45 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
5	A2 - Mid 04-Jun-2024 10:51 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
6	A2 - B 04-Jun-2024 10:58 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Filtration, Unpreserved	Sample filtration through 0.45µm membrane filter.	-	1-6
Turbidity	Analysis by Turbidity meter. APHA 2130 B (modified) : Online Edition.	0.05 NTU	1-6
pH	Saline water, pH meter. APHA 4500-H^+ B (modified) : Online Edition. Note: It is not possible to achieve the APHA Maximum Storage Recommendation for this test (15 min) when samples are analysed upon receipt at the laboratory, and not in the field. Samples and Standards are analysed at an equivalent laboratory temperature (typically 18 to 22 °C). Temperature compensation is used.	0.1 pH Units	1-6
Electrical Conductivity (EC)	Saline water, Conductivity meter, 25°C. APHA 2510 B : Online Edition.	0.10 mS/m	1-6
Salinity	Conductivity Meter (WTW Cond 340i with nonlinear temperature compensation according to EN 27 888). APHA 2520 B : Online Edition.	0.2	1-6

Sample Type: Saline			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Total Suspended Solids	Saline sample. Filtration using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) : Online Edition.	3 g/m^3	1-6
Total Nitrogen	Calculation: TKN + Nitrate-N + Nitrite-N. Please note: The Default Detection Limit of 0.05 g/m^3 is only attainable when the TKN has been determined using a trace method utilising duplicate analyses. In cases where the Detection Limit for TKN is 0.10 g/m^3, the Default Detection Limit for Total Nitrogen will be 0.11 g/m^3. In-house calculation.	0.05 g/m^3	1-6
Total Ammoniacal-N	Saline sample. Phenol/hypochlorite colorimetry. Flow injection analyser. (NH_4-N = NH_4^+-N + NH_3-N). APHA 4500-NH_3 H : Online Edition.	0.005 g/m^3	1-6
Nitrate-N + Nitrite-N	Saline sample. Total oxidised nitrogen. Automated cadmium reduction, Flow injection analyser. APHA 4500-NO_3^- I (modified) : Online Edition.	0.0010 g/m^3	1-6
Total Kjeldahl Nitrogen (TKN)	Total Kjeldahl digestion, phenol/hypochlorite colorimetry. Discrete Analyser. APHA 4500-N_{org} D (modified) 4500 NH_3 F (modified) : Online Edition.	0.10 g/m^3	1-6
Dissolved Reactive Phosphorus	Saline sample. Molybdenum blue colorimetry. Flow injection analyser. APHA 4500-P G : Online Edition.	0.0010 g/m^3	1-6
Total Phosphorus	Total phosphorus digestion, ascorbic acid colorimetry. Flow Injection Analyser. APHA 4500-P H (modified) : Online Edition.	0.004 g/m^3	1-6
Chlorophyll a	Acetone extraction. Spectroscopy. APHA 10150 B (modified) : Online Edition.	0.003 g/m^3	1-6

Hill Labs

ANALYSIS REQUEST

R J Hill Laboratories Limited Job No: 360 5170 Date Recv: 13-Jun-24 06:29

[redacted]

Received by: Gabriel Hazard

3136051703

www.hill-labs.co.nz

Quote No	130421	
Primary Contact	Claire Conwell	293821
Submitted By	~~Claire Conwell~~ Pamela Kare-Sanderson	293821
Client Name	SLR Holdings NZ Limited	281331
Address	[redacted]	
Phone	[redacted] *Mobile* [redacted]	
Email	[redacted]	
Charge To	SLR Holdings NZ Limited	281331
Client Reference	820:030379:00001	
Additional Client Ref		
Order No		

Results To *Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.*

☑ *Email Primary Contact* ☑ *Email Submitter* ☐ *Email Client*

☐ *Email Other*

☐ *Other*

Dates of testing are not routinely included in the Certificates of Analysis. Please inform the laboratory if you would like this information reported.

CHAIN OF CUSTODY RECORD

Sent to Hill Labs

Date & Time: 12/6/24 13:30

Name: Pamela Kare-Sanderson

☑ *Tick if you require COC to be emailed back*

Signatu [redacted]

Received at Hill Labs

Date & Time:

Name:

Signature:

Condition ☐ *Room Temp* ☐ *Chilled* ☐ *Frozen* *Temp:* 9.5

☐ Sample & Analysis details checked

Signature:

Priority ☐ Low ☐ Normal ☑ High

☐ **Urgent** (ASAP, *extra charge applies, please contact lab first*)

Requested Reporting Date:

ADDITIONAL INFORMATION / KNOWN HAZARDS

Quoted Sample Types

Saline (Sal)

No.	Sample Name	Sample Date/Time	Sample Type	Tests Required
1	R1-Surface(S)	12/6/24 0939	Sal	As per quote Nott 130421
2	R1-Mid (M)	12/6/24 0944	Sal	" "
3	R1-Bottom (B)	12/6/24 0948	Sal	" "
4	A2-Surface(S)	12/6/24 10:40	Sal	" "
5	A2-Mid (M)	12/6/24 1043	Sal	" "
6	A2-Bottom(B)	12/6/24 1048	Sal	" "
7				
8				

R J Hill Laboratories Limited
[redacted]
www.hill-labs.co.nz

Job Information Summary

Client:	SLR Holdings NZ Limited	**Lab No:**	3605170
Contact:	Claire Conwell	**Date Registered:**	13-Jun-2024 11:25 am
	[redacted]	**Priority:**	High
		Quote No:	130421
		Order No:	
		Client Reference:	8201030379.00001
		Add. Client Ref:	
		Submitted By:	Pamela Kane-Sanderson
		Charge To:	SLR Holdings NZ Limited
		Target Date:	20-Jun-2024 4:30 pm

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	R1-Surface (s) 12-Jun-2024 9:39 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
2	R1-Mid (M) 12-Jun-2024 9:44 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
3	R1-Bottom (B) 12-Jun-2024 9:48 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
4	A2-Surface (S) 12-Jun-2024 10:40 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
5	A2-Mid (M) 12-Jun-2024 10:43 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
6	A3-Bottom (B) 12-Jun-2024 10:48 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Filtration, Unpreserved	Sample filtration through 0.45µm membrane filter.	-	1-6
Turbidity	Analysis by Turbidity meter. APHA 2130 B (modified) : Online Edition.	0.05 NTU	1-6
pH	Saline water, pH meter. APHA 4500-H^+ B (modified) : Online Edition. Note: It is not possible to achieve the APHA Maximum Storage Recommendation for this test (15 min) when samples are analysed upon receipt at the laboratory, and not in the field. Samples and Standards are analysed at an equivalent laboratory temperature (typically 18 to 22 °C). Temperature compensation is used.	0.1 pH Units	1-6
Electrical Conductivity (EC)	Saline water, Conductivity meter, 25°C. APHA 2510 B : Online Edition.	0.10 mS/m	1-6
Salinity	Conductivity Meter (WTW Cond 340i with nonlinear temperature compensation according to EN 27 888). APHA 2520 B : Online Edition.	0.2	1-6

Sample Type: Saline			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Total Suspended Solids	Saline sample. Filtration using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) : Online Edition.	3 g/m^3	1-6
Total Nitrogen	Calculation: TKN + Nitrate-N + Nitrite-N. Please note: The Default Detection Limit of 0.05 g/m^3 is only attainable when the TKN has been determined using a trace method utilising duplicate analyses. In cases where the Detection Limit for TKN is 0.10 g/m^3, the Default Detection Limit for Total Nitrogen will be 0.11 g/m^3. In-house calculation.	0.05 g/m^3	1-6
Total Ammoniacal-N	Saline sample. Phenol/hypochlorite colorimetry. Flow injection analyser. (NH_4-N = NH_4^+-N + NH_3-N). APHA 4500-NH_3 H : Online Edition.	0.005 g/m^3	1-6
Nitrate-N + Nitrite-N	Saline sample. Total oxidised nitrogen. Automated cadmium reduction, Flow injection analyser. APHA 4500-NO_3^- I (modified) : Online Edition.	0.0010 g/m^3	1-6
Total Kjeldahl Nitrogen (TKN)	Total Kjeldahl digestion, phenol/hypochlorite colorimetry. Discrete Analyser. APHA 4500-N_{org} D (modified) 4500 NH_3 F (modified) : Online Edition.	0.10 g/m^3	1-6
Dissolved Reactive Phosphorus	Saline sample. Molybdenum blue colorimetry. Flow injection analyser. APHA 4500-P G : Online Edition.	0.0010 g/m^3	1-6
Total Phosphorus	Total phosphorus digestion, ascorbic acid colorimetry. Flow Injection Analyser. APHA 4500-P H (modified) : Online Edition.	0.004 g/m^3	1-6
Chlorophyll a	Acetone extraction. Spectroscopy. APHA 10150 B (modified) : Online Edition.	0.003 g/m^3	1-6

Hill Labs

ANALYSIS REQUEST

R J Hill Laboratories Limited Job No: 360 5170 Date Recv: 13-Jun-24 06:29

[redacted]

Received by: Gabriel Hazard

3136051703

www.hill-labs.co.nz

Quote No	130421	
Primary Contact	Claire Conwell	293821
Submitted By	~~Claire Conwell~~ Pamela Kare-Sanderson	293821
Client Name	SLR Holdings NZ Limited	281331
Address	[redacted]	
Phone	[redacted] *Mobile* [redacted]	
Email	[redacted]	
Charge To	SLR Holdings NZ Limited	281331
Client Reference	820.030379.00001	
Additional Client Ref		
Order No		

Results To *Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.*

☑ *Email Primary Contact* ☑ *Email Submitter* ☐ *Email Client*

☐ *Email Other*

☐ *Other*

Dates of testing are not routinely included in the Certificates of Analysis. Please inform the laboratory if you would like this information reported.

CHAIN OF CUSTODY RECORD

Sent to Hill Labs

☑ *Tick if you require COC to be emailed back*

Date & Time: 12/6/24 13:30

Name: Pamela Kare-Sanderson

Signatu [redacted]

Received at Hill Labs

Date & Time:

Name:

Signature:

Condition ☐ *Room Temp* ☐ *Chilled* ☐ *Frozen* *Temp:* 9.5

☐ Sample & Analysis details checked

Signature:

ADDITIONAL INFORMATION / KNOWN HAZARDS

Priority ☐ Low ☐ Normal ☑ High

☐ **Urgent** (ASAP, *extra charge applies, please contact lab first*)

Requested Reporting Date:

Quoted Sample Types

Saline (Sal)

No.	Sample Name	Sample Date/Time	Sample Type	Tests Required
1	R1-Surface(S)	12/6/24 0939	Sal	As per quote Nott 130421
2	R1-Mid (M)	12/6/24 0944	Sal	" "
3	R1-Bottom (B)	12/6/24 0948	Sal	" "
4	A2-Surface(S)	12/6/24 10:40	Sal	" "
5	A2-Mid (M)	12/6/24 1043	Sal	" "
6	A2-Bottom(B)	12/6/24 1048	Sal	" "
7				
8				

R J Hill Laboratories Limited
[redacted]
www.hill-labs.co.nz

Job Information Summary

Client:	SLR Holdings NZ Limited	**Lab No:**	3605170
Contact:	Claire Conwell	**Date Registered:**	13-Jun-2024 11:25 am
	[redacted]	**Priority:**	High
		Quote No:	130421
		Order No:	
		Client Reference:	8201030379.00001
		Add. Client Ref:	
		Submitted By:	Pamela Kane-Sanderson
		Charge To:	SLR Holdings NZ Limited
		Target Date:	20-Jun-2024 4:30 pm

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	R1-Surface (s) 12-Jun-2024 9:39 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
2	R1-Mid (M) 12-Jun-2024 9:44 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
3	R1-Bottom (B) 12-Jun-2024 9:48 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
4	A2-Surface (S) 12-Jun-2024 10:40 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
5	A2-Mid (M) 12-Jun-2024 10:43 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
6	A3-Bottom (B) 12-Jun-2024 10:48 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Filtration, Unpreserved	Sample filtration through 0.45µm membrane filter.	-	1-6
Turbidity	Analysis by Turbidity meter. APHA 2130 B (modified) : Online Edition.	0.05 NTU	1-6
pH	Saline water, pH meter. APHA 4500-H^+ B (modified) : Online Edition. Note: It is not possible to achieve the APHA Maximum Storage Recommendation for this test (15 min) when samples are analysed upon receipt at the laboratory, and not in the field. Samples and Standards are analysed at an equivalent laboratory temperature (typically 18 to 22 °C). Temperature compensation is used.	0.1 pH Units	1-6
Electrical Conductivity (EC)	Saline water, Conductivity meter, 25°C. APHA 2510 B : Online Edition.	0.10 mS/m	1-6
Salinity	Conductivity Meter (WTW Cond 340i with nonlinear temperature compensation according to EN 27 888). APHA 2520 B : Online Edition.	0.2	1-6

Sample Type: Saline			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Total Suspended Solids	Saline sample. Filtration using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) : Online Edition.	3 g/m^3	1-6
Total Nitrogen	Calculation: TKN + Nitrate-N + Nitrite-N. Please note: The Default Detection Limit of 0.05 g/m^3 is only attainable when the TKN has been determined using a trace method utilising duplicate analyses. In cases where the Detection Limit for TKN is 0.10 g/m^3, the Default Detection Limit for Total Nitrogen will be 0.11 g/m^3. In-house calculation.	0.05 g/m^3	1-6
Total Ammoniacal-N	Saline sample. Phenol/hypochlorite colorimetry. Flow injection analyser. (NH_4-N = NH_4^+-N + NH_3-N). APHA 4500-NH_3 H : Online Edition.	0.005 g/m^3	1-6
Nitrate-N + Nitrite-N	Saline sample. Total oxidised nitrogen. Automated cadmium reduction, Flow injection analyser. APHA 4500-NO_3^- I (modified) : Online Edition.	0.0010 g/m^3	1-6
Total Kjeldahl Nitrogen (TKN)	Total Kjeldahl digestion, phenol/hypochlorite colorimetry. Discrete Analyser. APHA 4500-N_{org} D (modified) 4500 NH_3 F (modified) : Online Edition.	0.10 g/m^3	1-6
Dissolved Reactive Phosphorus	Saline sample. Molybdenum blue colorimetry. Flow injection analyser. APHA 4500-P G : Online Edition.	0.0010 g/m^3	1-6
Total Phosphorus	Total phosphorus digestion, ascorbic acid colorimetry. Flow Injection Analyser. APHA 4500-P H (modified) : Online Edition.	0.004 g/m^3	1-6
Chlorophyll a	Acetone extraction. Spectroscopy. APHA 10150 B (modified) : Online Edition.	0.003 g/m^3	1-6

Hill Labs

ANALYSIS REQUEST

R J Hill Laboratories Limited
[redacted]
[redacted]
www.hill-labs.co.nz

Job No: 360 8222
Date Recv: 18-Jun-24 06:09
Received by: Gabriel Hazard
3136082227

Quote No	130421	
Primary Contact	Claire Conwell	293821
Submitted By	~~Claire Conwell~~ Pamela Kane-Sanderson	~~293821~~
Client Name	SLR Holdings NZ Limited	281331
Address	[redacted]	
Phone	[redacted] *Mobile* [redacted]	
Email	[redacted]	
Charge To	SLR Holdings NZ Limited	281331
Client Reference	820.030379.00001	
Additional Client Ref		
Order No		

Results To *Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.*

☑ *Email Primary Contact* ☑ *Email Submitter* ☐ *Email Client*
☐ *Email Other* _____
☐ *Other* _____

Dates of testing are not routinely included in the Certificates of Analysis. Please inform the laboratory if you would like this information reported.

CHAIN OF CUSTODY RECORD

Sent to Hill Labs
Date & Time: 17/06/24 13:30
☑ *Tick if you require COC to be emailed back*
Name: Pamela Kane-Sanderson
Signature: [redacted]

Received at Hill Labs
Date & Time:
Name:
Signature:

Condition ☐ *Room Temp* ☐ *Chilled* ☐ *Frozen* *Temp:* 9.9

☐ Sample & Analysis details checked
Signature:

ADDITIONAL INFORMATION / KNOWN HAZARDS

Priority ☐ Low ☐ Normal ☑ High
☐ **Urgent** (ASAP, *extra charge applies, please contact lab first*)

Requested Reporting Date: _____

Quoted Sample Types

Saline (Sal)

No.	Sample Name	Sample Date/Time	Sample Type	Tests Required
1	R1-Surface (S)	17/06/24 0954	Sal	As per quote No# 130421
2	R1 - Mid (M)	17/06/24 0955	Sal	" " "
3	R1 - Bottom (B)	17/06/24 1003	Sal	" " "
4	A2 - Surface (S)	17/06/24 1055	Sal	" " "
5	A2 - Mid (M)	17/06/24 1100	Sal	" " "
6	A2 - Bottom (B)	17/06/24 1105	Sal	" " "
7				
8				

R J Hill Laboratories Limited
[redacted]
www.hill-labs.co.nz

Job Information Summary

Client:	SLR Holdings NZ Limited	**Lab No:**	3608222
Contact:	Claire Conwell	**Date Registered:**	18-Jun-2024 9:09 am
	[redacted]	**Priority:**	High
		Quote No:	130421
		Order No:	
		Client Reference:	820.030379.00001
		Add. Client Ref:	
		Submitted By:	Pamela Kane-Sanderson
		Charge To:	SLR Holdings NZ Limited
		Target Date:	25-Jun-2024 4:30 pm

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	R1-Surface (S) 17-Jun-2024 9:54 am	Saline	Chlora, UP1L, S100	Chlorophyll a, Salinity, Total Suspended Solids, Total Nitrogen, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
2	R1-Mid (M) 17-Jun-2024 9:58 am	Saline	Chlora, UP1L, S100	Chlorophyll a, Salinity, Total Suspended Solids, Total Nitrogen, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
3	R1-Bottom (B) 17-Jun-2024 10:03 am	Saline	Chlora, UP1L, S100	Chlorophyll a, Salinity, Total Suspended Solids, Total Nitrogen, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
4	A2- Surface (S) 17-Jun-2024 10:55 am	Saline	Chlora, UP1L, S100	Chlorophyll a, Salinity, Total Suspended Solids, Total Nitrogen, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
5	A2- Mid (M) 17-Jun-2024 11:00 am	Saline	Chlora, UP1L, S100	Chlorophyll a, Salinity, Total Suspended Solids, Total Nitrogen, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
6	A2- Bottom (B) 17-Jun-2024 11:05 am	Saline	Chlora, UP1L, S100	Chlorophyll a, Salinity, Total Suspended Solids, Total Nitrogen, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Filtration, Unpreserved	Sample filtration through 0.45µm membrane filter.	-	1-6
Turbidity	Analysis by Turbidity meter. APHA 2130 B (modified) : Online Edition.	0.05 NTU	1-6
pH	Saline water, pH meter. APHA 4500-H^+ B (modified) : Online Edition. Note: It is not possible to achieve the APHA Maximum Storage Recommendation for this test (15 min) when samples are analysed upon receipt at the laboratory, and not in the field. Samples and Standards are analysed at an equivalent laboratory temperature (typically 18 to 22 °C). Temperature compensation is used.	0.1 pH Units	1-6
Electrical Conductivity (EC)	Saline water, Conductivity meter, 25°C. APHA 2510 B : Online Edition.	0.10 mS/m	1-6
Salinity	Conductivity Meter (WTW Cond 340i with nonlinear temperature compensation according to EN 27 888). APHA 2520 B : Online Edition.	0.2	1-6

Sample Type: Saline			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Total Suspended Solids	Saline sample. Filtration using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) : Online Edition.	3 g/m^3	1-6
Total Nitrogen	Calculation: TKN + Nitrate-N + Nitrite-N. Please note: The Default Detection Limit of 0.05 g/m^3 is only attainable when the TKN has been determined using a trace method utilising duplicate analyses. In cases where the Detection Limit for TKN is 0.10 g/m^3, the Default Detection Limit for Total Nitrogen will be 0.11 g/m^3. In-house calculation.	0.05 g/m^3	1-6
Total Ammoniacal-N	Saline sample. Phenol/hypochlorite colorimetry. Flow injection analyser. (NH_4-N = NH_4^+-N + NH_3-N). APHA 4500-NH_3 H : Online Edition.	0.005 g/m^3	1-6
Nitrate-N + Nitrite-N	Saline sample. Total oxidised nitrogen. Automated cadmium reduction, Flow injection analyser. APHA 4500-NO_3^- I (modified) : Online Edition.	0.0010 g/m^3	1-6
Total Kjeldahl Nitrogen (TKN)	Total Kjeldahl digestion, phenol/hypochlorite colorimetry. Discrete Analyser. APHA 4500-N_{org} D (modified) 4500 NH_3 F (modified) : Online Edition.	0.10 g/m^3	1-6
Dissolved Reactive Phosphorus	Saline sample. Molybdenum blue colorimetry. Flow injection analyser. APHA 4500-P G : Online Edition.	0.0010 g/m^3	1-6
Total Phosphorus	Total phosphorus digestion, ascorbic acid colorimetry. Flow Injection Analyser. APHA 4500-P H (modified) : Online Edition.	0.004 g/m^3	1-6
Chlorophyll a	Acetone extraction. Spectroscopy. APHA 10150 B (modified) : Online Edition.	0.003 g/m^3	1-6

Hill Labs

ANALYSIS REQUEST

R J Hill Laboratories Limited
[redacted]
[redacted]
www.hill-labs.co.nz

Job No: **361 3145**
Date Recv: 25-Jun-24 06:24
Received by: Gabriel Hazard
3136131451

Quote No	130421
Primary Contact	Claire Conwell 293821
Submitted By	~~Claire Conwell~~ Pamela Kane-Sanderson ~~293821~~
Client Name	SLR Holdings NZ Limited 281331
Address	[redacted]
Phone	[redacted] *Mobile* [redacted]
Email	[redacted]
Charge To	SLR Holdings NZ Limited 281331
Client Reference	820.030379.00001
Additional Client Ref	
Order No	

Results To *Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.*

☑ Email Primary Contact ☑ Email Submitter ☐ Email Client
☐ Email Other
☐ Other

Dates of testing are not routinely included in the Certificates of Analysis. Please inform the laboratory if you would like this information reported.

CHAIN OF CUSTODY RECORD

Sent to Hill Labs
Date & Time: 24-06-24 1500
Name: Pamela Kane-Sanderson
☑ *Tick if you require COC to be emailed back*
Signature: [redacted]

Received at Hill Labs
Date & Time:
Name:
Signature:

Condition ☐ *Room Temp* ☐ *Chilled* ☐ *Frozen* *Temp:* 7.8

☐ Sample & Analysis details checked
Signature:

ADDITIONAL INFORMATION / KNOWN HAZARDS

Priority ☐ **Low** ☐ **Normal** ☑ **High**
☐ **Urgent** (ASAP, *extra charge applies, please contact lab first*)

Requested Reporting Date:

Quoted Sample Types

Saline (Sal)

No.	Sample Name	Sample Date/Time	Sample Type	Tests Required
1	R1-Surface (S)	24/6/24 0951	Sal	As per quote No# 130421
2	R1-Mid (M)	24/6/24 0955	Sal	" " "
3	R1-Bottom (B)	24/6/24 1000	Sal	" " "
4	A2-Surface (S)	24/6/24 1048	Sal	" " "
5	A2-~~Surface~~ Mid (M)	24/6/24 1052	Sal	" " "
6	A2-Bottom (B)	24/6/24 1057	Sal	" " "
7				
8				

R J Hill Laboratories Limited
[redacted]
www.hill-labs.co.nz

Job Information Summary

Client:	SLR Holdings NZ Limited	**Lab No:**	3613145
Contact:	Claire Conwell	**Date Registered:**	25-Jun-2024 7:32 am
	[redacted]	**Priority:**	High
		Quote No:	130421
		Order No:	
		Client Reference:	820.030379.00001
		Add. Client Ref:	
		Submitted By:	Pamela Kane-Sanderson
		Charge To:	SLR Holdings NZ Limited
		Target Date:	03-Jul-2024 4:30 pm

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	R1-Surface (S) 24-Jun-2024 9:51 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
2	R1-Mid (M) 24-Jun-2024 9:55 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
3	R1-Bottom (B) 24-Jun-2024 10:00 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
4	A2-Surface (S) 24-Jun-2024 10:48 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
5	A2-Mid (M) 24-Jun-2024 10:52 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus
6	A2-Bottom (B) 24-Jun-2024 10:57 am	Saline	UP1L, Chlora, S100	Salinity, Total Suspended Solids, Total Nitrogen, Chlorophyll a, Turbidity, pH, Electrical Conductivity (EC), Total Ammoniacal-N, Nitrate-N + Nitrite-N, Dissolved Reactive Phosphorus, Total Phosphorus

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Filtration, Unpreserved	Sample filtration through 0.45µm membrane filter.	-	1-6
Turbidity	Analysis by Turbidity meter. APHA 2130 B (modified) : Online Edition.	0.05 NTU	1-6
pH	Saline water, pH meter. APHA 4500-H^+ B (modified) : Online Edition. Note: It is not possible to achieve the APHA Maximum Storage Recommendation for this test (15 min) when samples are analysed upon receipt at the laboratory, and not in the field. Samples and Standards are analysed at an equivalent laboratory temperature (typically 18 to 22 °C). Temperature compensation is used.	0.1 pH Units	1-6
Electrical Conductivity (EC)	Saline water, Conductivity meter, 25°C. APHA 2510 B : Online Edition.	0.10 mS/m	1-6
Salinity	Conductivity Meter (WTW Cond 340i with nonlinear temperature compensation according to EN 27 888). APHA 2520 B : Online Edition.	0.2	1-6

Sample Type: Saline			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Total Suspended Solids	Saline sample. Filtration using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) : Online Edition.	3 g/m^3	1-6
Total Nitrogen	Calculation: TKN + Nitrate-N + Nitrite-N. Please note: The Default Detection Limit of 0.05 g/m^3 is only attainable when the TKN has been determined using a trace method utilising duplicate analyses. In cases where the Detection Limit for TKN is 0.10 g/m^3, the Default Detection Limit for Total Nitrogen will be 0.11 g/m^3. In-house calculation.	0.05 g/m^3	1-6
Total Ammoniacal-N	Saline sample. Phenol/hypochlorite colorimetry. Flow injection analyser. (NH_4-N = NH_4^+-N + NH_3-N). APHA 4500-NH_3 H : Online Edition.	0.005 g/m^3	1-6
Nitrate-N + Nitrite-N	Saline sample. Total oxidised nitrogen. Automated cadmium reduction, Flow injection analyser. APHA 4500-NO_3^- I (modified) : Online Edition.	0.0010 g/m^3	1-6
Total Kjeldahl Nitrogen (TKN)	Total Kjeldahl digestion, phenol/hypochlorite colorimetry. Discrete Analyser. APHA 4500-N_{org} D (modified) 4500 NH_3 F (modified) : Online Edition.	0.10 g/m^3	1-6
Dissolved Reactive Phosphorus	Saline sample. Molybdenum blue colorimetry. Flow injection analyser. APHA 4500-P G : Online Edition.	0.0010 g/m^3	1-6
Total Phosphorus	Total phosphorus digestion, ascorbic acid colorimetry. Flow Injection Analyser. APHA 4500-P H (modified) : Online Edition.	0.004 g/m^3	1-6
Chlorophyll a	Acetone extraction. Spectroscopy. APHA 10150 B (modified) : Online Edition.	0.003 g/m^3	1-6

Appendix E Sonde vertical profile data

Te Ākau Bream Bay Sand Extraction

Water Quality Assessment of Environmental Effects

McCallum Group

SLR Project No.: 820.030379.00001

17 December 2025

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 1	06-05-2024	13:05:19	19.28	105.8	9.73	45666	8.16	176.1	7.7	0.31	2.05	0.143
Week 1	06-05-2024	13:05:20	19.216	105.7	8.18	45779	8.16	176.2	6.61	0.31	2.04	0.147
Week 1	06-05-2024	13:05:21	19.14	105.6	8.17	45823	8.16	176.3	5.87	0.3	2	0.15
Week 1	06-05-2024	13:05:22	19.073	105.5	8.18	45896	8.16	176.4	5.36	0.28	1.95	0.155
Week 1	06-05-2024	13:05:23	18.997	105.5	8.18	45954	8.16	176.4	4.8	0.27	1.89	0.161
Week 1	06-05-2024	13:05:24	18.93	105.4	8.19	46026	8.17	176.5	4.28	0.25	1.84	0.169
Week 1	06-05-2024	13:05:25	18.853	105.3	8.19	46088	8.17	176.6	3.67	0.23	1.75	0.179
Week 1	06-05-2024	13:05:26	18.782	105.3	8.2	46159	8.17	176.6	3.02	0.23	1.74	0.191
Week 1	06-05-2024	13:05:27	18.707	105.3	8.21	46218	8.17	176.7	2.41	0.23	1.74	0.971
Week 1	06-05-2024	13:05:28	18.648	105.3	8.22	46273	8.17	176.8	1.88	0.22	1.73	1.122
Week 1	06-05-2024	13:05:29	18.585	105.4	8.23	46318	8.17	176.8	1.29	0.24	1.8	1.503
Week 1	06-05-2024	13:05:30	18.53	105.5	8.24	46372	8.17	176.9	0.73	0.25	1.82	1.645
Week 1	06-05-2024	13:05:31	18.499	105.5	8.26	46393	8.17	176.9	0.24	0.25	1.83	1.675
Week 1	06-05-2024	13:05:32	18.481	105.6	8.26	46405	8.17	177	-0.06	0.24	1.79	1.822
Week 1	06-05-2024	13:05:33	18.47	105.7	8.27	46409	8.17	177	-0.07	0.24	1.8	1.984
Week 1	06-05-2024	13:05:34	18.46	105.7	8.28	46414	8.17	177.1	-0.09	0.24	1.78	2.071
Week 1	06-05-2024	13:05:35	18.449	105.8	8.28	46411	8.17	177.1	-0.09	0.25	1.82	2.151
Week 1	06-05-2024	13:05:36	18.438	105.8	8.29	46409	8.17	177.2	-0.09	0.26	1.86	3.05
Week 1	06-05-2024	13:05:37	18.427	105.8	8.29	46407	8.17	177.2	-0.1	0.24	1.8	3.375
Week 1	06-05-2024	13:05:38	18.417	105.8	8.3	46406	8.17	177.2	-0.1	0.24	1.79	3.645
Week 1	06-05-2024	13:05:39	18.407	105.9	8.3	46406	8.17	177.3	-0.1	0.25	1.82	3.77
Week 1	06-05-2024	13:05:40	18.4	105.9	8.3	46406	8.17	177.2	-0.11	0.23	1.74	3.843
Week 1	06-05-2024	13:05:41	18.395	105.9	8.3	46407	8.16	177.2	-0.11	0.22	1.72	3.934
Week 1	06-05-2024	13:05:42	18.39	105.9	8.3	46407	8.16	177.1	-0.1	0.24	1.78	4.004
Week 1	06-05-2024	13:05:43	18.387	105.9	8.3	46407	8.16	177.1	-0.11	0.25	1.84	4.096
Week 1	06-05-2024	13:05:44	18.383	105.9	8.3	46407	8.16	177.1	-0.11	0.25	1.81	4.176
Week 1	06-05-2024	13:05:45	18.381	105.8	8.3	46407	8.16	177	-0.1	0.26	1.85	4.253
Week 1	06-05-2024	13:05:46	18.378	105.8	8.3	46407	8.16	177	-0.11	0.24	1.79	4.359
Week 1	06-05-2024	13:05:47	18.376	105.8	8.3	46406	8.16	176.9	-0.12	0.24	1.8	4.44
Week 1	06-05-2024	13:05:48	18.374	105.8	8.3	46406	8.16	176.9	-0.12	0.25	1.84	5.423
Week 1	06-05-2024	13:05:49	18.373	105.8	8.3	46407	8.16	176.9	-0.12	0.26	1.84	5.618
Week 1	06-05-2024	13:05:50	18.372	105.8	8.3	46406	8.16	176.8	-0.12	0.24	1.79	5.868
Week 1	06-05-2024	13:05:51	18.37	105.8	8.3	46406	8.16	176.8	-0.11	0.25	1.81	6.078
Week 1	06-05-2024	13:05:52	18.368	105.7	8.3	46406	8.16	176.8	-0.11	0.24	1.79	6.195
Week 1	06-05-2024	13:05:53	18.367	105.7	8.29	46406	8.16	176.7	-0.1	0.24	1.8	6.296
Week 1	06-05-2024	13:05:54	18.365	105.7	8.29	46406	8.16	176.7	-0.1	0.22	1.72	6.407
Week 1	06-05-2024	13:05:55	18.363	105.7	8.29	46406	8.16	176.7	-0.09	0.24	1.79	6.542
Week 1	06-05-2024	13:05:56	18.361	105.6	8.29	46406	8.16	176.7	-0.09	0.25	1.82	7.481
Week 1	06-05-2024	13:05:57	18.359	105.6	8.29	46405	8.16	176.6	-0.1	0.28	1.93	7.973
Week 1	06-05-2024	13:05:58	18.358	105.6	8.29	46406	8.16	176.6	-0.09	0.28	1.93	8.24
Week 1	06-05-2024	13:05:59	18.356	105.6	8.28	46405	8.16	176.6	-0.1	0.3	1.99	8.432
Week 1	06-05-2024	13:06:00	18.354	105.5	8.28	46405	8.16	176.6	-0.09	0.31	2.04	8.523
Week 1	06-05-2024	13:06:01	18.353	105.5	8.28	46405	8.16	176.5	-0.1	0.34	2.14	8.681
Week 1	06-05-2024	13:06:02	18.351	105.5	8.28	46405	8.16	176.5	-0.08	0.35	2.18	8.792
Week 1	06-05-2024	13:06:03	18.349	105.5	8.28	46405	8.16	176.5	-0.08	0.36	2.23	9.894
Week 1	06-05-2024	13:06:04	18.347	105.4	8.27	46405	8.16	176.5	-0.08	0.36	2.22	10.455
Week 1	06-05-2024	13:06:05	18.345	105.4	8.27	46404	8.16	176.5	-0.08	0.38	2.29	10.887
Week 1	06-05-2024	13:06:06	18.343	105.4	8.27	46404	8.16	176.4	-0.08	0.39	2.34	11.025
Week 1	06-05-2024	13:06:07	18.341	105.3	8.27	46404	8.16	176.4	-0.08	0.39	2.34	11.322
Week 1	06-05-2024	13:06:08	18.339	105.3	8.27	46404	8.16	176.4	-0.09	0.39	2.31	12.511
Week 1	06-05-2024	13:06:09	18.337	105.3	8.27	46404	8.16	176.4	-0.09	0.39	2.32	12.904
Week 1	06-05-2024	13:06:10	18.336	105.3	8.26	46404	8.16	176.3	-0.08	0.38	2.3	13.179
Week 1	06-05-2024	13:06:11	18.333	105.2	8.26	46404	8.16	176.3	-0.09	0.38	2.28	13.801
Week 1	06-05-2024	13:06:12	18.331	105.2	8.26	46404	8.16	176.3	-0.09	0.37	2.26	13.977
Week 1	06-05-2024	13:06:13	18.329	105.2	8.26	46404	8.16	176.3	-0.07	0.37	2.26	14.265
Week 1	06-05-2024	13:06:14	18.327	105.1	8.26	46404	8.16	176.3	-0.07	0.38	2.28	15.621
Week 1	06-05-2024	13:06:15	18.325	105.1	8.25	46404	8.16	176.3	-0.08	0.38	2.31	16.083
Week 1	06-05-2024	13:06:16	18.323	105.1	8.25	46404	8.16	176.2	-0.08	0.4	2.37	16.605
Week 1	06-05-2024	13:06:17	18.32	105	8.25	46404	8.16	176.2	-0.09	0.41	2.4	16.839
Week 1	06-05-2024	13:06:18	18.318	105	8.25	46403	8.16	176.2	-0.1	0.41	2.4	17.871
Week 1	06-05-2024	13:06:19	18.315	105	8.24	46404	8.16	176.2	-0.1	0.42	2.45	18.407
Week 1	06-05-2024	13:06:20	18.312	104.9	8.24	46404	8.16	176.2	-0.1	0.44	2.5	18.83
Week 1	06-05-2024	13:06:21	18.309	104.9	8.24	46404	8.16	176.2	-0.09	0.44	2.5	19.478
Week 1	06-05-2024	13:06:22	18.306	104.9	8.24	46403	8.16	176.1	-0.09	0.44	2.52	19.679
Week 1	06-05-2024	13:06:23	18.302	104.8	8.24	46403	8.16	176.1	-0.09	0.44	2.52	20.007
Week 1	06-05-2024	13:06:24	18.299	104.8	8.23	46403	8.16	176.1	-0.1	0.44	2.5	20.274
Week 1	06-05-2024	13:06:25	18.296	104.8	8.23	46403	8.16	176.1	-0.1	0.45	2.53	20.421

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 1	06-05-2024	13:06:26	18.293	104.7	8.23	46403	8.16	176.1	-0.09	0.44	2.5	21.331
Week 1	06-05-2024	13:06:27	18.289	104.7	8.23	46403	8.16	176.1	-0.1	0.42	2.42	21.877
Week 1	06-05-2024	13:06:28	18.285	104.7	8.23	46403	8.16	176.1	-0.11	0.4	2.36	21.883
Week 1	06-05-2024	13:06:29	18.282	104.7	8.23	46403	8.16	176.1	-0.1	0.39	2.32	22.023
Week 1	06-05-2024	13:06:30	18.279	104.7	8.23	46404	8.16	176.1	-0.09	0.37	2.27	21.805
Week 1	06-05-2024	13:06:31	18.276	104.6	8.23	46404	8.16	176.1	-0.09	0.38	2.29	20.536
Week 1	06-05-2024	13:06:32	18.275	104.6	8.23	46404	8.16	176.1	-0.08	0.38	2.3	20.145
Week 1	06-05-2024	13:06:33	18.273	104.6	8.23	46404	8.16	176.1	-0.08	0.38	2.29	19.912
Week 1	06-05-2024	13:06:34	18.272	104.6	8.23	46404	8.16	176.1	-0.08	0.38	2.28	20.01
Week 1	06-05-2024	13:06:35	18.272	104.7	8.23	46405	8.16	176	-0.09	0.37	2.27	20.142
Week 1	06-05-2024	13:06:36	18.271	104.7	8.23	46405	8.16	176	-0.09	0.35	2.19	20.382
Week 1	06-05-2024	13:06:37	18.271	104.7	8.23	46405	8.16	176	-0.09	0.36	2.21	20.588
Week 1	06-05-2024	13:06:38	18.27	104.7	8.23	46405	8.16	176	-0.09	0.35	2.17	21.511
Week 1	06-05-2024	13:06:39	18.27	104.7	8.23	46405	8.16	176	-0.09	0.35	2.18	21.59
Week 1	06-05-2024	13:06:40	18.269	104.7	8.23	46406	8.16	176	-0.09	0.36	2.21	21.769
Week 1	06-05-2024	13:06:41	18.269	104.7	8.23	46405	8.16	176	-0.09	0.36	2.21	22.244
Week 1	06-05-2024	13:06:42	18.268	104.7	8.23	46406	8.16	176	-0.1	0.33	2.12	22.385
Week 1	06-05-2024	13:06:43	18.267	104.7	8.23	46406	8.16	176	-0.1	0.31	2.05	22.569
Week 1	06-05-2024	13:06:44	18.266	104.7	8.23	46406	8.16	176	-0.11	0.29	1.99	22.761
Week 1	06-05-2024	13:06:45	18.264	104.7	8.23	46406	8.16	176	-0.12	0.29	1.97	23.693
Week 1	06-05-2024	13:06:46	18.261	104.6	8.23	46406	8.16	176	-0.12	0.3	1.99	24.068
Week 1	06-05-2024	13:06:47	18.259	104.6	8.23	46406	8.16	176	-0.11	0.29	1.97	24.43
Week 1	06-05-2024	13:06:48	18.256	104.6	8.23	46406	8.16	175.9	-0.11	0.28	1.93	24.366
Week 1	06-05-2024	13:06:49	18.253	104.6	8.22	46407	8.16	175.9	-0.11	0.28	1.95	24.292
Week 1	06-05-2024	13:06:50	18.251	104.6	8.22	46407	8.16	175.9	-0.11	0.29	1.98	24.152
Week 1	06-05-2024	13:06:51	18.248	104.6	8.22	46407	8.16	175.9	-0.11	0.28	1.94	24.035
Week 1	06-05-2024	13:06:52	18.246	104.6	8.22	46407	8.16	175.9	-0.12	0.28	1.92	24.026
Week 1	06-05-2024	13:06:53	18.245	104.6	8.22	46407	8.16	175.9	-0.12	0.27	1.89	24.041
Week 1	06-05-2024	13:06:54	18.243	104.6	8.22	46407	8.16	175.9	-0.12	0.27	1.91	24.915
Week 1	06-05-2024	13:06:55	18.242	104.5	8.22	46407	8.16	175.9	-0.12	0.28	1.92	25.199
Week 1	06-05-2024	13:06:56	18.241	104.5	8.22	46407	8.16	175.9	-0.11	0.27	1.9	25.371
Week 1	06-05-2024	13:06:57	18.241	104.5	8.22	46407	8.16	175.9	-0.11	0.27	1.89	25.724
Week 1	06-05-2024	13:06:58	18.241	104.5	8.22	46407	8.16	175.9	-0.11	0.27	1.91	25.742
Week 1	06-05-2024	13:06:59	18.241	104.5	8.22	46407	8.16	175.9	-0.1	0.29	1.96	25.872
Week 1	06-05-2024	13:07:00	18.241	104.5	8.22	46407	8.16	175.9	-0.09	0.27	1.9	25.973
Week 1	06-05-2024	13:07:01	18.241	104.5	8.22	46407	8.16	175.9	-0.09	0.26	1.85	25.945
Week 1	06-05-2024	13:07:02	18.241	104.5	8.22	46407	8.16	175.9	-0.1	0.26	1.85	24.916
Week 1	06-05-2024	13:07:03	18.241	104.5	8.22	46407	8.16	175.9	-0.1	0.26	1.86	24.407
Week 1	06-05-2024	13:07:04	18.241	104.5	8.22	46407	8.16	175.8	-0.09	0.27	1.89	23.682
Week 1	06-05-2024	13:07:05	18.241	104.5	8.22	46406	8.16	175.8	-0.09	0.27	1.91	23.213
Week 1	06-05-2024	13:07:06	18.241	104.6	8.22	46406	8.16	175.8	-0.09	0.29	1.95	22.846
Week 1	06-05-2024	13:07:07	18.242	104.6	8.22	46407	8.16	175.8	-0.08	0.3	2.01	22.51
Week 1	06-05-2024	13:07:08	18.243	104.6	8.23	46406	8.16	175.8	-0.09	0.31	2.04	20.85
Week 1	06-05-2024	13:07:09	18.245	104.6	8.23	46406	8.16	175.8	-0.09	0.29	1.98	20.188
Week 1	06-05-2024	13:07:10	18.247	104.6	8.23	46406	8.16	175.8	-0.1	0.3	1.99	19.805
Week 1	06-05-2024	13:07:11	18.25	104.6	8.23	46406	8.16	175.8	-0.1	0.32	2.08	19.718
Week 1	06-05-2024	13:07:12	18.252	104.7	8.23	46406	8.16	175.8	-0.1	0.34	2.14	19.418
Week 1	06-05-2024	13:07:13	18.256	104.7	8.23	46405	8.16	175.8	-0.1	0.34	2.15	17.83
Week 1	06-05-2024	13:07:14	18.259	104.7	8.24	46405	8.16	175.8	-0.1	0.35	2.17	17.369
Week 1	06-05-2024	13:07:15	18.263	104.8	8.24	46405	8.16	175.8	-0.1	0.37	2.25	16.805
Week 1	06-05-2024	13:07:16	18.267	104.8	8.24	46405	8.16	175.8	-0.09	0.39	2.35	16.288
Week 1	06-05-2024	13:07:17	18.272	104.8	8.24	46404	8.16	175.8	-0.09	0.4	2.37	15.93
Week 1	06-05-2024	13:07:18	18.276	104.9	8.24	46404	8.16	175.8	-0.1	0.41	2.39	14.817
Week 1	06-05-2024	13:07:19	18.282	104.9	8.25	46404	8.16	175.7	-0.1	0.41	2.42	14.232
Week 1	06-05-2024	13:07:20	18.286	104.9	8.25	46404	8.16	175.7	-0.1	0.43	2.49	13.788
Week 1	06-05-2024	13:07:21	18.291	105	8.25	46403	8.16	175.7	-0.1	0.44	2.5	13.384
Week 1	06-05-2024	13:07:22	18.294	105	8.25	46403	8.16	175.7	-0.09	0.43	2.47	13.28
Week 1	06-05-2024	13:07:23	18.299	105	8.25	46403	8.16	175.7	-0.09	0.43	2.47	13.11
Week 1	06-05-2024	13:07:24	18.302	105	8.25	46403	8.16	175.7	-0.09	0.45	2.54	11.622
Week 1	06-05-2024	13:07:25	18.306	105.1	8.25	46402	8.16	175.7	-0.08	0.46	2.57	11.099
Week 1	06-05-2024	13:07:26	18.308	105.1	8.25	46403	8.16	175.7	-0.09	0.45	2.54	10.547
Week 1	06-05-2024	13:07:27	18.311	105.1	8.26	46403	8.16	175.7	-0.1	0.42	2.43	10.306
Week 1	06-05-2024	13:07:28	18.314	105.1	8.26	46403	8.16	175.7	-0.09	0.42	2.43	9.851
Week 1	06-05-2024	13:07:29	18.317	105.1	8.26	46402	8.16	175.7	-0.09	0.41	2.41	8.819
Week 1	06-05-2024	13:07:30	18.319	105.2	8.26	46402	8.16	175.7	-0.1	0.41	2.39	8.458
Week 1	06-05-2024	13:07:31	18.322	105.2	8.26	46402	8.16	175.7	-0.1	0.4	2.36	7.717
Week 1	06-05-2024	13:07:32	18.325	105.2	8.26	46402	8.16	175.6	-0.1	0.41	2.39	7.273
Week 1	06-05-2024	13:07:33	18.327	105.2	8.26	46402	8.16	175.6	-0.1	0.4	2.38	6.983

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 1	06-05-2024	13:07:34	18.33	105.2	8.26	46402	8.16	175.6	-0.1	0.39	2.33	6.592
Week 1	06-05-2024	13:07:35	18.332	105.3	8.26	46402	8.16	175.6	-0.1	0.38	2.3	5.537
Week 1	06-05-2024	13:07:36	18.335	105.3	8.27	46402	8.16	175.6	-0.1	0.38	2.29	4.998
Week 1	06-05-2024	13:07:37	18.338	105.3	8.27	46402	8.16	175.6	-0.1	0.37	2.26	4.345
Week 1	06-05-2024	13:07:38	18.342	105.3	8.27	46402	8.16	175.6	-0.1	0.37	2.26	4.075
Week 1	06-05-2024	13:07:39	18.345	105.4	8.27	46402	8.16	175.6	-0.1	0.35	2.2	3.768
Week 1	06-05-2024	13:07:40	18.349	105.4	8.27	46402	8.16	175.6	-0.11	0.33	2.13	3.447
Week 1	06-05-2024	13:07:41	18.352	105.4	8.27	46402	8.16	175.6	-0.11	0.32	2.07	2.378
Week 1	06-05-2024	13:07:42	18.356	105.5	8.28	46402	8.16	175.6	-0.1	0.3	2.01	1.917
Week 1	06-05-2024	13:07:43	18.36	105.5	8.28	46402	8.16	175.6	-0.11	0.27	1.89	1.343
Week 1	06-05-2024	13:07:44	18.364	105.5	8.28	46402	8.16	175.6	-0.12	0.26	1.86	0.96
Week 1	06-05-2024	13:07:45	18.368	105.6	8.28	46402	8.16	175.6	-0.12	0.25	1.82	0.85
Week 1	06-05-2024	13:07:46	18.375	105.6	8.29	46403	8.16	175.6	-0.12	0.23	1.75	0.619
Week 2	13-05-2024	11:39:52	17.999	98	9.2	53994	8.13	174.3	0.67	0.25	1.83	0.215
Week 2	13-05-2024	11:39:53	17.977	98.4	7.52	53897	8.18	172.4	0.62	0.26	1.85	0.21
Week 2	13-05-2024	11:39:54	17.988	98.5	7.53	53855	8.2	172.7	0.55	0.23	1.76	0.213
Week 2	13-05-2024	11:39:55	18.003	98.6	7.54	53834	8.21	172.8	0.49	0.23	1.75	0.215
Week 2	13-05-2024	11:39:56	18.001	98.5	7.53	53836	8.21	172.8	0.42	0.24	1.77	0.218
Week 2	13-05-2024	11:39:57	18	98.4	7.53	53827	8.21	172.8	0.37	0.22	1.71	0.22
Week 2	13-05-2024	11:39:58	17.997	98.5	7.53	53819	8.21	172.8	0.32	0.2	1.63	0.222
Week 2	13-05-2024	11:39:59	17.995	98.5	7.53	53812	8.21	172.8	0.25	0.19	1.59	0.225
Week 2	13-05-2024	11:40:00	17.993	98.5	7.53	53804	8.21	172.8	0.21	0.18	1.58	0.228
Week 2	13-05-2024	11:40:01	17.99	98.5	7.53	53802	8.21	172.8	0.16	0.19	1.6	0.23
Week 2	13-05-2024	11:40:02	17.99	98.5	7.53	53799	8.21	172.7	0.09	0.17	1.53	0.233
Week 2	13-05-2024	11:40:03	17.989	98.5	7.53	53797	8.21	172.7	0.03	0.19	1.59	0.236
Week 2	13-05-2024	11:40:04	17.987	98.5	7.54	53796	8.21	172.7	-0.03	0.19	1.6	0.237
Week 2	13-05-2024	11:40:05	17.986	98.5	7.54	53789	8.21	172.7	-0.09	0.19	1.61	0.24
Week 2	13-05-2024	11:40:06	17.984	98.5	7.54	53781	8.21	172.6	-0.1	0.18	1.57	0.242
Week 2	13-05-2024	11:40:07	17.982	98.5	7.54	53775	8.21	172.6	-0.12	0.16	1.51	0.244
Week 2	13-05-2024	11:40:08	17.979	98.5	7.54	53767	8.21	172.6	-0.11	0.17	1.53	0.246
Week 2	13-05-2024	11:40:09	17.976	98.5	7.54	53759	8.21	172.6	-0.11	0.17	1.52	0.249
Week 2	13-05-2024	11:40:10	17.972	98.6	7.54	53754	8.21	172.6	-0.11	0.16	1.5	0.254
Week 2	13-05-2024	11:40:11	17.968	98.6	7.54	53752	8.21	172.5	-0.11	0.16	1.5	0.263
Week 2	13-05-2024	11:40:12	17.965	98.6	7.55	53748	8.21	172.5	-0.12	0.16	1.49	0.273
Week 2	13-05-2024	11:40:13	17.961	98.6	7.55	53748	8.21	172.5	-0.11	0.17	1.55	0.288
Week 2	13-05-2024	11:40:14	17.958	98.6	7.55	53743	8.21	172.5	-0.11	0.18	1.56	1.24
Week 2	13-05-2024	11:40:15	17.95	98.6	7.55	53739	8.21	172.5	-0.11	0.19	1.59	1.83
Week 2	13-05-2024	11:40:16	17.941	98.6	7.55	53738	8.21	172.4	-0.12	0.2	1.64	2.16
Week 2	13-05-2024	11:40:17	17.934	98.5	7.55	53736	8.21	172.4	-0.12	0.21	1.68	2.28
Week 2	13-05-2024	11:40:18	17.926	98.5	7.55	53734	8.21	172.4	-0.11	0.23	1.74	2.357
Week 2	13-05-2024	11:40:19	17.918	98.5	7.55	53734	8.21	172.3	-0.12	0.22	1.72	2.482
Week 2	13-05-2024	11:40:20	17.909	98.5	7.55	53734	8.21	172.3	-0.11	0.21	1.7	2.653
Week 2	13-05-2024	11:40:21	17.901	98.5	7.55	53735	8.21	172.2	-0.11	0.22	1.7	2.799
Week 2	13-05-2024	11:40:22	17.892	98.5	7.55	53736	8.21	172.2	-0.11	0.22	1.7	3.777
Week 2	13-05-2024	11:40:23	17.885	98.4	7.55	53737	8.21	172.2	-0.13	0.2	1.66	3.903
Week 2	13-05-2024	11:40:24	17.877	98.4	7.55	53738	8.21	172.1	-0.12	0.22	1.7	4.395
Week 2	13-05-2024	11:40:25	17.871	98.4	7.55	53739	8.2	172.1	-0.13	0.22	1.71	4.505
Week 2	13-05-2024	11:40:26	17.863	98.4	7.55	53740	8.2	172.1	-0.12	0.22	1.7	4.655
Week 2	13-05-2024	11:40:27	17.857	98.4	7.55	53743	8.2	172	-0.12	0.21	1.67	4.885
Week 2	13-05-2024	11:40:28	17.853	98.4	7.55	53744	8.2	172	-0.12	0.21	1.66	5.049
Week 2	13-05-2024	11:40:29	17.85	98.4	7.55	53744	8.2	172	-0.11	0.22	1.71	5.145
Week 2	13-05-2024	11:40:30	17.847	98.4	7.55	53743	8.2	171.9	-0.11	0.23	1.76	6.074
Week 2	13-05-2024	11:40:31	17.844	98.4	7.55	53744	8.2	171.9	-0.11	0.24	1.78	6.593
Week 2	13-05-2024	11:40:32	17.841	98.4	7.55	53746	8.2	171.9	-0.11	0.25	1.83	7.015
Week 2	13-05-2024	11:40:33	17.839	98.4	7.55	53746	8.2	171.8	-0.11	0.26	1.87	7.399
Week 2	13-05-2024	11:40:34	17.837	98.4	7.55	53747	8.2	171.8	-0.11	0.28	1.91	7.544
Week 2	13-05-2024	11:40:35	17.835	98.3	7.55	53748	8.2	171.8	-0.12	0.28	1.92	7.867
Week 2	13-05-2024	11:40:36	17.833	98.3	7.55	53750	8.2	171.7	-0.12	0.29	1.97	8.909
Week 2	13-05-2024	11:40:37	17.83	98.3	7.55	53752	8.2	171.7	-0.12	0.31	2.05	9.507
Week 2	13-05-2024	11:40:38	17.828	98.3	7.55	53753	8.2	171.7	-0.12	0.33	2.11	10.109
Week 2	13-05-2024	11:40:39	17.826	98.3	7.54	53755	8.2	171.6	-0.11	0.34	2.15	10.572
Week 2	13-05-2024	11:40:40	17.825	98.3	7.54	53756	8.2	171.6	-0.11	0.34	2.15	10.898
Week 2	13-05-2024	11:40:41	17.823	98.3	7.54	53757	8.2	171.6	-0.11	0.36	2.21	12.236
Week 2	13-05-2024	11:40:42	17.821	98.2	7.54	53759	8.2	171.6	-0.11	0.37	2.27	12.634
Week 2	13-05-2024	11:40:43	17.819	98.2	7.54	53761	8.2	171.5	-0.12	0.38	2.3	12.924
Week 2	13-05-2024	11:40:44	17.817	98.2	7.54	53761	8.2	171.5	-0.11	0.4	2.36	12.899
Week 2	13-05-2024	11:40:45	17.815	98.2	7.54	53762	8.2	171.5	-0.11	0.4	2.37	13.074
Week 2	13-05-2024	11:40:46	17.813	98.2	7.54	53763	8.2	171.4	-0.12	0.42	2.43	13.342

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 2	13-05-2024	11:40:47	17.811	98.2	7.54	53764	8.2	171.4	-0.12	0.42	2.44	14.601
Week 2	13-05-2024	11:40:48	17.809	98.1	7.53	53766	8.2	171.4	-0.12	0.43	2.47	15.28
Week 2	13-05-2024	11:40:49	17.807	98.1	7.53	53766	8.2	171.4	-0.12	0.43	2.46	16.045
Week 2	13-05-2024	11:40:50	17.805	98.1	7.53	53766	8.2	171.3	-0.11	0.44	2.51	16.46
Week 2	13-05-2024	11:40:51	17.803	98.1	7.53	53768	8.2	171.3	-0.11	0.45	2.55	16.654
Week 2	13-05-2024	11:40:52	17.801	98	7.53	53768	8.2	171.3	-0.11	0.45	2.55	16.764
Week 2	13-05-2024	11:40:53	17.799	98	7.53	53769	8.2	171.3	-0.1	0.46	2.57	16.937
Week 2	13-05-2024	11:40:54	17.797	98	7.53	53770	8.2	171.2	-0.11	0.47	2.62	17.9
Week 2	13-05-2024	11:40:55	17.795	98	7.53	53771	8.2	171.2	-0.11	0.47	2.64	18.248
Week 2	13-05-2024	11:40:56	17.793	98	7.52	53771	8.2	171.2	-0.11	0.47	2.63	18.37
Week 2	13-05-2024	11:40:57	17.791	97.9	7.52	53772	8.2	171.2	-0.1	0.47	2.63	18.74
Week 2	13-05-2024	11:40:58	17.79	97.9	7.52	53773	8.2	171.1	-0.11	0.48	2.65	18.934
Week 2	13-05-2024	11:40:59	17.788	97.9	7.52	53774	8.2	171.1	-0.11	0.48	2.65	19.166
Week 2	13-05-2024	11:41:00	17.787	97.9	7.52	53775	8.2	171.1	-0.1	0.48	2.66	19.347
Week 2	13-05-2024	11:41:01	17.786	97.9	7.52	53775	8.2	171.1	-0.1	0.48	2.67	19.495
Week 2	13-05-2024	11:41:02	17.784	97.9	7.52	53776	8.2	171	-0.1	0.48	2.65	20.521
Week 2	13-05-2024	11:41:03	17.783	97.8	7.51	53777	8.2	171	-0.1	0.49	2.7	20.781
Week 2	13-05-2024	11:41:04	17.782	97.8	7.51	53777	8.2	171	-0.1	0.49	2.68	21.088
Week 2	13-05-2024	11:41:05	17.781	97.8	7.51	53778	8.2	171	-0.11	0.48	2.64	21.231
Week 2	13-05-2024	11:41:06	17.78	97.8	7.51	53778	8.2	171	-0.11	0.47	2.6	21.396
Week 2	13-05-2024	11:41:07	17.778	97.7	7.51	53779	8.2	170.9	-0.11	0.47	2.63	21.631
Week 2	13-05-2024	11:41:08	17.777	97.7	7.51	53779	8.2	170.9	-0.12	0.47	2.6	22.534
Week 2	13-05-2024	11:41:09	17.775	97.7	7.51	53780	8.2	170.9	-0.11	0.45	2.56	22.618
Week 2	13-05-2024	11:41:10	17.773	97.7	7.5	53780	8.2	170.9	-0.11	0.45	2.54	22.682
Week 2	13-05-2024	11:41:11	17.771	97.6	7.5	53781	8.2	170.8	-0.1	0.45	2.55	22.748
Week 2	13-05-2024	11:41:12	17.769	97.6	7.5	53781	8.2	170.8	-0.1	0.45	2.56	22.938
Week 2	13-05-2024	11:41:13	17.767	97.6	7.5	53781	8.2	170.8	-0.09	0.45	2.56	23.08
Week 2	13-05-2024	11:41:14	17.764	97.6	7.5	53781	8.2	170.8	-0.09	0.46	2.59	23.19
Week 2	13-05-2024	11:41:15	17.762	97.5	7.5	53782	8.2	170.8	-0.1	0.47	2.61	23.312
Week 2	13-05-2024	11:41:16	17.759	97.5	7.49	53782	8.2	170.8	-0.09	0.48	2.64	23.452
Week 2	13-05-2024	11:41:17	17.757	97.5	7.49	53782	8.2	170.8	-0.09	0.49	2.68	24.511
Week 2	13-05-2024	11:41:18	17.754	97.5	7.49	53782	8.2	170.7	-0.09	0.5	2.71	24.721
Week 2	13-05-2024	11:41:19	17.751	97.4	7.49	53783	8.2	170.7	-0.09	0.49	2.7	24.983
Week 2	13-05-2024	11:41:20	17.749	97.4	7.49	53783	8.2	170.7	-0.08	0.5	2.72	25.048
Week 2	13-05-2024	11:41:21	17.747	97.4	7.48	53783	8.2	170.7	-0.08	0.5	2.72	25.227
Week 2	13-05-2024	11:41:22	17.744	97.3	7.48	53784	8.2	170.7	-0.08	0.5	2.71	25.395
Week 2	13-05-2024	11:41:23	17.741	97.3	7.48	53785	8.2	170.7	-0.08	0.49	2.68	25.525
Week 2	13-05-2024	11:41:24	17.736	97.3	7.48	53786	8.2	170.7	-0.08	0.48	2.64	25.632
Week 2	13-05-2024	11:41:25	17.732	97.2	7.47	53787	8.2	170.6	-0.08	0.45	2.55	25.73
Week 2	13-05-2024	11:41:26	17.726	97.2	7.47	53789	8.2	170.6	-0.09	0.43	2.49	25.803
Week 2	13-05-2024	11:41:27	17.719	97.1	7.47	53789	8.2	170.6	-0.09	0.43	2.48	26.681
Week 2	13-05-2024	11:41:28	17.711	97.1	7.47	53792	8.2	170.6	-0.09	0.42	2.45	27.023
Week 2	13-05-2024	11:41:29	17.702	97	7.46	53793	8.2	170.6	-0.08	0.41	2.41	27.047
Week 2	13-05-2024	11:41:30	17.695	97	7.46	53794	8.2	170.6	-0.08	0.43	2.47	26.894
Week 2	13-05-2024	11:41:31	17.686	96.9	7.46	53795	8.2	170.6	-0.08	0.44	2.51	26.859
Week 2	13-05-2024	11:41:32	17.678	96.9	7.46	53796	8.2	170.6	-0.09	0.45	2.54	26.835
Week 2	13-05-2024	11:41:33	17.668	96.8	7.45	53797	8.2	170.6	-0.08	0.45	2.55	26.858
Week 2	13-05-2024	11:41:34	17.659	96.8	7.45	53799	8.2	170.6	-0.09	0.46	2.58	26.884
Week 2	13-05-2024	11:41:35	17.65	96.7	7.45	53800	8.2	170.6	-0.07	0.47	2.62	26.853
Week 2	13-05-2024	11:41:36	17.645	96.7	7.45	53800	8.2	170.5	-0.07	0.48	2.64	26.783
Week 2	13-05-2024	11:41:37	17.642	96.7	7.44	53801	8.2	170.5	-0.07	0.49	2.68	25.44
Week 2	13-05-2024	11:41:38	17.641	96.6	7.44	53800	8.19	170.5	-0.07	0.49	2.68	24.968
Week 2	13-05-2024	11:41:39	17.642	96.6	7.44	53800	8.19	170.5	-0.07	0.5	2.72	24.327
Week 2	13-05-2024	11:41:40	17.646	96.6	7.44	53800	8.19	170.5	-0.07	0.52	2.79	24.082
Week 2	13-05-2024	11:41:41	17.653	96.6	7.44	53798	8.19	170.5	-0.08	0.51	2.77	22.984
Week 2	13-05-2024	11:41:42	17.661	96.7	7.44	53796	8.19	170.5	-0.08	0.5	2.72	22.389
Week 2	13-05-2024	11:41:43	17.669	96.7	7.44	53795	8.19	170.5	-0.08	0.5	2.71	21.746
Week 2	13-05-2024	11:41:44	17.678	96.7	7.45	53794	8.19	170.5	-0.09	0.49	2.69	21.413
Week 2	13-05-2024	11:41:45	17.689	96.8	7.45	53793	8.19	170.5	-0.09	0.48	2.67	21.421
Week 2	13-05-2024	11:41:46	17.7	96.8	7.45	53791	8.19	170.5	-0.08	0.49	2.68	21.448
Week 2	13-05-2024	11:41:47	17.712	96.9	7.45	53790	8.19	170.5	-0.08	0.5	2.72	21.425
Week 2	13-05-2024	11:41:48	17.722	96.9	7.45	53789	8.19	170.5	-0.09	0.49	2.7	21.314
Week 2	13-05-2024	11:41:49	17.734	97	7.46	53787	8.19	170.4	-0.09	0.49	2.7	19.941
Week 2	13-05-2024	11:41:50	17.742	97	7.46	53786	8.19	170.4	-0.11	0.47	2.63	19.417
Week 2	13-05-2024	11:41:51	17.75	97	7.46	53785	8.19	170.4	-0.11	0.46	2.58	18.895
Week 2	13-05-2024	11:41:52	17.756	97.1	7.46	53783	8.19	170.4	-0.11	0.47	2.61	18.795
Week 2	13-05-2024	11:41:53	17.76	97.1	7.46	53782	8.2	170.4	-0.11	0.47	2.63	18.532
Week 2	13-05-2024	11:41:54	17.764	97.2	7.47	53781	8.2	170.4	-0.1	0.48	2.65	17.39

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 2	13-05-2024	11:41:55	17.767	97.2	7.47	53781	8.2	170.4	-0.09	0.5	2.73	16.828
Week 2	13-05-2024	11:41:56	17.77	97.2	7.47	53781	8.2	170.4	-0.09	0.51	2.77	16.156
Week 2	13-05-2024	11:41:57	17.772	97.3	7.47	53781	8.2	170.4	-0.09	0.51	2.78	15.732
Week 2	13-05-2024	11:41:58	17.774	97.3	7.48	53780	8.2	170.4	-0.09	0.52	2.79	15.476
Week 2	13-05-2024	11:41:59	17.776	97.4	7.48	53780	8.2	170.4	-0.09	0.53	2.84	15.109
Week 2	13-05-2024	11:42:00	17.778	97.4	7.48	53780	8.2	170.3	-0.09	0.54	2.86	14.83
Week 2	13-05-2024	11:42:01	17.78	97.5	7.49	53779	8.2	170.3	-0.09	0.55	2.89	13.5
Week 2	13-05-2024	11:42:02	17.782	97.5	7.49	53779	8.2	170.3	-0.09	0.54	2.86	12.994
Week 2	13-05-2024	11:42:03	17.784	97.5	7.49	53778	8.2	170.3	-0.09	0.52	2.81	12.375
Week 2	13-05-2024	11:42:04	17.785	97.6	7.5	53778	8.2	170.3	-0.08	0.53	2.83	12.303
Week 2	13-05-2024	11:42:05	17.787	97.6	7.5	53777	8.2	170.3	-0.08	0.52	2.79	12.061
Week 2	13-05-2024	11:42:06	17.788	97.7	7.5	53777	8.2	170.3	-0.09	0.5	2.72	11.831
Week 2	13-05-2024	11:42:07	17.79	97.7	7.51	53777	8.2	170.3	-0.09	0.49	2.68	10.823
Week 2	13-05-2024	11:42:08	17.792	97.8	7.51	53777	8.2	170.3	-0.09	0.46	2.57	10.144
Week 2	13-05-2024	11:42:09	17.793	97.8	7.51	53776	8.2	170.2	-0.1	0.44	2.52	9.563
Week 2	13-05-2024	11:42:10	17.796	97.9	7.52	53775	8.2	170.2	-0.1	0.42	2.42	9.109
Week 2	13-05-2024	11:42:11	17.797	97.9	7.52	53775	8.2	170.2	-0.11	0.39	2.33	8.955
Week 2	13-05-2024	11:42:12	17.799	98	7.52	53774	8.2	170.2	-0.11	0.38	2.29	8.592
Week 2	13-05-2024	11:42:13	17.801	98	7.53	53773	8.2	170.2	-0.12	0.37	2.27	7.406
Week 2	13-05-2024	11:42:14	17.803	98	7.53	53773	8.2	170.2	-0.12	0.35	2.19	6.835
Week 2	13-05-2024	11:42:15	17.805	98.1	7.53	53772	8.2	170.2	-0.13	0.31	2.05	6.168
Week 2	13-05-2024	11:42:16	17.807	98.1	7.53	53771	8.2	170.2	-0.12	0.29	1.98	5.744
Week 2	13-05-2024	11:42:17	17.809	98.2	7.54	53770	8.2	170.2	-0.12	0.28	1.94	5.416
Week 2	13-05-2024	11:42:18	17.812	98.2	7.54	53769	8.2	170.2	-0.12	0.28	1.92	4.07
Week 2	13-05-2024	11:42:19	17.815	98.2	7.54	53768	8.2	170.2	-0.12	0.27	1.91	3.641
Week 2	13-05-2024	11:42:20	17.818	98.3	7.55	53767	8.2	170.1	-0.13	0.25	1.83	3.096
Week 2	13-05-2024	11:42:21	17.82	98.3	7.55	53766	8.2	170.1	-0.12	0.24	1.78	2.969
Week 2	13-05-2024	11:42:22	17.823	98.4	7.55	53765	8.2	170.1	-0.13	0.24	1.79	2.703
Week 2	13-05-2024	11:42:23	17.826	98.4	7.55	53764	8.2	170.1	-0.13	0.21	1.69	2.449
Week 2	13-05-2024	11:42:24	17.828	98.5	7.56	53762	8.2	170.1	-0.13	0.2	1.64	1.297
Week 2	13-05-2024	11:42:25	17.831	98.5	7.56	53762	8.2	170.1	-0.12	0.19	1.62	0.954
Week 2	13-05-2024	11:42:26	17.834	98.5	7.56	53761	8.2	170.1	-0.12	0.21	1.68	0.749
Week 2	13-05-2024	11:42:27	17.838	98.6	7.57	53760	8.2	170.1	-0.12	0.21	1.67	0.671
Week 2	13-05-2024	11:42:28	17.842	98.6	7.57	53759	8.2	170.1	-0.12	0.2	1.64	0.592
Week 3	22-05-2024	11:42:49	17.518	95.5	9.13	53502	8.17	195.1	0.25	0.84	3.98	0.017
Week 3	22-05-2024	11:42:50	17.517	95.6	7.39	53799	8.19	195.2	0.24	0.82	3.9	0.018
Week 3	22-05-2024	11:42:51	17.518	95.7	7.39	53796	8.19	195.2	0.03	0.8	3.83	0.026
Week 3	22-05-2024	11:42:52	17.519	95.9	7.4	53801	8.2	195.1	0.06	0.8	3.82	0.036
Week 3	22-05-2024	11:42:53	17.521	96	7.41	53813	8.2	195	0.05	0.78	3.76	0.74
Week 3	22-05-2024	11:42:54	17.526	96.2	7.42	53813	8.2	195	0.02	0.75	3.63	0.558
Week 3	22-05-2024	11:42:55	17.536	96.4	7.44	53802	8.2	194.9	0.03	0.76	3.68	0.463
Week 3	22-05-2024	11:42:56	17.549	96.5	7.45	53789	8.2	194.9	0.03	0.78	3.75	0.536
Week 3	22-05-2024	11:42:57	17.563	96.7	7.46	53771	8.2	194.9	0.02	0.34	2.14	0.532
Week 3	22-05-2024	11:42:58	17.583	96.9	7.48	53752	8.2	194.9	0.02	0.27	1.89	0.495
Week 3	22-05-2024	11:42:59	17.604	97.2	7.49	53725	8.2	194.9	0.03	0.27	1.89	0.524
Week 3	22-05-2024	11:43:00	17.629	97.4	7.51	53700	8.2	194.9	0.01	0.28	1.91	0.539
Week 3	22-05-2024	11:43:01	17.643	97.5	7.51	53680	8.2	194.9	0.02	0.26	1.87	0.56
Week 3	22-05-2024	11:43:02	17.645	97.5	7.51	53679	8.2	194.8	0.02	0.27	1.88	0.626
Week 3	22-05-2024	11:43:03	17.645	97.5	7.51	53680	8.2	194.7	0.01	0.27	1.9	0.711
Week 3	22-05-2024	11:43:04	17.645	97.4	7.51	53680	8.2	194.6	0	0.28	1.92	0.778
Week 3	22-05-2024	11:43:05	17.645	97.4	7.51	53681	8.2	194.5	0	0.28	1.95	0.852
Week 3	22-05-2024	11:43:06	17.645	97.4	7.51	53683	8.2	194.4	0	0.27	1.88	0.915
Week 3	22-05-2024	11:43:07	17.645	97.4	7.5	53684	8.2	194.3	0	0.26	1.87	0.982
Week 3	22-05-2024	11:43:08	17.645	97.4	7.5	53685	8.2	194.2	-0.01	0.26	1.86	1.03
Week 3	22-05-2024	11:43:09	17.645	97.4	7.5	53687	8.2	194.1	-0.01	0.26	1.86	1.762
Week 3	22-05-2024	11:43:10	17.644	97.4	7.5	53688	8.2	194.1	-0.01	0.26	1.86	1.722
Week 3	22-05-2024	11:43:11	17.644	97.4	7.5	53689	8.2	194	-0.03	0.24	1.8	2.095
Week 3	22-05-2024	11:43:12	17.644	97.3	7.5	53690	8.21	193.9	-0.03	0.24	1.78	2.052
Week 3	22-05-2024	11:43:13	17.644	97.3	7.5	53691	8.21	193.8	-0.03	0.23	1.77	2.033
Week 3	22-05-2024	11:43:14	17.644	97.3	7.5	53692	8.21	193.7	-0.03	0.24	1.77	2.158
Week 3	22-05-2024	11:43:15	17.643	97.3	7.5	53692	8.21	193.6	-0.03	0.23	1.76	2.233
Week 3	22-05-2024	11:43:16	17.643	97.3	7.5	53693	8.21	193.5	-0.03	0.23	1.75	2.309
Week 3	22-05-2024	11:43:17	17.643	97.3	7.5	53694	8.21	193.5	-0.03	0.23	1.76	2.357
Week 3	22-05-2024	11:43:18	17.643	97.3	7.5	53694	8.21	193.4	-0.03	0.22	1.71	2.387
Week 3	22-05-2024	11:43:19	17.642	97.3	7.5	53695	8.21	193.3	-0.02	0.23	1.74	2.437
Week 3	22-05-2024	11:43:20	17.642	97.3	7.5	53696	8.21	193.2	-0.02	0.23	1.74	2.501
Week 3	22-05-2024	11:43:21	17.642	97.3	7.49	53696	8.21	193.2	-0.02	0.23	1.74	2.546
Week 3	22-05-2024	11:43:22	17.641	97.3	7.49	53697	8.21	193.1	-0.01	0.24	1.79	3.485

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 3	22-05-2024	11:43:23	17.641	97.3	7.49	53697	8.21	193	-0.01	0.24	1.78	3.407
Week 3	22-05-2024	11:43:24	17.641	97.2	7.49	53697	8.21	193	-0.01	0.25	1.81	3.741
Week 3	22-05-2024	11:43:25	17.64	97.2	7.49	53698	8.21	192.9	-0.01	0.24	1.78	3.788
Week 3	22-05-2024	11:43:26	17.64	97.2	7.49	53698	8.21	192.9	0	0.25	1.83	3.806
Week 3	22-05-2024	11:43:27	17.639	97.2	7.49	53699	8.21	192.8	0	0.27	1.88	3.849
Week 3	22-05-2024	11:43:28	17.639	97.2	7.49	53700	8.21	192.8	0.01	0.27	1.91	3.918
Week 3	22-05-2024	11:43:29	17.639	97.2	7.49	53700	8.21	192.7	0.01	0.27	1.89	3.952
Week 3	22-05-2024	11:43:30	17.639	97.2	7.49	53700	8.21	192.6	0	0.26	1.87	3.986
Week 3	22-05-2024	11:43:31	17.639	97.2	7.49	53700	8.21	192.6	-0.01	0.26	1.86	4.024
Week 3	22-05-2024	11:43:32	17.639	97.2	7.49	53700	8.21	192.5	-0.01	0.27	1.9	4.057
Week 3	22-05-2024	11:43:33	17.639	97.2	7.49	53701	8.21	192.5	-0.02	0.28	1.92	4.104
Week 3	22-05-2024	11:43:34	17.639	97.2	7.49	53701	8.21	192.4	-0.01	0.29	1.98	4.147
Week 3	22-05-2024	11:43:35	17.639	97.2	7.49	53701	8.21	192.4	-0.02	0.28	1.94	4.186
Week 3	22-05-2024	11:43:36	17.639	97.2	7.49	53702	8.21	192.3	-0.01	0.28	1.95	4.237
Week 3	22-05-2024	11:43:37	17.639	97.2	7.49	53702	8.21	192.3	-0.02	0.28	1.93	4.292
Week 3	22-05-2024	11:43:38	17.639	97.2	7.49	53702	8.21	192.2	-0.03	0.27	1.9	5.396
Week 3	22-05-2024	11:43:39	17.64	97.2	7.49	53702	8.21	192.2	-0.02	0.27	1.91	5.158
Week 3	22-05-2024	11:43:40	17.64	97.2	7.49	53702	8.21	192.1	-0.02	0.29	1.97	5.334
Week 3	22-05-2024	11:43:41	17.64	97.2	7.49	53702	8.21	192.1	-0.02	0.3	2.01	5.488
Week 3	22-05-2024	11:43:42	17.641	97.2	7.49	53702	8.21	192.1	-0.03	0.3	2.01	5.606
Week 3	22-05-2024	11:43:43	17.641	97.2	7.48	53702	8.21	192	-0.02	0.31	2.03	5.716
Week 3	22-05-2024	11:43:44	17.641	97.1	7.48	53703	8.21	192	-0.03	0.31	2.05	5.838
Week 3	22-05-2024	11:43:45	17.641	97.1	7.48	53703	8.21	191.9	-0.02	0.3	2.02	5.949
Week 3	22-05-2024	11:43:46	17.641	97.1	7.48	53703	8.21	191.9	-0.01	0.33	2.1	6.056
Week 3	22-05-2024	11:43:47	17.641	97.1	7.48	53703	8.21	191.8	0	0.34	2.15	6.121
Week 3	22-05-2024	11:43:48	17.641	97.1	7.48	53703	8.21	191.8	0	0.34	2.14	6.175
Week 3	22-05-2024	11:43:49	17.641	97.1	7.48	53704	8.21	191.8	0.01	0.36	2.21	6.216
Week 3	22-05-2024	11:43:50	17.641	97.1	7.48	53704	8.21	191.7	0	0.39	2.32	6.271
Week 3	22-05-2024	11:43:51	17.641	97.1	7.48	53704	8.21	191.7	0	0.38	2.31	7.155
Week 3	22-05-2024	11:43:52	17.64	97.1	7.48	53704	8.21	191.6	0.01	0.39	2.33	7.444
Week 3	22-05-2024	11:43:53	17.64	97.1	7.48	53704	8.21	191.6	0.02	0.4	2.35	7.722
Week 3	22-05-2024	11:43:54	17.64	97.1	7.48	53705	8.21	191.6	0.02	0.4	2.38	7.767
Week 3	22-05-2024	11:43:55	17.64	97.1	7.48	53705	8.21	191.5	0.02	0.4	2.35	7.711
Week 3	22-05-2024	11:43:56	17.64	97.1	7.48	53706	8.21	191.5	0.01	0.4	2.38	7.717
Week 3	22-05-2024	11:43:57	17.64	97.1	7.48	53706	8.21	191.4	0.01	0.42	2.43	7.727
Week 3	22-05-2024	11:43:58	17.64	97.1	7.48	53706	8.21	191.4	0	0.42	2.45	7.794
Week 3	22-05-2024	11:43:59	17.639	97.1	7.48	53706	8.21	191.4	0.02	0.43	2.48	7.866
Week 3	22-05-2024	11:44:00	17.639	97	7.48	53707	8.21	191.3	0.02	0.43	2.47	7.938
Week 3	22-05-2024	11:44:01	17.638	97	7.48	53707	8.21	191.3	0.02	0.42	2.42	8.019
Week 3	22-05-2024	11:44:02	17.638	97	7.48	53707	8.21	191.3	0.01	0.43	2.47	8.096
Week 3	22-05-2024	11:44:03	17.638	97	7.47	53707	8.21	191.2	0.01	0.42	2.45	8.162
Week 3	22-05-2024	11:44:04	17.637	97	7.47	53708	8.21	191.2	0.01	0.43	2.46	8.214
Week 3	22-05-2024	11:44:05	17.637	97	7.47	53708	8.21	191.2	0.01	0.42	2.45	8.967
Week 3	22-05-2024	11:44:06	17.637	97	7.47	53708	8.21	191.1	0.01	0.44	2.51	9.081
Week 3	22-05-2024	11:44:07	17.636	97	7.47	53708	8.21	191.1	0.01	0.43	2.47	9.234
Week 3	22-05-2024	11:44:08	17.636	97	7.47	53708	8.21	191.1	0	0.43	2.49	9.178
Week 3	22-05-2024	11:44:09	17.636	96.9	7.47	53708	8.21	191	-0.01	0.43	2.47	9.195
Week 3	22-05-2024	11:44:10	17.636	96.9	7.47	53708	8.21	191	-0.02	0.42	2.45	9.291
Week 3	22-05-2024	11:44:11	17.635	96.9	7.47	53708	8.21	191	0	0.44	2.49	9.361
Week 3	22-05-2024	11:44:12	17.635	96.9	7.47	53708	8.21	191	0	0.43	2.48	9.452
Week 3	22-05-2024	11:44:13	17.635	96.9	7.47	53708	8.21	190.9	-0.01	0.43	2.49	10.254
Week 3	22-05-2024	11:44:14	17.636	96.9	7.47	53708	8.21	190.9	-0.02	0.45	2.56	10.335
Week 3	22-05-2024	11:44:15	17.636	96.9	7.47	53709	8.21	190.9	-0.03	0.45	2.56	10.294
Week 3	22-05-2024	11:44:16	17.636	96.9	7.47	53709	8.21	190.8	-0.02	0.46	2.59	10.209
Week 3	22-05-2024	11:44:17	17.636	96.9	7.46	53709	8.21	190.8	-0.01	0.46	2.59	10.271
Week 3	22-05-2024	11:44:18	17.636	96.9	7.46	53709	8.21	190.8	-0.01	0.48	2.67	10.399
Week 3	22-05-2024	11:44:19	17.636	96.9	7.46	53708	8.21	190.8	-0.01	0.48	2.67	10.506
Week 3	22-05-2024	11:44:20	17.636	96.9	7.46	53708	8.21	190.7	0	0.5	2.73	10.633
Week 3	22-05-2024	11:44:21	17.636	96.8	7.46	53709	8.21	190.7	-0.01	0.51	2.76	10.737
Week 3	22-05-2024	11:44:22	17.636	96.8	7.46	53709	8.21	190.7	0	0.51	2.76	10.838
Week 3	22-05-2024	11:44:23	17.637	96.8	7.46	53709	8.21	190.7	0.01	0.52	2.79	10.923
Week 3	22-05-2024	11:44:24	17.637	96.8	7.46	53709	8.21	190.6	0.02	0.52	2.79	11.011
Week 3	22-05-2024	11:44:25	17.637	96.8	7.46	53709	8.21	190.6	0.03	0.52	2.8	11.077
Week 3	22-05-2024	11:44:26	17.637	96.8	7.46	53709	8.21	190.6	0.03	0.52	2.82	11.135
Week 3	22-05-2024	11:44:27	17.636	96.8	7.46	53709	8.21	190.6	0.03	0.54	2.86	12.053
Week 3	22-05-2024	11:44:28	17.636	96.8	7.46	53709	8.21	190.5	0.03	0.53	2.83	12.175
Week 3	22-05-2024	11:44:29	17.635	96.8	7.46	53710	8.21	190.5	0.03	0.52	2.8	12.256
Week 3	22-05-2024	11:44:30	17.634	96.8	7.46	53710	8.21	190.5	0.02	0.53	2.82	12.263

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 3	22-05-2024	11:44:31	17.634	96.8	7.46	53710	8.21	190.5	0.02	0.51	2.76	12.292
Week 3	22-05-2024	11:44:32	17.633	96.7	7.45	53711	8.21	190.4	0	0.51	2.77	12.414
Week 3	22-05-2024	11:44:33	17.632	96.7	7.45	53711	8.21	190.4	0	0.51	2.77	12.502
Week 3	22-05-2024	11:44:34	17.631	96.7	7.45	53711	8.21	190.4	0	0.52	2.8	12.559
Week 3	22-05-2024	11:44:35	17.63	96.7	7.45	53711	8.21	190.4	-0.01	0.53	2.85	12.633
Week 3	22-05-2024	11:44:36	17.63	96.7	7.45	53712	8.21	190.3	-0.01	0.53	2.84	12.688
Week 3	22-05-2024	11:44:37	17.629	96.7	7.45	53712	8.21	190.3	-0.02	0.53	2.84	12.736
Week 3	22-05-2024	11:44:38	17.628	96.7	7.45	53712	8.21	190.3	-0.02	0.52	2.81	12.759
Week 3	22-05-2024	11:44:39	17.627	96.7	7.45	53712	8.21	190.3	-0.03	0.52	2.81	13.462
Week 3	22-05-2024	11:44:40	17.627	96.6	7.45	53712	8.21	190.2	-0.03	0.52	2.82	13.508
Week 3	22-05-2024	11:44:41	17.626	96.6	7.45	53712	8.21	190.2	-0.04	0.52	2.79	13.839
Week 3	22-05-2024	11:44:42	17.624	96.6	7.45	53711	8.21	190.2	-0.04	0.54	2.86	13.918
Week 3	22-05-2024	11:44:43	17.622	96.6	7.44	53711	8.21	190.2	-0.04	0.55	2.9	13.997
Week 3	22-05-2024	11:44:44	17.62	96.6	7.44	53712	8.21	190.1	-0.03	0.55	2.9	14.074
Week 3	22-05-2024	11:44:45	17.618	96.6	7.44	53711	8.21	190.1	-0.03	0.56	2.95	14.119
Week 3	22-05-2024	11:44:46	17.616	96.6	7.44	53711	8.21	190.1	-0.02	0.55	2.92	14.121
Week 3	22-05-2024	11:44:47	17.614	96.5	7.44	53711	8.21	190	-0.02	0.56	2.93	14.133
Week 3	22-05-2024	11:44:48	17.612	96.5	7.44	53711	8.21	190	-0.01	0.58	3.01	14.168
Week 3	22-05-2024	11:44:49	17.61	96.5	7.44	53711	8.21	189.9	0	0.58	3	14.23
Week 3	22-05-2024	11:44:50	17.608	96.5	7.44	53710	8.21	189.9	0	0.58	3.04	14.284
Week 3	22-05-2024	11:44:51	17.606	96.5	7.44	53711	8.21	189.9	0.01	0.58	3.02	14.971
Week 3	22-05-2024	11:44:52	17.604	96.5	7.44	53711	8.21	189.8	0.02	0.59	3.05	14.787
Week 3	22-05-2024	11:44:53	17.602	96.5	7.44	53711	8.21	189.8	0.02	0.58	3.01	15.169
Week 3	22-05-2024	11:44:54	17.601	96.4	7.44	53711	8.21	189.7	0.01	0.58	3.01	15.127
Week 3	22-05-2024	11:44:55	17.6	96.4	7.43	53711	8.21	189.7	0.02	0.59	3.05	15.179
Week 3	22-05-2024	11:44:56	17.6	96.4	7.43	53711	8.21	189.7	0.01	0.58	3.02	15.308
Week 3	22-05-2024	11:44:57	17.599	96.4	7.43	53711	8.21	189.6	0.01	0.59	3.05	15.414
Week 3	22-05-2024	11:44:58	17.599	96.4	7.43	53711	8.21	189.6	0.02	0.59	3.07	15.451
Week 3	22-05-2024	11:44:59	17.598	96.4	7.43	53711	8.21	189.5	0.02	0.57	2.99	15.504
Week 3	22-05-2024	11:45:00	17.598	96.4	7.43	53711	8.21	189.5	0.02	0.59	3.06	15.558
Week 3	22-05-2024	11:45:01	17.598	96.4	7.43	53711	8.21	189.4	0.01	0.6	3.11	15.611
Week 3	22-05-2024	11:45:02	17.597	96.4	7.43	53712	8.22	189.4	0.02	0.62	3.16	16.451
Week 3	22-05-2024	11:45:03	17.597	96.4	7.43	53712	8.22	189.4	0.02	0.62	3.17	16.654
Week 3	22-05-2024	11:45:04	17.596	96.4	7.43	53712	8.22	189.3	0.01	0.64	3.23	16.722
Week 3	22-05-2024	11:45:05	17.595	96.4	7.43	53712	8.22	189.3	0	0.63	3.21	16.658
Week 3	22-05-2024	11:45:06	17.595	96.4	7.43	53712	8.22	189.3	0	0.62	3.17	16.738
Week 3	22-05-2024	11:45:07	17.594	96.4	7.43	53712	8.22	189.2	0	0.62	3.18	16.721
Week 3	22-05-2024	11:45:08	17.594	96.3	7.43	53712	8.22	189.2	0.01	0.61	3.12	16.726
Week 3	22-05-2024	11:45:09	17.593	96.3	7.43	53712	8.22	189.2	0.01	0.62	3.15	16.759
Week 3	22-05-2024	11:45:10	17.593	96.3	7.43	53712	8.22	189.1	0.01	0.63	3.2	16.806
Week 3	22-05-2024	11:45:11	17.592	96.3	7.43	53712	8.22	189.1	0.01	0.63	3.21	16.888
Week 3	22-05-2024	11:45:12	17.591	96.3	7.43	53712	8.22	189.1	0.01	0.62	3.18	16.961
Week 3	22-05-2024	11:45:13	17.59	96.3	7.43	53712	8.22	189.1	0	0.62	3.17	17.024
Week 3	22-05-2024	11:45:14	17.59	96.3	7.43	53712	8.22	189	0	0.61	3.13	17.716
Week 3	22-05-2024	11:45:15	17.589	96.3	7.43	53712	8.22	189	0	0.61	3.12	17.678
Week 3	22-05-2024	11:45:16	17.588	96.3	7.43	53712	8.22	189	0.01	0.59	3.07	17.937
Week 3	22-05-2024	11:45:17	17.588	96.3	7.43	53712	8.22	189	0.02	0.6	3.08	17.989
Week 3	22-05-2024	11:45:18	17.587	96.3	7.43	53712	8.22	189	0.01	0.6	3.07	17.981
Week 3	22-05-2024	11:45:19	17.587	96.3	7.43	53712	8.22	189	0.01	0.6	3.08	18.003
Week 3	22-05-2024	11:45:20	17.586	96.3	7.43	53712	8.22	188.9	0	0.6	3.08	18.066
Week 3	22-05-2024	11:45:21	17.586	96.3	7.43	53712	8.22	188.9	0	0.59	3.04	18.188
Week 3	22-05-2024	11:45:22	17.585	96.3	7.43	53712	8.22	188.9	0	0.57	2.99	18.288
Week 3	22-05-2024	11:45:23	17.585	96.3	7.43	53712	8.22	188.9	-0.01	0.57	2.97	18.367
Week 3	22-05-2024	11:45:24	17.584	96.3	7.43	53712	8.22	188.9	0	0.56	2.95	18.432
Week 3	22-05-2024	11:45:25	17.583	96.3	7.43	53712	8.22	188.8	0.01	0.57	2.98	18.493
Week 3	22-05-2024	11:45:26	17.583	96.3	7.43	53712	8.22	188.8	0	0.57	2.98	19.263
Week 3	22-05-2024	11:45:27	17.582	96.3	7.43	53712	8.22	188.8	0	0.57	2.99	19.373
Week 3	22-05-2024	11:45:28	17.581	96.3	7.43	53712	8.22	188.8	0	0.56	2.94	19.707
Week 3	22-05-2024	11:45:29	17.579	96.3	7.43	53712	8.22	188.8	-0.01	0.55	2.92	19.909
Week 3	22-05-2024	11:45:30	17.578	96.3	7.43	53712	8.22	188.8	-0.01	0.55	2.92	19.952
Week 3	22-05-2024	11:45:31	17.576	96.3	7.43	53712	8.22	188.7	-0.01	0.55	2.9	20.024
Week 3	22-05-2024	11:45:32	17.575	96.3	7.43	53712	8.22	188.7	-0.02	0.55	2.9	20.055
Week 3	22-05-2024	11:45:33	17.573	96.3	7.43	53712	8.22	188.7	-0.02	0.54	2.88	20.102
Week 3	22-05-2024	11:45:34	17.571	96.3	7.43	53712	8.22	188.7	-0.02	0.55	2.9	20.129
Week 3	22-05-2024	11:45:35	17.57	96.3	7.43	53713	8.22	188.7	-0.02	0.54	2.89	20.188
Week 3	22-05-2024	11:45:36	17.568	96.3	7.43	53713	8.22	188.6	-0.02	0.53	2.82	20.254
Week 3	22-05-2024	11:45:37	17.566	96.3	7.43	53714	8.22	188.6	-0.02	0.52	2.8	21.145
Week 3	22-05-2024	11:45:38	17.564	96.3	7.43	53714	8.22	188.6	-0.03	0.53	2.82	20.962

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 3	22-05-2024	11:45:39	17.562	96.3	7.43	53714	8.22	188.6	-0.04	0.52	2.79	21.269
Week 3	22-05-2024	11:45:40	17.56	96.3	7.43	53714	8.22	188.6	-0.04	0.52	2.8	21.587
Week 3	22-05-2024	11:45:41	17.558	96.3	7.43	53714	8.22	188.6	-0.03	0.52	2.82	21.681
Week 3	22-05-2024	11:45:42	17.556	96.3	7.43	53714	8.22	188.5	-0.03	0.52	2.82	21.771
Week 3	22-05-2024	11:45:43	17.553	96.3	7.43	53715	8.22	188.5	-0.02	0.52	2.81	21.887
Week 3	22-05-2024	11:45:44	17.55	96.3	7.43	53715	8.22	188.5	-0.01	0.52	2.82	21.91
Week 3	22-05-2024	11:45:45	17.548	96.3	7.43	53715	8.22	188.5	-0.01	0.52	2.81	21.935
Week 3	22-05-2024	11:45:46	17.546	96.3	7.43	53715	8.22	188.5	-0.01	0.52	2.79	21.994
Week 3	22-05-2024	11:45:47	17.543	96.3	7.43	53716	8.22	188.4	0	0.51	2.76	22.064
Week 3	22-05-2024	11:45:48	17.54	96.3	7.43	53716	8.22	188.4	-0.01	0.5	2.73	23.042
Week 3	22-05-2024	11:45:49	17.538	96.3	7.43	53716	8.22	188.4	0	0.5	2.72	23.171
Week 3	22-05-2024	11:45:50	17.535	96.3	7.43	53716	8.22	188.4	0.01	0.5	2.72	23.413
Week 3	22-05-2024	11:45:51	17.532	96.3	7.43	53716	8.22	188.4	0.02	0.48	2.66	23.402
Week 3	22-05-2024	11:45:52	17.529	96.3	7.43	53716	8.22	188.4	0.02	0.48	2.65	23.332
Week 3	22-05-2024	11:45:53	17.527	96.3	7.44	53716	8.22	188.3	0.03	0.47	2.62	23.362
Week 3	22-05-2024	11:45:54	17.525	96.3	7.44	53717	8.22	188.3	0.03	0.47	2.61	23.364
Week 3	22-05-2024	11:45:55	17.523	96.3	7.44	53717	8.22	188.3	0.03	0.47	2.62	23.36
Week 3	22-05-2024	11:45:56	17.522	96.3	7.44	53716	8.22	188.3	0.02	0.45	2.56	23.427
Week 3	22-05-2024	11:45:57	17.52	96.4	7.44	53716	8.22	188.3	0.02	0.44	2.5	23.509
Week 3	22-05-2024	11:45:58	17.518	96.4	7.44	53716	8.22	188.2	0.02	0.44	2.53	24.758
Week 3	22-05-2024	11:45:59	17.516	96.4	7.44	53717	8.22	188.2	0.02	0.44	2.53	24.768
Week 3	22-05-2024	11:46:00	17.515	96.4	7.44	53716	8.22	188.2	0.02	0.43	2.48	24.724
Week 3	22-05-2024	11:46:01	17.513	96.4	7.44	53716	8.22	188.2	0.03	0.43	2.47	24.681
Week 3	22-05-2024	11:46:02	17.512	96.4	7.45	53716	8.22	188.2	0.03	0.45	2.54	24.731
Week 3	22-05-2024	11:46:03	17.511	96.4	7.45	53716	8.22	188.2	0.04	0.44	2.49	24.811
Week 3	22-05-2024	11:46:04	17.51	96.4	7.45	53716	8.22	188.1	0.04	0.41	2.41	24.904
Week 3	22-05-2024	11:46:05	17.51	96.5	7.45	53716	8.22	188.1	0.04	0.4	2.37	25.048
Week 3	22-05-2024	11:46:06	17.509	96.5	7.45	53716	8.22	188.1	0.04	0.4	2.36	25.154
Week 3	22-05-2024	11:46:07	17.508	96.5	7.45	53716	8.22	188.1	0.05	0.4	2.37	26.074
Week 3	22-05-2024	11:46:08	17.508	96.5	7.45	53716	8.22	188.1	0.06	0.41	2.42	26.142
Week 3	22-05-2024	11:46:09	17.507	96.5	7.45	53716	8.22	188	0.06	0.41	2.41	26.321
Week 3	22-05-2024	11:46:10	17.507	96.5	7.45	53716	8.22	188	0.07	0.42	2.44	26.354
Week 3	22-05-2024	11:46:11	17.507	96.5	7.45	53716	8.22	188	0.08	0.43	2.47	26.458
Week 3	22-05-2024	11:46:12	17.506	96.5	7.45	53716	8.22	188	0.09	0.43	2.46	26.572
Week 3	22-05-2024	11:46:13	17.506	96.5	7.45	53716	8.22	188	0.09	0.41	2.39	26.69
Week 3	22-05-2024	11:46:14	17.506	96.5	7.45	53717	8.22	188	0.12	0.42	2.45	26.783
Week 3	22-05-2024	11:46:15	17.506	96.5	7.46	53717	8.22	187.9	0.52	0.46	2.58	26.865
Week 3	22-05-2024	11:46:16	17.507	96.5	7.45	53717	8.22	187.9	1.23	0.49	2.69	26.933
Week 3	22-05-2024	11:46:17	17.507	96.5	7.45	53717	8.22	187.9	1.41	0.55	2.9	26.974
Week 3	22-05-2024	11:46:18	17.507	96.5	7.45	53717	8.22	187.9	1.45	0.55	2.92	26.973
Week 3	22-05-2024	11:46:19	17.507	96.5	7.46	53717	8.22	187.9	1.44	0.55	2.92	26.917
Week 3	22-05-2024	11:46:20	17.507	96.5	7.46	53717	8.22	187.9	1.53	0.58	3.02	26.001
Week 3	22-05-2024	11:46:21	17.507	96.5	7.46	53717	8.22	187.8	1.54	0.58	3.02	25.719
Week 3	22-05-2024	11:46:22	17.507	96.5	7.46	53717	8.22	187.8	1.54	0.58	3.02	25.457
Week 3	22-05-2024	11:46:23	17.507	96.5	7.46	53717	8.22	187.8	1.55	0.59	3.07	25.352
Week 3	22-05-2024	11:46:24	17.507	96.6	7.46	53717	8.22	187.8	1.55	0.62	3.16	25.122
Week 3	22-05-2024	11:46:25	17.507	96.6	7.46	53717	8.22	187.8	1.56	0.64	3.24	24.847
Week 3	22-05-2024	11:46:26	17.507	96.6	7.46	53717	8.22	187.7	1.56	0.62	3.17	24.696
Week 3	22-05-2024	11:46:27	17.507	96.6	7.46	53717	8.22	187.7	1.56	0.58	3.02	24.59
Week 3	22-05-2024	11:46:28	17.507	96.6	7.46	53716	8.22	187.7	1.56	0.56	2.94	23.638
Week 3	22-05-2024	11:46:29	17.508	96.6	7.46	53716	8.22	187.7	1.27	0.57	2.98	23.414
Week 3	22-05-2024	11:46:30	17.508	96.6	7.46	53716	8.22	187.7	0.69	0.58	3.03	23.217
Week 3	22-05-2024	11:46:31	17.508	96.6	7.46	53716	8.22	187.7	0.23	0.58	3	23.295
Week 3	22-05-2024	11:46:32	17.509	96.7	7.46	53716	8.22	187.7	0.18	0.57	2.99	23.306
Week 3	22-05-2024	11:46:33	17.509	96.7	7.47	53716	8.22	187.6	0.16	0.57	2.97	23.101
Week 3	22-05-2024	11:46:34	17.51	96.7	7.47	53715	8.22	187.6	0.15	0.58	3.01	22.922
Week 3	22-05-2024	11:46:35	17.511	96.7	7.47	53715	8.22	187.6	0.1	0.56	2.95	22.797
Week 3	22-05-2024	11:46:36	17.512	96.7	7.47	53715	8.22	187.6	0.09	0.54	2.87	21.858
Week 3	22-05-2024	11:46:37	17.513	96.7	7.47	53714	8.22	187.6	0.08	0.54	2.86	21.611
Week 3	22-05-2024	11:46:38	17.515	96.7	7.47	53714	8.22	187.6	0.07	0.53	2.84	21.301
Week 3	22-05-2024	11:46:39	17.518	96.7	7.47	53714	8.22	187.6	0.06	0.52	2.79	21.329
Week 3	22-05-2024	11:46:40	17.52	96.7	7.47	53714	8.22	187.5	0.05	0.52	2.8	21.299
Week 3	22-05-2024	11:46:41	17.522	96.8	7.47	53714	8.22	187.5	0.04	0.51	2.77	21.217
Week 3	22-05-2024	11:46:42	17.525	96.8	7.47	53714	8.22	187.5	0.04	0.52	2.8	20.397
Week 3	22-05-2024	11:46:43	17.528	96.8	7.47	53714	8.22	187.5	0.04	0.53	2.84	20.237
Week 3	22-05-2024	11:46:44	17.531	96.8	7.47	53714	8.22	187.5	0.04	0.54	2.89	20.034
Week 3	22-05-2024	11:46:45	17.534	96.8	7.47	53714	8.22	187.5	0.04	0.53	2.85	20.045
Week 3	22-05-2024	11:46:46	17.538	96.8	7.47	53714	8.22	187.5	0.03	0.56	2.94	19.934

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 3	22-05-2024	11:46:47	17.541	96.8	7.47	53714	8.22	187.4	0.03	0.57	2.99	19.744
Week 3	22-05-2024	11:46:48	17.544	96.8	7.47	53714	8.22	187.4	0.03	0.58	3.02	19.593
Week 3	22-05-2024	11:46:49	17.548	96.8	7.47	53713	8.22	187.4	0.02	0.57	3	19.462
Week 3	22-05-2024	11:46:50	17.551	96.8	7.47	53713	8.22	187.4	0.02	0.59	3.05	19.388
Week 3	22-05-2024	11:46:51	17.553	96.8	7.47	53713	8.22	187.4	0	0.6	3.11	18.409
Week 3	22-05-2024	11:46:52	17.556	96.8	7.47	53713	8.22	187.4	0.01	0.62	3.16	18.243
Week 3	22-05-2024	11:46:53	17.56	96.8	7.47	53712	8.22	187.4	0	0.61	3.12	18.24
Week 3	22-05-2024	11:46:54	17.562	96.8	7.47	53712	8.22	187.3	0	0.62	3.15	17.96
Week 3	22-05-2024	11:46:55	17.565	96.8	7.47	53712	8.22	187.3	0.01	0.61	3.13	17.947
Week 3	22-05-2024	11:46:56	17.567	96.8	7.47	53712	8.22	187.3	0	0.62	3.15	17.892
Week 3	22-05-2024	11:46:57	17.57	96.8	7.47	53712	8.22	187.3	0.01	0.61	3.15	17.782
Week 3	22-05-2024	11:46:58	17.572	96.8	7.46	53712	8.22	187.3	0.01	0.61	3.12	17.669
Week 3	22-05-2024	11:46:59	17.574	96.7	7.46	53712	8.22	187.3	0.02	0.6	3.09	17.57
Week 3	22-05-2024	11:47:00	17.575	96.7	7.46	53712	8.22	187.3	0.02	0.62	3.15	17.487
Week 3	22-05-2024	11:47:01	17.577	96.7	7.46	53712	8.22	187.2	0.03	0.61	3.14	17.405
Week 3	22-05-2024	11:47:02	17.579	96.7	7.46	53712	8.22	187.2	0.04	0.6	3.08	16.404
Week 3	22-05-2024	11:47:03	17.581	96.7	7.46	53711	8.22	187.2	0.03	0.58	3.04	16.351
Week 3	22-05-2024	11:47:04	17.583	96.7	7.46	53712	8.22	187.2	0.02	0.6	3.1	15.759
Week 3	22-05-2024	11:47:05	17.585	96.7	7.46	53712	8.22	187.2	0.04	0.58	3.04	15.685
Week 3	22-05-2024	11:47:06	17.587	96.7	7.46	53712	8.22	187.2	0.05	0.59	3.05	15.79
Week 3	22-05-2024	11:47:07	17.59	96.7	7.46	53712	8.22	187.2	0.05	0.6	3.11	15.72
Week 3	22-05-2024	11:47:08	17.592	96.7	7.46	53712	8.22	187.1	0.05	0.6	3.08	15.592
Week 3	22-05-2024	11:47:09	17.594	96.7	7.46	53712	8.22	187.1	0.04	0.6	3.08	15.518
Week 3	22-05-2024	11:47:10	17.596	96.7	7.46	53712	8.22	187.1	0.03	0.61	3.14	15.413
Week 3	22-05-2024	11:47:11	17.599	96.7	7.46	53712	8.22	187.1	0.02	0.61	3.15	15.308
Week 3	22-05-2024	11:47:12	17.601	96.7	7.45	53713	8.22	187.1	0.02	0.61	3.14	14.396
Week 3	22-05-2024	11:47:13	17.603	96.7	7.45	53713	8.22	187.1	0.01	0.62	3.15	14.139
Week 3	22-05-2024	11:47:14	17.605	96.7	7.45	53713	8.22	187	0	0.62	3.17	13.842
Week 3	22-05-2024	11:47:15	17.607	96.7	7.45	53713	8.22	187	0	0.62	3.15	13.622
Week 3	22-05-2024	11:47:16	17.609	96.7	7.45	53713	8.22	187	-0.02	0.63	3.2	13.638
Week 3	22-05-2024	11:47:17	17.61	96.7	7.45	53713	8.22	187	-0.01	0.62	3.16	13.631
Week 3	22-05-2024	11:47:18	17.611	96.6	7.45	53713	8.22	187	0	0.6	3.08	13.55
Week 3	22-05-2024	11:47:19	17.612	96.6	7.45	53713	8.22	187	0.01	0.6	3.08	13.474
Week 3	22-05-2024	11:47:20	17.613	96.6	7.45	53713	8.22	187	0	0.59	3.05	12.65
Week 3	22-05-2024	11:47:21	17.613	96.6	7.45	53714	8.22	187	0	0.59	3.05	12.425
Week 3	22-05-2024	11:47:22	17.614	96.6	7.45	53714	8.22	186.9	0.01	0.59	3.04	11.905
Week 3	22-05-2024	11:47:23	17.615	96.6	7.45	53714	8.22	186.9	0.02	0.58	3.02	11.924
Week 3	22-05-2024	11:47:24	17.616	96.6	7.45	53714	8.22	186.9	0.03	0.58	3.03	11.935
Week 3	22-05-2024	11:47:25	17.616	96.6	7.45	53714	8.22	186.9	0.02	0.58	3.01	11.698
Week 3	22-05-2024	11:47:26	17.617	96.6	7.45	53714	8.22	186.9	0.03	0.58	3.01	11.577
Week 3	22-05-2024	11:47:27	17.618	96.6	7.45	53714	8.22	186.9	0.02	0.57	2.98	11.492
Week 3	22-05-2024	11:47:28	17.618	96.6	7.45	53714	8.22	186.9	0.02	0.57	2.99	11.404
Week 3	22-05-2024	11:47:29	17.619	96.6	7.45	53714	8.22	186.8	0.02	0.58	3.02	11.335
Week 3	22-05-2024	11:47:30	17.619	96.6	7.45	53713	8.22	186.8	0.01	0.59	3.06	10.166
Week 3	22-05-2024	11:47:31	17.62	96.7	7.45	53713	8.22	186.8	0.01	0.58	3.02	10.221
Week 3	22-05-2024	11:47:32	17.621	96.7	7.45	53713	8.22	186.8	0	0.58	3	9.635
Week 3	22-05-2024	11:47:33	17.622	96.7	7.45	53713	8.22	186.8	-0.01	0.56	2.95	9.65
Week 3	22-05-2024	11:47:34	17.623	96.7	7.45	53713	8.22	186.8	-0.02	0.57	2.97	9.635
Week 3	22-05-2024	11:47:35	17.623	96.7	7.45	53712	8.22	186.7	-0.01	0.55	2.92	9.422
Week 3	22-05-2024	11:47:36	17.624	96.7	7.45	53712	8.22	186.7	-0.01	0.55	2.92	9.304
Week 3	22-05-2024	11:47:37	17.624	96.7	7.45	53712	8.22	186.7	-0.02	0.55	2.92	9.201
Week 3	22-05-2024	11:47:38	17.625	96.7	7.45	53712	8.22	186.7	-0.02	0.55	2.91	8.402
Week 3	22-05-2024	11:47:39	17.626	96.7	7.45	53712	8.22	186.7	-0.03	0.54	2.86	8.137
Week 3	22-05-2024	11:47:40	17.627	96.7	7.45	53712	8.22	186.7	-0.02	0.53	2.83	7.514
Week 3	22-05-2024	11:47:41	17.627	96.7	7.45	53712	8.22	186.7	-0.02	0.52	2.79	7.524
Week 3	22-05-2024	11:47:42	17.628	96.7	7.45	53712	8.22	186.6	-0.01	0.51	2.77	7.562
Week 3	22-05-2024	11:47:43	17.629	96.7	7.45	53712	8.22	186.6	-0.01	0.5	2.71	6.644
Week 3	22-05-2024	11:47:44	17.629	96.7	7.45	53712	8.22	186.6	-0.01	0.48	2.64	6.705
Week 3	22-05-2024	11:47:45	17.63	96.7	7.45	53712	8.22	186.6	0	0.44	2.52	6.124
Week 3	22-05-2024	11:47:46	17.63	96.8	7.46	53712	8.22	186.6	0	0.43	2.46	5.875
Week 3	22-05-2024	11:47:47	17.631	96.8	7.46	53712	8.22	186.6	0.01	0.41	2.4	5.883
Week 3	22-05-2024	11:47:48	17.631	96.8	7.46	53712	8.22	186.5	0.01	0.38	2.29	5.825
Week 3	22-05-2024	11:47:49	17.632	96.8	7.46	53711	8.22	186.5	0	0.37	2.27	5.63
Week 3	22-05-2024	11:47:50	17.632	96.8	7.46	53711	8.22	186.5	-0.01	0.36	2.22	5.478
Week 3	22-05-2024	11:47:51	17.633	96.8	7.46	53711	8.22	186.5	0	0.35	2.18	4.595
Week 3	22-05-2024	11:47:52	17.633	96.8	7.46	53711	8.22	186.5	0	0.33	2.12	4.459
Week 3	22-05-2024	11:47:53	17.634	96.8	7.46	53711	8.22	186.5	0.01	0.32	2.09	4.098
Week 3	22-05-2024	11:47:54	17.635	96.8	7.46	53710	8.22	186.5	0.01	0.33	2.13	3.93

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 3	22-05-2024	11:47:55	17.636	96.9	7.46	53710	8.22	186.4	0	0.33	2.11	3.904
Week 3	22-05-2024	11:47:56	17.636	96.9	7.46	53709	8.22	186.4	-0.01	0.34	2.14	3.742
Week 3	22-05-2024	11:47:57	17.637	96.9	7.47	53709	8.22	186.4	-0.02	0.33	2.13	3.563
Week 3	22-05-2024	11:47:58	17.638	96.9	7.47	53708	8.22	186.4	-0.02	0.33	2.1	3.425
Week 3	22-05-2024	11:47:59	17.639	96.9	7.47	53708	8.22	186.4	-0.02	0.32	2.08	3.307
Week 3	22-05-2024	11:48:00	17.64	96.9	7.47	53708	8.22	186.3	-0.03	0.31	2.05	3.166
Week 3	22-05-2024	11:48:01	17.641	97	7.47	53708	8.22	186.3	-0.03	0.31	2.04	2.25
Week 3	22-05-2024	11:48:02	17.642	97	7.47	53707	8.22	186.3	-0.03	0.3	2.01	1.963
Week 3	22-05-2024	11:48:03	17.643	97	7.47	53707	8.22	186.3	-0.03	0.3	2.01	1.837
Week 3	22-05-2024	11:48:04	17.644	97	7.47	53707	8.22	186.3	-0.04	0.31	2.03	1.733
Week 3	22-05-2024	11:48:05	17.645	97	7.48	53707	8.22	186.3	-0.04	0.3	1.99	1.545
Week 3	22-05-2024	11:48:06	17.645	97	7.48	53706	8.22	186.2	-0.05	0.3	1.99	1.397
Week 3	22-05-2024	11:48:07	17.646	97.1	7.48	53706	8.22	186.2	-0.04	0.3	2	1.239
Week 3	22-05-2024	11:48:08	17.647	97.1	7.48	53706	8.22	186.2	-0.04	0.31	2.05	1.104
Week 3	22-05-2024	11:48:09	17.648	97.1	7.48	53706	8.22	186.2	-0.03	0.31	2.05	0.324
Week 3	22-05-2024	11:48:10	17.648	97.1	7.48	53706	8.22	186.2	-0.02	0.31	2.05	0.216
Week 3	22-05-2024	11:48:11	17.649	97.1	7.48	53705	8.22	186.1	-0.02	0.31	2.05	0.085
Week 3	22-05-2024	11:48:12	17.649	97.1	7.48	53705	8.22	186.1	0.22	0.33	2.12	0.008
Week 4	27-05-2024	12:09:33	17.37	100.9	9.7	53632	8.24	155.4	5.17	0.44	2.52	0.067
Week 4	27-05-2024	12:09:34	17.361	100.5	7.78	53646	8.25	154.7	4.79	0.41	2.4	0.067
Week 4	27-05-2024	12:09:35	17.367	100.3	7.77	53649	8.25	155	4.39	0.39	2.34	0.067
Week 4	27-05-2024	12:09:36	17.379	99.9	7.74	53679	8.25	155.2	4	0.39	2.31	0.068
Week 4	27-05-2024	12:09:37	17.391	99.8	7.73	53677	8.24	155.5	3.63	0.36	2.21	0.069
Week 4	27-05-2024	12:09:38	17.402	99.6	7.72	53686	8.24	155.6	3.19	0.33	2.1	0.077
Week 4	27-05-2024	12:09:39	17.408	99.5	7.7	53693	8.24	155.7	2.8	0.29	1.97	0.826
Week 4	27-05-2024	12:09:40	17.409	99.3	7.69	53697	8.24	155.7	2.4	0.25	1.84	0.775
Week 4	27-05-2024	12:09:41	17.41	99.2	7.67	53700	8.24	155.8	2.01	0.23	1.76	0.879
Week 4	27-05-2024	12:09:42	17.413	99	7.66	53702	8.24	155.8	1.6	0.21	1.69	0.869
Week 4	27-05-2024	12:09:43	17.415	98.9	7.65	53705	8.24	155.9	1.16	0.2	1.66	0.827
Week 4	27-05-2024	12:09:44	17.417	98.8	7.64	53706	8.24	155.9	0.77	0.19	1.6	0.888
Week 4	27-05-2024	12:09:45	17.419	98.6	7.63	53708	8.23	155.9	0.38	0.21	1.67	1.037
Week 4	27-05-2024	12:09:46	17.42	98.5	7.62	53709	8.23	155.9	0.08	0.21	1.68	1.114
Week 4	27-05-2024	12:09:47	17.422	98.4	7.61	53709	8.23	155.9	-0.03	0.22	1.7	2.103
Week 4	27-05-2024	12:09:48	17.425	98.2	7.59	53708	8.23	155.9	-0.03	0.21	1.69	2.424
Week 4	27-05-2024	12:09:49	17.43	97.9	7.58	53710	8.23	156	-0.03	0.22	1.73	3.018
Week 4	27-05-2024	12:09:50	17.433	97.7	7.56	53713	8.23	156	-0.03	0.23	1.77	2.986
Week 4	27-05-2024	12:09:51	17.435	97.5	7.54	53716	8.23	156	-0.04	0.26	1.87	3.071
Week 4	27-05-2024	12:09:52	17.436	97.3	7.52	53718	8.23	156	-0.04	0.25	1.83	3.209
Week 4	27-05-2024	12:09:53	17.438	97.1	7.51	53719	8.23	156	-0.03	0.25	1.81	3.179
Week 4	27-05-2024	12:09:54	17.441	96.9	7.49	53720	8.23	156	-0.03	0.26	1.86	3.067
Week 4	27-05-2024	12:09:55	17.442	96.7	7.48	53720	8.23	156	-0.02	0.26	1.87	2.988
Week 4	27-05-2024	12:09:56	17.444	96.6	7.47	53720	8.23	156	-0.03	0.26	1.85	2.973
Week 4	27-05-2024	12:09:57	17.444	96.4	7.46	53721	8.23	156	-0.01	0.27	1.89	2.976
Week 4	27-05-2024	12:09:58	17.445	96.3	7.45	53722	8.23	156	-0.02	0.28	1.93	2.981
Week 4	27-05-2024	12:09:59	17.446	96.2	7.43	53722	8.23	156.1	-0.02	0.28	1.92	3.018
Week 4	27-05-2024	12:10:00	17.446	96	7.43	53724	8.23	156.1	-0.02	0.27	1.9	3.075
Week 4	27-05-2024	12:10:01	17.447	95.9	7.42	53724	8.23	156.1	-0.03	0.27	1.89	3.123
Week 4	27-05-2024	12:10:02	17.447	95.8	7.41	53724	8.23	156.1	-0.04	0.26	1.86	4.132
Week 4	27-05-2024	12:10:03	17.447	95.7	7.4	53724	8.23	156.1	-0.03	0.26	1.86	4.236
Week 4	27-05-2024	12:10:04	17.447	95.6	7.39	53724	8.23	156.1	-0.04	0.27	1.9	4.749
Week 4	27-05-2024	12:10:05	17.448	95.5	7.38	53723	8.23	156.1	-0.03	0.27	1.9	4.833
Week 4	27-05-2024	12:10:06	17.448	95.4	7.38	53723	8.23	156.1	-0.03	0.27	1.89	5.011
Week 4	27-05-2024	12:10:07	17.449	95.3	7.37	53723	8.23	156.1	-0.03	0.27	1.89	5.225
Week 4	27-05-2024	12:10:08	17.449	95.2	7.36	53724	8.23	156.1	-0.03	0.26	1.85	5.427
Week 4	27-05-2024	12:10:09	17.449	95.2	7.36	53724	8.23	156.1	-0.04	0.24	1.78	6.536
Week 4	27-05-2024	12:10:10	17.449	95.1	7.35	53724	8.23	156.1	-0.04	0.23	1.76	6.82
Week 4	27-05-2024	12:10:11	17.45	95	7.35	53724	8.23	156.1	-0.03	0.24	1.78	7.121
Week 4	27-05-2024	12:10:12	17.45	94.9	7.34	53724	8.23	156	-0.04	0.25	1.82	7.2
Week 4	27-05-2024	12:10:13	17.45	94.9	7.33	53724	8.23	156	-0.03	0.25	1.82	7.395
Week 4	27-05-2024	12:10:14	17.45	94.8	7.33	53724	8.23	156	-0.03	0.26	1.85	7.554
Week 4	27-05-2024	12:10:15	17.45	94.7	7.32	53724	8.23	156	-0.02	0.26	1.85	7.743
Week 4	27-05-2024	12:10:16	17.45	94.7	7.32	53725	8.23	156	-0.01	0.27	1.9	8.764
Week 4	27-05-2024	12:10:17	17.45	94.6	7.31	53725	8.23	156	-0.02	0.28	1.93	9.062
Week 4	27-05-2024	12:10:18	17.45	94.5	7.31	53725	8.23	156	-0.01	0.27	1.9	9.478
Week 4	27-05-2024	12:10:19	17.45	94.5	7.31	53726	8.22	156	-0.01	0.27	1.9	9.607
Week 4	27-05-2024	12:10:20	17.45	94.4	7.3	53726	8.22	156	-0.01	0.28	1.95	9.632
Week 4	27-05-2024	12:10:21	17.451	94.4	7.3	53727	8.22	156	-0.02	0.28	1.95	9.718
Week 4	27-05-2024	12:10:22	17.451	94.3	7.29	53727	8.22	156	-0.03	0.29	1.98	9.749

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 4	27-05-2024	12:10:23	17.451	94.3	7.29	53727	8.22	155.9	-0.03	0.29	1.96	9.788
Week 4	27-05-2024	12:10:24	17.452	94.2	7.29	53727	8.22	155.9	-0.03	0.29	1.97	9.8
Week 4	27-05-2024	12:10:25	17.452	94.2	7.28	53728	8.22	155.9	-0.04	0.28	1.94	9.826
Week 4	27-05-2024	12:10:26	17.453	94.2	7.28	53728	8.22	155.9	-0.04	0.29	1.96	9.867
Week 4	27-05-2024	12:10:27	17.453	94.1	7.28	53728	8.22	155.9	-0.05	0.28	1.94	9.894
Week 4	27-05-2024	12:10:28	17.453	94.1	7.27	53728	8.22	155.9	-0.05	0.28	1.92	9.927
Week 4	27-05-2024	12:10:29	17.453	94.1	7.27	53728	8.22	155.9	-0.06	0.27	1.91	10.694
Week 4	27-05-2024	12:10:30	17.453	94	7.27	53729	8.22	155.9	-0.06	0.28	1.92	11.179
Week 4	27-05-2024	12:10:31	17.453	94	7.27	53729	8.22	155.9	-0.06	0.27	1.89	11.489
Week 4	27-05-2024	12:10:32	17.453	94	7.26	53730	8.22	155.9	-0.06	0.28	1.91	11.504
Week 4	27-05-2024	12:10:33	17.454	93.9	7.26	53729	8.22	155.8	-0.05	0.26	1.87	11.598
Week 4	27-05-2024	12:10:34	17.454	93.9	7.26	53730	8.22	155.8	-0.06	0.26	1.85	11.692
Week 4	27-05-2024	12:10:35	17.454	93.9	7.26	53730	8.22	155.8	-0.06	0.26	1.86	11.92
Week 4	27-05-2024	12:10:36	17.454	93.8	7.26	53730	8.22	155.8	-0.06	0.27	1.9	12.075
Week 4	27-05-2024	12:10:37	17.454	93.8	7.25	53730	8.22	155.8	-0.06	0.26	1.87	12.95
Week 4	27-05-2024	12:10:38	17.454	93.8	7.25	53731	8.22	155.8	-0.07	0.26	1.87	13.021
Week 4	27-05-2024	12:10:39	17.454	93.8	7.25	53731	8.22	155.8	-0.06	0.27	1.91	13.349
Week 4	27-05-2024	12:10:40	17.454	93.7	7.25	53731	8.22	155.8	-0.06	0.28	1.94	13.609
Week 4	27-05-2024	12:10:41	17.454	93.7	7.24	53731	8.22	155.8	-0.05	0.28	1.95	13.704
Week 4	27-05-2024	12:10:42	17.453	93.7	7.24	53732	8.22	155.7	-0.05	0.29	1.96	13.972
Week 4	27-05-2024	12:10:43	17.453	93.6	7.24	53731	8.22	155.7	-0.04	0.3	2	14.239
Week 4	27-05-2024	12:10:44	17.453	93.6	7.24	53731	8.22	155.7	-0.03	0.3	2.02	15.22
Week 4	27-05-2024	12:10:45	17.453	93.6	7.24	53732	8.22	155.7	-0.03	0.29	1.97	15.288
Week 4	27-05-2024	12:10:46	17.453	93.6	7.23	53732	8.22	155.7	-0.03	0.28	1.94	15.747
Week 4	27-05-2024	12:10:47	17.452	93.5	7.23	53732	8.22	155.7	-0.04	0.28	1.94	15.882
Week 4	27-05-2024	12:10:48	17.452	93.5	7.23	53732	8.22	155.7	-0.04	0.28	1.95	15.821
Week 4	27-05-2024	12:10:49	17.452	93.5	7.23	53733	8.22	155.7	-0.04	0.27	1.9	15.873
Week 4	27-05-2024	12:10:50	17.452	93.4	7.22	53732	8.22	155.7	-0.04	0.27	1.88	16.022
Week 4	27-05-2024	12:10:51	17.452	93.4	7.22	53733	8.22	155.7	-0.04	0.26	1.85	16.955
Week 4	27-05-2024	12:10:52	17.452	93.4	7.22	53733	8.22	155.6	-0.04	0.26	1.86	16.885
Week 4	27-05-2024	12:10:53	17.451	93.4	7.22	53733	8.22	155.6	-0.03	0.26	1.87	17.293
Week 4	27-05-2024	12:10:54	17.451	93.3	7.22	53733	8.22	155.6	-0.02	0.25	1.83	17.504
Week 4	27-05-2024	12:10:55	17.451	93.3	7.22	53733	8.22	155.6	-0.01	0.24	1.77	17.529
Week 4	27-05-2024	12:10:56	17.45	93.3	7.21	53733	8.22	155.6	0	0.25	1.84	17.724
Week 4	27-05-2024	12:10:57	17.449	93.3	7.21	53733	8.22	155.6	0	0.24	1.79	17.877
Week 4	27-05-2024	12:10:58	17.447	93.2	7.21	53733	8.22	155.6	-0.01	0.24	1.77	18
Week 4	27-05-2024	12:10:59	17.446	93.2	7.21	53733	8.22	155.6	0	0.22	1.72	18.087
Week 4	27-05-2024	12:11:00	17.445	93.2	7.21	53733	8.22	155.6	0	0.23	1.74	18.855
Week 4	27-05-2024	12:11:01	17.443	93.2	7.2	53733	8.22	155.5	0	0.22	1.73	19.247
Week 4	27-05-2024	12:11:02	17.441	93.1	7.2	53733	8.22	155.5	0	0.24	1.77	19.586
Week 4	27-05-2024	12:11:03	17.44	93.1	7.2	53732	8.22	155.5	-0.02	0.22	1.72	19.595
Week 4	27-05-2024	12:11:04	17.438	93.1	7.2	53732	8.22	155.5	-0.01	0.22	1.72	19.846
Week 4	27-05-2024	12:11:05	17.436	93	7.2	53732	8.22	155.5	0	0.21	1.67	20.137
Week 4	27-05-2024	12:11:06	17.435	93	7.19	53732	8.22	155.5	0.03	0.23	1.73	20.306
Week 4	27-05-2024	12:11:07	17.433	93	7.19	53731	8.22	155.5	0.03	0.24	1.77	21.295
Week 4	27-05-2024	12:11:08	17.431	93	7.19	53731	8.22	155.5	0.03	0.24	1.8	21.761
Week 4	27-05-2024	12:11:09	17.43	92.9	7.19	53732	8.22	155.5	0.02	0.25	1.81	22.016
Week 4	27-05-2024	12:11:10	17.429	92.9	7.19	53732	8.22	155.5	0	0.26	1.86	22.016
Week 4	27-05-2024	12:11:11	17.429	92.9	7.19	53732	8.22	155.4	0	0.27	1.9	22.007
Week 4	27-05-2024	12:11:12	17.429	92.9	7.18	53732	8.22	155.4	0.01	0.26	1.85	22.01
Week 4	27-05-2024	12:11:13	17.428	92.9	7.18	53732	8.22	155.4	0	0.24	1.78	22.139
Week 4	27-05-2024	12:11:14	17.428	92.8	7.18	53732	8.22	155.4	0	0.25	1.82	22.278
Week 4	27-05-2024	12:11:15	17.428	92.8	7.18	53732	8.22	155.4	0.01	0.25	1.82	23.17
Week 4	27-05-2024	12:11:16	17.427	92.8	7.18	53732	8.22	155.4	0	0.27	1.9	23.134
Week 4	27-05-2024	12:11:17	17.427	92.8	7.18	53732	8.22	155.4	0	0.27	1.88	23.437
Week 4	27-05-2024	12:11:18	17.426	92.8	7.18	53732	8.22	155.4	0	0.26	1.87	23.726
Week 4	27-05-2024	12:11:19	17.425	92.7	7.17	53732	8.22	155.4	0.01	0.26	1.84	23.699
Week 4	27-05-2024	12:11:20	17.424	92.7	7.17	53732	8.22	155.3	0.01	0.26	1.86	23.712
Week 4	27-05-2024	12:11:21	17.424	92.7	7.17	53732	8.22	155.3	-0.02	0.27	1.88	23.752
Week 4	27-05-2024	12:11:22	17.423	92.7	7.17	53732	8.22	155.3	-0.03	0.26	1.87	23.876
Week 4	27-05-2024	12:11:23	17.422	92.7	7.17	53731	8.22	155.3	-0.03	0.27	1.91	23.986
Week 4	27-05-2024	12:11:24	17.422	92.7	7.17	53731	8.22	155.3	-0.03	0.3	1.99	24.927
Week 4	27-05-2024	12:11:25	17.421	92.6	7.17	53731	8.22	155.3	-0.03	0.3	2.01	25.08
Week 4	27-05-2024	12:11:26	17.42	92.6	7.17	53731	8.22	155.3	-0.01	0.3	2.01	25.404
Week 4	27-05-2024	12:11:27	17.418	92.6	7.16	53731	8.22	155.3	0	0.31	2.04	25.576
Week 4	27-05-2024	12:11:28	17.416	92.6	7.16	53730	8.22	155.3	0	0.31	2.04	25.57
Week 4	27-05-2024	12:11:29	17.414	92.6	7.16	53730	8.22	155.3	-0.01	0.32	2.06	25.682
Week 4	27-05-2024	12:11:30	17.412	92.6	7.16	53729	8.22	155.3	-0.01	0.32	2.07	25.758

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 4	27-05-2024	12:11:31	17.41	92.5	7.16	53728	8.22	155.2	-0.01	0.32	2.08	25.821
Week 4	27-05-2024	12:11:32	17.406	92.5	7.16	53727	8.22	155.2	0.01	0.31	2.04	25.907
Week 4	27-05-2024	12:11:33	17.404	92.5	7.16	53727	8.22	155.2	-0.01	0.31	2.06	25.88
Week 4	27-05-2024	12:11:34	17.401	92.5	7.16	53727	8.22	155.2	-0.02	0.31	2.06	25.838
Week 4	27-05-2024	12:11:35	17.399	92.5	7.16	53727	8.22	155.2	-0.02	0.31	2.03	24.82
Week 4	27-05-2024	12:11:36	17.398	92.5	7.16	53726	8.22	155.2	-0.02	0.31	2.03	24.839
Week 4	27-05-2024	12:11:37	17.397	92.5	7.16	53726	8.22	155.2	-0.01	0.32	2.07	24.319
Week 4	27-05-2024	12:11:38	17.396	92.5	7.16	53726	8.22	155.2	0.01	0.3	2.01	24.2
Week 4	27-05-2024	12:11:39	17.396	92.5	7.16	53726	8.22	155.2	0	0.3	2.01	24.215
Week 4	27-05-2024	12:11:40	17.397	92.5	7.16	53726	8.22	155.1	0.03	0.31	2.02	24.141
Week 4	27-05-2024	12:11:41	17.398	92.5	7.16	53726	8.22	155.1	0	0.3	2.02	23.96
Week 4	27-05-2024	12:11:42	17.4	92.5	7.16	53727	8.22	155.1	-0.01	0.29	1.97	23.79
Week 4	27-05-2024	12:11:43	17.402	92.5	7.16	53728	8.22	155.1	-0.01	0.29	1.98	22.807
Week 4	27-05-2024	12:11:44	17.405	92.5	7.16	53728	8.22	155.1	-0.02	0.28	1.94	22.215
Week 4	27-05-2024	12:11:45	17.409	92.5	7.16	53730	8.22	155.1	-0.03	0.27	1.89	22.369
Week 4	27-05-2024	12:11:46	17.412	92.6	7.16	53730	8.22	155.1	-0.02	0.28	1.93	22.105
Week 4	27-05-2024	12:11:47	17.415	92.6	7.16	53731	8.22	155.1	-0.02	0.26	1.87	21.897
Week 4	27-05-2024	12:11:48	17.418	92.6	7.16	53731	8.22	155.1	-0.01	0.25	1.84	21.498
Week 4	27-05-2024	12:11:49	17.42	92.6	7.16	53731	8.22	155.1	-0.01	0.25	1.83	21.374
Week 4	27-05-2024	12:11:50	17.422	92.6	7.16	53731	8.22	155.1	-0.01	0.25	1.83	21.214
Week 4	27-05-2024	12:11:51	17.423	92.6	7.16	53731	8.22	155	0	0.25	1.81	21.06
Week 4	27-05-2024	12:11:52	17.424	92.6	7.16	53732	8.22	155	0	0.26	1.85	19.84
Week 4	27-05-2024	12:11:53	17.425	92.6	7.16	53732	8.22	155	-0.01	0.26	1.87	19.767
Week 4	27-05-2024	12:11:54	17.426	92.6	7.17	53732	8.22	155	0	0.26	1.87	19.109
Week 4	27-05-2024	12:11:55	17.427	92.6	7.17	53732	8.22	155	0.01	0.28	1.92	18.989
Week 4	27-05-2024	12:11:56	17.428	92.6	7.17	53732	8.22	155	0.01	0.28	1.92	18.972
Week 4	27-05-2024	12:11:57	17.428	92.6	7.17	53732	8.22	155	0.02	0.27	1.89	18.795
Week 4	27-05-2024	12:11:58	17.43	92.7	7.17	53732	8.22	155	0.03	0.28	1.93	18.629
Week 4	27-05-2024	12:11:59	17.431	92.7	7.17	53733	8.22	155	0.04	0.27	1.89	18.486
Week 4	27-05-2024	12:12:00	17.433	92.7	7.17	53733	8.22	154.9	0.03	0.28	1.94	17.882
Week 4	27-05-2024	12:12:01	17.435	92.7	7.17	53733	8.22	154.9	0.02	0.28	1.93	17.372
Week 4	27-05-2024	12:12:02	17.437	92.7	7.17	53733	8.22	154.9	0.02	0.27	1.91	17.383
Week 4	27-05-2024	12:12:03	17.439	92.7	7.17	53734	8.22	154.9	0.01	0.26	1.86	17.366
Week 4	27-05-2024	12:12:04	17.441	92.7	7.17	53734	8.22	154.9	0	0.27	1.91	17.104
Week 4	27-05-2024	12:12:05	17.443	92.8	7.17	53734	8.22	154.9	0.01	0.27	1.88	16.903
Week 4	27-05-2024	12:12:06	17.444	92.8	7.17	53734	8.22	154.9	-0.03	0.26	1.87	16.762
Week 4	27-05-2024	12:12:07	17.445	92.8	7.17	53734	8.22	154.9	-0.04	0.27	1.88	16.635
Week 4	27-05-2024	12:12:08	17.447	92.8	7.18	53735	8.22	154.9	-0.05	0.28	1.93	15.729
Week 4	27-05-2024	12:12:09	17.448	92.8	7.18	53736	8.22	154.9	-0.04	0.28	1.93	15.683
Week 4	27-05-2024	12:12:10	17.45	92.8	7.18	53736	8.22	154.8	-0.05	0.29	1.96	15.205
Week 4	27-05-2024	12:12:11	17.451	92.8	7.18	53736	8.22	154.8	-0.05	0.28	1.92	15.112
Week 4	27-05-2024	12:12:12	17.451	92.8	7.18	53736	8.22	154.8	-0.06	0.28	1.93	15.06
Week 4	27-05-2024	12:12:13	17.452	92.9	7.18	53735	8.22	154.8	-0.06	0.29	1.97	15.036
Week 4	27-05-2024	12:12:14	17.452	92.9	7.18	53735	8.22	154.8	-0.07	0.29	1.96	14.922
Week 4	27-05-2024	12:12:15	17.452	92.9	7.18	53735	8.22	154.8	-0.07	0.28	1.93	14.798
Week 4	27-05-2024	12:12:16	17.453	92.9	7.18	53735	8.22	154.8	-0.06	0.28	1.94	14.686
Week 4	27-05-2024	12:12:17	17.453	92.9	7.18	53735	8.22	154.8	-0.05	0.28	1.94	13.798
Week 4	27-05-2024	12:12:18	17.453	92.9	7.18	53734	8.22	154.8	-0.05	0.28	1.94	13.359
Week 4	27-05-2024	12:12:19	17.454	92.9	7.18	53734	8.22	154.8	-0.05	0.27	1.89	13.3
Week 4	27-05-2024	12:12:20	17.454	92.9	7.19	53734	8.22	154.7	-0.05	0.27	1.9	13.071
Week 4	27-05-2024	12:12:21	17.455	93	7.19	53734	8.22	154.7	-0.05	0.28	1.94	12.894
Week 4	27-05-2024	12:12:22	17.455	93	7.19	53734	8.22	154.7	-0.04	0.28	1.93	12.677
Week 4	27-05-2024	12:12:23	17.455	93	7.19	53734	8.22	154.7	-0.04	0.28	1.93	12.578
Week 4	27-05-2024	12:12:24	17.455	93	7.19	53733	8.22	154.7	-0.05	0.28	1.93	12.505
Week 4	27-05-2024	12:12:25	17.455	93	7.19	53733	8.22	154.7	-0.05	0.29	1.96	12.416
Week 4	27-05-2024	12:12:26	17.455	93	7.19	53733	8.22	154.7	-0.04	0.3	2	12.324
Week 4	27-05-2024	12:12:27	17.455	93	7.19	53733	8.22	154.7	-0.04	0.32	2.06	11.527
Week 4	27-05-2024	12:12:28	17.455	93.1	7.19	53732	8.22	154.7	-0.04	0.31	2.03	11.125
Week 4	27-05-2024	12:12:29	17.455	93.1	7.19	53731	8.22	154.7	-0.04	0.3	2.01	10.97
Week 4	27-05-2024	12:12:30	17.454	93.1	7.2	53729	8.22	154.7	-0.04	0.31	2.05	10.945
Week 4	27-05-2024	12:12:31	17.454	93.1	7.2	53727	8.22	154.6	-0.04	0.31	2.02	10.764
Week 4	27-05-2024	12:12:32	17.454	93.1	7.2	53723	8.22	154.6	-0.04	0.29	1.99	10.53
Week 4	27-05-2024	12:12:33	17.454	93.1	7.2	53718	8.22	154.6	-0.05	0.3	2	10.375
Week 4	27-05-2024	12:12:34	17.454	93.1	7.2	53714	8.22	154.6	-0.04	0.3	2	10.274
Week 4	27-05-2024	12:12:35	17.453	93.1	7.2	53710	8.22	154.6	-0.04	0.3	2.01	9.369
Week 4	27-05-2024	12:12:36	17.453	93.1	7.2	53707	8.22	154.6	-0.05	0.31	2.04	9.191
Week 4	27-05-2024	12:12:37	17.453	93.2	7.2	53705	8.22	154.6	-0.05	0.3	2.01	8.894
Week 4	27-05-2024	12:12:38	17.453	93.2	7.2	53703	8.22	154.6	-0.05	0.3	2	8.648

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 4	27-05-2024	12:12:39	17.453	93.2	7.21	53702	8.22	154.6	-0.06	0.31	2.04	8.54
Week 4	27-05-2024	12:12:40	17.453	93.2	7.21	53702	8.22	154.6	-0.06	0.31	2.03	8.415
Week 4	27-05-2024	12:12:41	17.453	93.2	7.21	53703	8.22	154.6	-0.05	0.3	2.02	8.248
Week 4	27-05-2024	12:12:42	17.453	93.2	7.21	53704	8.22	154.5	-0.05	0.32	2.08	7.56
Week 4	27-05-2024	12:12:43	17.453	93.2	7.21	53706	8.22	154.5	-0.06	0.34	2.14	7.033
Week 4	27-05-2024	12:12:44	17.453	93.2	7.21	53708	8.22	154.5	-0.06	0.35	2.19	6.854
Week 4	27-05-2024	12:12:45	17.453	93.3	7.21	53712	8.22	154.5	-0.06	0.35	2.18	6.824
Week 4	27-05-2024	12:12:46	17.454	93.3	7.21	53716	8.22	154.5	-0.07	0.35	2.19	6.673
Week 4	27-05-2024	12:12:47	17.454	93.3	7.21	53720	8.22	154.5	-0.07	0.34	2.16	6.524
Week 4	27-05-2024	12:12:48	17.454	93.3	7.21	53722	8.22	154.5	-0.07	0.35	2.18	6.435
Week 4	27-05-2024	12:12:49	17.454	93.3	7.21	53720	8.22	154.5	-0.07	0.34	2.15	5.712
Week 4	27-05-2024	12:12:50	17.453	93.3	7.21	53718	8.22	154.5	-0.06	0.33	2.1	5.186
Week 4	27-05-2024	12:12:51	17.453	93.3	7.21	53713	8.22	154.5	-0.06	0.33	2.12	4.637
Week 4	27-05-2024	12:12:52	17.453	93.3	7.22	53707	8.22	154.5	-0.05	0.32	2.09	4.692
Week 4	27-05-2024	12:12:53	17.453	93.3	7.22	53700	8.22	154.4	-0.05	0.32	2.06	4.465
Week 4	27-05-2024	12:12:54	17.453	93.3	7.22	53699	8.22	154.4	-0.05	0.31	2.03	4.146
Week 4	27-05-2024	12:12:55	17.453	93.4	7.22	53702	8.22	154.4	-0.04	0.3	1.99	3.139
Week 4	27-05-2024	12:12:56	17.453	93.4	7.22	53708	8.22	154.4	-0.05	0.29	1.97	2.825
Week 4	27-05-2024	12:12:57	17.453	93.4	7.22	53714	8.22	154.4	-0.05	0.28	1.93	2.341
Week 4	27-05-2024	12:12:58	17.453	93.4	7.22	53720	8.22	154.4	-0.04	0.28	1.92	2.012
Week 4	27-05-2024	12:12:59	17.453	93.4	7.22	53724	8.22	154.4	-0.04	0.26	1.87	1.865
Week 4	27-05-2024	12:13:00	17.453	93.4	7.22	53726	8.22	154.4	-0.03	0.27	1.9	1.723
Week 4	27-05-2024	12:13:01	17.452	93.4	7.22	53727	8.22	154.4	-0.04	0.28	1.92	1.52
Week 4	27-05-2024	12:13:02	17.452	93.4	7.22	53732	8.22	154.4	-0.04	0.26	1.87	1.362
Week 4	27-05-2024	12:13:03	17.451	93.4	7.22	53737	8.22	154.4	-0.04	0.27	1.89	0.135
Week 5	04-06-2024	11:27:13	16.783	100.8	9.76	53622	7.94	170.4	1.2	0.39	2.34	0.223
Week 5	04-06-2024	11:27:14	16.762	100.7	7.89	53676	7.95	170.4	1.11	0.39	2.32	0.224
Week 5	04-06-2024	11:27:15	16.745	100.5	7.88	53728	7.95	170.3	1	0.38	2.3	0.228
Week 5	04-06-2024	11:27:16	16.724	100.4	7.87	53749	7.96	170.2	0.91	0.37	2.27	0.238
Week 5	04-06-2024	11:27:17	16.712	100.3	7.86	53769	7.96	170.1	0.82	0.35	2.2	0.248
Week 5	04-06-2024	11:27:18	16.707	100.2	7.86	53778	7.97	170	0.72	0.34	2.13	0.26
Week 5	04-06-2024	11:27:19	16.709	100.1	7.85	53778	7.97	169.9	0.63	0.32	2.07	0.278
Week 5	04-06-2024	11:27:20	16.721	100	7.84	53768	7.97	169.8	0.54	0.31	2.03	1.077
Week 5	04-06-2024	11:27:21	16.737	100	7.84	53748	7.97	169.8	0.46	0.31	2.03	0.974
Week 5	04-06-2024	11:27:22	16.767	99.9	7.83	53718	7.97	169.7	0.37	0.3	2	0.966
Week 5	04-06-2024	11:27:23	16.797	99.9	7.82	53678	7.98	169.6	0.3	0.3	2.01	1.029
Week 5	04-06-2024	11:27:24	16.836	99.8	7.82	53637	7.98	169.6	0.21	0.31	2.05	1.115
Week 5	04-06-2024	11:27:25	16.842	99.8	7.81	53626	7.98	169.5	0.12	0.3	2.02	1.186
Week 5	04-06-2024	11:27:26	16.843	99.7	7.8	53627	7.98	169.5	0.04	0.31	2.02	1.278
Week 5	04-06-2024	11:27:27	16.843	99.6	7.79	53627	7.98	169.4	0.03	0.32	2.08	1.377
Week 5	04-06-2024	11:27:28	16.843	99.5	7.79	53628	7.98	169.4	0.02	0.33	2.1	1.435
Week 5	04-06-2024	11:27:29	16.844	99.4	7.78	53630	7.98	169.3	0.01	0.35	2.17	1.494
Week 5	04-06-2024	11:27:30	16.844	99.3	7.77	53632	7.98	169.3	0.02	0.36	2.2	1.539
Week 5	04-06-2024	11:27:31	16.844	99.2	7.76	53633	7.98	169.2	0.02	0.36	2.21	1.567
Week 5	04-06-2024	11:27:32	16.844	99.2	7.76	53634	7.98	169.2	0.02	0.34	2.14	1.597
Week 5	04-06-2024	11:27:33	16.844	99.1	7.75	53635	7.99	169.1	0.03	0.33	2.13	1.627
Week 5	04-06-2024	11:27:34	16.844	99	7.75	53636	7.99	169.1	0.03	0.32	2.09	1.657
Week 5	04-06-2024	11:27:35	16.844	99	7.74	53637	7.99	169.1	0.03	0.31	2.04	1.689
Week 5	04-06-2024	11:27:36	16.844	98.9	7.74	53638	7.99	169	0.03	0.31	2.03	2.517
Week 5	04-06-2024	11:27:37	16.844	98.8	7.73	53639	7.99	169	0.03	0.31	2.04	2.282
Week 5	04-06-2024	11:27:38	16.844	98.8	7.73	53640	7.99	168.9	0.03	0.32	2.09	2.473
Week 5	04-06-2024	11:27:39	16.844	98.8	7.73	53640	7.99	168.8	0.03	0.31	2.05	2.832
Week 5	04-06-2024	11:27:40	16.844	98.7	7.72	53641	7.99	168.7	0.03	0.31	2.06	2.874
Week 5	04-06-2024	11:27:41	16.844	98.7	7.72	53641	7.99	168.7	0.04	0.31	2.03	2.842
Week 5	04-06-2024	11:27:42	16.844	98.6	7.72	53642	8	168.6	0.04	0.3	2	2.861
Week 5	04-06-2024	11:27:43	16.843	98.6	7.72	53643	8	168.5	0.04	0.32	2.07	2.927
Week 5	04-06-2024	11:27:44	16.843	98.6	7.71	53644	8	168.4	0.04	0.32	2.09	2.965
Week 5	04-06-2024	11:27:45	16.843	98.5	7.71	53645	8	168.4	0.04	0.32	2.09	3.005
Week 5	04-06-2024	11:27:46	16.843	98.5	7.71	53645	8	168.3	0.04	0.32	2.07	3.052
Week 5	04-06-2024	11:27:47	16.843	98.5	7.71	53645	8	168.2	0.04	0.32	2.08	3.102
Week 5	04-06-2024	11:27:48	16.843	98.5	7.7	53646	8	168.2	0.04	0.32	2.08	3.147
Week 5	04-06-2024	11:27:49	16.843	98.4	7.7	53647	8	168.1	0.03	0.3	2	3.205
Week 5	04-06-2024	11:27:50	16.843	98.4	7.7	53647	8	168.1	0.03	0.31	2.03	3.254
Week 5	04-06-2024	11:27:51	16.843	98.4	7.7	53648	8	168	0.03	0.29	1.95	3.304
Week 5	04-06-2024	11:27:52	16.843	98.4	7.7	53648	8	167.9	0.03	0.29	1.95	3.356
Week 5	04-06-2024	11:27:53	16.842	98.3	7.7	53649	8	167.9	0.04	0.3	1.99	3.413
Week 5	04-06-2024	11:27:54	16.842	98.3	7.69	53650	8	167.8	0.03	0.29	1.98	4.234
Week 5	04-06-2024	11:27:55	16.842	98.3	7.69	53650	8	167.8	0.04	0.3	2	4.228

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 5	04-06-2024	11:27:56	16.842	98.3	7.69	53651	8	167.7	0.04	0.32	2.06	4.346
Week 5	04-06-2024	11:27:57	16.842	98.3	7.69	53651	8.01	167.7	0.04	0.35	2.18	4.453
Week 5	04-06-2024	11:27:58	16.842	98.2	7.69	53651	8.01	167.6	0.05	0.35	2.18	4.417
Week 5	04-06-2024	11:27:59	16.841	98.2	7.69	53652	8.01	167.6	0.04	0.35	2.2	4.506
Week 5	04-06-2024	11:28:00	16.841	98.2	7.68	53652	8.01	167.5	0.04	0.37	2.25	4.623
Week 5	04-06-2024	11:28:01	16.841	98.2	7.68	53653	8.01	167.5	0.03	0.37	2.27	4.702
Week 5	04-06-2024	11:28:02	16.841	98.2	7.68	53653	8.01	167.4	0.02	0.39	2.32	4.819
Week 5	04-06-2024	11:28:03	16.841	98.2	7.68	53653	8.01	167.4	0.02	0.41	2.39	4.911
Week 5	04-06-2024	11:28:04	16.841	98.1	7.68	53653	8.01	167.3	0.02	0.39	2.34	4.996
Week 5	04-06-2024	11:28:05	16.841	98.1	7.68	53654	8.01	167.3	0.01	0.4	2.36	5.776
Week 5	04-06-2024	11:28:06	16.841	98.1	7.68	53654	8.01	167.2	0.01	0.4	2.38	6.082
Week 5	04-06-2024	11:28:07	16.84	98.1	7.68	53654	8.01	167.2	0	0.4	2.36	5.94
Week 5	04-06-2024	11:28:08	16.84	98.1	7.67	53654	8.01	167.2	0	0.39	2.33	5.977
Week 5	04-06-2024	11:28:09	16.839	98.1	7.67	53654	8.01	167.1	-0.01	0.39	2.32	6.223
Week 5	04-06-2024	11:28:10	16.838	98	7.67	53654	8.01	167.1	-0.01	0.38	2.3	6.311
Week 5	04-06-2024	11:28:11	16.837	98	7.67	53654	8.01	167	-0.02	0.37	2.28	6.34
Week 5	04-06-2024	11:28:12	16.836	98	7.67	53655	8.01	167	-0.02	0.37	2.26	6.408
Week 5	04-06-2024	11:28:13	16.835	98	7.67	53655	8.01	166.9	-0.02	0.36	2.22	6.458
Week 5	04-06-2024	11:28:14	16.833	98	7.67	53655	8.01	166.9	-0.02	0.34	2.14	6.497
Week 5	04-06-2024	11:28:15	16.832	98	7.67	53656	8.01	166.9	-0.02	0.35	2.18	6.551
Week 5	04-06-2024	11:28:16	16.831	98	7.67	53656	8.01	166.8	-0.02	0.33	2.12	6.609
Week 5	04-06-2024	11:28:17	16.829	97.9	7.67	53656	8.01	166.8	-0.01	0.33	2.1	6.663
Week 5	04-06-2024	11:28:18	16.828	97.9	7.66	53656	8.01	166.7	0	0.32	2.09	6.715
Week 5	04-06-2024	11:28:19	16.827	97.9	7.66	53656	8.01	166.7	0.01	0.32	2.06	7.787
Week 5	04-06-2024	11:28:20	16.826	97.9	7.66	53657	8.01	166.7	0.02	0.32	2.07	7.657
Week 5	04-06-2024	11:28:21	16.825	97.9	7.66	53657	8.01	166.6	0.03	0.31	2.06	7.739
Week 5	04-06-2024	11:28:22	16.824	97.9	7.66	53657	8.01	166.6	0.03	0.33	2.11	7.916
Week 5	04-06-2024	11:28:23	16.823	97.9	7.66	53657	8.01	166.5	0.03	0.33	2.12	8.139
Week 5	04-06-2024	11:28:24	16.822	97.8	7.66	53657	8.01	166.5	0.03	0.33	2.13	8.158
Week 5	04-06-2024	11:28:25	16.821	97.8	7.66	53657	8.01	166.5	0.03	0.35	2.18	8.195
Week 5	04-06-2024	11:28:26	16.821	97.8	7.66	53657	8.01	166.4	0.03	0.35	2.19	8.253
Week 5	04-06-2024	11:28:27	16.82	97.8	7.66	53657	8.01	166.4	0.03	0.36	2.22	8.322
Week 5	04-06-2024	11:28:28	16.82	97.8	7.66	53657	8.01	166.4	0.02	0.36	2.23	8.344
Week 5	04-06-2024	11:28:29	16.82	97.8	7.66	53657	8.01	166.3	0.03	0.36	2.24	9.09
Week 5	04-06-2024	11:28:30	16.82	97.8	7.65	53657	8.01	166.3	0.03	0.38	2.28	8.807
Week 5	04-06-2024	11:28:31	16.819	97.8	7.65	53657	8.01	166.3	0.03	0.39	2.31	8.966
Week 5	04-06-2024	11:28:32	16.819	97.8	7.65	53657	8.01	166.2	0.03	0.39	2.32	9.275
Week 5	04-06-2024	11:28:33	16.819	97.8	7.65	53657	8.01	166.2	0.02	0.38	2.29	9.276
Week 5	04-06-2024	11:28:34	16.819	97.8	7.65	53657	8.01	166.1	0.01	0.38	2.29	9.229
Week 5	04-06-2024	11:28:35	16.819	97.8	7.65	53658	8.01	166.1	0.01	0.37	2.26	9.253
Week 5	04-06-2024	11:28:36	16.818	97.8	7.65	53658	8.01	166.1	0.01	0.36	2.23	9.345
Week 5	04-06-2024	11:28:37	16.818	97.7	7.65	53658	8.01	166	0	0.36	2.21	9.381
Week 5	04-06-2024	11:28:38	16.818	97.7	7.65	53658	8.01	166	0	0.36	2.23	9.418
Week 5	04-06-2024	11:28:39	16.817	97.7	7.65	53658	8.01	166	0	0.36	2.22	9.493
Week 5	04-06-2024	11:28:40	16.817	97.7	7.65	53659	8.01	165.9	0	0.36	2.24	9.554
Week 5	04-06-2024	11:28:41	16.816	97.7	7.65	53659	8.01	165.9	0	0.36	2.21	9.6
Week 5	04-06-2024	11:28:42	16.816	97.7	7.65	53660	8.01	165.9	0.01	0.36	2.21	10.366
Week 5	04-06-2024	11:28:43	16.815	97.7	7.65	53660	8.01	165.8	0.01	0.37	2.24	10.398
Week 5	04-06-2024	11:28:44	16.814	97.7	7.65	53660	8.01	165.8	0.01	0.36	2.24	10.647
Week 5	04-06-2024	11:28:45	16.812	97.7	7.65	53660	8.01	165.8	0.01	0.36	2.22	10.628
Week 5	04-06-2024	11:28:46	16.81	97.7	7.65	53659	8.01	165.7	0.01	0.37	2.25	10.627
Week 5	04-06-2024	11:28:47	16.805	97.6	7.65	53660	8.01	165.7	0.01	0.37	2.27	10.783
Week 5	04-06-2024	11:28:48	16.8	97.6	7.64	53659	8.01	165.7	0	0.36	2.23	10.878
Week 5	04-06-2024	11:28:49	16.794	97.6	7.64	53658	8.01	165.7	0.01	0.36	2.22	10.958
Week 5	04-06-2024	11:28:50	16.789	97.6	7.64	53658	8.01	165.6	0.02	0.36	2.21	11.052
Week 5	04-06-2024	11:28:51	16.782	97.6	7.64	53658	8.01	165.6	0.02	0.36	2.23	11.125
Week 5	04-06-2024	11:28:52	16.776	97.6	7.64	53657	8.01	165.6	0.02	0.37	2.24	11.187
Week 5	04-06-2024	11:28:53	16.768	97.5	7.64	53656	8.01	165.5	0.02	0.37	2.25	12.01
Week 5	04-06-2024	11:28:54	16.761	97.5	7.64	53655	8.01	165.5	0.02	0.37	2.25	11.974
Week 5	04-06-2024	11:28:55	16.754	97.5	7.64	53654	8.01	165.5	0.01	0.36	2.23	12.2
Week 5	04-06-2024	11:28:56	16.746	97.5	7.64	53652	8.01	165.4	0.01	0.37	2.24	12.325
Week 5	04-06-2024	11:28:57	16.74	97.5	7.64	53651	8.01	165.4	0.02	0.37	2.26	12.311
Week 5	04-06-2024	11:28:58	16.733	97.5	7.64	53649	8.01	165.4	0	0.36	2.24	12.344
Week 5	04-06-2024	11:28:59	16.728	97.5	7.64	53648	8.01	165.4	0	0.38	2.28	12.446
Week 5	04-06-2024	11:29:00	16.723	97.5	7.65	53646	8.01	165.3	0	0.37	2.26	12.52
Week 5	04-06-2024	11:29:01	16.72	97.5	7.65	53646	8.02	165.3	0	0.37	2.25	12.572
Week 5	04-06-2024	11:29:02	16.716	97.5	7.65	53645	8.02	165.3	0	0.36	2.21	12.663
Week 5	04-06-2024	11:29:03	16.712	97.5	7.65	53644	8.02	165.2	0	0.36	2.22	12.73

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 5	04-06-2024	11:29:04	16.709	97.5	7.65	53644	8.02	165.2	-0.01	0.34	2.15	12.774
Week 5	04-06-2024	11:29:05	16.705	97.5	7.65	53643	8.02	165.2	-0.01	0.35	2.17	12.818
Week 5	04-06-2024	11:29:06	16.701	97.5	7.65	53643	8.02	165.2	0	0.34	2.16	12.877
Week 5	04-06-2024	11:29:07	16.697	97.5	7.65	53642	8.02	165.1	-0.01	0.34	2.17	12.915
Week 5	04-06-2024	11:29:08	16.693	97.5	7.65	53642	8.02	165.1	-0.01	0.35	2.19	12.952
Week 5	04-06-2024	11:29:09	16.689	97.5	7.65	53642	8.02	165.1	0	0.35	2.2	12.994
Week 5	04-06-2024	11:29:10	16.685	97.5	7.66	53642	8.02	165	0.01	0.36	2.2	13.026
Week 5	04-06-2024	11:29:11	16.682	97.5	7.66	53642	8.02	165	0.01	0.37	2.26	13.057
Week 5	04-06-2024	11:29:12	16.68	97.6	7.66	53643	8.02	165	0.01	0.38	2.28	13.083
Week 5	04-06-2024	11:29:13	16.677	97.6	7.66	53643	8.02	165	0.01	0.37	2.27	13.109
Week 5	04-06-2024	11:29:14	16.674	97.6	7.66	53643	8.02	164.9	0.01	0.37	2.24	13.729
Week 5	04-06-2024	11:29:15	16.673	97.6	7.66	53642	8.02	164.9	0.02	0.38	2.28	13.916
Week 5	04-06-2024	11:29:16	16.671	97.6	7.66	53642	8.02	164.9	0.02	0.38	2.29	14.268
Week 5	04-06-2024	11:29:17	16.67	97.6	7.66	53642	8.02	164.9	0.02	0.39	2.32	14.207
Week 5	04-06-2024	11:29:18	16.668	97.6	7.66	53642	8.02	164.8	0.02	0.39	2.33	14.144
Week 5	04-06-2024	11:29:19	16.668	97.6	7.66	53642	8.02	164.8	0.02	0.38	2.3	14.257
Week 5	04-06-2024	11:29:20	16.667	97.6	7.67	53643	8.02	164.8	0.02	0.39	2.31	14.391
Week 5	04-06-2024	11:29:21	16.666	97.6	7.67	53644	8.02	164.8	0	0.39	2.33	14.505
Week 5	04-06-2024	11:29:22	16.665	97.6	7.67	53645	8.02	164.7	0.01	0.37	2.27	14.592
Week 5	04-06-2024	11:29:23	16.664	97.6	7.67	53646	8.02	164.7	0.01	0.38	2.29	14.692
Week 5	04-06-2024	11:29:24	16.663	97.6	7.67	53647	8.02	164.7	0	0.4	2.36	15.402
Week 5	04-06-2024	11:29:25	16.662	97.6	7.67	53647	8.02	164.6	0.01	0.41	2.4	15.586
Week 5	04-06-2024	11:29:26	16.662	97.6	7.67	53648	8.02	164.6	0	0.41	2.39	15.646
Week 5	04-06-2024	11:29:27	16.661	97.6	7.67	53649	8.02	164.6	-0.01	0.39	2.34	15.67
Week 5	04-06-2024	11:29:28	16.66	97.6	7.67	53651	8.02	164.6	0	0.4	2.36	15.832
Week 5	04-06-2024	11:29:29	16.659	97.6	7.67	53652	8.02	164.5	0	0.38	2.31	15.836
Week 5	04-06-2024	11:29:30	16.658	97.6	7.67	53653	8.02	164.5	0	0.38	2.29	15.857
Week 5	04-06-2024	11:29:31	16.657	97.6	7.67	53653	8.02	164.5	0	0.37	2.24	15.919
Week 5	04-06-2024	11:29:32	16.657	97.6	7.67	53653	8.02	164.5	0.02	0.36	2.23	15.943
Week 5	04-06-2024	11:29:33	16.656	97.6	7.67	53654	8.02	164.4	0.03	0.37	2.28	15.97
Week 5	04-06-2024	11:29:34	16.656	97.6	7.67	53653	8.02	164.4	0.03	0.37	2.26	16.002
Week 5	04-06-2024	11:29:35	16.655	97.6	7.67	53653	8.02	164.4	0.07	0.36	2.21	16.031
Week 5	04-06-2024	11:29:36	16.655	97.6	7.67	53652	8.02	164.4	0.08	0.36	2.21	16.055
Week 5	04-06-2024	11:29:37	16.654	97.6	7.67	53652	8.02	164.3	0.08	0.35	2.2	16.086
Week 5	04-06-2024	11:29:38	16.654	97.6	7.67	53652	8.02	164.3	0.08	0.35	2.2	16.117
Week 5	04-06-2024	11:29:39	16.653	97.6	7.67	53652	8.02	164.3	0.07	0.35	2.2	16.141
Week 5	04-06-2024	11:29:40	16.652	97.6	7.67	53651	8.02	164.2	0.04	0.37	2.27	16.171
Week 5	04-06-2024	11:29:41	16.652	97.6	7.67	53651	8.02	164.2	0.04	0.38	2.31	16.84
Week 5	04-06-2024	11:29:42	16.651	97.6	7.67	53651	8.02	164.2	0.05	0.4	2.36	16.779
Week 5	04-06-2024	11:29:43	16.65	97.6	7.67	53651	8.02	164.2	0.05	0.4	2.35	16.891
Week 5	04-06-2024	11:29:44	16.649	97.6	7.67	53650	8.02	164.1	0.08	0.39	2.34	17.048
Week 5	04-06-2024	11:29:45	16.647	97.6	7.67	53650	8.02	164.1	0.08	0.4	2.37	17.213
Week 5	04-06-2024	11:29:46	16.646	97.6	7.67	53650	8.02	164.1	0.08	0.41	2.4	17.196
Week 5	04-06-2024	11:29:47	16.645	97.6	7.67	53649	8.02	164.1	0.07	0.4	2.37	17.216
Week 5	04-06-2024	11:29:48	16.644	97.6	7.67	53649	8.02	164	0.05	0.41	2.39	17.263
Week 5	04-06-2024	11:29:49	16.643	97.6	7.67	53648	8.02	164	0.02	0.4	2.38	17.307
Week 5	04-06-2024	11:29:50	16.642	97.6	7.67	53648	8.02	164	0.02	0.4	2.38	17.332
Week 5	04-06-2024	11:29:51	16.641	97.6	7.67	53647	8.02	164	0.02	0.4	2.36	17.369
Week 5	04-06-2024	11:29:52	16.64	97.6	7.67	53647	8.02	163.9	0.02	0.4	2.36	17.436
Week 5	04-06-2024	11:29:53	16.639	97.6	7.67	53647	8.02	163.9	0.03	0.39	2.34	17.474
Week 5	04-06-2024	11:29:54	16.638	97.6	7.67	53646	8.02	163.9	0.03	0.38	2.28	18.215
Week 5	04-06-2024	11:29:55	16.638	97.6	7.67	53646	8.02	163.9	0.04	0.37	2.25	18.174
Week 5	04-06-2024	11:29:56	16.638	97.6	7.67	53646	8.02	163.8	0.04	0.36	2.21	18.109
Week 5	04-06-2024	11:29:57	16.637	97.6	7.67	53645	8.02	163.8	0.03	0.35	2.17	18.44
Week 5	04-06-2024	11:29:58	16.637	97.6	7.67	53645	8.02	163.8	0.03	0.35	2.17	18.614
Week 5	04-06-2024	11:29:59	16.637	97.6	7.67	53645	8.02	163.8	0.02	0.34	2.17	18.652
Week 5	04-06-2024	11:30:00	16.636	97.6	7.67	53645	8.02	163.7	0.02	0.34	2.16	18.692
Week 5	04-06-2024	11:30:01	16.635	97.6	7.67	53644	8.02	163.7	0.02	0.33	2.12	18.755
Week 5	04-06-2024	11:30:02	16.634	97.6	7.67	53644	8.02	163.7	0.02	0.33	2.11	18.815
Week 5	04-06-2024	11:30:03	16.633	97.6	7.67	53644	8.02	163.7	0.02	0.32	2.09	18.877
Week 5	04-06-2024	11:30:04	16.632	97.6	7.67	53644	8.02	163.7	0.03	0.34	2.14	18.929
Week 5	04-06-2024	11:30:05	16.631	97.6	7.67	53643	8.02	163.6	0.03	0.35	2.19	18.952
Week 5	04-06-2024	11:30:06	16.629	97.5	7.66	53643	8.02	163.6	0.02	0.34	2.15	18.983
Week 5	04-06-2024	11:30:07	16.628	97.5	7.66	53643	8.02	163.6	0.02	0.34	2.15	19.044
Week 5	04-06-2024	11:30:08	16.627	97.5	7.66	53642	8.02	163.6	0.02	0.34	2.16	19.088
Week 5	04-06-2024	11:30:09	16.626	97.5	7.66	53642	8.02	163.5	0.02	0.35	2.2	19.133
Week 5	04-06-2024	11:30:10	16.624	97.5	7.66	53642	8.02	163.5	0.02	0.34	2.15	19.911
Week 5	04-06-2024	11:30:11	16.623	97.5	7.66	53642	8.02	163.5	0.03	0.34	2.16	19.771

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 5	04-06-2024	11:30:12	16.621	97.5	7.66	53642	8.02	163.5	0.03	0.35	2.18	20.051
Week 5	04-06-2024	11:30:13	16.621	97.5	7.66	53642	8.02	163.4	0.03	0.34	2.16	19.983
Week 5	04-06-2024	11:30:14	16.62	97.5	7.66	53642	8.02	163.4	0.03	0.34	2.13	20.003
Week 5	04-06-2024	11:30:15	16.619	97.5	7.66	53641	8.02	163.4	0.03	0.32	2.06	20.076
Week 5	04-06-2024	11:30:16	16.619	97.5	7.66	53641	8.02	163.4	0.03	0.31	2.03	20.135
Week 5	04-06-2024	11:30:17	16.618	97.5	7.66	53641	8.02	163.3	0.02	0.32	2.06	20.244
Week 5	04-06-2024	11:30:18	16.618	97.5	7.66	53641	8.02	163.3	0.02	0.32	2.07	20.307
Week 5	04-06-2024	11:30:19	16.617	97.5	7.66	53641	8.02	163.3	0.01	0.32	2.06	20.379
Week 5	04-06-2024	11:30:20	16.616	97.5	7.66	53641	8.02	163.3	0.01	0.3	2.02	20.46
Week 5	04-06-2024	11:30:21	16.615	97.5	7.66	53640	8.02	163.3	0.01	0.32	2.09	20.529
Week 5	04-06-2024	11:30:22	16.615	97.5	7.66	53640	8.02	163.2	0.01	0.33	2.13	21.212
Week 5	04-06-2024	11:30:23	16.614	97.5	7.66	53640	8.02	163.2	0.02	0.32	2.09	21.263
Week 5	04-06-2024	11:30:24	16.614	97.5	7.66	53639	8.02	163.2	0.02	0.32	2.08	21.613
Week 5	04-06-2024	11:30:25	16.613	97.5	7.66	53639	8.02	163.2	0.02	0.34	2.14	21.521
Week 5	04-06-2024	11:30:26	16.613	97.5	7.66	53639	8.02	163.1	0.02	0.36	2.22	21.326
Week 5	04-06-2024	11:30:27	16.612	97.5	7.66	53639	8.02	163.1	0.03	0.36	2.22	21.258
Week 5	04-06-2024	11:30:28	16.611	97.5	7.66	53638	8.02	163.1	0.02	0.36	2.23	21.338
Week 5	04-06-2024	11:30:29	16.61	97.5	7.66	53638	8.02	163.1	0.02	0.36	2.21	21.358
Week 5	04-06-2024	11:30:30	16.61	97.5	7.66	53638	8.02	163	0.02	0.37	2.24	21.389
Week 5	04-06-2024	11:30:31	16.609	97.5	7.66	53638	8.02	163	0.02	0.38	2.28	21.408
Week 5	04-06-2024	11:30:32	16.609	97.5	7.66	53638	8.02	163	0.02	0.38	2.29	21.445
Week 5	04-06-2024	11:30:33	16.609	97.5	7.66	53637	8.02	163	0.02	0.37	2.26	21.482
Week 5	04-06-2024	11:30:34	16.609	97.5	7.66	53638	8.02	163	0.04	0.38	2.3	21.521
Week 5	04-06-2024	11:30:35	16.608	97.5	7.66	53637	8.02	162.9	0.05	0.39	2.32	21.549
Week 5	04-06-2024	11:30:36	16.608	97.5	7.66	53637	8.02	162.9	0.05	0.39	2.32	21.579
Week 5	04-06-2024	11:30:37	16.608	97.5	7.66	53638	8.02	162.9	0.04	0.39	2.31	21.627
Week 5	04-06-2024	11:30:38	16.609	97.5	7.66	53638	8.02	162.9	0.05	0.4	2.36	21.665
Week 5	04-06-2024	11:30:39	16.609	97.5	7.66	53639	8.02	162.8	0.04	0.4	2.37	21.697
Week 5	04-06-2024	11:30:40	16.609	97.5	7.67	53639	8.02	162.8	0.05	0.4	2.37	21.707
Week 5	04-06-2024	11:30:41	16.61	97.5	7.67	53639	8.02	162.8	0.05	0.39	2.32	21.705
Week 5	04-06-2024	11:30:42	16.61	97.5	7.67	53639	8.02	162.8	0.05	0.39	2.32	21.683
Week 5	04-06-2024	11:30:43	16.611	97.5	7.67	53640	8.02	162.8	0.05	0.38	2.28	20.866
Week 5	04-06-2024	11:30:44	16.612	97.5	7.67	53640	8.02	162.7	0.06	0.38	2.28	20.564
Week 5	04-06-2024	11:30:45	16.612	97.5	7.67	53640	8.02	162.7	0.06	0.36	2.24	20.22
Week 5	04-06-2024	11:30:46	16.613	97.5	7.67	53641	8.02	162.7	0.06	0.35	2.2	20.097
Week 5	04-06-2024	11:30:47	16.614	97.5	7.67	53641	8.02	162.7	0.06	0.35	2.2	19.933
Week 5	04-06-2024	11:30:48	16.615	97.5	7.67	53641	8.02	162.7	0.05	0.34	2.14	19.804
Week 5	04-06-2024	11:30:49	16.616	97.6	7.67	53642	8.02	162.6	0.04	0.34	2.14	19.687
Week 5	04-06-2024	11:30:50	16.617	97.6	7.67	53642	8.02	162.6	0.03	0.33	2.1	19.591
Week 5	04-06-2024	11:30:51	16.618	97.6	7.67	53642	8.02	162.6	0.02	0.32	2.09	19.525
Week 5	04-06-2024	11:30:52	16.619	97.6	7.67	53643	8.02	162.6	0.02	0.33	2.12	19.467
Week 5	04-06-2024	11:30:53	16.621	97.6	7.67	53643	8.02	162.5	0.02	0.33	2.1	19.416
Week 5	04-06-2024	11:30:54	16.623	97.6	7.67	53644	8.02	162.5	0.02	0.32	2.09	19.366
Week 5	04-06-2024	11:30:55	16.625	97.6	7.67	53644	8.02	162.5	0.01	0.33	2.11	19.328
Week 5	04-06-2024	11:30:56	16.627	97.6	7.67	53645	8.02	162.5	0	0.34	2.13	19.295
Week 5	04-06-2024	11:30:57	16.629	97.6	7.67	53645	8.02	162.4	0	0.34	2.16	19.251
Week 5	04-06-2024	11:30:58	16.63	97.6	7.67	53646	8.02	162.4	0	0.35	2.18	19.223
Week 5	04-06-2024	11:30:59	16.632	97.6	7.67	53647	8.02	162.4	-0.01	0.34	2.15	19.186
Week 5	04-06-2024	11:31:00	16.634	97.6	7.67	53647	8.02	162.4	-0.01	0.34	2.16	19.155
Week 5	04-06-2024	11:31:01	16.635	97.6	7.67	53647	8.02	162.3	-0.01	0.34	2.14	19.138
Week 5	04-06-2024	11:31:02	16.637	97.6	7.67	53648	8.02	162.3	0	0.35	2.17	19.11
Week 5	04-06-2024	11:31:03	16.638	97.6	7.67	53648	8.02	162.3	0	0.34	2.14	19.076
Week 5	04-06-2024	11:31:04	16.639	97.6	7.67	53648	8.02	162.3	0.01	0.35	2.18	19.058
Week 5	04-06-2024	11:31:05	16.639	97.6	7.67	53648	8.02	162.3	0.01	0.34	2.14	19.032
Week 5	04-06-2024	11:31:06	16.64	97.6	7.67	53648	8.02	162.2	0	0.34	2.17	19.007
Week 5	04-06-2024	11:31:07	16.64	97.6	7.67	53648	8.02	162.2	0.01	0.34	2.15	18.976
Week 5	04-06-2024	11:31:08	16.64	97.6	7.67	53648	8.02	162.2	0.01	0.34	2.16	18.134
Week 5	04-06-2024	11:31:09	16.64	97.6	7.67	53648	8.02	162.2	0.02	0.34	2.14	18.224
Week 5	04-06-2024	11:31:10	16.64	97.6	7.67	53648	8.02	162.1	0.02	0.35	2.17	17.91
Week 5	04-06-2024	11:31:11	16.64	97.6	7.67	53648	8.02	162.1	0.02	0.34	2.16	17.852
Week 5	04-06-2024	11:31:12	16.64	97.6	7.67	53648	8.02	162.1	0.02	0.36	2.21	17.805
Week 5	04-06-2024	11:31:13	16.64	97.6	7.67	53648	8.02	162.1	0.02	0.37	2.27	17.819
Week 5	04-06-2024	11:31:14	16.64	97.6	7.67	53648	8.02	162	0.03	0.38	2.28	17.809
Week 5	04-06-2024	11:31:15	16.641	97.6	7.67	53648	8.02	162	0.03	0.37	2.26	17.653
Week 5	04-06-2024	11:31:16	16.642	97.6	7.67	53648	8.02	162	0.03	0.38	2.29	17.569
Week 5	04-06-2024	11:31:17	16.643	97.6	7.67	53648	8.02	162	0.02	0.37	2.25	16.781
Week 5	04-06-2024	11:31:18	16.644	97.6	7.67	53649	8.02	162	0.02	0.36	2.23	16.617
Week 5	04-06-2024	11:31:19	16.645	97.6	7.67	53649	8.02	161.9	0.02	0.35	2.17	16.714

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 5	04-06-2024	11:31:20	16.646	97.7	7.67	53649	8.02	161.9	0.03	0.34	2.16	16.649
Week 5	04-06-2024	11:31:21	16.648	97.7	7.67	53649	8.02	161.9	0.03	0.34	2.16	16.426
Week 5	04-06-2024	11:31:22	16.649	97.7	7.67	53650	8.02	161.9	0.03	0.34	2.13	16.257
Week 5	04-06-2024	11:31:23	16.651	97.7	7.67	53650	8.02	161.8	0.03	0.33	2.11	16.231
Week 5	04-06-2024	11:31:24	16.652	97.7	7.67	53650	8.02	161.8	0.03	0.31	2.05	16.198
Week 5	04-06-2024	11:31:25	16.654	97.7	7.67	53650	8.02	161.8	0.04	0.31	2.04	16.144
Week 5	04-06-2024	11:31:26	16.655	97.7	7.67	53650	8.02	161.8	0.03	0.31	2.04	16.099
Week 5	04-06-2024	11:31:27	16.656	97.7	7.68	53650	8.02	161.8	0.03	0.3	2.01	16.058
Week 5	04-06-2024	11:31:28	16.657	97.7	7.68	53650	8.02	161.7	0.03	0.31	2.04	16.034
Week 5	04-06-2024	11:31:29	16.658	97.7	7.68	53650	8.02	161.7	0.03	0.32	2.07	16.011
Week 5	04-06-2024	11:31:30	16.659	97.7	7.68	53651	8.02	161.7	0.04	0.34	2.13	15.967
Week 5	04-06-2024	11:31:31	16.66	97.7	7.68	53651	8.02	161.7	0.04	0.34	2.14	15.929
Week 5	04-06-2024	11:31:32	16.661	97.7	7.68	53651	8.02	161.6	0.05	0.33	2.12	15.224
Week 5	04-06-2024	11:31:33	16.662	97.8	7.68	53651	8.02	161.6	0.05	0.34	2.13	15.23
Week 5	04-06-2024	11:31:34	16.663	97.8	7.68	53651	8.02	161.6	0.04	0.33	2.11	15.231
Week 5	04-06-2024	11:31:35	16.663	97.8	7.68	53651	8.02	161.6	0.04	0.33	2.1	15.042
Week 5	04-06-2024	11:31:36	16.664	97.8	7.68	53651	8.02	161.6	0.04	0.33	2.12	15.025
Week 5	04-06-2024	11:31:37	16.665	97.8	7.68	53651	8.02	161.5	0.03	0.33	2.11	15.045
Week 5	04-06-2024	11:31:38	16.665	97.8	7.68	53651	8.02	161.5	0.02	0.34	2.14	15.003
Week 5	04-06-2024	11:31:39	16.666	97.8	7.68	53651	8.02	161.5	0.02	0.33	2.12	14.889
Week 5	04-06-2024	11:31:40	16.667	97.8	7.68	53651	8.02	161.5	0.02	0.33	2.12	14.838
Week 5	04-06-2024	11:31:41	16.669	97.8	7.68	53651	8.02	161.5	0.04	0.33	2.1	13.877
Week 5	04-06-2024	11:31:42	16.672	97.8	7.68	53651	8.02	161.4	0.03	0.32	2.07	14.07
Week 5	04-06-2024	11:31:43	16.675	97.8	7.68	53652	8.02	161.4	0.03	0.32	2.07	13.659
Week 5	04-06-2024	11:31:44	16.679	97.8	7.68	53652	8.02	161.4	0.03	0.31	2.05	13.606
Week 5	04-06-2024	11:31:45	16.682	97.8	7.68	53653	8.02	161.4	0.02	0.33	2.1	13.519
Week 5	04-06-2024	11:31:46	16.687	97.9	7.68	53654	8.02	161.4	0.01	0.34	2.15	13.383
Week 5	04-06-2024	11:31:47	16.691	97.9	7.68	53654	8.02	161.3	0	0.33	2.13	13.32
Week 5	04-06-2024	11:31:48	16.696	97.9	7.68	53655	8.02	161.3	-0.01	0.34	2.16	13.262
Week 5	04-06-2024	11:31:49	16.701	97.9	7.68	53656	8.02	161.3	-0.01	0.35	2.19	13.185
Week 5	04-06-2024	11:31:50	16.707	97.9	7.68	53657	8.02	161.3	-0.01	0.35	2.17	13.085
Week 5	04-06-2024	11:31:51	16.713	97.9	7.68	53658	8.02	161.2	0	0.35	2.17	13.02
Week 5	04-06-2024	11:31:52	16.719	97.9	7.68	53658	8.02	161.2	0	0.35	2.17	12.112
Week 5	04-06-2024	11:31:53	16.726	97.9	7.68	53659	8.02	161.2	0	0.35	2.17	12.106
Week 5	04-06-2024	11:31:54	16.732	98	7.68	53659	8.02	161.2	0	0.36	2.21	11.993
Week 5	04-06-2024	11:31:55	16.736	98	7.68	53659	8.02	161.2	0	0.36	2.21	11.878
Week 5	04-06-2024	11:31:56	16.741	98	7.68	53660	8.02	161.1	-0.01	0.35	2.19	11.902
Week 5	04-06-2024	11:31:57	16.744	97.9	7.68	53660	8.02	161.1	-0.01	0.33	2.11	11.894
Week 5	04-06-2024	11:31:58	16.748	97.9	7.68	53660	8.02	161.1	0	0.33	2.12	11.847
Week 5	04-06-2024	11:31:59	16.751	97.9	7.68	53660	8.02	161.1	0	0.32	2.09	11.79
Week 5	04-06-2024	11:32:00	16.754	97.9	7.68	53661	8.02	161	0.01	0.32	2.07	11.749
Week 5	04-06-2024	11:32:01	16.757	97.9	7.68	53661	8.02	161	0	0.33	2.1	11.673
Week 5	04-06-2024	11:32:02	16.759	97.9	7.68	53661	8.02	161	0.01	0.31	2.05	11.614
Week 5	04-06-2024	11:32:03	16.761	97.9	7.67	53660	8.02	161	0.01	0.32	2.07	11.574
Week 5	04-06-2024	11:32:04	16.763	97.9	7.67	53660	8.02	160.9	0.01	0.32	2.07	10.843
Week 5	04-06-2024	11:32:05	16.764	97.9	7.67	53660	8.02	160.9	0.01	0.31	2.05	11.23
Week 5	04-06-2024	11:32:06	16.765	97.9	7.67	53661	8.02	160.9	0.01	0.33	2.12	10.79
Week 5	04-06-2024	11:32:07	16.765	97.9	7.67	53661	8.02	160.9	0.01	0.33	2.13	10.57
Week 5	04-06-2024	11:32:08	16.766	97.9	7.67	53661	8.02	160.9	0.02	0.35	2.2	10.696
Week 5	04-06-2024	11:32:09	16.767	97.9	7.67	53661	8.02	160.8	0.03	0.36	2.2	10.692
Week 5	04-06-2024	11:32:10	16.768	97.9	7.67	53661	8.02	160.8	0.03	0.36	2.21	10.624
Week 5	04-06-2024	11:32:11	16.769	97.9	7.67	53662	8.02	160.8	0.04	0.35	2.18	10.526
Week 5	04-06-2024	11:32:12	16.77	97.8	7.67	53662	8.02	160.8	0.04	0.34	2.16	10.459
Week 5	04-06-2024	11:32:13	16.771	97.8	7.67	53662	8.02	160.7	0.03	0.36	2.22	10.383
Week 5	04-06-2024	11:32:14	16.771	97.8	7.67	53662	8.02	160.7	0.03	0.36	2.22	10.306
Week 5	04-06-2024	11:32:15	16.771	97.8	7.67	53662	8.02	160.7	0.04	0.36	2.21	10.24
Week 5	04-06-2024	11:32:16	16.771	97.8	7.67	53662	8.02	160.7	0.03	0.36	2.24	10.154
Week 5	04-06-2024	11:32:17	16.771	97.8	7.67	53662	8.02	160.7	0.02	0.35	2.17	9.342
Week 5	04-06-2024	11:32:18	16.771	97.8	7.67	53662	8.02	160.6	0.02	0.35	2.19	9.215
Week 5	04-06-2024	11:32:19	16.771	97.8	7.67	53662	8.02	160.6	0.04	0.35	2.17	9.158
Week 5	04-06-2024	11:32:20	16.771	97.8	7.67	53662	8.02	160.6	0.04	0.35	2.17	8.859
Week 5	04-06-2024	11:32:21	16.772	97.8	7.67	53662	8.02	160.6	0.04	0.35	2.17	8.75
Week 5	04-06-2024	11:32:22	16.773	97.8	7.67	53662	8.02	160.5	0.03	0.34	2.17	8.711
Week 5	04-06-2024	11:32:23	16.775	97.8	7.67	53663	8.02	160.5	0.01	0.35	2.2	8.602
Week 5	04-06-2024	11:32:24	16.777	97.8	7.67	53663	8.02	160.5	0.01	0.36	2.24	8.486
Week 5	04-06-2024	11:32:25	16.779	97.9	7.67	53663	8.02	160.5	0	0.36	2.24	8.396
Week 5	04-06-2024	11:32:26	16.781	97.9	7.67	53663	8.02	160.5	0	0.38	2.3	7.556
Week 5	04-06-2024	11:32:27	16.785	97.9	7.67	53663	8.02	160.4	0	0.38	2.29	7.578

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 5	04-06-2024	11:32:28	16.789	97.9	7.67	53663	8.02	160.4	0.01	0.4	2.35	7.078
Week 5	04-06-2024	11:32:29	16.794	97.9	7.67	53664	8.02	160.4	0	0.41	2.39	7.003
Week 5	04-06-2024	11:32:30	16.798	97.9	7.67	53665	8.02	160.4	0	0.42	2.44	6.954
Week 5	04-06-2024	11:32:31	16.803	97.9	7.67	53666	8.02	160.3	0	0.42	2.45	6.911
Week 5	04-06-2024	11:32:32	16.808	97.9	7.67	53668	8.02	160.3	0	0.43	2.46	6.809
Week 5	04-06-2024	11:32:33	16.813	97.9	7.67	53669	8.02	160.3	0.01	0.45	2.53	6.739
Week 5	04-06-2024	11:32:34	16.818	98	7.67	53671	8.02	160.3	0	0.43	2.46	6.695
Week 5	04-06-2024	11:32:35	16.822	98	7.67	53672	8.02	160.3	-0.01	0.41	2.4	6.645
Week 5	04-06-2024	11:32:36	16.825	98	7.67	53673	8.02	160.2	-0.01	0.41	2.39	6.575
Week 5	04-06-2024	11:32:37	16.828	98	7.67	53675	8.02	160.2	-0.01	0.4	2.38	6.506
Week 5	04-06-2024	11:32:38	16.831	98	7.67	53677	8.02	160.2	-0.01	0.4	2.35	5.748
Week 5	04-06-2024	11:32:39	16.834	98	7.67	53680	8.02	160.2	-0.01	0.4	2.38	5.716
Week 5	04-06-2024	11:32:40	16.836	98	7.67	53683	8.02	160.1	0	0.38	2.3	5.526
Week 5	04-06-2024	11:32:41	16.837	97.9	7.66	53686	8.02	160.1	0	0.37	2.27	5.245
Week 5	04-06-2024	11:32:42	16.838	97.9	7.66	53689	8.02	160.1	0	0.37	2.25	5.252
Week 5	04-06-2024	11:32:43	16.839	97.9	7.66	53692	8.02	160.1	0	0.36	2.22	5.198
Week 5	04-06-2024	11:32:44	16.839	97.9	7.66	53694	8.02	160	0	0.36	2.2	5.04
Week 5	04-06-2024	11:32:45	16.84	97.9	7.66	53695	8.02	160	0.01	0.37	2.25	4.924
Week 5	04-06-2024	11:32:46	16.84	97.9	7.66	53696	8.02	160	0	0.38	2.28	4.804
Week 5	04-06-2024	11:32:47	16.84	97.9	7.66	53695	8.02	160	0	0.39	2.32	4.696
Week 5	04-06-2024	11:32:48	16.84	97.9	7.66	53691	8.02	160	-0.01	0.39	2.32	4.604
Week 5	04-06-2024	11:32:49	16.84	97.9	7.66	53685	8.02	159.9	-0.01	0.4	2.37	3.7
Week 5	04-06-2024	11:32:50	16.84	97.9	7.66	53679	8.02	159.9	0	0.4	2.36	3.618
Week 5	04-06-2024	11:32:51	16.84	97.9	7.66	53675	8.02	159.9	0	0.42	2.44	3.273
Week 5	04-06-2024	11:32:52	16.84	97.9	7.66	53674	8.02	159.9	0.01	0.42	2.43	3.2
Week 5	04-06-2024	11:32:53	16.841	97.9	7.66	53671	8.02	159.8	0	0.43	2.47	3.171
Week 5	04-06-2024	11:32:54	16.841	97.9	7.66	53665	8.02	159.8	0	0.44	2.51	3.013
Week 5	04-06-2024	11:32:55	16.841	97.9	7.66	53658	8.02	159.8	0	0.43	2.48	2.823
Week 5	04-06-2024	11:32:56	16.841	97.9	7.66	53652	8.02	159.8	0	0.44	2.52	2.73
Week 5	04-06-2024	11:32:57	16.841	97.9	7.67	53646	8.02	159.8	0	0.44	2.51	2.618
Week 5	04-06-2024	11:32:58	16.841	98	7.67	53641	8.02	159.7	-0.01	0.44	2.5	2.506
Week 5	04-06-2024	11:32:59	16.842	98	7.67	53637	8.02	159.7	-0.01	0.44	2.53	2.404
Week 5	04-06-2024	11:33:00	16.842	98	7.67	53636	8.02	159.7	-0.01	0.43	2.49	1.503
Week 5	04-06-2024	11:33:01	16.842	98	7.67	53644	8.02	159.7	0	0.44	2.51	1.361
Week 5	04-06-2024	11:33:02	16.842	98	7.67	53657	8.02	159.6	0	0.42	2.43	1.165
Week 5	04-06-2024	11:33:03	16.842	98	7.67	53667	8.02	159.6	0.01	0.42	2.44	1.034
Week 5	04-06-2024	11:33:04	16.842	98	7.67	53675	8.02	159.6	0.01	0.41	2.4	0.924
Week 5	04-06-2024	11:33:05	16.842	98	7.67	53675	8.02	159.6	0	0.41	2.41	0.789
Week 5	04-06-2024	11:33:06	16.841	98	7.67	53675	8.02	159.5	0	0.39	2.35	0.693
Week 5	04-06-2024	11:33:07	16.842	98	7.67	53680	8.02	159.5	0	0.38	2.31	0.61
Week 5	04-06-2024	11:33:08	16.842	98	7.67	53685	8.02	159.5	0.02	0.39	2.32	0.546
Week 6	12-06-2024	10:59:32	16.786	100.3	9.72	53558	8.05	148.9	2.2	0.38	2.31	0.091
Week 6	12-06-2024	10:59:33	16.8	100.3	7.86	53563	8.05	148.7	2.14	0.35	2.2	0.096
Week 6	12-06-2024	10:59:34	16.808	100.1	7.84	53577	8.05	148.7	2.1	0.33	2.12	0.103
Week 6	12-06-2024	10:59:35	16.816	99.9	7.83	53579	8.05	148.7	2.01	0.31	2.03	0.112
Week 6	12-06-2024	10:59:36	16.818	99.8	7.81	53580	8.05	148.7	1.94	0.3	2.02	0.119
Week 6	12-06-2024	10:59:37	16.82	99.7	7.8	53582	8.05	148.7	1.86	0.28	1.95	0.128
Week 6	12-06-2024	10:59:38	16.822	99.5	7.8	53584	8.05	148.7	1.78	0.25	1.82	0.142
Week 6	12-06-2024	10:59:39	16.823	99.4	7.79	53586	8.05	148.6	1.72	0.22	1.72	0.987
Week 6	12-06-2024	10:59:40	16.823	99.3	7.78	53588	8.05	148.6	1.65	0.2	1.62	1.044
Week 6	12-06-2024	10:59:41	16.822	99.2	7.77	53590	8.05	148.6	1.6	0.18	1.57	1.233
Week 6	12-06-2024	10:59:42	16.822	99.1	7.76	53593	8.05	148.6	1.53	0.17	1.53	1.301
Week 6	12-06-2024	10:59:43	16.821	99	7.76	53594	8.05	148.6	1.46	0.19	1.6	1.301
Week 6	12-06-2024	10:59:44	16.821	98.9	7.75	53595	8.05	148.6	1.38	0.19	1.61	1.294
Week 6	12-06-2024	10:59:45	16.821	98.9	7.74	53596	8.05	148.6	0.62	0.2	1.63	1.344
Week 6	12-06-2024	10:59:46	16.82	98.8	7.74	53599	8.05	148.6	0.14	0.21	1.67	1.413
Week 6	12-06-2024	10:59:47	16.82	98.7	7.73	53602	8.05	148.6	0.1	0.21	1.66	1.466
Week 6	12-06-2024	10:59:48	16.82	98.5	7.71	53603	8.05	148.5	0.1	0.19	1.6	1.525
Week 6	12-06-2024	10:59:49	16.82	98.3	7.7	53606	8.05	148.5	0.08	0.19	1.6	1.57
Week 6	12-06-2024	10:59:50	16.819	98.2	7.69	53607	8.05	148.5	0.09	0.19	1.59	1.615
Week 6	12-06-2024	10:59:51	16.818	98	7.68	53609	8.05	148.5	0.1	0.19	1.61	1.655
Week 6	12-06-2024	10:59:52	16.817	97.9	7.67	53610	8.05	148.5	0.1	0.2	1.66	1.697
Week 6	12-06-2024	10:59:53	16.817	97.8	7.66	53611	8.05	148.5	0.09	0.21	1.66	1.728
Week 6	12-06-2024	10:59:54	16.816	97.7	7.65	53612	8.05	148.5	0.07	0.2	1.65	1.769
Week 6	12-06-2024	10:59:55	16.816	97.6	7.64	53612	8.05	148.5	0.06	0.22	1.71	2.603
Week 6	12-06-2024	10:59:56	16.816	97.5	7.63	53613	8.05	148.5	0.05	0.21	1.68	2.539
Week 6	12-06-2024	10:59:57	16.815	97.4	7.63	53614	8.05	148.4	0.05	0.2	1.64	2.579
Week 6	12-06-2024	10:59:58	16.814	97.3	7.62	53615	8.05	148.4	0.05	0.21	1.68	2.712

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 6	12-06-2024	10:59:59	16.814	97.2	7.61	53615	8.05	148.4	0.04	0.22	1.71	2.719
Week 6	12-06-2024	11:00:00	16.813	97.1	7.61	53616	8.05	148.4	0.04	0.22	1.7	2.743
Week 6	12-06-2024	11:00:01	16.813	97.1	7.6	53617	8.05	148.4	0.05	0.23	1.75	2.816
Week 6	12-06-2024	11:00:02	16.812	97	7.6	53617	8.05	148.3	0.06	0.23	1.74	2.887
Week 6	12-06-2024	11:00:03	16.812	96.9	7.59	53617	8.05	148.3	0.07	0.22	1.73	2.917
Week 6	12-06-2024	11:00:04	16.811	96.9	7.59	53617	8.05	148.3	0.07	0.24	1.78	2.95
Week 6	12-06-2024	11:00:05	16.811	96.8	7.58	53618	8.05	148.3	0.08	0.25	1.82	2.984
Week 6	12-06-2024	11:00:06	16.81	96.8	7.58	53619	8.05	148.3	0.08	0.24	1.79	3.022
Week 6	12-06-2024	11:00:07	16.81	96.7	7.57	53620	8.05	148.2	0.08	0.26	1.84	3.068
Week 6	12-06-2024	11:00:08	16.809	96.7	7.57	53622	8.04	148.2	0.09	0.26	1.85	3.103
Week 6	12-06-2024	11:00:09	16.809	96.6	7.57	53623	8.04	148.2	0.08	0.25	1.82	3.18
Week 6	12-06-2024	11:00:10	16.809	96.6	7.56	53624	8.04	148.2	0.08	0.25	1.82	3.243
Week 6	12-06-2024	11:00:11	16.808	96.5	7.56	53625	8.04	148.2	0.08	0.25	1.83	3.29
Week 6	12-06-2024	11:00:12	16.808	96.5	7.56	53626	8.04	148.1	0.09	0.23	1.75	4.072
Week 6	12-06-2024	11:00:13	16.807	96.5	7.55	53628	8.04	148.1	0.09	0.24	1.8	3.964
Week 6	12-06-2024	11:00:14	16.807	96.4	7.55	53629	8.04	148.1	0.09	0.24	1.77	4.21
Week 6	12-06-2024	11:00:15	16.807	96.4	7.55	53631	8.04	148.1	0.09	0.23	1.73	4.212
Week 6	12-06-2024	11:00:16	16.806	96.4	7.55	53634	8.04	148.1	0.09	0.21	1.68	4.221
Week 6	12-06-2024	11:00:17	16.806	96.3	7.54	53636	8.04	148	0.09	0.2	1.66	4.328
Week 6	12-06-2024	11:00:18	16.806	96.3	7.54	53638	8.04	148	0.08	0.19	1.6	4.414
Week 6	12-06-2024	11:00:19	16.805	96.3	7.54	53639	8.04	148	0.08	0.18	1.58	4.468
Week 6	12-06-2024	11:00:20	16.805	96.2	7.54	53640	8.04	148	0.08	0.19	1.61	4.521
Week 6	12-06-2024	11:00:21	16.805	96.2	7.53	53640	8.04	148	0.08	0.2	1.63	4.568
Week 6	12-06-2024	11:00:22	16.805	96.2	7.53	53641	8.04	148	0.08	0.2	1.64	4.615
Week 6	12-06-2024	11:00:23	16.805	96.2	7.53	53642	8.04	147.9	0.07	0.23	1.75	4.64
Week 6	12-06-2024	11:00:24	16.804	96.1	7.53	53642	8.04	147.9	0.08	0.22	1.72	4.666
Week 6	12-06-2024	11:00:25	16.804	96.1	7.53	53643	8.04	147.9	0.07	0.23	1.74	4.691
Week 6	12-06-2024	11:00:26	16.804	96.1	7.53	53643	8.04	147.9	0.07	0.24	1.78	4.71
Week 6	12-06-2024	11:00:27	16.804	96.1	7.52	53642	8.04	147.9	0.08	0.25	1.81	4.745
Week 6	12-06-2024	11:00:28	16.804	96.1	7.52	53642	8.04	147.9	0.07	0.25	1.81	4.778
Week 6	12-06-2024	11:00:29	16.804	96.1	7.52	53641	8.04	147.8	0.07	0.25	1.83	5.593
Week 6	12-06-2024	11:00:30	16.804	96	7.52	53640	8.04	147.8	0.1	0.26	1.86	5.788
Week 6	12-06-2024	11:00:31	16.804	96	7.52	53640	8.04	147.8	0.09	0.26	1.85	5.718
Week 6	12-06-2024	11:00:32	16.803	96	7.52	53639	8.04	147.8	0.08	0.26	1.85	5.715
Week 6	12-06-2024	11:00:33	16.803	96	7.52	53638	8.04	147.8	0.08	0.26	1.85	5.708
Week 6	12-06-2024	11:00:34	16.803	96	7.52	53638	8.04	147.8	0.07	0.25	1.81	5.723
Week 6	12-06-2024	11:00:35	16.803	96	7.52	53638	8.04	147.8	0.08	0.25	1.83	5.757
Week 6	12-06-2024	11:00:36	16.803	95.9	7.51	53639	8.04	147.7	0.08	0.25	1.83	5.801
Week 6	12-06-2024	11:00:37	16.802	95.9	7.51	53640	8.04	147.7	0.08	0.25	1.83	5.85
Week 6	12-06-2024	11:00:38	16.802	95.9	7.51	53641	8.04	147.7	0.08	0.25	1.83	5.927
Week 6	12-06-2024	11:00:39	16.802	95.9	7.51	53642	8.04	147.7	0.08	0.26	1.87	5.999
Week 6	12-06-2024	11:00:40	16.802	95.9	7.51	53641	8.04	147.7	0.09	0.27	1.91	6.065
Week 6	12-06-2024	11:00:41	16.802	95.9	7.51	53639	8.04	147.7	0.07	0.28	1.95	6.115
Week 6	12-06-2024	11:00:42	16.803	95.9	7.51	53636	8.04	147.7	0.07	0.27	1.91	6.163
Week 6	12-06-2024	11:00:43	16.803	95.8	7.51	53633	8.04	147.6	0.07	0.29	1.95	6.214
Week 6	12-06-2024	11:00:44	16.803	95.8	7.51	53631	8.04	147.6	0.04	0.3	1.99	6.257
Week 6	12-06-2024	11:00:45	16.803	95.8	7.5	53630	8.04	147.6	0.04	0.3	1.99	6.305
Week 6	12-06-2024	11:00:46	16.804	95.8	7.5	53629	8.04	147.6	0.05	0.3	2.01	6.344
Week 6	12-06-2024	11:00:47	16.804	95.8	7.5	53628	8.04	147.6	0.04	0.3	2.02	6.38
Week 6	12-06-2024	11:00:48	16.804	95.8	7.5	53627	8.04	147.6	0.06	0.31	2.05	7.251
Week 6	12-06-2024	11:00:49	16.805	95.8	7.5	53625	8.04	147.6	0.06	0.33	2.11	7.273
Week 6	12-06-2024	11:00:50	16.805	95.8	7.5	53623	8.04	147.6	0.06	0.34	2.14	7.315
Week 6	12-06-2024	11:00:51	16.805	95.7	7.5	53621	8.04	147.6	0.06	0.33	2.11	7.384
Week 6	12-06-2024	11:00:52	16.805	95.7	7.5	53620	8.04	147.5	0.06	0.32	2.09	7.5
Week 6	12-06-2024	11:00:53	16.805	95.7	7.5	53621	8.04	147.5	0.06	0.34	2.15	7.65
Week 6	12-06-2024	11:00:54	16.804	95.7	7.5	53623	8.04	147.5	0.05	0.33	2.11	7.697
Week 6	12-06-2024	11:00:55	16.804	95.7	7.49	53625	8.04	147.5	0.06	0.33	2.12	7.719
Week 6	12-06-2024	11:00:56	16.804	95.7	7.49	53627	8.04	147.5	0.05	0.34	2.16	7.742
Week 6	12-06-2024	11:00:57	16.804	95.7	7.49	53629	8.04	147.5	0.05	0.36	2.22	7.75
Week 6	12-06-2024	11:00:58	16.803	95.7	7.49	53630	8.04	147.5	0.05	0.37	2.25	7.779
Week 6	12-06-2024	11:00:59	16.803	95.6	7.49	53631	8.04	147.5	0.06	0.36	2.23	7.826
Week 6	12-06-2024	11:01:00	16.803	95.6	7.49	53632	8.04	147.4	0.06	0.36	2.22	7.877
Week 6	12-06-2024	11:01:01	16.802	95.6	7.49	53633	8.04	147.4	0.05	0.34	2.15	7.945
Week 6	12-06-2024	11:01:02	16.802	95.6	7.49	53633	8.04	147.4	0.06	0.34	2.14	7.995
Week 6	12-06-2024	11:01:03	16.801	95.6	7.49	53633	8.04	147.4	0.07	0.35	2.17	8.04
Week 6	12-06-2024	11:01:04	16.801	95.6	7.49	53633	8.04	147.4	0.06	0.37	2.25	8.081
Week 6	12-06-2024	11:01:05	16.801	95.6	7.48	53632	8.04	147.4	0.07	0.37	2.27	8.132
Week 6	12-06-2024	11:01:06	16.8	95.6	7.48	53632	8.04	147.4	0.08	0.37	2.26	8.942

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 6	12-06-2024	11:01:07	16.8	95.5	7.48	53631	8.04	147.4	0.09	0.36	2.21	8.906
Week 6	12-06-2024	11:01:08	16.8	95.5	7.48	53630	8.04	147.4	0.09	0.33	2.12	8.835
Week 6	12-06-2024	11:01:09	16.799	95.5	7.48	53630	8.04	147.4	0.09	0.33	2.11	8.787
Week 6	12-06-2024	11:01:10	16.799	95.5	7.48	53629	8.04	147.3	0.09	0.34	2.13	8.835
Week 6	12-06-2024	11:01:11	16.799	95.5	7.48	53629	8.04	147.3	0.1	0.34	2.15	8.888
Week 6	12-06-2024	11:01:12	16.799	95.5	7.48	53629	8.04	147.3	0.1	0.35	2.18	8.926
Week 6	12-06-2024	11:01:13	16.799	95.5	7.48	53629	8.04	147.3	0.1	0.36	2.23	9.021
Week 6	12-06-2024	11:01:14	16.799	95.5	7.48	53629	8.04	147.3	0.09	0.37	2.25	9.105
Week 6	12-06-2024	11:01:15	16.799	95.5	7.48	53629	8.04	147.3	0.09	0.35	2.17	9.174
Week 6	12-06-2024	11:01:16	16.799	95.4	7.48	53629	8.04	147.3	0.1	0.36	2.23	9.24
Week 6	12-06-2024	11:01:17	16.798	95.4	7.47	53629	8.04	147.3	0.08	0.36	2.24	9.294
Week 6	12-06-2024	11:01:18	16.798	95.4	7.47	53630	8.04	147.3	0.08	0.38	2.3	9.352
Week 6	12-06-2024	11:01:19	16.798	95.4	7.47	53630	8.04	147.3	0.06	0.39	2.33	9.393
Week 6	12-06-2024	11:01:20	16.798	95.4	7.47	53630	8.04	147.3	0.05	0.39	2.34	9.438
Week 6	12-06-2024	11:01:21	16.798	95.4	7.47	53631	8.04	147.2	0.05	0.4	2.38	9.491
Week 6	12-06-2024	11:01:22	16.798	95.4	7.47	53632	8.04	147.2	0.05	0.4	2.38	10.303
Week 6	12-06-2024	11:01:23	16.798	95.4	7.47	53632	8.04	147.2	0.04	0.41	2.39	10.462
Week 6	12-06-2024	11:01:24	16.798	95.3	7.47	53633	8.04	147.2	0.03	0.42	2.42	10.543
Week 6	12-06-2024	11:01:25	16.798	95.3	7.47	53633	8.04	147.2	0.03	0.42	2.42	10.597
Week 6	12-06-2024	11:01:26	16.797	95.3	7.47	53634	8.04	147.2	0.04	0.43	2.47	10.714
Week 6	12-06-2024	11:01:27	16.797	95.3	7.47	53633	8.04	147.2	0.03	0.43	2.46	10.756
Week 6	12-06-2024	11:01:28	16.797	95.3	7.46	53634	8.04	147.2	0.04	0.44	2.5	10.771
Week 6	12-06-2024	11:01:29	16.797	95.3	7.46	53634	8.04	147.2	0.04	0.43	2.49	10.798
Week 6	12-06-2024	11:01:30	16.797	95.3	7.46	53634	8.04	147.2	0.05	0.45	2.54	10.82
Week 6	12-06-2024	11:01:31	16.797	95.3	7.46	53634	8.04	147.2	0.05	0.46	2.59	10.84
Week 6	12-06-2024	11:01:32	16.796	95.2	7.46	53634	8.04	147.2	0.06	0.46	2.59	10.885
Week 6	12-06-2024	11:01:33	16.796	95.2	7.46	53635	8.04	147.1	0.05	0.47	2.63	10.94
Week 6	12-06-2024	11:01:34	16.796	95.2	7.46	53635	8.04	147.1	0.06	0.48	2.67	10.997
Week 6	12-06-2024	11:01:35	16.795	95.2	7.46	53636	8.04	147.1	0.08	0.49	2.68	11.725
Week 6	12-06-2024	11:01:36	16.795	95.2	7.46	53635	8.04	147.1	0.09	0.48	2.66	11.625
Week 6	12-06-2024	11:01:37	16.795	95.2	7.46	53635	8.04	147.1	0.08	0.48	2.67	11.628
Week 6	12-06-2024	11:01:38	16.795	95.2	7.45	53635	8.04	147.1	0.09	0.48	2.67	11.639
Week 6	12-06-2024	11:01:39	16.794	95.2	7.45	53636	8.04	147.1	0.09	0.48	2.66	11.808
Week 6	12-06-2024	11:01:40	16.794	95.1	7.45	53636	8.04	147.1	0.09	0.49	2.7	11.99
Week 6	12-06-2024	11:01:41	16.794	95.1	7.45	53636	8.04	147.1	0.09	0.49	2.69	12.07
Week 6	12-06-2024	11:01:42	16.794	95.1	7.45	53636	8.04	147.1	0.1	0.49	2.68	12.172
Week 6	12-06-2024	11:01:43	16.794	95.1	7.45	53636	8.04	147.1	0.11	0.48	2.66	12.229
Week 6	12-06-2024	11:01:44	16.794	95.1	7.45	53637	8.04	147.1	0.1	0.48	2.67	12.282
Week 6	12-06-2024	11:01:45	16.793	95.1	7.45	53637	8.04	147.1	0.1	0.48	2.66	12.332
Week 6	12-06-2024	11:01:46	16.794	95.1	7.45	53637	8.04	147.1	0.09	0.48	2.65	12.387
Week 6	12-06-2024	11:01:47	16.794	95.1	7.45	53637	8.04	147	0.09	0.49	2.71	12.446
Week 6	12-06-2024	11:01:48	16.794	95.1	7.45	53637	8.04	147	0.1	0.5	2.74	12.504
Week 6	12-06-2024	11:01:49	16.794	95.1	7.45	53637	8.04	147	0.1	0.51	2.75	12.565
Week 6	12-06-2024	11:01:50	16.794	95	7.44	53637	8.04	147	0.1	0.51	2.77	12.617
Week 6	12-06-2024	11:01:51	16.794	95	7.44	53637	8.04	147	0.08	0.51	2.77	13.428
Week 6	12-06-2024	11:01:52	16.794	95	7.44	53637	8.04	147	0.07	0.49	2.7	13.408
Week 6	12-06-2024	11:01:53	16.794	95	7.44	53637	8.04	147	0.07	0.5	2.72	13.494
Week 6	12-06-2024	11:01:54	16.794	95	7.44	53637	8.04	147	0.07	0.51	2.76	13.477
Week 6	12-06-2024	11:01:55	16.794	95	7.44	53637	8.04	147	0.07	0.5	2.71	13.439
Week 6	12-06-2024	11:01:56	16.794	95	7.44	53637	8.04	147	0.07	0.5	2.74	13.455
Week 6	12-06-2024	11:01:57	16.794	95	7.44	53637	8.04	147	0.07	0.5	2.72	13.5
Week 6	12-06-2024	11:01:58	16.794	95	7.44	53638	8.04	147	0.06	0.48	2.67	13.564
Week 6	12-06-2024	11:01:59	16.794	95	7.44	53637	8.04	147	0.06	0.47	2.63	13.635
Week 6	12-06-2024	11:02:00	16.794	95	7.44	53637	8.04	147	0.07	0.48	2.65	13.687
Week 6	12-06-2024	11:02:01	16.794	95	7.44	53637	8.04	147	0.09	0.46	2.57	13.771
Week 6	12-06-2024	11:02:02	16.793	95	7.44	53637	8.04	146.9	0.09	0.46	2.58	13.824
Week 6	12-06-2024	11:02:03	16.793	95	7.44	53637	8.04	146.9	0.08	0.48	2.65	13.858
Week 6	12-06-2024	11:02:04	16.793	95	7.44	53637	8.04	146.9	0.08	0.48	2.65	13.891
Week 6	12-06-2024	11:02:05	16.793	94.9	7.44	53637	8.04	146.9	0.08	0.49	2.68	13.919
Week 6	12-06-2024	11:02:06	16.792	94.9	7.44	53638	8.04	146.9	0.08	0.5	2.72	13.963
Week 6	12-06-2024	11:02:07	16.792	94.9	7.44	53638	8.04	146.9	0.11	0.49	2.71	14.901
Week 6	12-06-2024	11:02:08	16.791	94.9	7.43	53638	8.04	146.9	0.1	0.49	2.69	14.944
Week 6	12-06-2024	11:02:09	16.791	94.9	7.43	53637	8.04	146.9	0.1	0.48	2.67	15.002
Week 6	12-06-2024	11:02:10	16.79	94.9	7.43	53637	8.04	146.9	0.11	0.48	2.66	14.907
Week 6	12-06-2024	11:02:11	16.79	94.9	7.43	53637	8.04	146.9	0.1	0.48	2.66	15.034
Week 6	12-06-2024	11:02:12	16.789	94.8	7.43	53637	8.04	146.9	0.1	0.5	2.72	15.112
Week 6	12-06-2024	11:02:13	16.789	94.8	7.43	53637	8.04	146.9	0.1	0.5	2.74	15.171
Week 6	12-06-2024	11:02:14	16.788	94.8	7.43	53637	8.04	146.9	0.08	0.5	2.74	15.205

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 6	12-06-2024	11:02:15	16.788	94.8	7.43	53637	8.04	146.9	0.07	0.51	2.78	15.225
Week 6	12-06-2024	11:02:16	16.788	94.8	7.43	53637	8.04	146.9	0.06	0.49	2.7	15.265
Week 6	12-06-2024	11:02:17	16.788	94.8	7.42	53637	8.04	146.9	0.06	0.5	2.73	15.298
Week 6	12-06-2024	11:02:18	16.788	94.8	7.42	53637	8.04	146.8	0.06	0.5	2.74	15.346
Week 6	12-06-2024	11:02:19	16.788	94.7	7.42	53637	8.04	146.8	0.06	0.51	2.75	15.418
Week 6	12-06-2024	11:02:20	16.788	94.7	7.42	53636	8.04	146.8	0.06	0.51	2.76	16.177
Week 6	12-06-2024	11:02:21	16.787	94.7	7.42	53637	8.04	146.8	0.05	0.52	2.79	16.136
Week 6	12-06-2024	11:02:22	16.787	94.7	7.42	53637	8.04	146.8	0.06	0.5	2.74	16.393
Week 6	12-06-2024	11:02:23	16.787	94.7	7.42	53636	8.04	146.8	0.07	0.5	2.72	16.346
Week 6	12-06-2024	11:02:24	16.787	94.7	7.42	53637	8.04	146.8	0.06	0.47	2.63	16.375
Week 6	12-06-2024	11:02:25	16.787	94.7	7.42	53637	8.04	146.8	0.06	0.46	2.6	16.418
Week 6	12-06-2024	11:02:26	16.787	94.6	7.41	53637	8.04	146.8	0.07	0.46	2.59	16.408
Week 6	12-06-2024	11:02:27	16.787	94.6	7.41	53637	8.04	146.8	0.07	0.46	2.59	16.456
Week 6	12-06-2024	11:02:28	16.786	94.6	7.41	53636	8.04	146.8	0.09	0.45	2.54	16.548
Week 6	12-06-2024	11:02:29	16.786	94.6	7.41	53636	8.04	146.8	0.09	0.42	2.45	16.631
Week 6	12-06-2024	11:02:30	16.785	94.6	7.41	53636	8.04	146.8	0.1	0.43	2.46	16.715
Week 6	12-06-2024	11:02:31	16.785	94.6	7.41	53636	8.04	146.8	0.1	0.43	2.49	16.781
Week 6	12-06-2024	11:02:32	16.784	94.5	7.41	53635	8.04	146.8	0.1	0.44	2.51	16.852
Week 6	12-06-2024	11:02:33	16.784	94.5	7.41	53635	8.04	146.8	0.1	0.43	2.49	16.903
Week 6	12-06-2024	11:02:34	16.784	94.5	7.4	53636	8.04	146.8	0.1	0.44	2.51	17.632
Week 6	12-06-2024	11:02:35	16.784	94.5	7.4	53635	8.04	146.8	0.11	0.45	2.56	17.67
Week 6	12-06-2024	11:02:36	16.783	94.5	7.4	53635	8.04	146.7	0.1	0.46	2.59	17.495
Week 6	12-06-2024	11:02:37	16.783	94.5	7.4	53635	8.04	146.7	0.11	0.45	2.55	17.594
Week 6	12-06-2024	11:02:38	16.782	94.4	7.4	53635	8.04	146.7	0.1	0.45	2.54	17.664
Week 6	12-06-2024	11:02:39	16.782	94.4	7.4	53635	8.04	146.7	0.09	0.45	2.54	17.671
Week 6	12-06-2024	11:02:40	16.781	94.4	7.4	53635	8.04	146.7	0.09	0.45	2.54	17.7
Week 6	12-06-2024	11:02:41	16.781	94.4	7.4	53635	8.04	146.7	0.08	0.44	2.51	17.775
Week 6	12-06-2024	11:02:42	16.78	94.4	7.39	53636	8.04	146.7	0.07	0.45	2.56	17.861
Week 6	12-06-2024	11:02:43	16.779	94.3	7.39	53636	8.04	146.7	0.06	0.46	2.58	17.945
Week 6	12-06-2024	11:02:44	16.779	94.3	7.39	53637	8.04	146.7	0.06	0.48	2.65	18.024
Week 6	12-06-2024	11:02:45	16.778	94.3	7.39	53636	8.04	146.7	0.06	0.48	2.66	18.094
Week 6	12-06-2024	11:02:46	16.778	94.3	7.39	53636	8.04	146.7	0.07	0.48	2.64	18.148
Week 6	12-06-2024	11:02:47	16.778	94.3	7.39	53636	8.04	146.7	0.08	0.47	2.6	18.197
Week 6	12-06-2024	11:02:48	16.777	94.2	7.38	53637	8.04	146.7	0.1	0.46	2.58	18.243
Week 6	12-06-2024	11:02:49	16.777	94.2	7.38	53637	8.04	146.7	0.09	0.47	2.61	18.293
Week 6	12-06-2024	11:02:50	16.777	94.2	7.38	53637	8.04	146.7	0.09	0.46	2.6	18.333
Week 6	12-06-2024	11:02:51	16.776	94.2	7.38	53637	8.04	146.7	0.08	0.46	2.58	19.054
Week 6	12-06-2024	11:02:52	16.776	94.2	7.38	53637	8.04	146.7	0.08	0.48	2.65	19.282
Week 6	12-06-2024	11:02:53	16.776	94.1	7.38	53637	8.04	146.7	0.09	0.46	2.58	19.361
Week 6	12-06-2024	11:02:54	16.776	94.1	7.38	53637	8.04	146.7	0.09	0.45	2.56	19.525
Week 6	12-06-2024	11:02:55	16.776	94.1	7.37	53637	8.04	146.7	0.1	0.44	2.51	19.619
Week 6	12-06-2024	11:02:56	16.776	94.1	7.37	53638	8.04	146.7	0.09	0.44	2.52	19.723
Week 6	12-06-2024	11:02:57	16.775	94.1	7.37	53638	8.04	146.7	0.09	0.45	2.53	19.79
Week 6	12-06-2024	11:02:58	16.775	94	7.37	53638	8.04	146.7	0.09	0.45	2.55	19.787
Week 6	12-06-2024	11:02:59	16.775	94	7.37	53638	8.04	146.7	0.08	0.46	2.6	19.764
Week 6	12-06-2024	11:03:00	16.776	94	7.37	53638	8.04	146.7	0.07	0.45	2.54	19.774
Week 6	12-06-2024	11:03:01	16.776	94	7.37	53638	8.04	146.7	0.07	0.46	2.57	19.829
Week 6	12-06-2024	11:03:02	16.776	94	7.36	53638	8.04	146.7	0.05	0.47	2.63	19.901
Week 6	12-06-2024	11:03:03	16.775	94	7.36	53638	8.04	146.7	0.04	0.46	2.6	19.972
Week 6	12-06-2024	11:03:04	16.775	94	7.36	53638	8.04	146.7	0.06	0.47	2.62	20.019
Week 6	12-06-2024	11:03:05	16.776	93.9	7.36	53639	8.04	146.7	0.05	0.47	2.63	20.065
Week 6	12-06-2024	11:03:06	16.776	93.9	7.36	53638	8.04	146.7	0.05	0.46	2.57	20.761
Week 6	12-06-2024	11:03:07	16.777	93.9	7.36	53637	8.04	146.7	0.05	0.44	2.51	20.938
Week 6	12-06-2024	11:03:08	16.777	93.9	7.36	53637	8.04	146.6	0.06	0.45	2.54	20.941
Week 6	12-06-2024	11:03:09	16.778	93.9	7.36	53637	8.04	146.6	0.06	0.44	2.52	20.99
Week 6	12-06-2024	11:03:10	16.779	93.9	7.36	53637	8.04	146.6	0.06	0.43	2.48	21.023
Week 6	12-06-2024	11:03:11	16.78	93.9	7.36	53637	8.04	146.6	0.07	0.44	2.51	21.051
Week 6	12-06-2024	11:03:12	16.781	93.9	7.36	53637	8.04	146.6	0.07	0.44	2.5	21.09
Week 6	12-06-2024	11:03:13	16.78	93.9	7.36	53638	8.04	146.6	0.07	0.44	2.49	21.944
Week 6	12-06-2024	11:03:14	16.78	93.9	7.36	53638	8.04	146.6	0.08	0.43	2.46	21.951
Week 6	12-06-2024	11:03:15	16.78	93.9	7.36	53639	8.04	146.6	0.08	0.42	2.45	21.808
Week 6	12-06-2024	11:03:16	16.78	93.9	7.36	53639	8.04	146.6	0.08	0.43	2.46	21.901
Week 6	12-06-2024	11:03:17	16.78	93.9	7.36	53638	8.04	146.6	0.08	0.44	2.5	21.822
Week 6	12-06-2024	11:03:18	16.78	93.9	7.36	53638	8.04	146.6	0.08	0.46	2.59	21.78
Week 6	12-06-2024	11:03:19	16.78	93.9	7.36	53639	8.04	146.6	0.09	0.45	2.54	21.846
Week 6	12-06-2024	11:03:20	16.779	93.9	7.36	53641	8.04	146.6	0.1	0.45	2.54	21.96
Week 6	12-06-2024	11:03:21	16.778	93.9	7.35	53642	8.04	146.6	0.09	0.45	2.56	22.687
Week 6	12-06-2024	11:03:22	16.777	93.8	7.35	53639	8.04	146.6	0.08	0.45	2.56	22.497

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 6	12-06-2024	11:03:23	16.776	93.8	7.35	53637	8.04	146.6	0.08	0.46	2.58	22.737
Week 6	12-06-2024	11:03:24	16.776	93.8	7.35	53636	8.04	146.6	0.08	0.46	2.57	22.815
Week 6	12-06-2024	11:03:25	16.775	93.8	7.35	53633	8.04	146.6	0.08	0.46	2.57	22.788
Week 6	12-06-2024	11:03:26	16.774	93.8	7.35	53630	8.04	146.6	0.07	0.46	2.59	22.792
Week 6	12-06-2024	11:03:27	16.774	93.8	7.35	53630	8.04	146.6	0.07	0.45	2.54	22.853
Week 6	12-06-2024	11:03:28	16.773	93.7	7.35	53632	8.04	146.6	0.07	0.44	2.53	22.939
Week 6	12-06-2024	11:03:29	16.773	93.7	7.34	53634	8.04	146.6	0.06	0.43	2.48	22.976
Week 6	12-06-2024	11:03:30	16.773	93.7	7.34	53634	8.04	146.6	0.08	0.43	2.46	23.001
Week 6	12-06-2024	11:03:31	16.773	93.7	7.34	53634	8.04	146.5	0.07	0.43	2.46	23.039
Week 6	12-06-2024	11:03:32	16.772	93.7	7.34	53635	8.04	146.5	0.08	0.42	2.45	23.115
Week 6	12-06-2024	11:03:33	16.771	93.7	7.34	53636	8.04	146.5	0.07	0.41	2.42	23.88
Week 6	12-06-2024	11:03:34	16.77	93.6	7.34	53635	8.04	146.5	0.06	0.4	2.36	23.911
Week 6	12-06-2024	11:03:35	16.769	93.6	7.34	53638	8.04	146.5	0.07	0.4	2.35	23.963
Week 6	12-06-2024	11:03:36	16.768	93.6	7.33	53640	8.04	146.5	0.07	0.39	2.32	23.935
Week 6	12-06-2024	11:03:37	16.767	93.6	7.33	53641	8.04	146.5	0.07	0.4	2.35	23.789
Week 6	12-06-2024	11:03:38	16.767	93.5	7.33	53642	8.04	146.5	0.08	0.39	2.32	23.705
Week 6	12-06-2024	11:03:39	16.766	93.5	7.33	53643	8.04	146.5	0.09	0.39	2.33	23.725
Week 6	12-06-2024	11:03:40	16.764	93.5	7.33	53643	8.04	146.5	0.09	0.38	2.29	23.789
Week 6	12-06-2024	11:03:41	16.763	93.4	7.32	53641	8.04	146.5	0.09	0.37	2.26	23.831
Week 6	12-06-2024	11:03:42	16.762	93.4	7.32	53638	8.04	146.5	0.1	0.36	2.23	23.81
Week 6	12-06-2024	11:03:43	16.761	93.4	7.32	53637	8.04	146.5	0.1	0.37	2.25	23.779
Week 6	12-06-2024	11:03:44	16.76	93.3	7.32	53637	8.04	146.5	0.1	0.37	2.27	23.744
Week 6	12-06-2024	11:03:45	16.759	93.3	7.32	53636	8.04	146.5	0.1	0.38	2.28	23.694
Week 6	12-06-2024	11:03:46	16.759	93.3	7.31	53636	8.04	146.5	0.1	0.38	2.31	23.676
Week 6	12-06-2024	11:03:47	16.759	93.3	7.31	53637	8.04	146.5	0.1	0.41	2.41	23.705
Week 6	12-06-2024	11:03:48	16.758	93.2	7.31	53638	8.04	146.5	0.09	0.38	2.31	25.014
Week 6	12-06-2024	11:03:49	16.755	93.2	7.3	53639	8.04	146.5	0.08	0.38	2.31	25.628
Week 6	12-06-2024	11:03:50	16.751	93.1	7.3	53639	8.04	146.5	0.09	0.37	2.26	25.713
Week 6	12-06-2024	11:03:51	16.746	93.1	7.3	53639	8.04	146.5	0.09	0.36	2.23	25.618
Week 6	12-06-2024	11:03:52	16.741	93	7.29	53640	8.03	146.5	0.1	0.35	2.19	25.465
Week 6	12-06-2024	11:03:53	16.736	92.9	7.29	53640	8.03	146.5	0.1	0.35	2.18	25.446
Week 6	12-06-2024	11:03:54	16.731	92.8	7.28	53640	8.03	146.5	0.09	0.33	2.13	25.452
Week 6	12-06-2024	11:03:55	16.727	92.7	7.27	53640	8.03	146.5	0.07	0.32	2.09	25.408
Week 6	12-06-2024	11:03:56	16.722	92.6	7.26	53639	8.03	146.4	0.08	0.31	2.05	25.355
Week 6	12-06-2024	11:03:57	16.718	92.5	7.25	53639	8.03	146.4	0.07	0.3	2.01	24.566
Week 6	12-06-2024	11:03:58	16.715	92.4	7.24	53638	8.03	146.4	0.07	0.28	1.93	24.542
Week 6	12-06-2024	11:03:59	16.711	92.2	7.24	53635	8.03	146.4	0.08	0.29	1.96	24.5
Week 6	12-06-2024	11:04:00	16.708	92.1	7.23	53632	8.03	146.4	0.08	0.29	1.97	24.502
Week 6	12-06-2024	11:04:01	16.706	92	7.22	53629	8.03	146.4	0.08	0.3	1.99	24.431
Week 6	12-06-2024	11:04:02	16.707	91.9	7.21	53626	8.03	146.4	0.09	0.31	2.04	24.457
Week 6	12-06-2024	11:04:03	16.709	91.8	7.2	53625	8.03	146.4	0.1	0.33	2.1	24.465
Week 6	12-06-2024	11:04:04	16.712	91.7	7.2	53625	8.03	146.4	0.09	0.33	2.11	24.405
Week 6	12-06-2024	11:04:05	16.716	91.7	7.19	53627	8.03	146.4	0.09	0.35	2.17	24.317
Week 6	12-06-2024	11:04:06	16.72	91.7	7.19	53628	8.03	146.4	0.08	0.36	2.22	23.395
Week 6	12-06-2024	11:04:07	16.726	91.6	7.19	53628	8.03	146.4	0.08	0.39	2.31	23.403
Week 6	12-06-2024	11:04:08	16.731	91.6	7.19	53629	8.03	146.4	0.07	0.4	2.35	23.494
Week 6	12-06-2024	11:04:09	16.737	91.7	7.19	53630	8.03	146.4	0.07	0.4	2.37	23.55
Week 6	12-06-2024	11:04:10	16.741	91.7	7.19	53631	8.03	146.4	0.08	0.41	2.39	23.505
Week 6	12-06-2024	11:04:11	16.746	91.7	7.19	53633	8.03	146.4	0.07	0.43	2.49	23.394
Week 6	12-06-2024	11:04:12	16.75	91.8	7.2	53634	8.03	146.4	0.08	0.44	2.5	23.251
Week 6	12-06-2024	11:04:13	16.754	91.8	7.2	53636	8.03	146.4	0.08	0.44	2.5	23.155
Week 6	12-06-2024	11:04:14	16.757	91.9	7.2	53638	8.03	146.4	0.08	0.43	2.46	23.103
Week 6	12-06-2024	11:04:15	16.759	92	7.21	53639	8.03	146.4	0.09	0.43	2.49	23.062
Week 6	12-06-2024	11:04:16	16.761	92	7.21	53640	8.03	146.4	0.08	0.43	2.48	23.051
Week 6	12-06-2024	11:04:17	16.763	92.1	7.22	53640	8.03	146.4	0.08	0.44	2.5	23.04
Week 6	12-06-2024	11:04:18	16.764	92.1	7.22	53639	8.03	146.4	0.06	0.44	2.5	23.002
Week 6	12-06-2024	11:04:19	16.764	92.2	7.23	53639	8.03	146.4	0.07	0.41	2.42	22.141
Week 6	12-06-2024	11:04:20	16.764	92.3	7.23	53639	8.03	146.3	0.07	0.41	2.41	22.178
Week 6	12-06-2024	11:04:21	16.764	92.3	7.24	53639	8.04	146.3	0.07	0.41	2.4	22.048
Week 6	12-06-2024	11:04:22	16.764	92.4	7.24	53639	8.04	146.3	0.07	0.4	2.36	21.948
Week 6	12-06-2024	11:04:23	16.763	92.4	7.24	53639	8.04	146.3	0.09	0.41	2.41	21.969
Week 6	12-06-2024	11:04:24	16.763	92.4	7.25	53639	8.04	146.3	0.12	0.41	2.4	22.017
Week 6	12-06-2024	11:04:25	16.762	92.5	7.25	53639	8.04	146.3	0.11	0.43	2.48	21.995
Week 6	12-06-2024	11:04:26	16.762	92.5	7.25	53638	8.04	146.3	0.11	0.44	2.51	21.94
Week 6	12-06-2024	11:04:27	16.762	92.5	7.25	53638	8.04	146.3	0.1	0.44	2.51	21.08
Week 6	12-06-2024	11:04:28	16.763	92.6	7.25	53638	8.04	146.3	0.11	0.43	2.49	21.195
Week 6	12-06-2024	11:04:29	16.763	92.6	7.26	53638	8.04	146.3	0.11	0.42	2.46	21.133
Week 6	12-06-2024	11:04:30	16.764	92.6	7.26	53638	8.04	146.3	0.09	0.42	2.44	21.22

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 6	12-06-2024	11:04:31	16.764	92.6	7.26	53638	8.04	146.3	0.11	0.43	2.47	21.099
Week 6	12-06-2024	11:04:32	16.765	92.7	7.26	53637	8.04	146.3	0.1	0.43	2.48	20.972
Week 6	12-06-2024	11:04:33	16.766	92.7	7.27	53637	8.04	146.3	0.09	0.42	2.45	20.926
Week 6	12-06-2024	11:04:34	16.766	92.7	7.27	53637	8.04	146.3	0.1	0.41	2.4	20.852
Week 6	12-06-2024	11:04:35	16.767	92.8	7.27	53637	8.04	146.3	0.1	0.43	2.46	20.768
Week 6	12-06-2024	11:04:36	16.768	92.8	7.27	53637	8.04	146.3	0.1	0.42	2.43	20.714
Week 6	12-06-2024	11:04:37	16.768	92.8	7.27	53637	8.04	146.3	0.1	0.41	2.4	20.678
Week 6	12-06-2024	11:04:38	16.769	92.8	7.28	53637	8.04	146.3	0.08	0.41	2.4	20.662
Week 6	12-06-2024	11:04:39	16.77	92.9	7.28	53637	8.04	146.2	0.06	0.4	2.37	20.653
Week 6	12-06-2024	11:04:40	16.771	92.9	7.28	53637	8.04	146.2	0.08	0.4	2.37	20.629
Week 6	12-06-2024	11:04:41	16.771	92.9	7.28	53637	8.04	146.2	0.08	0.42	2.42	19.778
Week 6	12-06-2024	11:04:42	16.771	93	7.28	53637	8.04	146.2	0.07	0.41	2.4	19.604
Week 6	12-06-2024	11:04:43	16.772	93	7.29	53638	8.04	146.2	0.08	0.41	2.39	19.65
Week 6	12-06-2024	11:04:44	16.773	93	7.29	53638	8.04	146.2	0.07	0.41	2.41	19.487
Week 6	12-06-2024	11:04:45	16.773	93.1	7.29	53639	8.04	146.2	0.07	0.42	2.44	19.594
Week 6	12-06-2024	11:04:46	16.774	93.1	7.29	53639	8.04	146.2	0.07	0.42	2.45	19.721
Week 6	12-06-2024	11:04:47	16.775	93.1	7.3	53639	8.04	146.2	0.07	0.42	2.43	19.73
Week 6	12-06-2024	11:04:48	16.776	93.1	7.3	53639	8.04	146.2	0.07	0.41	2.41	19.689
Week 6	12-06-2024	11:04:49	16.777	93.2	7.3	53639	8.04	146.2	0.07	0.42	2.42	19.588
Week 6	12-06-2024	11:04:50	16.777	93.2	7.3	53639	8.04	146.2	0.07	0.43	2.46	19.502
Week 6	12-06-2024	11:04:51	16.778	93.2	7.31	53639	8.04	146.2	0.07	0.44	2.51	19.435
Week 6	12-06-2024	11:04:52	16.779	93.3	7.31	53639	8.04	146.1	0.07	0.42	2.45	18.727
Week 6	12-06-2024	11:04:53	16.78	93.3	7.31	53639	8.04	146.1	0.07	0.43	2.46	19.003
Week 6	12-06-2024	11:04:54	16.781	93.3	7.31	53639	8.04	146.1	0.07	0.43	2.49	18.68
Week 6	12-06-2024	11:04:55	16.782	93.4	7.31	53639	8.04	146.1	0.07	0.45	2.53	18.673
Week 6	12-06-2024	11:04:56	16.783	93.4	7.32	53638	8.04	146.1	0.06	0.46	2.58	18.662
Week 6	12-06-2024	11:04:57	16.783	93.4	7.32	53638	8.04	146.1	0.07	0.46	2.58	18.642
Week 6	12-06-2024	11:04:58	16.784	93.5	7.32	53638	8.04	146.1	0.07	0.48	2.65	18.57
Week 6	12-06-2024	11:04:59	16.784	93.5	7.32	53638	8.04	146	0.06	0.49	2.68	18.492
Week 6	12-06-2024	11:05:00	16.785	93.5	7.33	53638	8.04	146	0.06	0.49	2.7	18.407
Week 6	12-06-2024	11:05:01	16.785	93.6	7.33	53638	8.04	146	0.07	0.5	2.73	18.312
Week 6	12-06-2024	11:05:02	16.786	93.6	7.33	53638	8.04	146	0.07	0.51	2.76	18.218
Week 6	12-06-2024	11:05:03	16.786	93.6	7.33	53639	8.04	146	0.07	0.53	2.83	18.156
Week 6	12-06-2024	11:05:04	16.786	93.6	7.34	53638	8.04	146	0.07	0.54	2.88	18.113
Week 6	12-06-2024	11:05:05	16.786	93.7	7.34	53638	8.04	145.9	0.07	0.54	2.86	18.073
Week 6	12-06-2024	11:05:06	16.787	93.7	7.34	53638	8.04	145.9	0.07	0.54	2.87	17.145
Week 6	12-06-2024	11:05:07	16.787	93.7	7.34	53639	8.04	145.9	0.07	0.52	2.8	16.822
Week 6	12-06-2024	11:05:08	16.787	93.7	7.34	53639	8.04	145.9	0.07	0.53	2.83	16.843
Week 6	12-06-2024	11:05:09	16.787	93.8	7.35	53638	8.04	145.9	0.07	0.51	2.75	16.7
Week 6	12-06-2024	11:05:10	16.787	93.8	7.35	53638	8.04	145.9	0.07	0.51	2.77	16.62
Week 6	12-06-2024	11:05:11	16.787	93.8	7.35	53638	8.04	145.9	0.07	0.5	2.73	16.614
Week 6	12-06-2024	11:05:12	16.787	93.8	7.35	53638	8.04	145.9	0.07	0.5	2.73	16.598
Week 6	12-06-2024	11:05:13	16.787	93.8	7.35	53638	8.04	145.9	0.07	0.5	2.72	16.559
Week 6	12-06-2024	11:05:14	16.787	93.8	7.35	53637	8.04	145.9	0.08	0.49	2.71	16.507
Week 6	12-06-2024	11:05:15	16.787	93.8	7.35	53637	8.04	145.9	0.08	0.49	2.68	16.432
Week 6	12-06-2024	11:05:16	16.787	93.8	7.35	53637	8.04	145.9	0.09	0.5	2.74	16.365
Week 6	12-06-2024	11:05:17	16.787	93.9	7.35	53637	8.04	145.9	0.08	0.5	2.72	16.293
Week 6	12-06-2024	11:05:18	16.787	93.9	7.35	53637	8.04	145.9	0.08	0.51	2.75	16.224
Week 6	12-06-2024	11:05:19	16.787	93.9	7.35	53637	8.04	145.9	0.08	0.51	2.75	16.151
Week 6	12-06-2024	11:05:20	16.787	93.9	7.35	53636	8.04	145.9	0.07	0.52	2.79	16.097
Week 6	12-06-2024	11:05:21	16.787	93.9	7.35	53636	8.04	145.8	0.08	0.5	2.74	16.044
Week 6	12-06-2024	11:05:22	16.787	93.9	7.36	53636	8.04	145.8	0.09	0.51	2.75	15.312
Week 6	12-06-2024	11:05:23	16.786	93.9	7.36	53637	8.04	145.8	0.09	0.51	2.76	15.079
Week 6	12-06-2024	11:05:24	16.786	93.9	7.36	53636	8.04	145.8	0.09	0.49	2.7	14.752
Week 6	12-06-2024	11:05:25	16.786	93.9	7.36	53636	8.04	145.8	0.08	0.49	2.69	14.753
Week 6	12-06-2024	11:05:26	16.786	93.9	7.36	53636	8.04	145.8	0.08	0.49	2.68	14.733
Week 6	12-06-2024	11:05:27	16.786	93.9	7.36	53637	8.04	145.8	0.07	0.48	2.65	14.709
Week 6	12-06-2024	11:05:28	16.786	93.9	7.36	53638	8.04	145.8	0.07	0.49	2.71	14.672
Week 6	12-06-2024	11:05:29	16.786	93.9	7.36	53637	8.04	145.8	0.07	0.48	2.65	14.666
Week 6	12-06-2024	11:05:30	16.786	93.9	7.36	53637	8.04	145.8	0.07	0.46	2.59	14.647
Week 6	12-06-2024	11:05:31	16.786	93.9	7.36	53637	8.04	145.8	0.07	0.46	2.57	14.617
Week 6	12-06-2024	11:05:32	16.785	94	7.36	53637	8.04	145.8	0.07	0.46	2.59	14.573
Week 6	12-06-2024	11:05:33	16.785	94	7.36	53637	8.04	145.8	0.07	0.46	2.58	13.854
Week 6	12-06-2024	11:05:34	16.785	94	7.36	53637	8.04	145.8	0.07	0.46	2.57	13.811
Week 6	12-06-2024	11:05:35	16.786	94	7.36	53637	8.04	145.8	0.08	0.47	2.64	13.99
Week 6	12-06-2024	11:05:36	16.786	94	7.36	53637	8.04	145.8	0.07	0.48	2.65	13.977
Week 6	12-06-2024	11:05:37	16.786	94	7.36	53637	8.04	145.8	0.06	0.48	2.67	13.847
Week 6	12-06-2024	11:05:38	16.786	94	7.36	53637	8.04	145.8	0.06	0.47	2.62	13.672

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 6	12-06-2024	11:05:39	16.786	94	7.36	53637	8.04	145.8	0.06	0.46	2.59	13.519
Week 6	12-06-2024	11:05:40	16.787	94	7.36	53637	8.04	145.8	0.05	0.46	2.6	13.4
Week 6	12-06-2024	11:05:41	16.787	94	7.36	53636	8.04	145.8	0.05	0.47	2.61	13.285
Week 6	12-06-2024	11:05:42	16.788	94	7.36	53635	8.04	145.8	0.05	0.47	2.62	13.25
Week 6	12-06-2024	11:05:43	16.788	94	7.36	53635	8.04	145.8	0.04	0.48	2.66	13.218
Week 6	12-06-2024	11:05:44	16.789	94	7.36	53635	8.04	145.8	0.04	0.49	2.7	13.177
Week 6	12-06-2024	11:05:45	16.789	94	7.37	53636	8.04	145.8	0.05	0.49	2.7	13.121
Week 6	12-06-2024	11:05:46	16.79	94	7.37	53635	8.04	145.8	0.04	0.48	2.67	13.078
Week 6	12-06-2024	11:05:47	16.79	94	7.37	53636	8.04	145.8	0.04	0.48	2.67	13.029
Week 6	12-06-2024	11:05:48	16.79	94.1	7.37	53636	8.04	145.8	0.05	0.49	2.68	12.989
Week 6	12-06-2024	11:05:49	16.79	94.1	7.37	53636	8.04	145.8	0.06	0.49	2.7	12.946
Week 6	12-06-2024	11:05:50	16.791	94.1	7.37	53636	8.04	145.8	0.06	0.48	2.67	12.893
Week 6	12-06-2024	11:05:51	16.791	94.1	7.37	53636	8.04	145.8	0.06	0.49	2.69	12.123
Week 6	12-06-2024	11:05:52	16.791	94.1	7.37	53636	8.04	145.8	0.05	0.48	2.64	11.976
Week 6	12-06-2024	11:05:53	16.792	94.1	7.37	53636	8.04	145.8	0.05	0.49	2.68	11.765
Week 6	12-06-2024	11:05:54	16.792	94.1	7.37	53636	8.04	145.8	0.07	0.48	2.66	11.933
Week 6	12-06-2024	11:05:55	16.793	94.1	7.37	53636	8.04	145.8	0.08	0.48	2.67	11.978
Week 6	12-06-2024	11:05:56	16.793	94.1	7.37	53636	8.04	145.8	0.08	0.49	2.68	11.939
Week 6	12-06-2024	11:05:57	16.794	94.1	7.37	53636	8.04	145.8	0.09	0.49	2.68	11.905
Week 6	12-06-2024	11:05:58	16.794	94.1	7.37	53636	8.04	145.8	0.08	0.49	2.7	11.814
Week 6	12-06-2024	11:05:59	16.795	94.2	7.38	53636	8.04	145.8	0.07	0.47	2.62	11.031
Week 6	12-06-2024	11:06:00	16.795	94.2	7.38	53636	8.04	145.8	0.06	0.48	2.65	11.047
Week 6	12-06-2024	11:06:01	16.796	94.2	7.38	53636	8.04	145.8	0.06	0.47	2.63	11.032
Week 6	12-06-2024	11:06:02	16.797	94.2	7.38	53636	8.04	145.8	0.07	0.47	2.6	11.117
Week 6	12-06-2024	11:06:03	16.797	94.2	7.38	53635	8.04	145.8	0.05	0.49	2.68	11.146
Week 6	12-06-2024	11:06:04	16.798	94.2	7.38	53635	8.04	145.8	0.05	0.48	2.64	11.12
Week 6	12-06-2024	11:06:05	16.798	94.3	7.38	53635	8.04	145.8	0.06	0.48	2.64	11.06
Week 6	12-06-2024	11:06:06	16.798	94.3	7.38	53634	8.04	145.8	0.05	0.48	2.64	10.984
Week 6	12-06-2024	11:06:07	16.798	94.3	7.39	53634	8.04	145.8	0.05	0.47	2.6	10.911
Week 6	12-06-2024	11:06:08	16.798	94.3	7.39	53634	8.04	145.8	0.05	0.45	2.55	10.193
Week 6	12-06-2024	11:06:09	16.798	94.3	7.39	53634	8.04	145.8	0.04	0.45	2.54	10.211
Week 6	12-06-2024	11:06:10	16.798	94.3	7.39	53634	8.04	145.8	0.04	0.46	2.57	10.285
Week 6	12-06-2024	11:06:11	16.799	94.4	7.39	53634	8.04	145.8	0.04	0.45	2.56	10.241
Week 6	12-06-2024	11:06:12	16.799	94.4	7.39	53634	8.04	145.7	0.03	0.46	2.59	10.209
Week 6	12-06-2024	11:06:13	16.799	94.4	7.39	53634	8.04	145.7	0.04	0.47	2.61	10.204
Week 6	12-06-2024	11:06:14	16.799	94.4	7.39	53634	8.04	145.7	0.05	0.47	2.61	10.131
Week 6	12-06-2024	11:06:15	16.799	94.4	7.39	53633	8.04	145.7	0.04	0.47	2.64	10.008
Week 6	12-06-2024	11:06:16	16.799	94.4	7.4	53633	8.04	145.7	0.04	0.46	2.59	9.927
Week 6	12-06-2024	11:06:17	16.799	94.4	7.4	53633	8.04	145.7	0.04	0.46	2.59	9.836
Week 6	12-06-2024	11:06:18	16.799	94.4	7.4	53634	8.04	145.7	0.04	0.46	2.59	9.773
Week 6	12-06-2024	11:06:19	16.8	94.5	7.4	53635	8.04	145.7	0.04	0.48	2.66	9.729
Week 6	12-06-2024	11:06:20	16.8	94.5	7.4	53635	8.04	145.7	0.04	0.48	2.66	9.678
Week 6	12-06-2024	11:06:21	16.8	94.5	7.4	53635	8.04	145.7	0.04	0.48	2.64	9.634
Week 6	12-06-2024	11:06:22	16.801	94.5	7.4	53635	8.04	145.7	0.05	0.48	2.65	9.591
Week 6	12-06-2024	11:06:23	16.801	94.5	7.4	53635	8.04	145.7	0.06	0.48	2.67	8.828
Week 6	12-06-2024	11:06:24	16.801	94.5	7.4	53635	8.04	145.7	0.07	0.48	2.66	8.541
Week 6	12-06-2024	11:06:25	16.802	94.5	7.4	53635	8.04	145.7	0.07	0.49	2.68	8.639
Week 6	12-06-2024	11:06:26	16.802	94.6	7.41	53635	8.04	145.7	0.07	0.48	2.65	8.62
Week 6	12-06-2024	11:06:27	16.803	94.6	7.41	53635	8.04	145.7	0.08	0.49	2.68	8.565
Week 6	12-06-2024	11:06:28	16.803	94.6	7.41	53635	8.04	145.7	0.07	0.48	2.67	8.506
Week 6	12-06-2024	11:06:29	16.804	94.6	7.41	53635	8.04	145.7	0.07	0.5	2.74	8.44
Week 6	12-06-2024	11:06:30	16.804	94.6	7.41	53635	8.04	145.7	0.08	0.5	2.73	8.316
Week 6	12-06-2024	11:06:31	16.805	94.6	7.41	53635	8.04	145.7	0.08	0.49	2.7	7.52
Week 6	12-06-2024	11:06:32	16.805	94.7	7.41	53635	8.04	145.7	0.08	0.48	2.66	7.551
Week 6	12-06-2024	11:06:33	16.806	94.7	7.42	53635	8.04	145.7	0.08	0.47	2.64	7.412
Week 6	12-06-2024	11:06:34	16.806	94.7	7.42	53635	8.04	145.7	0.09	0.47	2.62	7.394
Week 6	12-06-2024	11:06:35	16.807	94.7	7.42	53635	8.04	145.7	0.09	0.48	2.64	7.289
Week 6	12-06-2024	11:06:36	16.807	94.8	7.42	53636	8.04	145.7	0.09	0.46	2.59	7.163
Week 6	12-06-2024	11:06:37	16.808	94.8	7.42	53636	8.04	145.7	0.08	0.44	2.52	6.996
Week 6	12-06-2024	11:06:38	16.808	94.8	7.42	53637	8.04	145.7	0.07	0.43	2.49	6.907
Week 6	12-06-2024	11:06:39	16.808	94.8	7.43	53637	8.04	145.6	0.06	0.42	2.45	6.867
Week 6	12-06-2024	11:06:40	16.809	94.8	7.43	53637	8.04	145.6	0.05	0.4	2.36	6.827
Week 6	12-06-2024	11:06:41	16.809	94.9	7.43	53638	8.04	145.6	0.05	0.4	2.38	6.781
Week 6	12-06-2024	11:06:42	16.809	94.9	7.43	53639	8.04	145.6	0.05	0.41	2.39	6.746
Week 6	12-06-2024	11:06:43	16.81	94.9	7.43	53639	8.04	145.6	0.05	0.41	2.42	5.989
Week 6	12-06-2024	11:06:44	16.81	94.9	7.43	53640	8.04	145.6	0.05	0.41	2.39	5.846
Week 6	12-06-2024	11:06:45	16.81	95	7.44	53640	8.04	145.6	0.05	0.39	2.34	5.813
Week 6	12-06-2024	11:06:46	16.81	95	7.44	53640	8.04	145.6	0.05	0.4	2.38	5.85

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 6	12-06-2024	11:06:47	16.81	95	7.44	53641	8.04	145.6	0.04	0.39	2.33	5.868
Week 6	12-06-2024	11:06:48	16.81	95	7.44	53641	8.04	145.6	0.05	0.4	2.37	5.822
Week 6	12-06-2024	11:06:49	16.81	95	7.44	53643	8.04	145.6	0.06	0.41	2.4	5.684
Week 6	12-06-2024	11:06:50	16.81	95	7.44	53645	8.04	145.6	0.06	0.4	2.38	4.856
Week 6	12-06-2024	11:06:51	16.81	95.1	7.44	53647	8.04	145.6	0.06	0.4	2.37	4.827
Week 6	12-06-2024	11:06:52	16.81	95.1	7.44	53648	8.04	145.6	0.06	0.39	2.32	4.814
Week 6	12-06-2024	11:06:53	16.811	95.1	7.44	53649	8.04	145.6	0.07	0.38	2.3	4.768
Week 6	12-06-2024	11:06:54	16.811	95.1	7.45	53649	8.04	145.6	0.07	0.4	2.35	4.607
Week 6	12-06-2024	11:06:55	16.811	95.1	7.45	53648	8.04	145.6	0.08	0.4	2.36	4.395
Week 6	12-06-2024	11:06:56	16.811	95.1	7.45	53648	8.04	145.6	0.08	0.39	2.34	4.211
Week 6	12-06-2024	11:06:57	16.811	95.1	7.45	53647	8.04	145.6	0.07	0.37	2.25	4.122
Week 6	12-06-2024	11:06:58	16.812	95.2	7.45	53647	8.04	145.6	0.08	0.38	2.29	4.09
Week 6	12-06-2024	11:06:59	16.812	95.2	7.45	53646	8.04	145.6	0.09	0.38	2.28	4.039
Week 6	12-06-2024	11:07:00	16.812	95.2	7.45	53645	8.04	145.6	0.09	0.37	2.27	3.984
Week 6	12-06-2024	11:07:01	16.813	95.2	7.45	53644	8.04	145.6	0.08	0.37	2.24	3.925
Week 6	12-06-2024	11:07:02	16.813	95.2	7.45	53641	8.04	145.6	0.08	0.37	2.24	2.927
Week 6	12-06-2024	11:07:03	16.813	95.2	7.46	53638	8.04	145.5	0.09	0.36	2.22	2.896
Week 6	12-06-2024	11:07:04	16.814	95.2	7.46	53635	8.04	145.5	0.08	0.37	2.26	3.018
Week 6	12-06-2024	11:07:05	16.814	95.3	7.46	53633	8.04	145.5	0.08	0.36	2.21	2.956
Week 6	12-06-2024	11:07:06	16.815	95.3	7.46	53631	8.04	145.5	0.08	0.35	2.2	2.765
Week 6	12-06-2024	11:07:07	16.815	95.3	7.46	53630	8.04	145.5	0.08	0.35	2.18	2.566
Week 6	12-06-2024	11:07:08	16.816	95.3	7.46	53629	8.04	145.5	0.09	0.36	2.21	2.442
Week 6	12-06-2024	11:07:09	16.816	95.3	7.46	53628	8.04	145.5	0.08	0.37	2.25	2.357
Week 6	12-06-2024	11:07:10	16.817	95.3	7.46	53627	8.04	145.5	0.09	0.36	2.21	2.31
Week 6	12-06-2024	11:07:11	16.818	95.3	7.46	53626	8.04	145.5	0.09	0.36	2.22	2.272
Week 6	12-06-2024	11:07:12	16.818	95.3	7.46	53625	8.04	145.5	0.1	0.37	2.24	2.232
Week 6	12-06-2024	11:07:13	16.819	95.3	7.46	53623	8.04	145.5	0.09	0.35	2.2	2.178
Week 6	12-06-2024	11:07:14	16.82	95.4	7.47	53622	8.04	145.5	0.07	0.36	2.2	2.119
Week 6	12-06-2024	11:07:15	16.821	95.4	7.47	53622	8.04	145.5	0.08	0.36	2.21	1.367
Week 6	12-06-2024	11:07:16	16.822	95.4	7.47	53621	8.04	145.5	0.08	0.35	2.17	1.344
Week 6	12-06-2024	11:07:17	16.823	95.4	7.47	53620	8.04	145.5	0.07	0.35	2.18	1.402
Week 6	12-06-2024	11:07:18	16.824	95.4	7.47	53615	8.04	145.5	0.07	0.34	2.16	1.344
Week 6	12-06-2024	11:07:19	16.826	95.4	7.47	53611	8.04	145.5	0.07	0.34	2.13	1.226
Week 6	12-06-2024	11:07:20	16.827	95.4	7.47	53607	8.04	145.5	0.06	0.32	2.08	1.131
Week 6	12-06-2024	11:07:21	16.828	95.4	7.47	53605	8.04	145.5	0.07	0.34	2.15	1.074
Week 6	12-06-2024	11:07:22	16.829	95.4	7.47	53603	8.04	145.5	0.07	0.33	2.12	1.022
Week 6	12-06-2024	11:07:23	16.831	95.4	7.47	53602	8.04	145.5	0.06	0.33	2.12	0.944
Week 6	12-06-2024	11:07:24	16.833	95.4	7.47	53601	8.04	145.5	0.05	0.33	2.12	0.854
Week 6	12-06-2024	11:07:25	16.834	95.4	7.47	53602	8.04	145.5	0.05	0.33	2.13	0.786
Week 7	17-06-2024	11:17:16	16.516	96.4	9.41	53284	8	153.5	1.08	0.47	2.62	0.016
Week 7	17-06-2024	11:17:17	16.511	96.6	7.62	53270	8.01	153.2	1.01	0.43	2.49	0.02
Week 7	17-06-2024	11:17:18	16.503	96.7	7.63	53318	8.01	152.9	0.93	0.41	2.4	0.027
Week 7	17-06-2024	11:17:19	16.496	96.8	7.64	53358	8.02	152.8	0.85	0.39	2.32	0.033
Week 7	17-06-2024	11:17:20	16.494	96.9	7.65	53369	8.02	152.6	0.76	0.38	2.31	0.044
Week 7	17-06-2024	11:17:21	16.496	97.1	7.66	53378	8.02	152.5	0.68	0.37	2.26	0.053
Week 7	17-06-2024	11:17:22	16.502	97.2	7.66	53376	8.02	152.4	0.61	0.32	2.09	0.063
Week 7	17-06-2024	11:17:23	16.507	97.2	7.67	53373	8.02	152.3	0.54	0.32	2.08	0.071
Week 7	17-06-2024	11:17:24	16.511	97.3	7.67	53372	8.02	152.2	0.45	0.29	1.96	0.081
Week 7	17-06-2024	11:17:25	16.515	97.4	7.68	53370	8.02	152.1	0.38	0.28	1.93	0.092
Week 7	17-06-2024	11:17:26	16.521	97.4	7.68	53366	8.02	152	0.3	0.26	1.86	0.104
Week 7	17-06-2024	11:17:27	16.527	97.5	7.68	53360	8.02	152	0.23	0.25	1.84	0.943
Week 7	17-06-2024	11:17:28	16.536	97.5	7.68	53351	8.02	151.9	0.16	0.26	1.87	1.129
Week 7	17-06-2024	11:17:29	16.538	97.3	7.67	53351	8.02	151.9	0.1	0.26	1.86	1.263
Week 7	17-06-2024	11:17:30	16.538	97.1	7.65	53352	8.02	151.8	0.06	0.27	1.89	1.262
Week 7	17-06-2024	11:17:31	16.539	96.9	7.64	53353	8.02	151.7	0.04	0.25	1.83	1.27
Week 7	17-06-2024	11:17:32	16.539	96.7	7.62	53355	8.02	151.7	0.04	0.26	1.86	1.281
Week 7	17-06-2024	11:17:33	16.539	96.6	7.61	53359	8.02	151.6	0.04	0.26	1.87	1.286
Week 7	17-06-2024	11:17:34	16.539	96.4	7.6	53362	8.03	151.6	0.04	0.26	1.87	1.288
Week 7	17-06-2024	11:17:35	16.539	96.3	7.59	53364	8.03	151.5	0.04	0.27	1.88	1.287
Week 7	17-06-2024	11:17:36	16.539	96.1	7.58	53367	8.03	151.5	0.03	0.26	1.86	1.289
Week 7	17-06-2024	11:17:37	16.539	96	7.57	53369	8.03	151.4	0.03	0.27	1.89	1.317
Week 7	17-06-2024	11:17:38	16.538	95.9	7.56	53370	8.03	151.4	0.03	0.27	1.9	1.378
Week 7	17-06-2024	11:17:39	16.538	95.8	7.55	53371	8.03	151.3	0.03	0.27	1.9	1.446
Week 7	17-06-2024	11:17:40	16.538	95.7	7.54	53372	8.03	151.3	0.02	0.28	1.94	1.501
Week 7	17-06-2024	11:17:41	16.538	95.5	7.53	53373	8.03	151.2	0.02	0.27	1.88	1.537
Week 7	17-06-2024	11:17:42	16.538	95.5	7.52	53374	8.03	151.1	0.02	0.27	1.91	1.577
Week 7	17-06-2024	11:17:43	16.537	95.4	7.52	53375	8.03	151.1	0.02	0.28	1.91	2.392
Week 7	17-06-2024	11:17:44	16.537	95.3	7.51	53376	8.03	151	0.02	0.28	1.94	2.366

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 7	17-06-2024	11:17:45	16.537	95.2	7.5	53376	8.03	150.9	0.02	0.28	1.94	2.525
Week 7	17-06-2024	11:17:46	16.536	95.1	7.5	53377	8.03	150.8	0.02	0.29	1.95	2.426
Week 7	17-06-2024	11:17:47	16.536	95.1	7.49	53378	8.03	150.7	0.02	0.3	2.02	2.418
Week 7	17-06-2024	11:17:48	16.536	95	7.49	53378	8.03	150.7	0.01	0.3	2.02	2.433
Week 7	17-06-2024	11:17:49	16.535	94.9	7.48	53378	8.03	150.6	0.01	0.31	2.05	2.562
Week 7	17-06-2024	11:17:50	16.535	94.9	7.48	53379	8.03	150.5	0.01	0.31	2.06	2.682
Week 7	17-06-2024	11:17:51	16.535	94.8	7.47	53380	8.03	150.5	0.01	0.31	2.04	2.797
Week 7	17-06-2024	11:17:52	16.535	94.8	7.47	53381	8.03	150.4	0.01	0.32	2.08	2.875
Week 7	17-06-2024	11:17:53	16.535	94.7	7.46	53382	8.03	150.4	0.01	0.33	2.11	2.919
Week 7	17-06-2024	11:17:54	16.534	94.7	7.46	53384	8.03	150.3	0.01	0.31	2.04	2.948
Week 7	17-06-2024	11:17:55	16.534	94.6	7.46	53384	8.03	150.3	0	0.31	2.03	2.984
Week 7	17-06-2024	11:17:56	16.534	94.6	7.45	53385	8.03	150.2	0.01	0.31	2.03	3.012
Week 7	17-06-2024	11:17:57	16.533	94.5	7.45	53386	8.03	150.2	0.01	0.31	2.05	3.045
Week 7	17-06-2024	11:17:58	16.533	94.5	7.45	53386	8.03	150.1	0.01	0.32	2.07	3.081
Week 7	17-06-2024	11:17:59	16.533	94.4	7.44	53387	8.03	150.1	0.01	0.31	2.02	3.123
Week 7	17-06-2024	11:18:00	16.532	94.4	7.44	53388	8.03	150	0.01	0.31	2.03	3.837
Week 7	17-06-2024	11:18:01	16.532	94.4	7.44	53389	8.03	150	0.02	0.3	2.02	3.793
Week 7	17-06-2024	11:18:02	16.532	94.3	7.43	53389	8.03	149.9	0.02	0.3	2.02	3.751
Week 7	17-06-2024	11:18:03	16.532	94.3	7.43	53389	8.03	149.9	0.02	0.31	2.05	3.748
Week 7	17-06-2024	11:18:04	16.532	94.3	7.43	53389	8.03	149.8	0.02	0.31	2.05	3.785
Week 7	17-06-2024	11:18:05	16.532	94.2	7.43	53390	8.03	149.8	0.03	0.3	2.02	3.861
Week 7	17-06-2024	11:18:06	16.532	94.2	7.43	53389	8.03	149.7	0.03	0.32	2.08	3.924
Week 7	17-06-2024	11:18:07	16.532	94.2	7.42	53390	8.03	149.7	0.02	0.32	2.08	3.953
Week 7	17-06-2024	11:18:08	16.532	94.2	7.42	53390	8.03	149.7	0.01	0.32	2.07	3.953
Week 7	17-06-2024	11:18:09	16.531	94.1	7.42	53390	8.03	149.6	0.01	0.3	2.02	3.963
Week 7	17-06-2024	11:18:10	16.531	94.1	7.42	53391	8.03	149.6	0.01	0.31	2.03	3.998
Week 7	17-06-2024	11:18:11	16.531	94.1	7.42	53392	8.03	149.6	0.02	0.31	2.04	4.048
Week 7	17-06-2024	11:18:12	16.531	94.1	7.41	53393	8.03	149.5	0.02	0.32	2.09	4.104
Week 7	17-06-2024	11:18:13	16.532	94	7.41	53395	8.03	149.5	0.01	0.33	2.11	4.157
Week 7	17-06-2024	11:18:14	16.532	94	7.41	53396	8.03	149.4	0.01	0.32	2.08	4.213
Week 7	17-06-2024	11:18:15	16.532	94	7.41	53398	8.03	149.4	0	0.32	2.07	4.26
Week 7	17-06-2024	11:18:16	16.532	94	7.41	53400	8.03	149.4	-0.01	0.32	2.08	4.308
Week 7	17-06-2024	11:18:17	16.533	93.9	7.4	53403	8.03	149.3	-0.01	0.31	2.05	5.378
Week 7	17-06-2024	11:18:18	16.533	93.9	7.4	53406	8.03	149.3	-0.01	0.31	2.05	5.648
Week 7	17-06-2024	11:18:19	16.534	93.9	7.4	53410	8.03	149.3	0	0.32	2.07	5.787
Week 7	17-06-2024	11:18:20	16.536	93.9	7.4	53413	8.03	149.3	0	0.32	2.07	5.815
Week 7	17-06-2024	11:18:21	16.537	93.9	7.4	53416	8.03	149.2	0	0.33	2.1	5.906
Week 7	17-06-2024	11:18:22	16.539	93.8	7.39	53419	8.03	149.2	0.01	0.34	2.14	5.931
Week 7	17-06-2024	11:18:23	16.541	93.8	7.39	53422	8.03	149.2	0.01	0.33	2.12	5.966
Week 7	17-06-2024	11:18:24	16.542	93.8	7.39	53424	8.03	149.1	0.01	0.34	2.15	6.008
Week 7	17-06-2024	11:18:25	16.544	93.8	7.39	53427	8.03	149.1	0	0.35	2.17	6.07
Week 7	17-06-2024	11:18:26	16.546	93.7	7.39	53429	8.03	149.1	0	0.36	2.24	6.104
Week 7	17-06-2024	11:18:27	16.547	93.7	7.38	53432	8.03	149	0.01	0.37	2.27	6.136
Week 7	17-06-2024	11:18:28	16.549	93.7	7.38	53434	8.03	149	0.02	0.38	2.31	6.185
Week 7	17-06-2024	11:18:29	16.551	93.7	7.38	53436	8.03	149	0.03	0.38	2.3	6.779
Week 7	17-06-2024	11:18:30	16.553	93.7	7.38	53439	8.03	149	0.03	0.38	2.29	6.956
Week 7	17-06-2024	11:18:31	16.555	93.6	7.37	53441	8.03	148.9	0.03	0.39	2.34	6.864
Week 7	17-06-2024	11:18:32	16.556	93.6	7.37	53444	8.03	148.9	0.04	0.39	2.34	6.933
Week 7	17-06-2024	11:18:33	16.557	93.6	7.37	53446	8.03	148.9	0.05	0.39	2.35	6.996
Week 7	17-06-2024	11:18:34	16.558	93.6	7.37	53448	8.03	148.9	0.04	0.39	2.34	7.019
Week 7	17-06-2024	11:18:35	16.56	93.5	7.37	53452	8.03	148.8	0.05	0.38	2.29	7.089
Week 7	17-06-2024	11:18:36	16.562	93.5	7.36	53455	8.03	148.8	0.05	0.38	2.28	7.153
Week 7	17-06-2024	11:18:37	16.564	93.5	7.36	53458	8.03	148.8	0.05	0.35	2.2	7.204
Week 7	17-06-2024	11:18:38	16.566	93.5	7.36	53461	8.03	148.8	0.05	0.37	2.25	7.247
Week 7	17-06-2024	11:18:39	16.57	93.5	7.36	53463	8.03	148.7	0.07	0.36	2.23	7.306
Week 7	17-06-2024	11:18:40	16.573	93.4	7.36	53466	8.03	148.7	0.07	0.39	2.33	7.344
Week 7	17-06-2024	11:18:41	16.577	93.4	7.35	53468	8.03	148.7	0.07	0.39	2.34	7.372
Week 7	17-06-2024	11:18:42	16.58	93.4	7.35	53470	8.03	148.7	0.06	0.39	2.32	7.408
Week 7	17-06-2024	11:18:43	16.584	93.4	7.35	53472	8.03	148.6	0.06	0.38	2.3	7.438
Week 7	17-06-2024	11:18:44	16.588	93.4	7.35	53476	8.03	148.6	0.05	0.38	2.28	7.464
Week 7	17-06-2024	11:18:45	16.592	93.3	7.35	53479	8.03	148.6	0.05	0.39	2.34	7.49
Week 7	17-06-2024	11:18:46	16.596	93.3	7.34	53483	8.03	148.6	0.06	0.39	2.34	7.514
Week 7	17-06-2024	11:18:47	16.6	93.3	7.34	53486	8.03	148.6	0.04	0.4	2.36	7.541
Week 7	17-06-2024	11:18:48	16.604	93.3	7.34	53491	8.03	148.5	0.04	0.42	2.45	7.567
Week 7	17-06-2024	11:18:49	16.609	93.2	7.33	53494	8.03	148.5	0.03	0.41	2.42	7.588
Week 7	17-06-2024	11:18:50	16.612	93.2	7.33	53499	8.03	148.5	0.03	0.41	2.39	7.6
Week 7	17-06-2024	11:18:51	16.615	93.2	7.33	53503	8.03	148.5	0.03	0.4	2.35	7.613
Week 7	17-06-2024	11:18:52	16.617	93.1	7.32	53507	8.03	148.5	0.03	0.4	2.36	7.628

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 7	17-06-2024	11:18:53	16.619	93.1	7.32	53512	8.03	148.5	0.03	0.41	2.38	7.645
Week 7	17-06-2024	11:18:54	16.621	93	7.32	53516	8.03	148.4	0.02	0.41	2.4	7.664
Week 7	17-06-2024	11:18:55	16.622	93	7.31	53520	8.03	148.4	0.02	0.42	2.43	7.689
Week 7	17-06-2024	11:18:56	16.624	93	7.31	53523	8.03	148.4	0.03	0.41	2.41	7.708
Week 7	17-06-2024	11:18:57	16.625	92.9	7.31	53526	8.03	148.4	0.03	0.42	2.44	7.722
Week 7	17-06-2024	11:18:58	16.626	92.9	7.3	53528	8.03	148.4	0.03	0.43	2.49	7.734
Week 7	17-06-2024	11:18:59	16.626	92.8	7.3	53531	8.03	148.4	0.04	0.43	2.46	7.754
Week 7	17-06-2024	11:19:00	16.627	92.8	7.3	53532	8.03	148.3	0.05	0.43	2.47	8.472
Week 7	17-06-2024	11:19:01	16.628	92.8	7.29	53534	8.03	148.3	0.04	0.42	2.44	8.513
Week 7	17-06-2024	11:19:02	16.63	92.7	7.29	53536	8.03	148.3	0.04	0.41	2.4	8.432
Week 7	17-06-2024	11:19:03	16.631	92.7	7.29	53538	8.03	148.3	0.04	0.4	2.38	8.374
Week 7	17-06-2024	11:19:04	16.632	92.7	7.29	53540	8.03	148.3	0.04	0.39	2.33	8.364
Week 7	17-06-2024	11:19:05	16.633	92.7	7.28	53542	8.03	148.3	0.03	0.39	2.33	8.342
Week 7	17-06-2024	11:19:06	16.634	92.6	7.28	53544	8.03	148.2	0.04	0.38	2.31	8.333
Week 7	17-06-2024	11:19:07	16.635	92.6	7.28	53545	8.03	148.2	0.04	0.37	2.26	8.34
Week 7	17-06-2024	11:19:08	16.636	92.6	7.28	53548	8.03	148.2	0.04	0.36	2.23	8.381
Week 7	17-06-2024	11:19:09	16.638	92.6	7.28	53550	8.03	148.2	0.05	0.34	2.16	8.455
Week 7	17-06-2024	11:19:10	16.64	92.5	7.27	53553	8.03	148.2	0.04	0.34	2.13	8.532
Week 7	17-06-2024	11:19:11	16.643	92.5	7.27	53557	8.03	148.2	0.05	0.33	2.12	8.61
Week 7	17-06-2024	11:19:12	16.646	92.5	7.27	53560	8.03	148.1	0.05	0.34	2.16	8.683
Week 7	17-06-2024	11:19:13	16.649	92.5	7.27	53564	8.03	148.1	0.05	0.36	2.23	8.756
Week 7	17-06-2024	11:19:14	16.652	92.4	7.26	53568	8.03	148.1	0.05	0.36	2.23	8.8
Week 7	17-06-2024	11:19:15	16.654	92.4	7.26	53572	8.03	148.1	0.05	0.36	2.23	9.634
Week 7	17-06-2024	11:19:16	16.657	92.4	7.26	53575	8.03	148.1	0.05	0.36	2.22	9.957
Week 7	17-06-2024	11:19:17	16.659	92.3	7.25	53580	8.03	148.1	0.05	0.35	2.2	10.117
Week 7	17-06-2024	11:19:18	16.662	92.3	7.25	53583	8.03	148.1	0.05	0.36	2.23	10.267
Week 7	17-06-2024	11:19:19	16.665	92.3	7.25	53588	8.03	148	0.05	0.37	2.26	10.354
Week 7	17-06-2024	11:19:20	16.668	92.2	7.24	53592	8.03	148	0.05	0.36	2.22	10.352
Week 7	17-06-2024	11:19:21	16.671	92.2	7.24	53596	8.03	148	0.04	0.36	2.21	10.409
Week 7	17-06-2024	11:19:22	16.673	92.2	7.24	53600	8.03	148	0.04	0.35	2.2	10.477
Week 7	17-06-2024	11:19:23	16.674	92.1	7.23	53602	8.03	148	0.03	0.36	2.23	10.527
Week 7	17-06-2024	11:19:24	16.675	92.1	7.23	53604	8.03	148	0.03	0.35	2.2	10.548
Week 7	17-06-2024	11:19:25	16.675	92	7.23	53606	8.03	148	0.03	0.36	2.21	10.602
Week 7	17-06-2024	11:19:26	16.676	92	7.22	53607	8.03	147.9	0.03	0.35	2.2	10.641
Week 7	17-06-2024	11:19:27	16.676	92	7.22	53608	8.03	147.9	0.02	0.35	2.18	10.69
Week 7	17-06-2024	11:19:28	16.676	91.9	7.22	53609	8.03	147.9	0.02	0.34	2.16	11.571
Week 7	17-06-2024	11:19:29	16.676	91.9	7.21	53610	8.03	147.9	0.03	0.35	2.18	11.854
Week 7	17-06-2024	11:19:30	16.676	91.8	7.21	53610	8.03	147.9	0.03	0.34	2.15	11.953
Week 7	17-06-2024	11:19:31	16.676	91.8	7.21	53611	8.03	147.9	0.03	0.35	2.17	11.94
Week 7	17-06-2024	11:19:32	16.676	91.8	7.21	53612	8.03	147.9	0.03	0.35	2.18	11.914
Week 7	17-06-2024	11:19:33	16.676	91.7	7.2	53612	8.03	147.9	0.02	0.34	2.16	11.892
Week 7	17-06-2024	11:19:34	16.676	91.7	7.2	53612	8.03	147.8	0.02	0.34	2.14	11.866
Week 7	17-06-2024	11:19:35	16.675	91.7	7.2	53613	8.03	147.8	0.02	0.34	2.16	11.905
Week 7	17-06-2024	11:19:36	16.675	91.6	7.2	53613	8.03	147.8	0.02	0.34	2.16	12.004
Week 7	17-06-2024	11:19:37	16.675	91.6	7.19	53614	8.03	147.8	0.02	0.34	2.14	12.091
Week 7	17-06-2024	11:19:38	16.675	91.6	7.19	53614	8.03	147.8	0.02	0.34	2.15	12.137
Week 7	17-06-2024	11:19:39	16.675	91.6	7.19	53615	8.03	147.8	0.02	0.35	2.17	12.155
Week 7	17-06-2024	11:19:40	16.675	91.5	7.19	53615	8.03	147.8	0.02	0.34	2.16	12.138
Week 7	17-06-2024	11:19:41	16.675	91.5	7.19	53615	8.03	147.7	0.02	0.35	2.17	12.142
Week 7	17-06-2024	11:19:42	16.675	91.5	7.18	53615	8.03	147.7	0.02	0.35	2.17	12.141
Week 7	17-06-2024	11:19:43	16.675	91.5	7.18	53615	8.03	147.7	0.03	0.33	2.13	12.151
Week 7	17-06-2024	11:19:44	16.675	91.4	7.18	53616	8.03	147.7	0.03	0.34	2.15	12.164
Week 7	17-06-2024	11:19:45	16.675	91.4	7.18	53616	8.03	147.7	0.02	0.34	2.13	12.174
Week 7	17-06-2024	11:19:46	16.675	91.4	7.18	53616	8.03	147.7	0.02	0.34	2.14	12.176
Week 7	17-06-2024	11:19:47	16.675	91.4	7.18	53616	8.03	147.7	0.03	0.34	2.15	12.181
Week 7	17-06-2024	11:19:48	16.675	91.4	7.17	53617	8.03	147.7	0.04	0.34	2.15	12.179
Week 7	17-06-2024	11:19:49	16.675	91.3	7.17	53617	8.03	147.6	0.03	0.36	2.22	12.172
Week 7	17-06-2024	11:19:50	16.675	91.3	7.17	53617	8.03	147.6	0.04	0.35	2.19	12.162
Week 7	17-06-2024	11:19:51	16.675	91.3	7.17	53617	8.03	147.6	0.04	0.33	2.11	12.157
Week 7	17-06-2024	11:19:52	16.675	91.3	7.17	53617	8.03	147.6	0.05	0.32	2.09	12.169
Week 7	17-06-2024	11:19:53	16.675	91.3	7.17	53617	8.03	147.6	0.05	0.33	2.1	12.189
Week 7	17-06-2024	11:19:54	16.675	91.3	7.17	53617	8.03	147.6	0.05	0.35	2.19	12.969
Week 7	17-06-2024	11:19:55	16.675	91.3	7.17	53618	8.03	147.6	0.05	0.34	2.15	13.333
Week 7	17-06-2024	11:19:56	16.675	91.3	7.17	53618	8.03	147.6	0.05	0.33	2.1	13.099
Week 7	17-06-2024	11:19:57	16.675	91.2	7.16	53619	8.03	147.6	0.04	0.32	2.09	13.067
Week 7	17-06-2024	11:19:58	16.675	91.2	7.16	53619	8.03	147.5	0.03	0.32	2.07	13.06
Week 7	17-06-2024	11:19:59	16.675	91.2	7.16	53620	8.03	147.5	0.04	0.31	2.05	13.179
Week 7	17-06-2024	11:20:00	16.675	91.2	7.16	53619	8.03	147.5	0.04	0.3	1.99	13.934

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 7	17-06-2024	11:20:01	16.675	91.2	7.16	53619	8.03	147.5	0.03	0.29	1.95	14.079
Week 7	17-06-2024	11:20:02	16.675	91.2	7.16	53620	8.03	147.5	0.04	0.31	2.04	13.973
Week 7	17-06-2024	11:20:03	16.675	91.2	7.16	53620	8.03	147.5	0.03	0.32	2.06	13.987
Week 7	17-06-2024	11:20:04	16.675	91.2	7.16	53620	8.03	147.5	0.03	0.31	2.03	14.127
Week 7	17-06-2024	11:20:05	16.675	91.1	7.16	53620	8.03	147.5	0.04	0.28	1.93	14.315
Week 7	17-06-2024	11:20:06	16.675	91.1	7.15	53620	8.03	147.4	0.03	0.29	1.97	14.502
Week 7	17-06-2024	11:20:07	16.675	91.1	7.15	53621	8.03	147.4	0.03	0.3	1.99	14.593
Week 7	17-06-2024	11:20:08	16.675	91.1	7.15	53621	8.03	147.4	0.03	0.29	1.96	14.658
Week 7	17-06-2024	11:20:09	16.674	91.1	7.15	53621	8.03	147.4	0.04	0.28	1.95	14.74
Week 7	17-06-2024	11:20:10	16.674	91	7.15	53621	8.03	147.4	0.03	0.3	1.99	14.808
Week 7	17-06-2024	11:20:11	16.674	91	7.15	53621	8.03	147.4	0.04	0.31	2.04	14.873
Week 7	17-06-2024	11:20:12	16.674	91	7.14	53621	8.03	147.4	0.05	0.32	2.09	15.663
Week 7	17-06-2024	11:20:13	16.674	91	7.14	53622	8.03	147.4	0.05	0.31	2.03	15.736
Week 7	17-06-2024	11:20:14	16.674	91	7.14	53622	8.03	147.4	0.06	0.3	2.02	16.06
Week 7	17-06-2024	11:20:15	16.674	90.9	7.14	53622	8.03	147.4	0.07	0.31	2.06	16.293
Week 7	17-06-2024	11:20:16	16.674	90.9	7.14	53622	8.03	147.3	0.07	0.31	2.03	16.289
Week 7	17-06-2024	11:20:17	16.674	90.9	7.14	53623	8.03	147.3	0.07	0.32	2.06	16.223
Week 7	17-06-2024	11:20:18	16.674	90.9	7.13	53623	8.03	147.3	0.08	0.32	2.07	16.219
Week 7	17-06-2024	11:20:19	16.673	90.8	7.13	53623	8.03	147.3	0.08	0.32	2.08	16.273
Week 7	17-06-2024	11:20:20	16.673	90.8	7.13	53623	8.03	147.3	0.08	0.32	2.09	16.39
Week 7	17-06-2024	11:20:21	16.673	90.8	7.13	53624	8.03	147.3	0.08	0.33	2.1	16.494
Week 7	17-06-2024	11:20:22	16.674	90.8	7.13	53624	8.03	147.3	0.08	0.32	2.08	16.558
Week 7	17-06-2024	11:20:23	16.674	90.7	7.12	53624	8.03	147.3	0.07	0.31	2.05	16.608
Week 7	17-06-2024	11:20:24	16.673	90.7	7.12	53625	8.03	147.3	0.08	0.32	2.07	16.636
Week 7	17-06-2024	11:20:25	16.673	90.7	7.12	53625	8.03	147.3	0.08	0.32	2.06	16.673
Week 7	17-06-2024	11:20:26	16.673	90.7	7.12	53625	8.03	147.2	0.07	0.32	2.06	16.731
Week 7	17-06-2024	11:20:27	16.673	90.7	7.12	53625	8.03	147.2	0.07	0.33	2.1	17.677
Week 7	17-06-2024	11:20:28	16.673	90.6	7.12	53626	8.03	147.2	0.06	0.32	2.08	17.629
Week 7	17-06-2024	11:20:29	16.673	90.6	7.12	53626	8.03	147.2	0.05	0.33	2.1	17.733
Week 7	17-06-2024	11:20:30	16.673	90.6	7.11	53626	8.03	147.2	0.05	0.31	2.05	17.686
Week 7	17-06-2024	11:20:31	16.673	90.6	7.11	53627	8.03	147.2	0.05	0.31	2.03	17.697
Week 7	17-06-2024	11:20:32	16.673	90.6	7.11	53627	8.03	147.2	0.05	0.31	2.04	17.734
Week 7	17-06-2024	11:20:33	16.673	90.5	7.11	53627	8.03	147.2	0.04	0.31	2.06	17.796
Week 7	17-06-2024	11:20:34	16.673	90.5	7.11	53627	8.03	147.2	0.05	0.31	2.03	17.842
Week 7	17-06-2024	11:20:35	16.673	90.5	7.11	53628	8.03	147.2	0.06	0.31	2.04	17.882
Week 7	17-06-2024	11:20:36	16.673	90.5	7.11	53628	8.03	147.2	0.05	0.31	2.03	17.887
Week 7	17-06-2024	11:20:37	16.673	90.5	7.1	53628	8.03	147.2	0.05	0.31	2.02	17.906
Week 7	17-06-2024	11:20:38	16.673	90.5	7.1	53628	8.03	147.2	0.05	0.32	2.08	17.941
Week 7	17-06-2024	11:20:39	16.673	90.5	7.1	53628	8.03	147.1	0.05	0.32	2.09	17.964
Week 7	17-06-2024	11:20:40	16.673	90.4	7.1	53628	8.03	147.1	0.05	0.32	2.08	17.984
Week 7	17-06-2024	11:20:41	16.673	90.4	7.1	53628	8.03	147.1	0.05	0.34	2.14	18.004
Week 7	17-06-2024	11:20:42	16.673	90.4	7.1	53629	8.03	147.1	0.06	0.34	2.16	18.026
Week 7	17-06-2024	11:20:43	16.673	90.4	7.1	53629	8.03	147.1	0.07	0.33	2.11	18.045
Week 7	17-06-2024	11:20:44	16.673	90.4	7.1	53629	8.03	147.1	0.07	0.32	2.07	18.046
Week 7	17-06-2024	11:20:45	16.673	90.4	7.1	53629	8.03	147.1	0.06	0.34	2.13	18.036
Week 7	17-06-2024	11:20:46	16.673	90.4	7.1	53629	8.03	147.1	0.05	0.34	2.16	18.007
Week 7	17-06-2024	11:20:47	16.673	90.4	7.1	53630	8.03	147.1	0.06	0.36	2.21	17.988
Week 7	17-06-2024	11:20:48	16.673	90.4	7.1	53630	8.03	147.1	0.05	0.36	2.22	17.99
Week 7	17-06-2024	11:20:49	16.673	90.4	7.1	53630	8.03	147.1	0.06	0.33	2.13	17.999
Week 7	17-06-2024	11:20:50	16.673	90.4	7.1	53631	8.03	147.1	0.06	0.33	2.12	17.997
Week 7	17-06-2024	11:20:51	16.673	90.4	7.1	53631	8.03	147.1	0.07	0.32	2.09	17.978
Week 7	17-06-2024	11:20:52	16.673	90.4	7.1	53631	8.03	147	0.07	0.32	2.08	17.948
Week 7	17-06-2024	11:20:53	16.673	90.4	7.09	53631	8.03	147	0.07	0.33	2.1	17.927
Week 7	17-06-2024	11:20:54	16.673	90.4	7.1	53631	8.03	147	0.07	0.33	2.13	17.92
Week 7	17-06-2024	11:20:55	16.673	90.4	7.09	53631	8.03	147	0.08	0.34	2.14	17.923
Week 7	17-06-2024	11:20:56	16.673	90.4	7.09	53631	8.03	147	0.07	0.32	2.09	17.925
Week 7	17-06-2024	11:20:57	16.673	90.4	7.09	53632	8.03	147	0.06	0.31	2.04	17.925
Week 7	17-06-2024	11:20:58	16.673	90.3	7.09	53632	8.03	147	0.07	0.3	2	17.938
Week 7	17-06-2024	11:20:59	16.673	90.3	7.09	53632	8.03	147	0.07	0.29	1.98	17.953
Week 7	17-06-2024	11:21:00	16.673	90.3	7.09	53632	8.03	147	0.07	0.3	2.01	18.837
Week 7	17-06-2024	11:21:01	16.673	90.3	7.09	53632	8.03	147	0.07	0.3	2.01	18.801
Week 7	17-06-2024	11:21:02	16.674	90.3	7.09	53632	8.03	147	0.07	0.31	2.03	18.993
Week 7	17-06-2024	11:21:03	16.674	90.3	7.09	53632	8.03	147	0.07	0.31	2.05	19.034
Week 7	17-06-2024	11:21:04	16.674	90.3	7.09	53632	8.03	147	0.06	0.3	2.01	19.172
Week 7	17-06-2024	11:21:05	16.674	90.3	7.09	53632	8.03	147	0.06	0.3	1.99	19.288
Week 7	17-06-2024	11:21:06	16.674	90.3	7.09	53632	8.03	147	0.06	0.29	1.97	19.426
Week 7	17-06-2024	11:21:07	16.674	90.3	7.09	53633	8.03	146.9	0.06	0.3	1.99	19.57
Week 7	17-06-2024	11:21:08	16.674	90.3	7.09	53633	8.03	146.9	0.07	0.31	2.04	19.681

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 7	17-06-2024	11:21:09	16.674	90.3	7.09	53633	8.03	146.9	0.06	0.33	2.1	19.711
Week 7	17-06-2024	11:21:10	16.674	90.2	7.09	53633	8.03	146.9	0.06	0.34	2.14	19.73
Week 7	17-06-2024	11:21:11	16.674	90.2	7.08	53633	8.03	146.9	0.07	0.34	2.17	19.751
Week 7	17-06-2024	11:21:12	16.674	90.2	7.08	53634	8.03	146.9	0.06	0.33	2.11	19.799
Week 7	17-06-2024	11:21:13	16.674	90.2	7.08	53633	8.03	146.9	0.05	0.33	2.12	19.843
Week 7	17-06-2024	11:21:14	16.674	90.2	7.08	53633	8.03	146.9	0.06	0.32	2.07	19.874
Week 7	17-06-2024	11:21:15	16.674	90.2	7.08	53634	8.03	146.9	0.06	0.32	2.09	19.903
Week 7	17-06-2024	11:21:16	16.674	90.2	7.08	53634	8.03	146.9	0.07	0.33	2.13	19.937
Week 7	17-06-2024	11:21:17	16.674	90.2	7.08	53634	8.03	146.9	0.07	0.35	2.18	20.755
Week 7	17-06-2024	11:21:18	16.674	90.2	7.08	53634	8.03	146.9	0.08	0.36	2.2	20.567
Week 7	17-06-2024	11:21:19	16.674	90.2	7.08	53635	8.03	146.9	0.08	0.35	2.19	20.437
Week 7	17-06-2024	11:21:20	16.674	90.2	7.08	53635	8.03	146.9	0.08	0.33	2.13	20.643
Week 7	17-06-2024	11:21:21	16.674	90.2	7.08	53635	8.03	146.8	0.09	0.32	2.08	20.727
Week 7	17-06-2024	11:21:22	16.674	90.2	7.08	53635	8.03	146.8	0.09	0.32	2.07	20.864
Week 7	17-06-2024	11:21:23	16.674	90.2	7.08	53635	8.03	146.8	0.08	0.33	2.1	20.918
Week 7	17-06-2024	11:21:24	16.674	90.2	7.08	53635	8.03	146.8	0.09	0.32	2.08	20.943
Week 7	17-06-2024	11:21:25	16.674	90.2	7.08	53635	8.03	146.8	0.08	0.33	2.13	20.982
Week 7	17-06-2024	11:21:26	16.674	90.2	7.08	53635	8.03	146.8	0.09	0.34	2.13	20.983
Week 7	17-06-2024	11:21:27	16.674	90.1	7.08	53636	8.03	146.8	0.1	0.33	2.12	20.979
Week 7	17-06-2024	11:21:28	16.674	90.1	7.08	53636	8.03	146.8	0.1	0.32	2.08	20.984
Week 7	17-06-2024	11:21:29	16.674	90.1	7.08	53636	8.03	146.8	0.1	0.31	2.05	20.997
Week 7	17-06-2024	11:21:30	16.674	90.1	7.08	53637	8.03	146.8	0.09	0.31	2.03	21.018
Week 7	17-06-2024	11:21:31	16.674	90.1	7.08	53636	8.03	146.8	0.1	0.32	2.08	21.03
Week 7	17-06-2024	11:21:32	16.674	90.1	7.08	53636	8.03	146.8	0.09	0.31	2.05	21.027
Week 7	17-06-2024	11:21:33	16.674	90.1	7.08	53636	8.03	146.8	0.09	0.32	2.07	21.022
Week 7	17-06-2024	11:21:34	16.674	90.1	7.08	53636	8.03	146.7	0.08	0.31	2.03	21.01
Week 7	17-06-2024	11:21:35	16.674	90.1	7.08	53637	8.03	146.7	0.1	0.32	2.08	21.024
Week 7	17-06-2024	11:21:36	16.674	90.1	7.07	53637	8.03	146.7	0.08	0.31	2.04	21.045
Week 7	17-06-2024	11:21:37	16.674	90.1	7.07	53637	8.03	146.7	0.08	0.31	2.06	21.064
Week 7	17-06-2024	11:21:38	16.674	90.1	7.08	53637	8.03	146.7	0.08	0.31	2.03	21.06
Week 7	17-06-2024	11:21:39	16.674	90.1	7.08	53637	8.03	146.7	0.07	0.31	2.05	21.041
Week 7	17-06-2024	11:21:40	16.674	90.1	7.08	53637	8.03	146.7	0.07	0.3	2	21.021
Week 7	17-06-2024	11:21:41	16.674	90.1	7.08	53637	8.03	146.7	0.06	0.3	2.01	20.996
Week 7	17-06-2024	11:21:42	16.674	90.1	7.08	53637	8.03	146.7	0.05	0.29	1.97	20.972
Week 7	17-06-2024	11:21:43	16.674	90.1	7.08	53637	8.03	146.7	0.05	0.3	2.01	20.944
Week 7	17-06-2024	11:21:44	16.674	90.1	7.08	53637	8.03	146.7	0.05	0.3	2.01	19.971
Week 7	17-06-2024	11:21:45	16.674	90.1	7.08	53637	8.03	146.7	0.05	0.31	2.04	19.54
Week 7	17-06-2024	11:21:46	16.674	90.1	7.08	53637	8.03	146.7	0.05	0.3	2.02	19.089
Week 7	17-06-2024	11:21:47	16.674	90.1	7.08	53637	8.03	146.7	0.06	0.31	2.03	18.92
Week 7	17-06-2024	11:21:48	16.674	90.1	7.08	53637	8.03	146.7	0.07	0.3	1.99	19.003
Week 7	17-06-2024	11:21:49	16.674	90.1	7.08	53636	8.03	146.7	0.06	0.3	2.01	19.02
Week 7	17-06-2024	11:21:50	16.674	90.1	7.08	53636	8.03	146.7	0.05	0.31	2.04	19.017
Week 7	17-06-2024	11:21:51	16.674	90.1	7.08	53636	8.03	146.6	0.05	0.32	2.08	18.969
Week 7	17-06-2024	11:21:52	16.673	90.1	7.08	53636	8.03	146.6	0.06	0.32	2.09	18.091
Week 7	17-06-2024	11:21:53	16.673	90.1	7.08	53635	8.03	146.6	0.06	0.32	2.07	18.005
Week 7	17-06-2024	11:21:54	16.673	90.2	7.08	53635	8.03	146.6	0.06	0.31	2.03	18.074
Week 7	17-06-2024	11:21:55	16.673	90.2	7.08	53635	8.03	146.6	0.06	0.3	2	18.165
Week 7	17-06-2024	11:21:56	16.673	90.2	7.08	53635	8.03	146.6	0.07	0.31	2.03	18.172
Week 7	17-06-2024	11:21:57	16.673	90.2	7.08	53635	8.03	146.6	0.07	0.32	2.08	18.131
Week 7	17-06-2024	11:21:58	16.673	90.2	7.08	53635	8.03	146.6	0.08	0.32	2.06	18.032
Week 7	17-06-2024	11:21:59	16.673	90.2	7.08	53635	8.03	146.6	0.09	0.32	2.07	17.965
Week 7	17-06-2024	11:22:00	16.673	90.2	7.08	53634	8.03	146.6	0.08	0.33	2.11	17.92
Week 7	17-06-2024	11:22:01	16.673	90.2	7.08	53634	8.03	146.6	0.08	0.32	2.07	17.852
Week 7	17-06-2024	11:22:02	16.673	90.2	7.08	53634	8.03	146.6	0.08	0.32	2.09	17.808
Week 7	17-06-2024	11:22:03	16.673	90.2	7.08	53634	8.03	146.6	0.08	0.32	2.09	17.802
Week 7	17-06-2024	11:22:04	16.673	90.2	7.08	53634	8.03	146.6	0.07	0.34	2.13	17.813
Week 7	17-06-2024	11:22:05	16.673	90.2	7.08	53633	8.03	146.6	0.08	0.33	2.13	17.836
Week 7	17-06-2024	11:22:06	16.673	90.2	7.08	53633	8.03	146.6	0.09	0.34	2.14	17.829
Week 7	17-06-2024	11:22:07	16.673	90.2	7.08	53633	8.03	146.6	0.09	0.35	2.18	17.796
Week 7	17-06-2024	11:22:08	16.673	90.2	7.08	53633	8.03	146.6	0.09	0.34	2.13	17.755
Week 7	17-06-2024	11:22:09	16.673	90.2	7.08	53633	8.03	146.5	0.09	0.34	2.16	17.717
Week 7	17-06-2024	11:22:10	16.673	90.2	7.08	53633	8.03	146.5	0.09	0.34	2.14	17.7
Week 7	17-06-2024	11:22:11	16.673	90.2	7.08	53632	8.03	146.5	0.08	0.32	2.08	17.693
Week 7	17-06-2024	11:22:12	16.673	90.2	7.08	53632	8.03	146.5	0.08	0.32	2.08	17.676
Week 7	17-06-2024	11:22:13	16.673	90.2	7.08	53633	8.03	146.5	0.08	0.31	2.03	17.642
Week 7	17-06-2024	11:22:14	16.673	90.2	7.08	53633	8.03	146.5	0.08	0.33	2.11	16.65
Week 7	17-06-2024	11:22:15	16.673	90.2	7.08	53634	8.03	146.5	0.09	0.33	2.1	16.566
Week 7	17-06-2024	11:22:16	16.673	90.2	7.08	53633	8.03	146.5	0.1	0.33	2.12	16.986

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 7	17-06-2024	11:22:17	16.673	90.2	7.08	53633	8.03	146.5	0.11	0.34	2.16	17.149
Week 7	17-06-2024	11:22:18	16.674	90.2	7.08	53633	8.03	146.5	0.1	0.33	2.1	17.212
Week 7	17-06-2024	11:22:19	16.674	90.2	7.08	53633	8.03	146.5	0.1	0.33	2.1	17.157
Week 7	17-06-2024	11:22:20	16.673	90.2	7.08	53633	8.03	146.5	0.1	0.33	2.12	17.044
Week 7	17-06-2024	11:22:21	16.673	90.2	7.08	53633	8.03	146.5	0.09	0.35	2.19	16.956
Week 7	17-06-2024	11:22:22	16.673	90.2	7.08	53633	8.03	146.5	0.09	0.36	2.22	16.857
Week 7	17-06-2024	11:22:23	16.673	90.2	7.08	53633	8.03	146.5	0.09	0.36	2.21	16.767
Week 7	17-06-2024	11:22:24	16.673	90.2	7.08	53633	8.03	146.5	0.07	0.36	2.23	16.692
Week 7	17-06-2024	11:22:25	16.673	90.2	7.08	53633	8.03	146.5	0.07	0.34	2.16	16.639
Week 7	17-06-2024	11:22:26	16.673	90.2	7.08	53633	8.03	146.5	0.08	0.34	2.15	16.584
Week 7	17-06-2024	11:22:27	16.673	90.2	7.08	53633	8.03	146.5	0.08	0.35	2.17	16.541
Week 7	17-06-2024	11:22:28	16.673	90.2	7.08	53633	8.03	146.4	0.08	0.34	2.17	16.489
Week 7	17-06-2024	11:22:29	16.673	90.2	7.08	53633	8.03	146.4	0.07	0.34	2.14	16.44
Week 7	17-06-2024	11:22:30	16.673	90.2	7.08	53633	8.03	146.4	0.07	0.35	2.17	16.393
Week 7	17-06-2024	11:22:31	16.673	90.2	7.08	53633	8.03	146.4	0.06	0.34	2.16	16.351
Week 7	17-06-2024	11:22:32	16.673	90.2	7.08	53633	8.03	146.4	0.06	0.33	2.1	16.321
Week 7	17-06-2024	11:22:33	16.673	90.2	7.08	53633	8.03	146.4	0.06	0.32	2.06	16.289
Week 7	17-06-2024	11:22:34	16.673	90.2	7.08	53633	8.03	146.4	0.07	0.33	2.11	15.365
Week 7	17-06-2024	11:22:35	16.673	90.2	7.08	53633	8.03	146.4	0.08	0.33	2.11	15.095
Week 7	17-06-2024	11:22:36	16.673	90.2	7.08	53632	8.03	146.4	0.07	0.33	2.11	15.212
Week 7	17-06-2024	11:22:37	16.673	90.2	7.08	53632	8.03	146.4	0.07	0.32	2.07	15.234
Week 7	17-06-2024	11:22:38	16.673	90.2	7.08	53632	8.03	146.4	0.07	0.31	2.05	15.183
Week 7	17-06-2024	11:22:39	16.673	90.2	7.08	53632	8.03	146.4	0.08	0.32	2.07	15.063
Week 7	17-06-2024	11:22:40	16.673	90.2	7.08	53632	8.03	146.4	0.07	0.33	2.1	14.947
Week 7	17-06-2024	11:22:41	16.673	90.2	7.08	53632	8.03	146.4	0.07	0.32	2.09	14.875
Week 7	17-06-2024	11:22:42	16.673	90.2	7.08	53632	8.03	146.4	0.07	0.31	2.04	14.81
Week 7	17-06-2024	11:22:43	16.673	90.2	7.08	53632	8.03	146.4	0.07	0.32	2.06	14.735
Week 7	17-06-2024	11:22:44	16.673	90.2	7.08	53632	8.03	146.4	0.07	0.33	2.11	14.663
Week 7	17-06-2024	11:22:45	16.673	90.2	7.09	53632	8.03	146.4	0.07	0.33	2.12	13.737
Week 7	17-06-2024	11:22:46	16.673	90.2	7.09	53632	8.03	146.4	0.07	0.33	2.12	13.334
Week 7	17-06-2024	11:22:47	16.673	90.3	7.09	53632	8.03	146.4	0.07	0.34	2.15	13.03
Week 7	17-06-2024	11:22:48	16.673	90.3	7.09	53632	8.03	146.4	0.07	0.36	2.21	12.812
Week 7	17-06-2024	11:22:49	16.673	90.3	7.09	53632	8.03	146.4	0.06	0.36	2.22	12.757
Week 7	17-06-2024	11:22:50	16.673	90.3	7.09	53632	8.03	146.4	0.05	0.35	2.18	12.795
Week 7	17-06-2024	11:22:51	16.674	90.3	7.09	53632	8.03	146.3	0.05	0.35	2.17	12.759
Week 7	17-06-2024	11:22:52	16.674	90.3	7.09	53632	8.03	146.3	0.05	0.35	2.18	12.62
Week 7	17-06-2024	11:22:53	16.674	90.3	7.09	53631	8.03	146.3	0.05	0.36	2.24	11.731
Week 7	17-06-2024	11:22:54	16.674	90.4	7.1	53631	8.03	146.3	0.06	0.38	2.28	11.554
Week 7	17-06-2024	11:22:55	16.675	90.4	7.1	53631	8.03	146.3	0.06	0.37	2.27	11.335
Week 7	17-06-2024	11:22:56	16.675	90.4	7.1	53630	8.03	146.3	0.06	0.36	2.22	11.372
Week 7	17-06-2024	11:22:57	16.675	90.5	7.1	53630	8.03	146.3	0.05	0.35	2.2	11.376
Week 7	17-06-2024	11:22:58	16.675	90.5	7.1	53630	8.03	146.3	0.05	0.34	2.14	11.32
Week 7	17-06-2024	11:22:59	16.675	90.5	7.11	53630	8.03	146.3	0.06	0.33	2.12	11.264
Week 7	17-06-2024	11:23:00	16.675	90.6	7.11	53629	8.03	146.3	0.06	0.33	2.11	11.154
Week 7	17-06-2024	11:23:01	16.675	90.6	7.11	53629	8.03	146.3	0.05	0.33	2.13	11.066
Week 7	17-06-2024	11:23:02	16.675	90.6	7.11	53629	8.03	146.3	0.04	0.34	2.16	10.974
Week 7	17-06-2024	11:23:03	16.675	90.6	7.12	53628	8.03	146.3	0.04	0.33	2.11	10.883
Week 7	17-06-2024	11:23:04	16.675	90.7	7.12	53628	8.03	146.3	0.05	0.32	2.09	10.209
Week 7	17-06-2024	11:23:05	16.675	90.7	7.12	53627	8.03	146.3	0.05	0.32	2.08	10.166
Week 7	17-06-2024	11:23:06	16.675	90.7	7.12	53627	8.03	146.3	0.05	0.32	2.09	10.439
Week 7	17-06-2024	11:23:07	16.676	90.8	7.13	53626	8.03	146.3	0.05	0.31	2.05	10.376
Week 7	17-06-2024	11:23:08	16.676	90.8	7.13	53626	8.03	146.3	0.04	0.33	2.1	10.17
Week 7	17-06-2024	11:23:09	16.676	90.8	7.13	53625	8.03	146.2	0.04	0.35	2.17	10
Week 7	17-06-2024	11:23:10	16.676	90.8	7.13	53625	8.03	146.2	0.03	0.35	2.17	9.865
Week 7	17-06-2024	11:23:11	16.676	90.8	7.13	53625	8.03	146.2	0.04	0.34	2.15	9.874
Week 7	17-06-2024	11:23:12	16.676	90.9	7.13	53624	8.03	146.2	0.04	0.33	2.13	9.919
Week 7	17-06-2024	11:23:13	16.676	90.9	7.14	53624	8.03	146.2	0.02	0.33	2.12	9.944
Week 7	17-06-2024	11:23:14	16.675	90.9	7.14	53623	8.03	146.2	0.03	0.34	2.14	9.941
Week 7	17-06-2024	11:23:15	16.676	90.9	7.14	53623	8.03	146.2	0.02	0.34	2.16	9.938
Week 7	17-06-2024	11:23:16	16.676	90.9	7.14	53622	8.03	146.2	0.02	0.35	2.17	9.92
Week 7	17-06-2024	11:23:17	16.676	90.9	7.14	53622	8.03	146.2	0.01	0.34	2.16	9.916
Week 7	17-06-2024	11:23:18	16.676	90.9	7.14	53622	8.03	146.2	0.01	0.37	2.24	9.938
Week 7	17-06-2024	11:23:19	16.676	91	7.14	53622	8.03	146.2	0.01	0.37	2.24	9.96
Week 7	17-06-2024	11:23:20	16.676	91	7.14	53621	8.03	146.2	0	0.35	2.2	9.964
Week 7	17-06-2024	11:23:21	16.676	91	7.14	53621	8.03	146.2	0	0.36	2.22	9.95
Week 7	17-06-2024	11:23:22	16.676	91	7.14	53621	8.03	146.2	0	0.37	2.24	9.93
Week 7	17-06-2024	11:23:23	16.676	91	7.14	53621	8.03	146.2	0.01	0.37	2.25	9.923
Week 7	17-06-2024	11:23:24	16.676	91	7.15	53621	8.03	146.2	0	0.37	2.27	9.923

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 7	17-06-2024	11:23:25	16.676	91	7.15	53621	8.03	146.2	0	0.37	2.25	9.921
Week 7	17-06-2024	11:23:26	16.676	91	7.15	53621	8.03	146.2	0	0.37	2.27	9.909
Week 7	17-06-2024	11:23:27	16.676	91	7.15	53621	8.03	146.1	0.01	0.38	2.28	9.894
Week 7	17-06-2024	11:23:28	16.676	91	7.15	53620	8.03	146.1	0.01	0.39	2.32	9.88
Week 7	17-06-2024	11:23:29	16.676	91	7.15	53620	8.03	146.1	0.02	0.38	2.31	9.863
Week 7	17-06-2024	11:23:30	16.676	91	7.15	53620	8.03	146.1	0.02	0.37	2.26	9.112
Week 7	17-06-2024	11:23:31	16.676	91.1	7.15	53620	8.03	146.1	0.02	0.38	2.3	8.827
Week 7	17-06-2024	11:23:32	16.676	91.1	7.15	53620	8.03	146.1	0.02	0.38	2.3	8.999
Week 7	17-06-2024	11:23:33	16.676	91.1	7.15	53620	8.03	146.1	0.01	0.39	2.32	8.849
Week 7	17-06-2024	11:23:34	16.676	91.1	7.15	53620	8.03	146.1	0.01	0.37	2.26	8.751
Week 7	17-06-2024	11:23:35	16.676	91.1	7.15	53619	8.03	146.1	0.02	0.37	2.27	8.59
Week 7	17-06-2024	11:23:36	16.675	91.1	7.15	53617	8.03	146.1	0.03	0.38	2.28	8.427
Week 7	17-06-2024	11:23:37	16.672	91.1	7.15	53614	8.03	146.1	0.03	0.36	2.23	8.298
Week 7	17-06-2024	11:23:38	16.669	91.1	7.15	53611	8.03	146.1	0.03	0.37	2.24	8.223
Week 7	17-06-2024	11:23:39	16.666	91.1	7.15	53606	8.03	146.1	0.03	0.37	2.26	8.177
Week 7	17-06-2024	11:23:40	16.662	91.1	7.15	53602	8.03	146.1	0.02	0.36	2.23	8.114
Week 7	17-06-2024	11:23:41	16.658	91.1	7.16	53597	8.03	146.1	0.02	0.37	2.26	8.042
Week 7	17-06-2024	11:23:42	16.653	91.1	7.16	53591	8.03	146.1	0.02	0.37	2.26	6.99
Week 7	17-06-2024	11:23:43	16.648	91.1	7.16	53585	8.03	146.1	0.02	0.38	2.3	7.065
Week 7	17-06-2024	11:23:44	16.641	91.1	7.16	53577	8.03	146.1	0.02	0.39	2.33	6.689
Week 7	17-06-2024	11:23:45	16.634	91.2	7.16	53568	8.03	146.1	0.03	0.42	2.44	6.628
Week 7	17-06-2024	11:23:46	16.625	91.2	7.17	53559	8.03	146.1	0.03	0.42	2.43	6.52
Week 7	17-06-2024	11:23:47	16.617	91.2	7.17	53548	8.03	146.1	0.04	0.43	2.47	6.437
Week 7	17-06-2024	11:23:48	16.608	91.2	7.17	53540	8.03	146.1	0.04	0.44	2.52	6.29
Week 7	17-06-2024	11:23:49	16.6	91.3	7.18	53533	8.03	146	0.04	0.44	2.53	6.178
Week 7	17-06-2024	11:23:50	16.593	91.3	7.18	53527	8.03	146	0.03	0.43	2.49	6.08
Week 7	17-06-2024	11:23:51	16.586	91.4	7.19	53521	8.03	146	0.02	0.42	2.44	6.001
Week 7	17-06-2024	11:23:52	16.58	91.4	7.2	53514	8.03	146	0.03	0.42	2.45	5.921
Week 7	17-06-2024	11:23:53	16.573	91.5	7.2	53507	8.03	146	0.03	0.41	2.4	4.928
Week 7	17-06-2024	11:23:54	16.568	91.6	7.21	53499	8.03	146	0.03	0.4	2.36	4.779
Week 7	17-06-2024	11:23:55	16.562	91.6	7.21	53493	8.03	146	0.03	0.38	2.3	4.695
Week 7	17-06-2024	11:23:56	16.557	91.7	7.22	53486	8.03	146	0.02	0.36	2.22	4.522
Week 7	17-06-2024	11:23:57	16.553	91.8	7.23	53481	8.03	146	0.03	0.35	2.19	4.43
Week 7	17-06-2024	11:23:58	16.55	91.8	7.23	53475	8.04	146	0.03	0.36	2.22	4.391
Week 7	17-06-2024	11:23:59	16.547	91.9	7.24	53470	8.04	146	0.02	0.35	2.2	4.335
Week 7	17-06-2024	11:24:00	16.545	92	7.24	53464	8.04	146	0.02	0.34	2.14	4.253
Week 7	17-06-2024	11:24:01	16.542	92	7.25	53459	8.04	146	0.01	0.34	2.14	4.143
Week 7	17-06-2024	11:24:02	16.54	92.1	7.25	53452	8.04	146	0.02	0.33	2.11	4.079
Week 7	17-06-2024	11:24:03	16.538	92.1	7.26	53446	8.04	145.9	0.02	0.33	2.1	4.045
Week 7	17-06-2024	11:24:04	16.537	92.2	7.26	53440	8.04	145.9	0.02	0.33	2.12	4.02
Week 7	17-06-2024	11:24:05	16.535	92.2	7.27	53435	8.04	145.9	0.02	0.33	2.13	4.007
Week 7	17-06-2024	11:24:06	16.534	92.3	7.27	53431	8.04	145.9	0.02	0.33	2.12	4.002
Week 7	17-06-2024	11:24:07	16.533	92.3	7.28	53428	8.04	145.9	0.02	0.33	2.12	4.009
Week 7	17-06-2024	11:24:08	16.533	92.4	7.28	53425	8.04	145.9	0.02	0.34	2.15	4.014
Week 7	17-06-2024	11:24:09	16.532	92.4	7.28	53423	8.04	145.9	0.02	0.32	2.09	4.034
Week 7	17-06-2024	11:24:10	16.532	92.5	7.29	53422	8.04	145.9	0.02	0.33	2.11	4.054
Week 7	17-06-2024	11:24:11	16.532	92.5	7.29	53421	8.04	145.9	0.02	0.34	2.14	4.067
Week 7	17-06-2024	11:24:12	16.532	92.5	7.29	53421	8.04	145.9	0.02	0.34	2.15	4.072
Week 7	17-06-2024	11:24:13	16.532	92.6	7.29	53421	8.04	145.9	0.01	0.34	2.15	4.071
Week 7	17-06-2024	11:24:14	16.532	92.6	7.3	53421	8.04	145.9	0.01	0.35	2.17	4.07
Week 7	17-06-2024	11:24:15	16.532	92.6	7.3	53420	8.04	145.9	0.01	0.34	2.14	4.065
Week 7	17-06-2024	11:24:16	16.532	92.7	7.3	53420	8.04	145.9	0.01	0.34	2.15	4.051
Week 7	17-06-2024	11:24:17	16.532	92.7	7.3	53419	8.04	145.9	0	0.35	2.19	3.269
Week 7	17-06-2024	11:24:18	16.532	92.7	7.31	53418	8.04	145.9	0	0.35	2.18	3.091
Week 7	17-06-2024	11:24:19	16.532	92.7	7.31	53416	8.04	145.9	0	0.33	2.11	3.039
Week 7	17-06-2024	11:24:20	16.532	92.8	7.31	53413	8.04	145.9	0	0.33	2.11	2.515
Week 7	17-06-2024	11:24:21	16.532	92.8	7.31	53409	8.04	145.9	-0.01	0.32	2.07	2.396
Week 7	17-06-2024	11:24:22	16.532	92.8	7.31	53406	8.04	145.9	-0.01	0.32	2.08	2.331
Week 7	17-06-2024	11:24:23	16.532	92.8	7.32	53404	8.04	145.8	-0.01	0.32	2.08	2.244
Week 7	17-06-2024	11:24:24	16.533	92.9	7.32	53402	8.04	145.8	0	0.32	2.08	2.19
Week 7	17-06-2024	11:24:25	16.533	92.9	7.32	53399	8.04	145.8	0	0.31	2.05	2.125
Week 7	17-06-2024	11:24:26	16.533	92.9	7.32	53397	8.04	145.8	0	0.31	2.04	2.06
Week 7	17-06-2024	11:24:27	16.533	92.9	7.33	53396	8.04	145.8	0	0.31	2.03	1.972
Week 7	17-06-2024	11:24:28	16.533	93	7.33	53395	8.04	145.8	0	0.29	1.97	1.909
Week 7	17-06-2024	11:24:29	16.533	93	7.33	53393	8.04	145.8	-0.01	0.3	2.01	1.842
Week 7	17-06-2024	11:24:30	16.534	93	7.33	53393	8.04	145.8	-0.01	0.3	2.01	1.775
Week 7	17-06-2024	11:24:31	16.534	93	7.33	53394	8.04	145.8	-0.01	0.31	2.03	1.709
Week 7	17-06-2024	11:24:32	16.534	93.1	7.33	53395	8.04	145.8	-0.01	0.3	2.02	1.659

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 7	17-06-2024	11:24:33	16.534	93.1	7.34	53398	8.04	145.8	-0.01	0.29	1.96	0.909
Week 7	17-06-2024	11:24:34	16.534	93.1	7.34	53400	8.04	145.8	-0.01	0.28	1.93	0.884
Week 7	17-06-2024	11:24:35	16.534	93.1	7.34	53401	8.04	145.8	-0.01	0.3	2.01	0.7
Week 7	17-06-2024	11:24:36	16.534	93.1	7.34	53402	8.04	145.8	-0.01	0.3	2.01	0.712
Week 7	17-06-2024	11:24:37	16.534	93.2	7.34	53403	8.04	145.8	0	0.31	2.03	0.538
Week 7	17-06-2024	11:24:38	16.533	93.2	7.34	53404	8.04	145.8	0	0.3	2	0.409
Week 7	17-06-2024	11:24:39	16.533	93.2	7.35	53405	8.04	145.8	0	0.3	2.01	0.333
Week 7	17-06-2024	11:24:40	16.533	93.2	7.35	53406	8.04	145.8	0.15	0.29	1.98	0.29
Week 8	24-06-2024	11:08:24	16.045	97.4	7.75	53283	8.07	132.8	0.05	0.28	1.92	1.047
Week 8	24-06-2024	11:08:25	16.047	97.7	7.78	53285	8.07	132.8	0.06	0.27	1.88	1.057
Week 8	24-06-2024	11:08:26	16.048	97.9	7.79	53289	8.07	132.8	0.06	0.25	1.84	1.071
Week 8	24-06-2024	11:08:27	16.05	98	7.8	53291	8.07	132.8	0.06	0.24	1.79	1.093
Week 8	24-06-2024	11:08:28	16.051	98.1	7.81	53293	8.07	132.8	0.05	0.24	1.78	1.117
Week 8	24-06-2024	11:08:29	16.051	98.1	7.81	53295	8.07	132.7	0.05	0.23	1.75	1.162
Week 8	24-06-2024	11:08:30	16.052	98.1	7.81	53297	8.07	132.7	0.05	0.22	1.71	1.205
Week 8	24-06-2024	11:08:31	16.053	98.2	7.81	53298	8.07	132.7	0.06	0.21	1.66	1.239
Week 8	24-06-2024	11:08:32	16.053	98.2	7.81	53299	8.07	132.7	0.06	0.2	1.65	1.281
Week 8	24-06-2024	11:08:33	16.054	98.2	7.82	53300	8.07	132.7	0.05	0.2	1.65	1.316
Week 8	24-06-2024	11:08:34	16.055	98.3	7.82	53302	8.07	132.7	0.05	0.19	1.6	1.355
Week 8	24-06-2024	11:08:35	16.056	98.4	7.83	53305	8.07	132.7	0.04	0.18	1.57	1.398
Week 8	24-06-2024	11:08:36	16.057	98.5	7.84	53307	8.07	132.7	0.03	0.18	1.55	1.438
Week 8	24-06-2024	11:08:37	16.058	98.4	7.83	53309	8.07	132.7	0.04	0.18	1.58	1.479
Week 8	24-06-2024	11:08:38	16.059	98.4	7.83	53311	8.07	132.7	0.04	0.2	1.62	1.508
Week 8	24-06-2024	11:08:39	16.059	98.4	7.83	53312	8.07	132.7	0.06	0.18	1.57	1.537
Week 8	24-06-2024	11:08:40	16.06	98.3	7.82	53313	8.07	132.7	0.06	0.18	1.59	1.57
Week 8	24-06-2024	11:08:41	16.06	98.3	7.82	53314	8.07	132.7	0.05	0.2	1.63	2.31
Week 8	24-06-2024	11:08:42	16.061	98.3	7.82	53316	8.07	132.7	0.05	0.21	1.68	2.375
Week 8	24-06-2024	11:08:43	16.061	98.2	7.82	53317	8.07	132.7	0.06	0.22	1.7	2.396
Week 8	24-06-2024	11:08:44	16.061	98.2	7.82	53319	8.07	132.7	0.05	0.2	1.65	2.474
Week 8	24-06-2024	11:08:45	16.061	98.2	7.81	53320	8.07	132.7	0.04	0.21	1.68	2.563
Week 8	24-06-2024	11:08:46	16.061	98.2	7.81	53321	8.07	132.7	0.04	0.21	1.67	2.628
Week 8	24-06-2024	11:08:47	16.061	98.1	7.81	53322	8.07	132.7	0.05	0.22	1.71	2.658
Week 8	24-06-2024	11:08:48	16.062	98.1	7.81	53323	8.07	132.6	0.05	0.22	1.7	2.666
Week 8	24-06-2024	11:08:49	16.062	98.1	7.8	53324	8.07	132.6	0.05	0.22	1.71	2.678
Week 8	24-06-2024	11:08:50	16.062	98.1	7.8	53325	8.07	132.6	0.05	0.24	1.77	2.702
Week 8	24-06-2024	11:08:51	16.062	98	7.8	53326	8.07	132.6	0.05	0.24	1.78	2.73
Week 8	24-06-2024	11:08:52	16.062	98	7.8	53326	8.07	132.6	0.05	0.24	1.79	2.766
Week 8	24-06-2024	11:08:53	16.062	98	7.8	53327	8.07	132.6	0.04	0.24	1.78	2.82
Week 8	24-06-2024	11:08:54	16.062	98	7.8	53327	8.06	132.6	0.04	0.25	1.82	2.888
Week 8	24-06-2024	11:08:55	16.062	98	7.79	53327	8.06	132.6	0.04	0.24	1.79	2.948
Week 8	24-06-2024	11:08:56	16.062	98	7.79	53327	8.06	132.6	0.04	0.25	1.82	3.642
Week 8	24-06-2024	11:08:57	16.063	97.9	7.79	53327	8.06	132.6	0.04	0.25	1.83	3.643
Week 8	24-06-2024	11:08:58	16.063	97.9	7.79	53327	8.06	132.6	0.05	0.25	1.82	3.755
Week 8	24-06-2024	11:08:59	16.063	97.9	7.79	53327	8.06	132.6	0.05	0.25	1.83	3.832
Week 8	24-06-2024	11:09:00	16.063	97.9	7.79	53327	8.06	132.6	0.06	0.24	1.78	3.868
Week 8	24-06-2024	11:09:01	16.064	97.9	7.79	53327	8.06	132.6	0.06	0.22	1.71	3.922
Week 8	24-06-2024	11:09:02	16.064	97.9	7.79	53327	8.06	132.6	0.06	0.23	1.73	3.971
Week 8	24-06-2024	11:09:03	16.064	97.8	7.78	53327	8.06	132.6	0.06	0.22	1.73	4.043
Week 8	24-06-2024	11:09:04	16.064	97.8	7.78	53328	8.06	132.6	0.06	0.22	1.72	4.13
Week 8	24-06-2024	11:09:05	16.065	97.8	7.78	53329	8.06	132.6	0.05	0.2	1.64	4.201
Week 8	24-06-2024	11:09:06	16.065	97.8	7.78	53329	8.06	132.6	0.04	0.23	1.75	4.249
Week 8	24-06-2024	11:09:07	16.065	97.8	7.78	53329	8.06	132.6	0.04	0.22	1.71	4.278
Week 8	24-06-2024	11:09:08	16.066	97.8	7.78	53330	8.06	132.6	0.04	0.23	1.75	4.297
Week 8	24-06-2024	11:09:09	16.066	97.8	7.78	53330	8.06	132.6	0.03	0.23	1.76	4.309
Week 8	24-06-2024	11:09:10	16.066	97.8	7.78	53331	8.06	132.5	0.04	0.23	1.75	4.334
Week 8	24-06-2024	11:09:11	16.067	97.7	7.78	53331	8.06	132.5	0.03	0.25	1.82	4.377
Week 8	24-06-2024	11:09:12	16.067	97.7	7.78	53331	8.06	132.5	0.03	0.27	1.91	4.417
Week 8	24-06-2024	11:09:13	16.067	97.7	7.77	53331	8.06	132.5	0.03	0.26	1.85	4.455
Week 8	24-06-2024	11:09:14	16.067	97.7	7.77	53331	8.06	132.5	0.03	0.25	1.83	4.494
Week 8	24-06-2024	11:09:15	16.068	97.7	7.77	53332	8.06	132.5	0.02	0.25	1.82	5.302
Week 8	24-06-2024	11:09:16	16.068	97.7	7.77	53331	8.06	132.5	0.02	0.24	1.8	5.327
Week 8	24-06-2024	11:09:17	16.068	97.7	7.77	53331	8.06	132.5	0.03	0.23	1.77	5.209
Week 8	24-06-2024	11:09:18	16.068	97.7	7.77	53332	8.06	132.5	0.03	0.24	1.79	5.284
Week 8	24-06-2024	11:09:19	16.069	97.7	7.77	53333	8.06	132.5	0.03	0.23	1.74	5.324
Week 8	24-06-2024	11:09:20	16.07	97.7	7.77	53333	8.06	132.5	0.03	0.23	1.75	5.441
Week 8	24-06-2024	11:09:21	16.071	97.7	7.77	53334	8.06	132.5	0.04	0.23	1.74	5.512
Week 8	24-06-2024	11:09:22	16.071	97.7	7.77	53335	8.06	132.5	0.04	0.22	1.73	5.571
Week 8	24-06-2024	11:09:23	16.072	97.6	7.77	53335	8.06	132.5	0.04	0.23	1.74	5.616

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 8	24-06-2024	11:09:24	16.073	97.6	7.77	53337	8.06	132.5	0.04	0.23	1.76	5.666
Week 8	24-06-2024	11:09:25	16.074	97.6	7.77	53337	8.06	132.5	0.04	0.23	1.76	5.716
Week 8	24-06-2024	11:09:26	16.075	97.6	7.77	53338	8.06	132.5	0.04	0.24	1.78	5.763
Week 8	24-06-2024	11:09:27	16.076	97.6	7.76	53340	8.06	132.5	0.03	0.25	1.83	5.813
Week 8	24-06-2024	11:09:28	16.077	97.6	7.76	53341	8.06	132.5	0.03	0.25	1.83	5.861
Week 8	24-06-2024	11:09:29	16.079	97.6	7.76	53343	8.06	132.5	0.03	0.25	1.82	5.89
Week 8	24-06-2024	11:09:30	16.079	97.6	7.76	53344	8.06	132.5	0.03	0.26	1.87	5.908
Week 8	24-06-2024	11:09:31	16.08	97.6	7.76	53345	8.06	132.5	0.03	0.26	1.86	5.926
Week 8	24-06-2024	11:09:32	16.081	97.6	7.76	53345	8.06	132.5	0.03	0.26	1.87	5.954
Week 8	24-06-2024	11:09:33	16.082	97.6	7.76	53347	8.06	132.5	0.03	0.25	1.82	6.897
Week 8	24-06-2024	11:09:34	16.083	97.6	7.76	53348	8.06	132.5	0.03	0.23	1.76	7.034
Week 8	24-06-2024	11:09:35	16.084	97.6	7.76	53349	8.06	132.5	0.03	0.24	1.78	6.796
Week 8	24-06-2024	11:09:36	16.085	97.6	7.76	53351	8.06	132.5	0.02	0.24	1.77	6.703
Week 8	24-06-2024	11:09:37	16.087	97.6	7.76	53353	8.06	132.5	0.02	0.24	1.78	6.748
Week 8	24-06-2024	11:09:38	16.088	97.6	7.76	53354	8.06	132.5	0.03	0.24	1.8	6.827
Week 8	24-06-2024	11:09:39	16.089	97.6	7.76	53355	8.06	132.5	0.03	0.24	1.78	6.961
Week 8	24-06-2024	11:09:40	16.09	97.6	7.76	53356	8.06	132.5	0.03	0.24	1.8	7.079
Week 8	24-06-2024	11:09:41	16.091	97.6	7.76	53357	8.06	132.5	0.03	0.24	1.79	7.169
Week 8	24-06-2024	11:09:42	16.093	97.5	7.76	53358	8.06	132.5	0.04	0.25	1.81	7.228
Week 8	24-06-2024	11:09:43	16.094	97.5	7.76	53359	8.06	132.5	0.05	0.24	1.79	7.28
Week 8	24-06-2024	11:09:44	16.095	97.5	7.75	53360	8.06	132.5	0.05	0.25	1.83	7.312
Week 8	24-06-2024	11:09:45	16.096	97.5	7.75	53360	8.06	132.5	0.04	0.27	1.91	7.343
Week 8	24-06-2024	11:09:46	16.097	97.5	7.75	53360	8.06	132.5	0.04	0.27	1.91	7.368
Week 8	24-06-2024	11:09:47	16.097	97.5	7.75	53360	8.06	132.5	0.03	0.27	1.9	7.39
Week 8	24-06-2024	11:09:48	16.097	97.5	7.75	53360	8.06	132.5	0.03	0.27	1.88	7.423
Week 8	24-06-2024	11:09:49	16.097	97.5	7.75	53360	8.06	132.5	0.02	0.26	1.85	7.464
Week 8	24-06-2024	11:09:50	16.098	97.5	7.75	53360	8.06	132.5	0.03	0.27	1.9	8.228
Week 8	24-06-2024	11:09:51	16.098	97.5	7.75	53359	8.06	132.5	0.03	0.28	1.92	8.216
Week 8	24-06-2024	11:09:52	16.098	97.5	7.75	53359	8.06	132.5	0.03	0.27	1.89	8.224
Week 8	24-06-2024	11:09:53	16.098	97.5	7.75	53360	8.06	132.5	0.03	0.26	1.86	8.189
Week 8	24-06-2024	11:09:54	16.098	97.5	7.75	53360	8.06	132.5	0.03	0.26	1.85	8.206
Week 8	24-06-2024	11:09:55	16.098	97.4	7.75	53360	8.06	132.5	0.03	0.25	1.83	8.226
Week 8	24-06-2024	11:09:56	16.098	97.4	7.75	53360	8.06	132.5	0.04	0.24	1.8	8.27
Week 8	24-06-2024	11:09:57	16.099	97.4	7.75	53360	8.06	132.5	0.04	0.24	1.77	8.321
Week 8	24-06-2024	11:09:58	16.1	97.4	7.75	53361	8.06	132.5	0.03	0.23	1.76	8.358
Week 8	24-06-2024	11:09:59	16.101	97.4	7.75	53361	8.06	132.5	0.04	0.24	1.77	8.403
Week 8	24-06-2024	11:10:00	16.103	97.4	7.75	53362	8.06	132.5	0.04	0.24	1.8	8.435
Week 8	24-06-2024	11:10:01	16.105	97.4	7.75	53364	8.06	132.5	0.04	0.24	1.8	8.475
Week 8	24-06-2024	11:10:02	16.107	97.4	7.75	53365	8.06	132.5	0.04	0.23	1.75	8.528
Week 8	24-06-2024	11:10:03	16.109	97.4	7.74	53366	8.06	132.5	0.04	0.21	1.68	8.589
Week 8	24-06-2024	11:10:04	16.111	97.4	7.74	53368	8.06	132.5	0.04	0.21	1.68	8.632
Week 8	24-06-2024	11:10:05	16.114	97.4	7.74	53370	8.06	132.5	0.04	0.22	1.71	8.675
Week 8	24-06-2024	11:10:06	16.116	97.4	7.74	53371	8.06	132.5	0.04	0.22	1.71	8.721
Week 8	24-06-2024	11:10:07	16.118	97.4	7.74	53372	8.06	132.5	0.03	0.21	1.69	9.224
Week 8	24-06-2024	11:10:08	16.12	97.4	7.74	53374	8.06	132.5	0.03	0.21	1.67	9.237
Week 8	24-06-2024	11:10:09	16.122	97.4	7.74	53376	8.06	132.5	0.03	0.22	1.7	9.446
Week 8	24-06-2024	11:10:10	16.124	97.4	7.74	53377	8.06	132.5	0.04	0.23	1.74	9.427
Week 8	24-06-2024	11:10:11	16.126	97.4	7.74	53378	8.06	132.5	0.04	0.22	1.72	9.46
Week 8	24-06-2024	11:10:12	16.127	97.4	7.74	53379	8.06	132.5	0.03	0.22	1.71	9.528
Week 8	24-06-2024	11:10:13	16.128	97.4	7.74	53381	8.06	132.5	0.03	0.22	1.72	9.6
Week 8	24-06-2024	11:10:14	16.129	97.4	7.74	53381	8.06	132.5	0.03	0.23	1.77	9.675
Week 8	24-06-2024	11:10:15	16.13	97.4	7.74	53382	8.06	132.5	0.03	0.24	1.79	9.769
Week 8	24-06-2024	11:10:16	16.131	97.4	7.74	53383	8.06	132.5	0.02	0.24	1.79	9.848
Week 8	24-06-2024	11:10:17	16.132	97.4	7.74	53383	8.06	132.5	0.02	0.25	1.81	9.897
Week 8	24-06-2024	11:10:18	16.133	97.4	7.73	53384	8.06	132.5	0.02	0.25	1.84	9.936
Week 8	24-06-2024	11:10:19	16.134	97.4	7.73	53385	8.06	132.5	0.03	0.26	1.86	9.966
Week 8	24-06-2024	11:10:20	16.135	97.3	7.73	53386	8.06	132.5	0.03	0.25	1.82	9.996
Week 8	24-06-2024	11:10:21	16.136	97.3	7.73	53386	8.06	132.5	0.02	0.23	1.76	10.016
Week 8	24-06-2024	11:10:22	16.136	97.3	7.73	53387	8.06	132.5	0.03	0.24	1.77	10.036
Week 8	24-06-2024	11:10:23	16.137	97.3	7.73	53387	8.06	132.5	0.03	0.23	1.75	10.884
Week 8	24-06-2024	11:10:24	16.138	97.3	7.73	53388	8.06	132.5	0.03	0.24	1.77	11.162
Week 8	24-06-2024	11:10:25	16.14	97.3	7.73	53388	8.06	132.5	0.03	0.24	1.8	11.2
Week 8	24-06-2024	11:10:26	16.142	97.3	7.73	53389	8.06	132.5	0.03	0.25	1.84	11.099
Week 8	24-06-2024	11:10:27	16.144	97.3	7.73	53390	8.06	132.5	0.03	0.26	1.84	11.078
Week 8	24-06-2024	11:10:28	16.146	97.3	7.73	53392	8.06	132.5	0.02	0.26	1.84	11.082
Week 8	24-06-2024	11:10:29	16.147	97.3	7.73	53393	8.06	132.5	0.02	0.25	1.83	11.091
Week 8	24-06-2024	11:10:30	16.149	97.3	7.72	53394	8.06	132.5	0.02	0.25	1.83	11.129
Week 8	24-06-2024	11:10:31	16.151	97.3	7.72	53395	8.06	132.5	0.03	0.25	1.81	11.199

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 8	24-06-2024	11:10:32	16.156	97.3	7.72	53396	8.06	132.5	0.03	0.26	1.85	11.263
Week 8	24-06-2024	11:10:33	16.16	97.3	7.72	53398	8.06	132.5	0.02	0.26	1.86	11.325
Week 8	24-06-2024	11:10:34	16.168	97.3	7.72	53400	8.06	132.5	0.02	0.26	1.86	11.377
Week 8	24-06-2024	11:10:35	16.177	97.3	7.72	53402	8.06	132.5	0.02	0.26	1.86	11.435
Week 8	24-06-2024	11:10:36	16.188	97.3	7.72	53407	8.06	132.5	0.02	0.26	1.85	12.347
Week 8	24-06-2024	11:10:37	16.198	97.3	7.72	53412	8.06	132.5	0.01	0.24	1.78	12.272
Week 8	24-06-2024	11:10:38	16.208	97.4	7.72	53418	8.06	132.5	0.02	0.23	1.75	12.149
Week 8	24-06-2024	11:10:39	16.216	97.4	7.72	53425	8.06	132.5	0.01	0.22	1.72	12.115
Week 8	24-06-2024	11:10:40	16.226	97.4	7.72	53430	8.06	132.5	0.01	0.23	1.74	12.101
Week 8	24-06-2024	11:10:41	16.235	97.4	7.72	53436	8.06	132.5	0	0.24	1.77	12.127
Week 8	24-06-2024	11:10:42	16.245	97.4	7.72	53441	8.06	132.6	0	0.26	1.86	12.192
Week 8	24-06-2024	11:10:43	16.255	97.4	7.72	53448	8.06	132.6	0	0.25	1.83	12.252
Week 8	24-06-2024	11:10:44	16.265	97.4	7.71	53455	8.06	132.6	0	0.25	1.81	12.307
Week 8	24-06-2024	11:10:45	16.273	97.4	7.71	53462	8.06	132.6	0	0.25	1.83	12.337
Week 8	24-06-2024	11:10:46	16.281	97.3	7.71	53468	8.06	132.6	0.01	0.26	1.87	12.345
Week 8	24-06-2024	11:10:47	16.285	97.3	7.71	53475	8.06	132.6	0	0.25	1.84	12.367
Week 8	24-06-2024	11:10:48	16.29	97.3	7.7	53481	8.06	132.6	0.01	0.26	1.84	12.403
Week 8	24-06-2024	11:10:49	16.296	97.3	7.7	53484	8.06	132.6	0.01	0.27	1.9	12.458
Week 8	24-06-2024	11:10:50	16.301	97.3	7.7	53487	8.06	132.6	0	0.27	1.88	12.515
Week 8	24-06-2024	11:10:51	16.307	97.3	7.7	53491	8.06	132.6	0.01	0.26	1.86	12.562
Week 8	24-06-2024	11:10:52	16.315	97.2	7.69	53494	8.06	132.6	0.01	0.26	1.86	12.607
Week 8	24-06-2024	11:10:53	16.322	97.2	7.69	53498	8.06	132.6	0.01	0.25	1.83	12.65
Week 8	24-06-2024	11:10:54	16.329	97.2	7.69	53500	8.06	132.6	0.01	0.26	1.87	12.69
Week 8	24-06-2024	11:10:55	16.335	97.2	7.69	53505	8.06	132.6	0.01	0.26	1.87	12.718
Week 8	24-06-2024	11:10:56	16.341	97.2	7.69	53507	8.06	132.6	0.02	0.27	1.91	12.742
Week 8	24-06-2024	11:10:57	16.346	97.2	7.68	53510	8.06	132.6	0.01	0.27	1.88	12.767
Week 8	24-06-2024	11:10:58	16.352	97.2	7.68	53513	8.06	132.6	0.02	0.28	1.92	13.635
Week 8	24-06-2024	11:10:59	16.358	97.1	7.68	53516	8.06	132.6	0.02	0.27	1.88	14.004
Week 8	24-06-2024	11:11:00	16.364	97.1	7.68	53519	8.06	132.6	0.03	0.26	1.87	14.312
Week 8	24-06-2024	11:11:01	16.368	97.1	7.67	53522	8.06	132.6	0.03	0.28	1.93	14.366
Week 8	24-06-2024	11:11:02	16.37	97.1	7.67	53525	8.06	132.6	0.03	0.28	1.93	14.329
Week 8	24-06-2024	11:11:03	16.373	97.1	7.67	53527	8.06	132.6	0.03	0.27	1.89	14.182
Week 8	24-06-2024	11:11:04	16.374	97	7.67	53528	8.06	132.6	0.04	0.26	1.88	14.103
Week 8	24-06-2024	11:11:05	16.375	97	7.66	53529	8.06	132.6	0.04	0.25	1.84	14.07
Week 8	24-06-2024	11:11:06	16.376	97	7.66	53530	8.06	132.6	0.05	0.25	1.83	14.091
Week 8	24-06-2024	11:11:07	16.377	97	7.66	53531	8.06	132.6	0.06	0.25	1.81	14.145
Week 8	24-06-2024	11:11:08	16.378	96.9	7.66	53532	8.06	132.6	0.05	0.24	1.78	14.204
Week 8	24-06-2024	11:11:09	16.378	96.9	7.66	53533	8.06	132.6	0.05	0.23	1.75	15.067
Week 8	24-06-2024	11:11:10	16.378	96.9	7.65	53534	8.06	132.6	0.05	0.24	1.77	15.163
Week 8	24-06-2024	11:11:11	16.378	96.9	7.65	53535	8.06	132.6	0.05	0.23	1.76	15.138
Week 8	24-06-2024	11:11:12	16.378	96.8	7.65	53536	8.06	132.6	0.05	0.24	1.77	15.036
Week 8	24-06-2024	11:11:13	16.377	96.8	7.65	53537	8.06	132.6	0.04	0.23	1.76	15.008
Week 8	24-06-2024	11:11:14	16.377	96.8	7.65	53537	8.06	132.6	0.05	0.22	1.72	15.027
Week 8	24-06-2024	11:11:15	16.376	96.8	7.65	53537	8.06	132.6	0.04	0.21	1.69	15.061
Week 8	24-06-2024	11:11:16	16.376	96.8	7.65	53538	8.06	132.6	0.04	0.22	1.71	15.174
Week 8	24-06-2024	11:11:17	16.375	96.8	7.64	53539	8.06	132.6	0.04	0.22	1.71	15.271
Week 8	24-06-2024	11:11:18	16.375	96.7	7.64	53539	8.06	132.6	0.05	0.21	1.67	15.315
Week 8	24-06-2024	11:11:19	16.374	96.7	7.64	53540	8.06	132.6	0.04	0.21	1.66	15.339
Week 8	24-06-2024	11:11:20	16.373	96.7	7.64	53540	8.06	132.6	0.03	0.22	1.7	15.395
Week 8	24-06-2024	11:11:21	16.373	96.7	7.64	53540	8.06	132.6	0.02	0.23	1.74	15.452
Week 8	24-06-2024	11:11:22	16.372	96.7	7.64	53541	8.06	132.6	0.02	0.21	1.69	15.512
Week 8	24-06-2024	11:11:23	16.371	96.7	7.64	53541	8.06	132.6	0.02	0.21	1.68	15.562
Week 8	24-06-2024	11:11:24	16.371	96.6	7.64	53540	8.06	132.6	0.03	0.23	1.74	15.616
Week 8	24-06-2024	11:11:25	16.37	96.6	7.64	53540	8.06	132.6	0.03	0.23	1.76	15.657
Week 8	24-06-2024	11:11:26	16.37	96.6	7.63	53540	8.06	132.6	0.03	0.26	1.85	16.491
Week 8	24-06-2024	11:11:27	16.37	96.6	7.63	53540	8.06	132.6	0.03	0.25	1.82	16.695
Week 8	24-06-2024	11:11:28	16.369	96.6	7.63	53540	8.06	132.6	0.02	0.26	1.87	16.789
Week 8	24-06-2024	11:11:29	16.369	96.6	7.63	53540	8.06	132.6	0.02	0.27	1.89	16.866
Week 8	24-06-2024	11:11:30	16.368	96.6	7.63	53540	8.06	132.6	0.01	0.28	1.92	16.895
Week 8	24-06-2024	11:11:31	16.368	96.6	7.63	53540	8.06	132.6	0.01	0.27	1.88	16.844
Week 8	24-06-2024	11:11:32	16.367	96.6	7.63	53540	8.06	132.6	0.01	0.27	1.91	16.786
Week 8	24-06-2024	11:11:33	16.367	96.5	7.63	53541	8.06	132.6	0.01	0.29	1.98	16.781
Week 8	24-06-2024	11:11:34	16.367	96.5	7.63	53541	8.06	132.6	0.02	0.29	1.97	16.811
Week 8	24-06-2024	11:11:35	16.366	96.5	7.63	53541	8.06	132.6	0.02	0.28	1.95	16.856
Week 8	24-06-2024	11:11:36	16.366	96.5	7.63	53541	8.06	132.6	0.01	0.27	1.89	16.921
Week 8	24-06-2024	11:11:37	16.366	96.5	7.63	53541	8.06	132.6	0	0.26	1.86	16.976
Week 8	24-06-2024	11:11:38	16.366	96.5	7.63	53542	8.06	132.6	0	0.27	1.9	16.995
Week 8	24-06-2024	11:11:39	16.366	96.5	7.62	53542	8.06	132.6	0	0.27	1.9	17.009

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 8	24-06-2024	11:11:40	16.365	96.5	7.62	53542	8.06	132.6	0.01	0.27	1.9	17.023
Week 8	24-06-2024	11:11:41	16.365	96.5	7.62	53542	8.06	132.6	0.01	0.27	1.91	17.051
Week 8	24-06-2024	11:11:42	16.365	96.5	7.62	53541	8.06	132.6	0.01	0.28	1.92	17.085
Week 8	24-06-2024	11:11:43	16.365	96.5	7.62	53541	8.06	132.6	0.02	0.28	1.93	17.114
Week 8	24-06-2024	11:11:44	16.365	96.5	7.62	53541	8.06	132.7	0.03	0.27	1.9	17.134
Week 8	24-06-2024	11:11:45	16.365	96.4	7.62	53542	8.06	132.7	0.02	0.26	1.85	17.165
Week 8	24-06-2024	11:11:46	16.365	96.4	7.62	53542	8.06	132.7	0.02	0.25	1.83	18.042
Week 8	24-06-2024	11:11:47	16.364	96.4	7.62	53543	8.06	132.7	0.02	0.26	1.85	18.225
Week 8	24-06-2024	11:11:48	16.364	96.4	7.62	53543	8.06	132.7	0.01	0.25	1.83	17.99
Week 8	24-06-2024	11:11:49	16.364	96.4	7.62	53543	8.06	132.7	0.01	0.24	1.79	17.97
Week 8	24-06-2024	11:11:50	16.363	96.4	7.62	53543	8.06	132.7	0.01	0.23	1.76	17.946
Week 8	24-06-2024	11:11:51	16.363	96.4	7.62	53543	8.06	132.7	0.01	0.23	1.75	17.873
Week 8	24-06-2024	11:11:52	16.363	96.4	7.62	53543	8.06	132.7	0.02	0.23	1.76	17.876
Week 8	24-06-2024	11:11:53	16.362	96.4	7.62	53543	8.06	132.7	0.02	0.22	1.71	17.929
Week 8	24-06-2024	11:11:54	16.362	96.4	7.62	53543	8.06	132.7	0.02	0.21	1.66	18.026
Week 8	24-06-2024	11:11:55	16.362	96.4	7.62	53543	8.06	132.7	0	0.22	1.7	18.054
Week 8	24-06-2024	11:11:56	16.361	96.4	7.62	53542	8.06	132.7	0.01	0.23	1.74	18.068
Week 8	24-06-2024	11:11:57	16.361	96.4	7.61	53542	8.06	132.7	0.01	0.23	1.75	18.097
Week 8	24-06-2024	11:11:58	16.36	96.3	7.61	53542	8.06	132.7	0.01	0.25	1.81	18.133
Week 8	24-06-2024	11:11:59	16.359	96.3	7.61	53542	8.06	132.7	0	0.24	1.78	19.031
Week 8	24-06-2024	11:12:00	16.358	96.3	7.61	53542	8.06	132.7	0.01	0.24	1.79	19.041
Week 8	24-06-2024	11:12:01	16.357	96.3	7.61	53542	8.06	132.7	0.01	0.24	1.78	18.929
Week 8	24-06-2024	11:12:02	16.356	96.3	7.61	53542	8.06	132.7	0.01	0.23	1.76	18.844
Week 8	24-06-2024	11:12:03	16.354	96.3	7.61	53543	8.06	132.7	0.01	0.23	1.75	18.793
Week 8	24-06-2024	11:12:04	16.353	96.3	7.61	53543	8.06	132.7	0	0.25	1.81	18.788
Week 8	24-06-2024	11:12:05	16.352	96.2	7.61	53543	8.06	132.7	0.01	0.25	1.81	18.816
Week 8	24-06-2024	11:12:06	16.351	96.2	7.61	53543	8.06	132.7	0.02	0.24	1.79	18.911
Week 8	24-06-2024	11:12:07	16.35	96.2	7.6	53544	8.06	132.7	0.01	0.23	1.77	19.875
Week 8	24-06-2024	11:12:08	16.348	96.2	7.6	53544	8.06	132.7	0.02	0.22	1.73	20.016
Week 8	24-06-2024	11:12:09	16.347	96.2	7.6	53545	8.06	132.7	0.02	0.22	1.71	19.898
Week 8	24-06-2024	11:12:10	16.346	96.1	7.6	53546	8.06	132.7	0.03	0.24	1.77	19.786
Week 8	24-06-2024	11:12:11	16.345	96.1	7.6	53546	8.06	132.7	0.02	0.24	1.78	19.854
Week 8	24-06-2024	11:12:12	16.345	96.1	7.6	53547	8.06	132.7	0.02	0.24	1.78	19.921
Week 8	24-06-2024	11:12:13	16.345	96.1	7.59	53546	8.06	132.7	0.03	0.24	1.78	19.94
Week 8	24-06-2024	11:12:14	16.344	96	7.59	53546	8.06	132.7	0.03	0.23	1.76	19.932
Week 8	24-06-2024	11:12:15	16.344	96	7.59	53546	8.05	132.7	0.03	0.21	1.68	19.952
Week 8	24-06-2024	11:12:16	16.344	96	7.59	53546	8.05	132.7	0.03	0.19	1.61	20.94
Week 8	24-06-2024	11:12:17	16.344	96	7.59	53547	8.05	132.7	0.03	0.18	1.58	21.094
Week 8	24-06-2024	11:12:18	16.344	95.9	7.58	53547	8.05	132.7	0.03	0.19	1.59	21.029
Week 8	24-06-2024	11:12:19	16.344	95.9	7.58	53548	8.05	132.7	0.03	0.21	1.66	20.757
Week 8	24-06-2024	11:12:20	16.344	95.9	7.58	53548	8.05	132.7	0.04	0.21	1.67	20.742
Week 8	24-06-2024	11:12:21	16.344	95.9	7.58	53548	8.05	132.7	0.05	0.18	1.59	20.79
Week 8	24-06-2024	11:12:22	16.344	95.8	7.58	53548	8.05	132.7	0.05	0.17	1.54	20.888
Week 8	24-06-2024	11:12:23	16.344	95.8	7.57	53548	8.05	132.7	0.05	0.17	1.54	20.938
Week 8	24-06-2024	11:12:24	16.344	95.8	7.57	53548	8.05	132.7	0.05	0.18	1.56	20.986
Week 8	24-06-2024	11:12:25	16.344	95.8	7.57	53548	8.05	132.8	0.05	0.17	1.54	21.059
Week 8	24-06-2024	11:12:26	16.344	95.7	7.57	53548	8.05	132.8	0.06	0.17	1.54	21.12
Week 8	24-06-2024	11:12:27	16.345	95.7	7.57	53549	8.05	132.8	0.06	0.18	1.58	21.188
Week 8	24-06-2024	11:12:28	16.345	95.7	7.56	53549	8.05	132.8	0.05	0.19	1.6	21.996
Week 8	24-06-2024	11:12:29	16.345	95.7	7.56	53549	8.05	132.8	0.05	0.18	1.58	22.074
Week 8	24-06-2024	11:12:30	16.345	95.7	7.56	53550	8.05	132.8	0.05	0.16	1.51	22.091
Week 8	24-06-2024	11:12:31	16.345	95.6	7.56	53550	8.05	132.8	0.06	0.16	1.49	22.115
Week 8	24-06-2024	11:12:32	16.345	95.6	7.56	53550	8.05	132.8	0.06	0.17	1.54	22.037
Week 8	24-06-2024	11:12:33	16.345	95.6	7.56	53550	8.05	132.8	0.06	0.18	1.56	22.019
Week 8	24-06-2024	11:12:34	16.345	95.6	7.56	53551	8.05	132.8	0.06	0.18	1.57	22.927
Week 8	24-06-2024	11:12:35	16.346	95.6	7.55	53551	8.05	132.8	0.06	0.19	1.61	23.183
Week 8	24-06-2024	11:12:36	16.346	95.5	7.55	53551	8.05	132.8	0.06	0.19	1.6	23.087
Week 8	24-06-2024	11:12:37	16.346	95.5	7.55	53551	8.05	132.8	0.06	0.2	1.63	22.839
Week 8	24-06-2024	11:12:38	16.346	95.5	7.55	53551	8.05	132.8	0.06	0.19	1.61	22.789
Week 8	24-06-2024	11:12:39	16.346	95.5	7.55	53551	8.05	132.8	0.08	0.18	1.58	22.775
Week 8	24-06-2024	11:12:40	16.346	95.5	7.55	53552	8.05	132.8	0.07	0.18	1.57	22.863
Week 8	24-06-2024	11:12:41	16.346	95.4	7.54	53552	8.05	132.8	0.08	0.19	1.6	23.876
Week 8	24-06-2024	11:12:42	16.347	95.4	7.54	53552	8.05	132.8	0.07	0.19	1.6	24.101
Week 8	24-06-2024	11:12:43	16.347	95.4	7.54	53553	8.05	132.8	0.07	0.18	1.58	23.975
Week 8	24-06-2024	11:12:44	16.347	95.4	7.54	53553	8.05	132.8	0.07	0.18	1.55	23.962
Week 8	24-06-2024	11:12:45	16.347	95.4	7.54	53554	8.05	132.8	0.08	0.17	1.55	23.879
Week 8	24-06-2024	11:12:46	16.347	95.4	7.54	53553	8.05	132.8	0.08	0.15	1.45	23.876
Week 8	24-06-2024	11:12:47	16.347	95.3	7.54	53553	8.05	132.8	0.09	0.16	1.48	23.938

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 8	24-06-2024	11:12:48	16.347	95.3	7.53	53554	8.05	132.8	0.08	0.16	1.51	24.023
Week 8	24-06-2024	11:12:49	16.347	95.3	7.53	53554	8.05	132.8	0.08	0.16	1.51	24.116
Week 8	24-06-2024	11:12:50	16.347	95.3	7.53	53554	8.05	132.8	0.08	0.16	1.51	24.214
Week 8	24-06-2024	11:12:51	16.347	95.3	7.53	53555	8.05	132.8	0.11	0.18	1.59	24.288
Week 8	24-06-2024	11:12:52	16.347	95.3	7.53	53555	8.05	132.8	0.11	0.18	1.59	24.352
Week 8	24-06-2024	11:12:53	16.347	95.3	7.53	53555	8.05	132.8	0.1	0.18	1.59	24.408
Week 8	24-06-2024	11:12:54	16.347	95.2	7.53	53555	8.05	132.8	0.09	0.19	1.59	25.236
Week 8	24-06-2024	11:12:55	16.347	95.2	7.53	53555	8.05	132.8	0.07	0.19	1.61	25.489
Week 8	24-06-2024	11:12:56	16.347	95.2	7.53	53555	8.05	132.8	0.07	0.19	1.61	25.244
Week 8	24-06-2024	11:12:57	16.348	95.2	7.53	53555	8.05	132.8	0.08	0.2	1.65	25.223
Week 8	24-06-2024	11:12:58	16.348	95.2	7.53	53555	8.05	132.8	0.08	0.21	1.69	25.256
Week 8	24-06-2024	11:12:59	16.348	95.2	7.52	53555	8.05	132.8	0.08	0.21	1.69	25.336
Week 8	24-06-2024	11:13:00	16.348	95.2	7.52	53555	8.05	132.8	0.08	0.21	1.68	25.443
Week 8	24-06-2024	11:13:01	16.348	95.2	7.52	53555	8.05	132.8	0.09	0.21	1.68	26.189
Week 8	24-06-2024	11:13:02	16.348	95.2	7.52	53556	8.05	132.8	0.08	0.19	1.6	26.137
Week 8	24-06-2024	11:13:03	16.348	95.2	7.52	53556	8.05	132.8	0.1	0.2	1.63	25.881
Week 8	24-06-2024	11:13:04	16.348	95.1	7.52	53556	8.05	132.9	0.1	0.19	1.61	25.721
Week 8	24-06-2024	11:13:05	16.348	95.1	7.52	53556	8.05	132.9	0.11	0.19	1.61	25.733
Week 8	24-06-2024	11:13:06	16.349	95.1	7.52	53556	8.05	132.9	0.1	0.19	1.61	25.882
Week 8	24-06-2024	11:13:07	16.349	95.1	7.52	53556	8.05	132.9	0.11	0.18	1.59	26.104
Week 8	24-06-2024	11:13:08	16.349	95.1	7.52	53556	8.05	132.9	0.12	0.18	1.57	26.284
Week 8	24-06-2024	11:13:09	16.349	95.1	7.52	53557	8.05	132.9	0.14	0.16	1.51	26.392
Week 8	24-06-2024	11:13:10	16.349	95.1	7.51	53557	8.05	132.9	0.14	0.15	1.47	26.481
Week 8	24-06-2024	11:13:11	16.35	95.1	7.51	53557	8.05	132.9	0.15	0.15	1.45	26.546
Week 8	24-06-2024	11:13:12	16.35	95	7.51	53557	8.05	132.9	0.16	0.15	1.45	26.607
Week 8	24-06-2024	11:13:13	16.35	95	7.51	53557	8.05	132.9	0.17	0.15	1.44	26.673
Week 8	24-06-2024	11:13:14	16.35	95	7.51	53557	8.05	132.9	0.18	0.14	1.43	27.609
Week 8	24-06-2024	11:13:15	16.35	95	7.51	53557	8.05	132.9	0.2	0.15	1.44	27.619
Week 8	24-06-2024	11:13:16	16.351	95	7.51	53558	8.05	132.9	0.21	0.14	1.41	27.179
Week 8	24-06-2024	11:13:17	16.351	95	7.51	53557	8.05	132.9	0.22	0.13	1.4	27.068
Week 8	24-06-2024	11:13:18	16.351	95	7.51	53557	8.05	132.9	0.23	0.15	1.45	26.789
Week 8	24-06-2024	11:13:19	16.351	95	7.51	53557	8.05	132.9	0.22	0.14	1.44	26.605
Week 8	24-06-2024	11:13:20	16.351	95	7.5	53557	8.05	132.9	0.22	0.15	1.46	26.461
Week 8	24-06-2024	11:13:21	16.351	94.9	7.5	53557	8.05	132.9	0.22	0.15	1.47	26.316
Week 8	24-06-2024	11:13:22	16.351	94.9	7.5	53556	8.05	132.9	0.21	0.16	1.49	26.237
Week 8	24-06-2024	11:13:23	16.351	94.9	7.5	53556	8.05	132.9	0.21	0.15	1.47	26.154
Week 8	24-06-2024	11:13:24	16.351	94.9	7.5	53556	8.05	132.9	0.22	0.15	1.47	25.052
Week 8	24-06-2024	11:13:25	16.351	94.9	7.5	53556	8.05	132.9	0.23	0.16	1.49	25.208
Week 8	24-06-2024	11:13:26	16.351	94.9	7.5	53555	8.05	132.9	0.24	0.15	1.46	25.21
Week 8	24-06-2024	11:13:27	16.351	94.9	7.5	53555	8.05	132.9	0.22	0.16	1.48	25.173
Week 8	24-06-2024	11:13:28	16.351	94.9	7.5	53555	8.05	132.9	0.22	0.15	1.47	25.061
Week 8	24-06-2024	11:13:29	16.351	94.9	7.5	53555	8.05	132.9	0.22	0.15	1.46	24.988
Week 8	24-06-2024	11:13:30	16.35	94.9	7.5	53555	8.05	132.9	0.21	0.15	1.46	24.98
Week 8	24-06-2024	11:13:31	16.35	94.9	7.5	53555	8.05	133	0.21	0.14	1.42	24.943
Week 8	24-06-2024	11:13:32	16.35	95	7.51	53555	8.05	133	0.2	0.14	1.42	24.853
Week 8	24-06-2024	11:13:33	16.35	95	7.5	53555	8.05	133	0.18	0.13	1.37	23.86
Week 8	24-06-2024	11:13:34	16.35	95	7.51	53555	8.05	133	0.18	0.13	1.39	24.055
Week 8	24-06-2024	11:13:35	16.349	95	7.51	53555	8.05	133	0.17	0.14	1.41	24.069
Week 8	24-06-2024	11:13:36	16.349	95	7.51	53555	8.05	133	0.17	0.14	1.43	24.074
Week 8	24-06-2024	11:13:37	16.349	95	7.51	53555	8.05	133	0.17	0.14	1.41	24.107
Week 8	24-06-2024	11:13:38	16.349	95	7.51	53555	8.05	133	0.15	0.14	1.44	24.082
Week 8	24-06-2024	11:13:39	16.349	95	7.51	53555	8.05	133	0.11	0.15	1.46	24.013
Week 8	24-06-2024	11:13:40	16.348	95	7.51	53555	8.05	133	0.09	0.15	1.46	23.911
Week 8	24-06-2024	11:13:41	16.348	95	7.51	53555	8.05	133	0.1	0.16	1.5	23.83
Week 8	24-06-2024	11:13:42	16.348	95	7.51	53555	8.05	133	0.1	0.16	1.51	23.752
Week 8	24-06-2024	11:13:43	16.348	95	7.51	53554	8.05	133	0.08	0.17	1.55	23.685
Week 8	24-06-2024	11:13:44	16.347	95	7.51	53554	8.05	133	0.07	0.19	1.59	22.826
Week 8	24-06-2024	11:13:45	16.347	95	7.51	53554	8.05	133	0.06	0.2	1.64	22.798
Week 8	24-06-2024	11:13:46	16.347	95	7.51	53554	8.05	133	0.06	0.19	1.6	22.603
Week 8	24-06-2024	11:13:47	16.347	95	7.51	53554	8.05	133	0.05	0.18	1.58	22.512
Week 8	24-06-2024	11:13:48	16.347	95	7.51	53554	8.05	133	0.06	0.19	1.6	22.383
Week 8	24-06-2024	11:13:49	16.347	95	7.51	53554	8.05	133	0.07	0.18	1.59	22.324
Week 8	24-06-2024	11:13:50	16.347	95.1	7.51	53553	8.05	133	0.08	0.19	1.6	22.344
Week 8	24-06-2024	11:13:51	16.347	95.1	7.51	53553	8.05	133	0.07	0.19	1.61	22.37
Week 8	24-06-2024	11:13:52	16.347	95.1	7.51	53552	8.05	133	0.07	0.17	1.55	22.351
Week 8	24-06-2024	11:13:53	16.347	95.1	7.52	53552	8.05	133	0.07	0.18	1.55	22.301
Week 8	24-06-2024	11:13:54	16.347	95.1	7.52	53551	8.05	133	0.07	0.17	1.54	21.411
Week 8	24-06-2024	11:13:55	16.347	95.1	7.52	53550	8.05	133	0.07	0.17	1.54	21.421

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 8	24-06-2024	11:13:56	16.347	95.1	7.52	53550	8.05	133	0.07	0.18	1.56	21.733
Week 8	24-06-2024	11:13:57	16.347	95.1	7.52	53549	8.05	133	0.09	0.18	1.58	21.746
Week 8	24-06-2024	11:13:58	16.346	95.1	7.52	53548	8.05	133	0.09	0.18	1.56	21.61
Week 8	24-06-2024	11:13:59	16.346	95.1	7.52	53547	8.05	133	0.1	0.19	1.6	21.363
Week 8	24-06-2024	11:14:00	16.346	95.1	7.52	53546	8.05	133	0.1	0.19	1.62	21.138
Week 8	24-06-2024	11:14:01	16.346	95.1	7.52	53545	8.05	133	0.11	0.19	1.6	21.071
Week 8	24-06-2024	11:14:02	16.346	95.1	7.52	53544	8.05	133	0.1	0.18	1.57	21.016
Week 8	24-06-2024	11:14:03	16.346	95.1	7.52	53544	8.05	133	0.08	0.19	1.6	20.948
Week 8	24-06-2024	11:14:04	16.345	95.2	7.52	53544	8.05	133	0.07	0.18	1.57	19.957
Week 8	24-06-2024	11:14:05	16.345	95.2	7.52	53543	8.05	133	0.07	0.18	1.56	19.63
Week 8	24-06-2024	11:14:06	16.345	95.2	7.52	53542	8.05	133	0.07	0.18	1.56	19.606
Week 8	24-06-2024	11:14:07	16.345	95.2	7.52	53542	8.05	133	0.07	0.16	1.49	19.425
Week 8	24-06-2024	11:14:08	16.344	95.2	7.53	53542	8.05	133	0.07	0.16	1.5	19.367
Week 8	24-06-2024	11:14:09	16.344	95.2	7.53	53541	8.05	133	0.07	0.17	1.53	19.332
Week 8	24-06-2024	11:14:10	16.344	95.2	7.53	53541	8.05	133	0.07	0.16	1.49	19.228
Week 8	24-06-2024	11:14:11	16.344	95.2	7.53	53540	8.05	133	0.06	0.15	1.47	19.087
Week 8	24-06-2024	11:14:12	16.344	95.3	7.53	53540	8.05	133	0.03	0.15	1.47	18.371
Week 8	24-06-2024	11:14:13	16.344	95.3	7.53	53539	8.05	133	0.02	0.15	1.47	18.055
Week 8	24-06-2024	11:14:14	16.344	95.3	7.53	53538	8.05	133	0.02	0.16	1.49	17.856
Week 8	24-06-2024	11:14:15	16.345	95.3	7.53	53536	8.05	133	0.02	0.17	1.52	17.877
Week 8	24-06-2024	11:14:16	16.345	95.3	7.54	53535	8.05	133	0.01	0.16	1.51	17.874
Week 8	24-06-2024	11:14:17	16.346	95.3	7.54	53534	8.05	133	0.02	0.17	1.52	17.885
Week 8	24-06-2024	11:14:18	16.347	95.4	7.54	53532	8.05	133	0.02	0.16	1.51	17.843
Week 8	24-06-2024	11:14:19	16.349	95.4	7.54	53531	8.05	133	0.03	0.17	1.53	17.754
Week 8	24-06-2024	11:14:20	16.35	95.4	7.54	53530	8.05	133	0.02	0.16	1.48	17.669
Week 8	24-06-2024	11:14:21	16.351	95.5	7.55	53529	8.05	133	0.01	0.16	1.5	17.604
Week 8	24-06-2024	11:14:22	16.353	95.5	7.55	53529	8.05	133	0.01	0.15	1.46	17.559
Week 8	24-06-2024	11:14:23	16.355	95.5	7.55	53529	8.06	133	0.01	0.16	1.49	17.501
Week 8	24-06-2024	11:14:24	16.356	95.6	7.55	53529	8.06	133	0.02	0.16	1.51	16.771
Week 8	24-06-2024	11:14:25	16.358	95.6	7.56	53529	8.06	133	0.02	0.16	1.51	16.775
Week 8	24-06-2024	11:14:26	16.36	95.6	7.56	53529	8.06	133	0.02	0.17	1.52	16.629
Week 8	24-06-2024	11:14:27	16.361	95.7	7.56	53530	8.06	133	0.01	0.18	1.57	16.552
Week 8	24-06-2024	11:14:28	16.363	95.7	7.56	53531	8.06	133	0.01	0.18	1.57	16.383
Week 8	24-06-2024	11:14:29	16.364	95.8	7.57	53531	8.06	133	0.02	0.19	1.59	16.276
Week 8	24-06-2024	11:14:30	16.365	95.8	7.57	53531	8.06	133	0.01	0.19	1.6	16.221
Week 8	24-06-2024	11:14:31	16.366	95.8	7.57	53531	8.06	133	0.01	0.2	1.63	16.163
Week 8	24-06-2024	11:14:32	16.367	95.8	7.57	53531	8.06	133	0.01	0.21	1.67	16.107
Week 8	24-06-2024	11:14:33	16.367	95.9	7.58	53531	8.06	133	0	0.21	1.69	16.086
Week 8	24-06-2024	11:14:34	16.368	95.9	7.58	53531	8.06	133	0	0.22	1.73	16.074
Week 8	24-06-2024	11:14:35	16.368	95.9	7.58	53530	8.06	133	0	0.22	1.7	16.047
Week 8	24-06-2024	11:14:36	16.369	96	7.58	53529	8.06	133	0	0.22	1.71	15.997
Week 8	24-06-2024	11:14:37	16.37	96	7.58	53528	8.06	133	0.01	0.22	1.71	15.058
Week 8	24-06-2024	11:14:38	16.37	96	7.59	53527	8.06	133	0.01	0.21	1.68	15.306
Week 8	24-06-2024	11:14:39	16.371	96	7.59	53526	8.06	133	0.01	0.21	1.66	15.451
Week 8	24-06-2024	11:14:40	16.371	96	7.59	53525	8.06	133.1	0.01	0.2	1.64	15.447
Week 8	24-06-2024	11:14:41	16.372	96.1	7.59	53524	8.06	133.1	0.01	0.19	1.61	15.442
Week 8	24-06-2024	11:14:42	16.372	96.1	7.59	53523	8.06	133.1	0.01	0.2	1.63	15.337
Week 8	24-06-2024	11:14:43	16.373	96.1	7.59	53523	8.06	133.1	0.02	0.18	1.56	15.252
Week 8	24-06-2024	11:14:44	16.373	96.1	7.59	53523	8.06	133.1	0.01	0.18	1.57	15.199
Week 8	24-06-2024	11:14:45	16.373	96.1	7.6	53523	8.06	133.1	0.02	0.17	1.54	15.159
Week 8	24-06-2024	11:14:46	16.374	96.1	7.6	53523	8.06	133.1	0.02	0.18	1.56	15.134
Week 8	24-06-2024	11:14:47	16.374	96.2	7.6	53523	8.06	133.1	0.01	0.17	1.53	15.119
Week 8	24-06-2024	11:14:48	16.374	96.2	7.6	53523	8.06	133.1	0	0.17	1.54	15.088
Week 8	24-06-2024	11:14:49	16.375	96.2	7.6	53523	8.06	133.1	0.02	0.18	1.56	15.043
Week 8	24-06-2024	11:14:50	16.375	96.2	7.6	53524	8.06	133.1	0.02	0.19	1.59	14.35
Week 8	24-06-2024	11:14:51	16.375	96.2	7.6	53524	8.06	133.1	0.02	0.19	1.61	14.425
Week 8	24-06-2024	11:14:52	16.375	96.2	7.6	53525	8.06	133.1	0.01	0.18	1.58	14.393
Week 8	24-06-2024	11:14:53	16.375	96.2	7.6	53525	8.06	133.1	0.01	0.18	1.55	14.396
Week 8	24-06-2024	11:14:54	16.375	96.2	7.6	53526	8.06	133.1	0.01	0.17	1.53	14.412
Week 8	24-06-2024	11:14:55	16.376	96.3	7.6	53526	8.06	133.1	0.01	0.16	1.5	14.416
Week 8	24-06-2024	11:14:56	16.376	96.3	7.61	53526	8.06	133.1	0.01	0.16	1.48	14.358
Week 8	24-06-2024	11:14:57	16.376	96.3	7.61	53526	8.06	133.1	0.01	0.16	1.48	14.255
Week 8	24-06-2024	11:14:58	16.376	96.3	7.61	53526	8.06	133.1	0.01	0.15	1.48	13.366
Week 8	24-06-2024	11:14:59	16.377	96.3	7.61	53527	8.06	133.1	0.01	0.15	1.47	13.42
Week 8	24-06-2024	11:15:00	16.377	96.3	7.61	53527	8.06	133.1	0.01	0.15	1.44	13.722
Week 8	24-06-2024	11:15:01	16.377	96.3	7.61	53527	8.06	133.1	0.01	0.14	1.42	13.737
Week 8	24-06-2024	11:15:02	16.378	96.3	7.61	53527	8.06	133.1	0.01	0.15	1.45	13.677
Week 8	24-06-2024	11:15:03	16.378	96.3	7.61	53528	8.06	133.1	0.01	0.16	1.51	13.541

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 8	24-06-2024	11:15:04	16.378	96.3	7.61	53528	8.06	133.1	0.01	0.17	1.53	13.35
Week 8	24-06-2024	11:15:05	16.378	96.3	7.61	53528	8.06	133.1	0.01	0.17	1.52	13.266
Week 8	24-06-2024	11:15:06	16.378	96.4	7.61	53528	8.06	133.1	0	0.17	1.52	13.204
Week 8	24-06-2024	11:15:07	16.378	96.4	7.61	53529	8.06	133.1	0.01	0.18	1.55	13.142
Week 8	24-06-2024	11:15:08	16.378	96.4	7.61	53529	8.06	133.1	0.02	0.17	1.54	13.069
Week 8	24-06-2024	11:15:09	16.378	96.4	7.61	53529	8.06	133.1	0.02	0.17	1.52	12.998
Week 8	24-06-2024	11:15:10	16.378	96.4	7.62	53529	8.06	133.1	0.01	0.17	1.53	12.951
Week 8	24-06-2024	11:15:11	16.378	96.4	7.62	53529	8.06	133.1	0.02	0.17	1.55	12.907
Week 8	24-06-2024	11:15:12	16.378	96.4	7.62	53530	8.06	133.1	0.01	0.17	1.54	12.137
Week 8	24-06-2024	11:15:13	16.377	96.4	7.62	53529	8.06	133.1	0.02	0.17	1.54	12.048
Week 8	24-06-2024	11:15:14	16.377	96.4	7.62	53528	8.06	133.1	0.01	0.17	1.52	11.931
Week 8	24-06-2024	11:15:15	16.376	96.4	7.62	53526	8.06	133.1	0.02	0.17	1.53	11.837
Week 8	24-06-2024	11:15:16	16.373	96.4	7.62	53524	8.06	133.1	0.02	0.19	1.6	11.728
Week 8	24-06-2024	11:15:17	16.369	96.4	7.62	53521	8.06	133.1	0.03	0.2	1.64	11.671
Week 8	24-06-2024	11:15:18	16.364	96.4	7.62	53519	8.06	133.1	0.03	0.2	1.63	11.646
Week 8	24-06-2024	11:15:19	16.359	96.4	7.62	53516	8.06	133.1	0.03	0.2	1.66	11.623
Week 8	24-06-2024	11:15:20	16.354	96.4	7.62	53512	8.06	133.1	0.04	0.22	1.7	11.599
Week 8	24-06-2024	11:15:21	16.348	96.4	7.62	53509	8.06	133.1	0.04	0.21	1.67	11.568
Week 8	24-06-2024	11:15:22	16.34	96.4	7.62	53505	8.06	133.1	0.04	0.21	1.68	11.507
Week 8	24-06-2024	11:15:23	16.333	96.4	7.62	53501	8.06	133.1	0.04	0.21	1.69	11.428
Week 8	24-06-2024	11:15:24	16.324	96.4	7.62	53496	8.06	133.1	0.05	0.22	1.73	11.38
Week 8	24-06-2024	11:15:25	16.316	96.4	7.63	53492	8.06	133.1	0.05	0.22	1.71	11.352
Week 8	24-06-2024	11:15:26	16.309	96.4	7.63	53488	8.06	133.1	0.05	0.22	1.7	11.319
Week 8	24-06-2024	11:15:27	16.301	96.4	7.63	53484	8.06	133.1	0.05	0.22	1.71	11.278
Week 8	24-06-2024	11:15:28	16.292	96.4	7.63	53479	8.06	133.2	0.05	0.21	1.66	10.195
Week 8	24-06-2024	11:15:29	16.283	96.4	7.63	53476	8.06	133.2	0.04	0.21	1.68	10.013
Week 8	24-06-2024	11:15:30	16.276	96.4	7.63	53471	8.06	133.2	0.04	0.21	1.68	9.909
Week 8	24-06-2024	11:15:31	16.266	96.4	7.63	53465	8.06	133.2	0.03	0.2	1.65	9.967
Week 8	24-06-2024	11:15:32	16.257	96.4	7.64	53460	8.06	133.2	0.02	0.2	1.64	9.995
Week 8	24-06-2024	11:15:33	16.248	96.4	7.64	53456	8.06	133.2	0.02	0.2	1.64	9.999
Week 8	24-06-2024	11:15:34	16.241	96.5	7.64	53451	8.06	133.2	0.01	0.2	1.64	9.981
Week 8	24-06-2024	11:15:35	16.233	96.5	7.64	53446	8.06	133.2	0.01	0.2	1.64	9.904
Week 8	24-06-2024	11:15:36	16.226	96.5	7.65	53440	8.06	133.2	0.01	0.21	1.68	9.803
Week 8	24-06-2024	11:15:37	16.218	96.5	7.65	53435	8.06	133.2	0	0.2	1.64	9.702
Week 8	24-06-2024	11:15:38	16.211	96.5	7.65	53428	8.06	133.2	-0.01	0.2	1.64	9.066
Week 8	24-06-2024	11:15:39	16.201	96.5	7.65	53422	8.06	133.2	-0.01	0.2	1.63	8.865
Week 8	24-06-2024	11:15:40	16.192	96.5	7.66	53416	8.06	133.2	-0.01	0.2	1.64	8.614
Week 8	24-06-2024	11:15:41	16.184	96.5	7.66	53410	8.06	133.2	-0.01	0.21	1.68	8.547
Week 8	24-06-2024	11:15:42	16.177	96.6	7.66	53404	8.06	133.2	-0.01	0.23	1.75	8.454
Week 8	24-06-2024	11:15:43	16.17	96.6	7.66	53399	8.06	133.2	0.01	0.24	1.77	8.346
Week 8	24-06-2024	11:15:44	16.165	96.6	7.67	53394	8.06	133.2	0.01	0.22	1.71	8.226
Week 8	24-06-2024	11:15:45	16.159	96.6	7.67	53389	8.06	133.2	0.02	0.22	1.72	8.153
Week 8	24-06-2024	11:15:46	16.153	96.6	7.67	53385	8.06	133.2	0.01	0.22	1.71	8.087
Week 8	24-06-2024	11:15:47	16.146	96.7	7.68	53380	8.06	133.2	0.02	0.21	1.66	8.023
Week 8	24-06-2024	11:15:48	16.141	96.7	7.68	53376	8.06	133.2	0.04	0.22	1.73	7.977
Week 8	24-06-2024	11:15:49	16.135	96.7	7.68	53373	8.06	133.2	0.04	0.22	1.72	7.933
Week 8	24-06-2024	11:15:50	16.13	96.7	7.68	53371	8.06	133.2	0.04	0.22	1.73	7.882
Week 8	24-06-2024	11:15:51	16.126	96.7	7.69	53368	8.06	133.2	0.03	0.21	1.68	6.89
Week 8	24-06-2024	11:15:52	16.122	96.8	7.69	53366	8.06	133.2	0.03	0.19	1.61	6.816
Week 8	24-06-2024	11:15:53	16.119	96.8	7.69	53364	8.06	133.2	0.04	0.19	1.59	6.864
Week 8	24-06-2024	11:15:54	16.116	96.8	7.69	53363	8.06	133.2	0.03	0.19	1.61	6.944
Week 8	24-06-2024	11:15:55	16.114	96.8	7.7	53362	8.06	133.2	0.03	0.2	1.63	6.946
Week 8	24-06-2024	11:15:56	16.112	96.9	7.7	53362	8.06	133.2	0.04	0.19	1.62	6.929
Week 8	24-06-2024	11:15:57	16.11	96.9	7.7	53362	8.06	133.2	0.01	0.18	1.58	6.857
Week 8	24-06-2024	11:15:58	16.109	96.9	7.7	53362	8.06	133.2	0.01	0.19	1.59	6.755
Week 8	24-06-2024	11:15:59	16.108	96.9	7.7	53361	8.06	133.2	0.01	0.18	1.58	5.909
Week 8	24-06-2024	11:16:00	16.106	97	7.71	53361	8.06	133.2	0.01	0.17	1.55	5.739
Week 8	24-06-2024	11:16:01	16.105	97	7.71	53362	8.06	133.2	0.02	0.18	1.58	5.763
Week 8	24-06-2024	11:16:02	16.104	97	7.71	53364	8.06	133.2	0.02	0.19	1.62	5.843
Week 8	24-06-2024	11:16:03	16.102	97	7.71	53367	8.06	133.2	0.02	0.2	1.65	5.862
Week 8	24-06-2024	11:16:04	16.101	97	7.71	53369	8.06	133.2	0.02	0.2	1.66	5.882
Week 8	24-06-2024	11:16:05	16.1	97	7.71	53371	8.06	133.2	0.03	0.19	1.62	5.794
Week 8	24-06-2024	11:16:06	16.099	97.1	7.72	53372	8.06	133.2	0.03	0.19	1.6	5.681
Week 8	24-06-2024	11:16:07	16.098	97.1	7.72	53373	8.06	133.2	0.04	0.18	1.56	5.575
Week 8	24-06-2024	11:16:08	16.097	97.1	7.72	53373	8.06	133.2	0.05	0.18	1.57	5.497
Week 8	24-06-2024	11:16:09	16.096	97.1	7.72	53373	8.06	133.2	0.05	0.18	1.55	5.441
Week 8	24-06-2024	11:16:10	16.095	97.1	7.72	53372	8.06	133.2	0.04	0.18	1.58	5.401
Week 8	24-06-2024	11:16:11	16.095	97.1	7.72	53372	8.06	133.2	0.05	0.2	1.63	5.355

APPLICATION AREA 1: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week 8	24-06-2024	11:16:12	16.094	97.1	7.72	53372	8.06	133.2	0.05	0.19	1.6	4.55
Week 8	24-06-2024	11:16:13	16.094	97.2	7.72	53372	8.06	133.3	0.05	0.19	1.59	4.374
Week 8	24-06-2024	11:16:14	16.093	97.2	7.72	53371	8.06	133.3	0.06	0.19	1.59	4.478
Week 8	24-06-2024	11:16:15	16.093	97.2	7.73	53368	8.06	133.3	0.05	0.19	1.61	4.472
Week 8	24-06-2024	11:16:16	16.093	97.2	7.73	53364	8.06	133.3	0.04	0.2	1.65	4.451
Week 8	24-06-2024	11:16:17	16.092	97.2	7.73	53361	8.06	133.3	0.04	0.23	1.74	4.387
Week 8	24-06-2024	11:16:18	16.092	97.2	7.73	53358	8.06	133.3	0.04	0.24	1.8	4.284
Week 8	24-06-2024	11:16:19	16.091	97.2	7.73	53355	8.06	133.3	0.05	0.25	1.81	4.196
Week 8	24-06-2024	11:16:20	16.09	97.2	7.73	53353	8.06	133.3	0.04	0.27	1.89	4.128
Week 8	24-06-2024	11:16:21	16.09	97.2	7.73	53351	8.06	133.3	0.04	0.26	1.86	4.049
Week 8	24-06-2024	11:16:22	16.089	97.2	7.73	53349	8.06	133.3	0.03	0.26	1.85	3.987
Week 8	24-06-2024	11:16:23	16.088	97.3	7.73	53347	8.06	133.3	0.03	0.27	1.89	3.935
Week 8	24-06-2024	11:16:24	16.086	97.3	7.73	53345	8.06	133.3	0.03	0.27	1.89	3.89
Week 8	24-06-2024	11:16:25	16.085	97.3	7.73	53344	8.06	133.3	0.04	0.26	1.86	3.854
Week 8	24-06-2024	11:16:26	16.083	97.3	7.74	53342	8.06	133.3	0.05	0.26	1.84	3.804
Week 8	24-06-2024	11:16:27	16.079	97.3	7.74	53339	8.06	133.3	0.05	0.26	1.85	2.94
Week 8	24-06-2024	11:16:28	16.076	97.3	7.74	53335	8.06	133.3	0.04	0.25	1.82	2.862
Week 8	24-06-2024	11:16:29	16.071	97.3	7.74	53330	8.06	133.3	0.05	0.26	1.85	2.67
Week 8	24-06-2024	11:16:30	16.066	97.3	7.74	53322	8.06	133.3	0.06	0.28	1.93	2.603
Week 8	24-06-2024	11:16:31	16.06	97.3	7.74	53316	8.07	133.3	0.07	0.27	1.9	2.606
Week 8	24-06-2024	11:16:32	16.055	97.3	7.74	53310	8.07	133.3	0.07	0.28	1.92	2.586
Week 8	24-06-2024	11:16:33	16.049	97.3	7.74	53305	8.07	133.3	0.07	0.27	1.9	2.55
Week 8	24-06-2024	11:16:34	16.043	97.3	7.74	53298	8.07	133.3	0.07	0.27	1.89	2.487
Week 8	24-06-2024	11:16:35	16.036	97.3	7.74	53293	8.07	133.3	0.08	0.28	1.93	2.405
Week 8	24-06-2024	11:16:36	16.029	97.3	7.74	53287	8.07	133.3	0.07	0.29	1.98	2.317
Week 8	24-06-2024	11:16:37	16.021	97.3	7.74	53281	8.07	133.3	0.08	0.3	2	2.243
Week 8	24-06-2024	11:16:38	16.013	97.2	7.75	53276	8.07	133.3	0.08	0.28	1.94	2.187
Week 8	24-06-2024	11:16:39	16.005	97.2	7.75	53271	8.07	133.3	0.09	0.29	1.95	2.142
Week 8	24-06-2024	11:16:40	15.999	97.3	7.75	53266	8.07	133.3	0.08	0.28	1.92	2.111
Week 8	24-06-2024	11:16:41	15.994	97.3	7.75	53263	8.07	133.3	0.08	0.27	1.88	2.076
Week 8	24-06-2024	11:16:42	15.989	97.3	7.75	53261	8.07	133.3	0.08	0.27	1.9	2.035
Week 8	24-06-2024	11:16:43	15.985	97.3	7.75	53260	8.07	133.3	0.09	0.27	1.89	1.107
Week 8	24-06-2024	11:16:44	15.98	97.3	7.76	53258	8.07	133.3	0.09	0.27	1.89	1.068
Week 8	24-06-2024	11:16:45	15.976	97.3	7.76	53256	8.07	133.3	0.09	0.27	1.9	0.97
Week 8	24-06-2024	11:16:46	15.972	97.3	7.76	53254	8.07	133.3	0.08	0.26	1.86	0.951
Week 8	24-06-2024	11:16:47	15.968	97.3	7.76	53253	8.07	133.3	0.08	0.25	1.81	0.914
Week 8	24-06-2024	11:16:48	15.965	97.3	7.76	53252	8.07	133.3	0.08	0.24	1.79	0.892
Week 8	24-06-2024	11:16:49	15.963	97.4	7.76	53250	8.07	133.3	0.08	0.25	1.82	0.837
Week 8	24-06-2024	11:16:50	15.961	97.4	7.76	53248	8.07	133.3	0.08	0.23	1.74	0.766
Week 8	24-06-2024	11:16:51	15.96	97.4	7.77	53245	8.07	133.3	0.08	0.22	1.71	0.695
Week 8	24-06-2024	11:16:52	15.958	97.4	7.77	53242	8.07	133.3	0.09	0.21	1.69	0.626
Week 8	24-06-2024	11:16:53	15.957	97.4	7.77	53239	8.07	133.3	0.08	0.19	1.61	0.578

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 1	06-05-2024	12:23:29	18.216	105.4	9.92	46665	8.16	178	3.24	0.31	2.05	0.15
Week 1	06-05-2024	12:23:30	18.22	105.6	8.3	46647	8.16	178	2.96	0.31	2.03	0.151
Week 1	06-05-2024	12:23:31	18.226	105.8	8.31	46586	8.16	178	2.72	0.26	1.87	0.163
Week 1	06-05-2024	12:23:32	18.243	106	8.33	46529	8.16	177.9	2.48	0.24	1.77	1.177
Week 1	06-05-2024	12:23:33	18.249	106.2	8.34	46522	8.16	177.9	2.23	0.23	1.77	1.52
Week 1	06-05-2024	12:23:34	18.26	106.3	8.36	46508	8.16	177.9	1.99	0.22	1.72	1.991
Week 1	06-05-2024	12:23:35	18.272	106.5	8.37	46485	8.16	177.8	1.72	0.21	1.68	2.398
Week 1	06-05-2024	12:23:36	18.278	106.6	8.38	46478	8.16	177.8	1.44	0.17	1.53	2.777
Week 1	06-05-2024	12:23:37	18.294	106.8	8.39	46457	8.16	177.7	1.2	0.14	1.43	3.78
Week 1	06-05-2024	12:23:38	18.309	106.9	8.4	46442	8.16	177.7	0.99	0.12	1.34	3.864
Week 1	06-05-2024	12:23:39	18.318	107.1	8.41	46429	8.16	177.7	0.74	0.12	1.35	4.443
Week 1	06-05-2024	12:23:40	18.357	107.2	8.42	46389	8.16	177.6	0.5	0.12	1.35	4.578
Week 1	06-05-2024	12:23:41	18.371	107.3	8.42	46368	8.16	177.6	0.23	0.12	1.35	4.668
Week 1	06-05-2024	12:23:42	18.366	107.1	8.41	46371	8.16	177.6	-0.01	0.13	1.38	4.863
Week 1	06-05-2024	12:23:43	18.362	107.1	8.4	46374	8.16	177.5	-0.09	0.14	1.42	6.381
Week 1	06-05-2024	12:23:44	18.35	106.9	8.39	46383	8.16	177.5	-0.1	0.13	1.38	7.052
Week 1	06-05-2024	12:23:45	18.348	106.7	8.38	46385	8.16	177.4	-0.1	0.12	1.34	7.507
Week 1	06-05-2024	12:23:46	18.342	106.6	8.37	46386	8.16	177.4	-0.1	0.12	1.37	7.508
Week 1	06-05-2024	12:23:47	18.339	106.5	8.36	46386	8.16	177.4	-0.1	0.13	1.4	7.672
Week 1	06-05-2024	12:23:48	18.338	106.4	8.35	46386	8.16	177.3	-0.1	0.13	1.39	8.931
Week 1	06-05-2024	12:23:49	18.334	106.3	8.35	46386	8.16	177.3	-0.1	0.13	1.39	9.67
Week 1	06-05-2024	12:23:50	18.332	106.2	8.34	46387	8.16	177.2	-0.1	0.14	1.41	10.299
Week 1	06-05-2024	12:23:51	18.33	106.1	8.33	46387	8.16	177.2	-0.1	0.15	1.44	10.545
Week 1	06-05-2024	12:23:52	18.328	106	8.33	46387	8.16	177.1	-0.1	0.15	1.46	10.852
Week 1	06-05-2024	12:23:53	18.327	106	8.32	46387	8.16	177.1	-0.11	0.16	1.49	12.001
Week 1	06-05-2024	12:23:54	18.324	105.9	8.31	46388	8.16	177	-0.11	0.15	1.45	12.257
Week 1	06-05-2024	12:23:55	18.324	105.8	8.31	46389	8.16	177	-0.11	0.16	1.49	12.946
Week 1	06-05-2024	12:23:56	18.322	105.7	8.3	46390	8.16	176.9	-0.11	0.15	1.46	13.51
Week 1	06-05-2024	12:23:57	18.32	105.7	8.3	46391	8.16	176.9	-0.11	0.15	1.45	13.738
Week 1	06-05-2024	12:23:58	18.319	105.6	8.29	46392	8.16	176.9	-0.11	0.15	1.46	14.802
Week 1	06-05-2024	12:23:59	18.318	105.6	8.29	46392	8.16	176.8	-0.11	0.16	1.5	15.262
Week 1	06-05-2024	12:24:00	18.318	105.5	8.29	46393	8.16	176.8	-0.1	0.16	1.51	15.787
Week 1	06-05-2024	12:24:01	18.317	105.5	8.28	46394	8.16	176.8	-0.1	0.16	1.51	16.279
Week 1	06-05-2024	12:24:02	18.317	105.4	8.28	46395	8.16	176.8	-0.11	0.16	1.51	16.429
Week 1	06-05-2024	12:24:03	18.317	105.4	8.28	46396	8.16	176.7	-0.11	0.17	1.53	17.456
Week 1	06-05-2024	12:24:04	18.318	105.3	8.27	46398	8.16	176.7	-0.12	0.18	1.56	17.393
Week 1	06-05-2024	12:24:05	18.319	105.3	8.27	46399	8.16	176.7	-0.12	0.19	1.6	18.064
Week 1	06-05-2024	12:24:06	18.319	105.3	8.27	46399	8.16	176.7	-0.13	0.19	1.59	18.59
Week 1	06-05-2024	12:24:07	18.32	105.2	8.26	46401	8.16	176.6	-0.13	0.2	1.65	18.771
Week 1	06-05-2024	12:24:08	18.322	105.2	8.26	46403	8.16	176.6	-0.12	0.21	1.67	19.157
Week 1	06-05-2024	12:24:09	18.324	105.2	8.26	46404	8.16	176.6	-0.12	0.23	1.75	20.392
Week 1	06-05-2024	12:24:10	18.325	105.2	8.26	46406	8.16	176.6	-0.12	0.23	1.76	20.61
Week 1	06-05-2024	12:24:11	18.326	105.1	8.26	46406	8.16	176.6	-0.12	0.24	1.8	21.099
Week 1	06-05-2024	12:24:12	18.328	105.1	8.25	46408	8.16	176.6	-0.13	0.25	1.82	21.322
Week 1	06-05-2024	12:24:13	18.329	105.1	8.25	46410	8.16	176.6	-0.13	0.26	1.86	21.572
Week 1	06-05-2024	12:24:14	18.331	105.1	8.25	46411	8.16	176.5	-0.14	0.27	1.89	21.644
Week 1	06-05-2024	12:24:15	18.331	105.1	8.25	46411	8.16	176.5	-0.14	0.26	1.87	21.616
Week 1	06-05-2024	12:24:16	18.332	105.1	8.25	46412	8.16	176.5	-0.14	0.26	1.84	21.563
Week 1	06-05-2024	12:24:17	18.332	105.1	8.25	46412	8.16	176.5	-0.13	0.28	1.92	21.546
Week 1	06-05-2024	12:24:18	18.333	105.1	8.25	46413	8.16	176.5	-0.13	0.28	1.95	21.561
Week 1	06-05-2024	12:24:19	18.333	105.1	8.25	46414	8.16	176.5	-0.13	0.31	2.03	20.552
Week 1	06-05-2024	12:24:20	18.333	105.1	8.25	46414	8.16	176.5	-0.13	0.3	2	20.228
Week 1	06-05-2024	12:24:21	18.334	105.1	8.25	46414	8.16	176.5	-0.12	0.3	2	19.903
Week 1	06-05-2024	12:24:22	18.334	105.1	8.25	46414	8.16	176.5	-0.12	0.3	2.02	19.246
Week 1	06-05-2024	12:24:23	18.334	105.1	8.25	46414	8.16	176.4	-0.12	0.29	1.97	19.118
Week 1	06-05-2024	12:24:24	18.334	105.1	8.25	46413	8.16	176.4	-0.12	0.3	2.01	17.475
Week 1	06-05-2024	12:24:25	18.333	105.1	8.25	46413	8.16	176.4	-0.13	0.28	1.93	17.275
Week 1	06-05-2024	12:24:26	18.333	105.1	8.26	46412	8.16	176.4	-0.12	0.27	1.9	16.607
Week 1	06-05-2024	12:24:27	18.333	105.2	8.26	46411	8.16	176.4	-0.12	0.26	1.86	16.453
Week 1	06-05-2024	12:24:28	18.332	105.2	8.26	46410	8.16	176.4	-0.12	0.25	1.82	16.263
Week 1	06-05-2024	12:24:29	18.331	105.2	8.26	46410	8.16	176.4	-0.11	0.24	1.78	14.84
Week 1	06-05-2024	12:24:30	18.33	105.2	8.26	46408	8.16	176.4	-0.11	0.23	1.73	14.214
Week 1	06-05-2024	12:24:31	18.329	105.2	8.26	46407	8.16	176.4	-0.11	0.22	1.7	13.555
Week 1	06-05-2024	12:24:32	18.327	105.2	8.26	46405	8.16	176.3	-0.11	0.21	1.67	13.394
Week 1	06-05-2024	12:24:33	18.326	105.2	8.26	46403	8.16	176.3	-0.11	0.18	1.57	12.134
Week 1	06-05-2024	12:24:34	18.325	105.3	8.27	46403	8.16	176.3	-0.11	0.18	1.56	11.448
Week 1	06-05-2024	12:24:35	18.323	105.3	8.27	46400	8.16	176.3	-0.12	0.17	1.52	10.683

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 1	06-05-2024	12:24:36	18.322	105.3	8.27	46399	8.16	176.3	-0.11	0.17	1.52	10.303
Week 1	06-05-2024	12:24:37	18.321	105.3	8.27	46397	8.16	176.3	-0.11	0.17	1.52	9.083
Week 1	06-05-2024	12:24:38	18.321	105.3	8.27	46396	8.16	176.3	-0.11	0.18	1.57	8.979
Week 1	06-05-2024	12:24:39	18.32	105.3	8.27	46395	8.16	176.3	-0.11	0.19	1.6	8.201
Week 1	06-05-2024	12:24:40	18.32	105.3	8.27	46393	8.16	176.3	-0.11	0.19	1.62	7.307
Week 1	06-05-2024	12:24:41	18.32	105.3	8.27	46392	8.16	176.3	-0.11	0.19	1.6	7.036
Week 1	06-05-2024	12:24:42	18.321	105.3	8.27	46391	8.16	176.3	-0.11	0.18	1.57	6.479
Week 1	06-05-2024	12:24:43	18.322	105.3	8.27	46390	8.16	176.3	-0.11	0.17	1.53	5.428
Week 1	06-05-2024	12:24:44	18.322	105.3	8.27	46389	8.16	176.3	-0.12	0.18	1.57	4.676
Week 1	06-05-2024	12:24:45	18.325	105.3	8.27	46388	8.16	176.3	-0.12	0.19	1.6	3.69
Week 1	06-05-2024	12:24:46	18.327	105.4	8.27	46387	8.16	176.3	-0.11	0.18	1.55	3.615
Week 1	06-05-2024	12:24:47	18.329	105.4	8.28	46387	8.16	176.3	-0.11	0.18	1.55	3.37
Week 1	06-05-2024	12:24:48	18.332	105.4	8.28	46386	8.16	176.3	-0.1	0.17	1.52	2.036
Week 1	06-05-2024	12:24:49	18.335	105.4	8.28	46385	8.16	176.3	-0.11	0.14	1.42	1.352
Week 1	06-05-2024	12:24:50	18.339	105.4	8.28	46384	8.16	176.3	-0.11	0.12	1.36	0.736
Week 1	06-05-2024	12:24:51	18.345	105.5	8.28	46384	8.16	176.3	-0.11	0.12	1.34	0.551
Week 2	13-05-2024	11:13:46	17.667	100.8	9.6	53786	8.18	164.1	0.72	0.32	2.08	0.209
Week 2	13-05-2024	11:13:47	17.665	100.7	7.75	53780	8.19	164.4	0.65	0.31	2.04	0.212
Week 2	13-05-2024	11:13:48	17.663	100.7	7.75	53794	8.2	164.5	0.61	0.29	1.96	0.215
Week 2	13-05-2024	11:13:49	17.662	100.7	7.75	53785	8.2	164.6	0.55	0.27	1.89	0.221
Week 2	13-05-2024	11:13:50	17.663	100.7	7.75	53787	8.2	164.7	0.49	0.25	1.83	0.225
Week 2	13-05-2024	11:13:51	17.664	100.6	7.74	53789	8.2	164.7	0.44	0.23	1.76	0.232
Week 2	13-05-2024	11:13:52	17.667	100.6	7.74	53785	8.2	164.8	0.38	0.21	1.67	0.237
Week 2	13-05-2024	11:13:53	17.671	100.5	7.74	53780	8.2	164.8	0.34	0.19	1.6	0.244
Week 2	13-05-2024	11:13:54	17.677	100.5	7.74	53774	8.2	164.9	0.28	0.18	1.56	0.255
Week 2	13-05-2024	11:13:55	17.686	100.5	7.73	53766	8.2	164.9	0.22	0.18	1.56	0.269
Week 2	13-05-2024	11:13:56	17.7	100.4	7.73	53748	8.2	165	0.16	0.17	1.53	1.099
Week 2	13-05-2024	11:13:57	17.722	100.4	7.73	53726	8.2	165	0.11	0.16	1.5	1.344
Week 2	13-05-2024	11:13:58	17.73	100.4	7.72	53714	8.2	165.1	0.06	0.15	1.48	1.754
Week 2	13-05-2024	11:13:59	17.731	100.3	7.72	53714	8.2	165.1	-0.02	0.15	1.44	2.025
Week 2	13-05-2024	11:14:00	17.731	100.3	7.71	53720	8.2	165.1	-0.05	0.14	1.42	2.082
Week 2	13-05-2024	11:14:01	17.731	100.2	7.71	53725	8.2	165.1	-0.06	0.14	1.42	2.271
Week 2	13-05-2024	11:14:02	17.731	100.2	7.7	53731	8.2	165.2	-0.05	0.14	1.41	2.429
Week 2	13-05-2024	11:14:03	17.731	100.1	7.7	53737	8.2	165.2	-0.07	0.14	1.41	2.573
Week 2	13-05-2024	11:14:04	17.73	100.1	7.69	53743	8.2	165.2	-0.07	0.14	1.43	3.386
Week 2	13-05-2024	11:14:05	17.729	100	7.69	53750	8.2	165.2	-0.07	0.13	1.4	3.445
Week 2	13-05-2024	11:14:06	17.728	99.9	7.68	53756	8.2	165.3	-0.07	0.11	1.32	3.899
Week 2	13-05-2024	11:14:07	17.726	99.9	7.68	53762	8.2	165.3	-0.07	0.11	1.32	3.967
Week 2	13-05-2024	11:14:08	17.725	99.8	7.68	53768	8.2	165.3	-0.07	0.12	1.36	4.105
Week 2	13-05-2024	11:14:09	17.722	99.7	7.67	53774	8.21	165.3	-0.08	0.12	1.34	4.376
Week 2	13-05-2024	11:14:10	17.72	99.7	7.67	53780	8.21	165.3	-0.08	0.12	1.37	4.598
Week 2	13-05-2024	11:14:11	17.717	99.7	7.66	53786	8.21	165.4	-0.08	0.11	1.32	5.585
Week 2	13-05-2024	11:14:12	17.715	99.6	7.66	53791	8.21	165.4	-0.09	0.11	1.3	5.828
Week 2	13-05-2024	11:14:13	17.711	99.6	7.66	53791	8.21	165.5	-0.09	0.12	1.34	6.264
Week 2	13-05-2024	11:14:14	17.708	99.5	7.65	53791	8.21	165.5	-0.1	0.12	1.36	6.38
Week 2	13-05-2024	11:14:15	17.705	99.5	7.65	53791	8.21	165.5	-0.09	0.13	1.38	6.459
Week 2	13-05-2024	11:14:16	17.702	99.4	7.65	53791	8.2	165.5	-0.09	0.13	1.37	6.611
Week 2	13-05-2024	11:14:17	17.699	99.4	7.65	53791	8.2	165.5	-0.09	0.15	1.46	6.693
Week 2	13-05-2024	11:14:18	17.697	99.4	7.64	53791	8.2	165.6	-0.1	0.14	1.43	6.818
Week 2	13-05-2024	11:14:19	17.694	99.3	7.64	53791	8.2	165.6	-0.09	0.13	1.39	7.766
Week 2	13-05-2024	11:14:20	17.691	99.3	7.64	53791	8.2	165.6	-0.1	0.14	1.44	8.024
Week 2	13-05-2024	11:14:21	17.689	99.3	7.64	53791	8.2	165.6	-0.09	0.14	1.41	8.527
Week 2	13-05-2024	11:14:22	17.688	99.2	7.64	53791	8.2	165.6	-0.08	0.14	1.42	8.726
Week 2	13-05-2024	11:14:23	17.686	99.2	7.63	53791	8.2	165.6	-0.09	0.15	1.45	8.86
Week 2	13-05-2024	11:14:24	17.685	99.2	7.63	53791	8.2	165.6	-0.09	0.14	1.41	9.129
Week 2	13-05-2024	11:14:25	17.684	99.1	7.63	53791	8.2	165.6	-0.09	0.13	1.4	9.331
Week 2	13-05-2024	11:14:26	17.683	99.1	7.63	53791	8.2	165.6	-0.09	0.13	1.4	9.5
Week 2	13-05-2024	11:14:27	17.682	99.1	7.63	53792	8.2	165.6	-0.09	0.16	1.48	9.616
Week 2	13-05-2024	11:14:28	17.682	99.1	7.63	53792	8.2	165.6	-0.1	0.16	1.51	10.564
Week 2	13-05-2024	11:14:29	17.681	99.1	7.62	53793	8.2	165.6	-0.09	0.18	1.55	10.865
Week 2	13-05-2024	11:14:30	17.681	99	7.62	53793	8.2	165.6	-0.1	0.18	1.58	11.263
Week 2	13-05-2024	11:14:31	17.681	99	7.62	53793	8.2	165.6	-0.09	0.17	1.53	11.436
Week 2	13-05-2024	11:14:32	17.68	99	7.62	53793	8.2	165.6	-0.09	0.18	1.58	11.542
Week 2	13-05-2024	11:14:33	17.68	99	7.62	53793	8.2	165.6	-0.09	0.19	1.59	11.598
Week 2	13-05-2024	11:14:34	17.679	99	7.62	53793	8.2	165.6	-0.09	0.18	1.58	11.713
Week 2	13-05-2024	11:14:35	17.679	98.9	7.61	53794	8.2	165.6	-0.09	0.2	1.64	12.809
Week 2	13-05-2024	11:14:36	17.679	98.9	7.61	53794	8.2	165.6	-0.09	0.2	1.65	12.811

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 2	13-05-2024	11:14:37	17.679	98.9	7.61	53794	8.2	165.6	-0.09	0.2	1.65	12.994
Week 2	13-05-2024	11:14:38	17.678	98.9	7.61	53794	8.2	165.6	-0.1	0.21	1.66	12.897
Week 2	13-05-2024	11:14:39	17.678	98.9	7.61	53794	8.2	165.6	-0.1	0.2	1.63	13.023
Week 2	13-05-2024	11:14:40	17.678	98.9	7.61	53794	8.2	165.6	-0.1	0.2	1.64	13.292
Week 2	13-05-2024	11:14:41	17.678	98.8	7.61	53794	8.2	165.6	-0.09	0.21	1.67	14.587
Week 2	13-05-2024	11:14:42	17.677	98.8	7.61	53794	8.2	165.6	-0.09	0.23	1.75	14.891
Week 2	13-05-2024	11:14:43	17.677	98.8	7.6	53794	8.2	165.6	-0.09	0.23	1.74	15.498
Week 2	13-05-2024	11:14:44	17.677	98.8	7.6	53794	8.2	165.6	-0.09	0.23	1.76	15.589
Week 2	13-05-2024	11:14:45	17.676	98.8	7.6	53794	8.2	165.6	-0.09	0.24	1.8	15.789
Week 2	13-05-2024	11:14:46	17.676	98.7	7.6	53795	8.2	165.6	-0.1	0.24	1.78	16.033
Week 2	13-05-2024	11:14:47	17.676	98.7	7.6	53795	8.2	165.6	-0.09	0.24	1.79	17.198
Week 2	13-05-2024	11:14:48	17.676	98.7	7.6	53795	8.2	165.6	-0.1	0.25	1.83	17.656
Week 2	13-05-2024	11:14:49	17.676	98.7	7.59	53795	8.2	165.6	-0.1	0.25	1.84	17.914
Week 2	13-05-2024	11:14:50	17.675	98.7	7.59	53796	8.2	165.6	-0.11	0.26	1.87	17.972
Week 2	13-05-2024	11:14:51	17.675	98.6	7.59	53796	8.2	165.6	-0.11	0.26	1.84	18.191
Week 2	13-05-2024	11:14:52	17.675	98.6	7.59	53797	8.2	165.6	-0.11	0.25	1.83	19.314
Week 2	13-05-2024	11:14:53	17.674	98.6	7.59	53797	8.2	165.6	-0.11	0.24	1.79	19.846
Week 2	13-05-2024	11:14:54	17.674	98.6	7.59	53797	8.2	165.6	-0.11	0.23	1.75	20.394
Week 2	13-05-2024	11:14:55	17.673	98.5	7.58	53797	8.2	165.6	-0.11	0.23	1.74	20.618
Week 2	13-05-2024	11:14:56	17.673	98.5	7.58	53797	8.2	165.6	-0.1	0.22	1.73	20.786
Week 2	13-05-2024	11:14:57	17.673	98.5	7.58	53798	8.2	165.6	-0.1	0.23	1.74	21.118
Week 2	13-05-2024	11:14:58	17.672	98.5	7.58	53798	8.2	165.6	-0.1	0.22	1.7	22.272
Week 2	13-05-2024	11:14:59	17.672	98.4	7.58	53798	8.2	165.6	-0.11	0.21	1.69	22.657
Week 2	13-05-2024	11:15:00	17.671	98.4	7.57	53798	8.2	165.6	-0.1	0.22	1.72	23.066
Week 2	13-05-2024	11:15:01	17.67	98.4	7.57	53799	8.2	165.6	-0.11	0.22	1.71	23.209
Week 2	13-05-2024	11:15:02	17.669	98.4	7.57	53799	8.2	165.6	-0.11	0.22	1.7	23.557
Week 2	13-05-2024	11:15:03	17.668	98.3	7.57	53800	8.2	165.6	-0.1	0.2	1.65	23.841
Week 2	13-05-2024	11:15:04	17.667	98.3	7.57	53800	8.2	165.6	-0.1	0.2	1.66	24.057
Week 2	13-05-2024	11:15:05	17.666	98.3	7.56	53800	8.2	165.6	-0.1	0.2	1.66	24.217
Week 2	13-05-2024	11:15:06	17.664	98.2	7.56	53801	8.2	165.6	-0.1	0.21	1.67	25.249
Week 2	13-05-2024	11:15:07	17.661	98.2	7.56	53802	8.2	165.6	-0.1	0.2	1.63	25.496
Week 2	13-05-2024	11:15:08	17.656	98.2	7.56	53803	8.2	165.6	-0.1	0.2	1.65	25.783
Week 2	13-05-2024	11:15:09	17.645	98.1	7.55	53806	8.2	165.6	-0.1	0.21	1.66	25.873
Week 2	13-05-2024	11:15:10	17.635	98	7.55	53809	8.2	165.6	-0.1	0.2	1.66	25.894
Week 2	13-05-2024	11:15:11	17.622	98	7.55	53811	8.2	165.6	-0.1	0.19	1.59	25.934
Week 2	13-05-2024	11:15:12	17.609	97.9	7.54	53813	8.2	165.6	-0.1	0.17	1.55	25.967
Week 2	13-05-2024	11:15:13	17.593	97.8	7.54	53815	8.2	165.6	-0.08	0.18	1.55	26.021
Week 2	13-05-2024	11:15:14	17.577	97.8	7.54	53816	8.2	165.6	-0.08	0.19	1.59	26.091
Week 2	13-05-2024	11:15:15	17.558	97.7	7.53	53817	8.2	165.6	-0.08	0.18	1.58	26.209
Week 2	13-05-2024	11:15:16	17.538	97.6	7.53	53819	8.2	165.6	-0.08	0.18	1.56	26.82
Week 2	13-05-2024	11:15:17	17.521	97.5	7.52	53820	8.2	165.6	-0.08	0.17	1.52	26.331
Week 2	13-05-2024	11:15:18	17.503	97.4	7.52	53821	8.2	165.6	-0.09	0.17	1.51	25.854
Week 2	13-05-2024	11:15:19	17.489	97.4	7.52	53824	8.2	165.7	-0.07	0.17	1.52	25.488
Week 2	13-05-2024	11:15:20	17.481	97.3	7.52	53824	8.2	165.7	-0.08	0.17	1.53	25.145
Week 2	13-05-2024	11:15:21	17.478	97.3	7.52	53824	8.2	165.7	-0.08	0.18	1.57	24.884
Week 2	13-05-2024	11:15:22	17.482	97.3	7.52	53823	8.2	165.7	-0.08	0.19	1.6	24.662
Week 2	13-05-2024	11:15:23	17.489	97.3	7.52	53819	8.2	165.7	-0.08	0.21	1.67	23.664
Week 2	13-05-2024	11:15:24	17.5	97.3	7.52	53818	8.2	165.7	-0.09	0.21	1.66	23.58
Week 2	13-05-2024	11:15:25	17.512	97.4	7.52	53815	8.2	165.7	-0.09	0.21	1.67	23.119
Week 2	13-05-2024	11:15:26	17.527	97.4	7.52	53813	8.2	165.7	-0.08	0.23	1.73	23.044
Week 2	13-05-2024	11:15:27	17.543	97.4	7.52	53811	8.2	165.7	-0.08	0.23	1.75	22.871
Week 2	13-05-2024	11:15:28	17.562	97.5	7.52	53810	8.2	165.7	-0.09	0.23	1.77	21.825
Week 2	13-05-2024	11:15:29	17.58	97.6	7.52	53808	8.2	165.7	-0.1	0.25	1.82	21.651
Week 2	13-05-2024	11:15:30	17.6	97.6	7.53	53807	8.2	165.7	-0.1	0.24	1.79	21.148
Week 2	13-05-2024	11:15:31	17.617	97.7	7.53	53805	8.2	165.8	-0.09	0.26	1.85	21.002
Week 2	13-05-2024	11:15:32	17.634	97.8	7.53	53803	8.2	165.8	-0.09	0.25	1.84	20.794
Week 2	13-05-2024	11:15:33	17.645	97.8	7.53	53801	8.2	165.8	-0.1	0.25	1.84	20.49
Week 2	13-05-2024	11:15:34	17.655	97.8	7.53	53800	8.2	165.8	-0.1	0.25	1.83	19.26
Week 2	13-05-2024	11:15:35	17.66	97.9	7.53	53799	8.2	165.8	-0.1	0.26	1.85	18.617
Week 2	13-05-2024	11:15:36	17.663	97.9	7.54	53800	8.2	165.8	-0.1	0.26	1.86	18.158
Week 2	13-05-2024	11:15:37	17.665	97.9	7.54	53800	8.2	165.8	-0.11	0.25	1.84	18.011
Week 2	13-05-2024	11:15:38	17.666	97.9	7.54	53800	8.2	165.8	-0.11	0.27	1.88	17.815
Week 2	13-05-2024	11:15:39	17.668	98	7.54	53800	8.2	165.8	-0.12	0.28	1.91	16.737
Week 2	13-05-2024	11:15:40	17.669	98	7.54	53799	8.2	165.8	-0.12	0.27	1.91	16.2
Week 2	13-05-2024	11:15:41	17.67	98	7.54	53799	8.2	165.8	-0.13	0.27	1.91	15.64
Week 2	13-05-2024	11:15:42	17.67	98	7.55	53799	8.2	165.8	-0.13	0.27	1.9	15.241
Week 2	13-05-2024	11:15:43	17.671	98.1	7.55	53799	8.2	165.8	-0.13	0.28	1.93	15.01

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 2	13-05-2024	11:15:44	17.672	98.1	7.55	53799	8.2	165.8	-0.13	0.28	1.93	13.911
Week 2	13-05-2024	11:15:45	17.673	98.1	7.55	53798	8.2	165.8	-0.13	0.28	1.92	13.367
Week 2	13-05-2024	11:15:46	17.673	98.2	7.56	53798	8.2	165.8	-0.14	0.29	1.95	12.919
Week 2	13-05-2024	11:15:47	17.674	98.2	7.56	53798	8.2	165.8	-0.14	0.29	1.97	12.747
Week 2	13-05-2024	11:15:48	17.674	98.2	7.56	53797	8.2	165.8	-0.13	0.29	1.96	12.566
Week 2	13-05-2024	11:15:49	17.675	98.3	7.56	53797	8.2	165.8	-0.13	0.29	1.97	12.269
Week 2	13-05-2024	11:15:50	17.676	98.3	7.57	53797	8.2	165.8	-0.13	0.28	1.93	12.043
Week 2	13-05-2024	11:15:51	17.676	98.3	7.57	53797	8.2	165.8	-0.13	0.28	1.93	11.883
Week 2	13-05-2024	11:15:52	17.677	98.4	7.57	53796	8.2	165.8	-0.13	0.28	1.92	10.854
Week 2	13-05-2024	11:15:53	17.677	98.4	7.57	53796	8.2	165.8	-0.13	0.26	1.87	10.543
Week 2	13-05-2024	11:15:54	17.678	98.4	7.57	53796	8.2	165.8	-0.12	0.25	1.82	10.155
Week 2	13-05-2024	11:15:55	17.678	98.4	7.58	53796	8.2	165.8	-0.12	0.24	1.79	10.109
Week 2	13-05-2024	11:15:56	17.678	98.5	7.58	53796	8.2	165.8	-0.12	0.24	1.8	9.988
Week 2	13-05-2024	11:15:57	17.678	98.5	7.58	53796	8.2	165.8	-0.11	0.24	1.8	9.82
Week 2	13-05-2024	11:15:58	17.679	98.5	7.58	53796	8.2	165.8	-0.11	0.25	1.81	8.881
Week 2	13-05-2024	11:15:59	17.679	98.6	7.58	53795	8.2	165.8	-0.11	0.25	1.81	8.501
Week 2	13-05-2024	11:16:00	17.679	98.6	7.59	53795	8.2	165.8	-0.11	0.24	1.8	8.237
Week 2	13-05-2024	11:16:01	17.679	98.6	7.59	53795	8.2	165.8	-0.1	0.25	1.81	7.949
Week 2	13-05-2024	11:16:02	17.68	98.6	7.59	53795	8.2	165.8	-0.1	0.24	1.77	7.789
Week 2	13-05-2024	11:16:03	17.68	98.6	7.59	53795	8.2	165.8	-0.1	0.24	1.79	7.492
Week 2	13-05-2024	11:16:04	17.68	98.7	7.59	53795	8.2	165.8	-0.1	0.25	1.82	7.272
Week 2	13-05-2024	11:16:05	17.681	98.7	7.59	53794	8.2	165.8	-0.11	0.25	1.83	6.225
Week 2	13-05-2024	11:16:06	17.681	98.7	7.59	53794	8.2	165.8	-0.1	0.26	1.86	5.867
Week 2	13-05-2024	11:16:07	17.682	98.7	7.6	53794	8.2	165.8	-0.1	0.25	1.83	5.373
Week 2	13-05-2024	11:16:08	17.684	98.7	7.6	53794	8.2	165.8	-0.09	0.24	1.8	5.151
Week 2	13-05-2024	11:16:09	17.685	98.8	7.6	53794	8.2	165.8	-0.09	0.23	1.76	4.981
Week 2	13-05-2024	11:16:10	17.687	98.8	7.6	53794	8.2	165.8	-0.09	0.22	1.72	4.822
Week 2	13-05-2024	11:16:11	17.689	98.8	7.6	53793	8.2	165.8	-0.09	0.2	1.63	4.595
Week 2	13-05-2024	11:16:12	17.691	98.8	7.6	53793	8.2	165.9	-0.1	0.19	1.61	3.416
Week 2	13-05-2024	11:16:13	17.694	98.9	7.61	53793	8.2	165.9	-0.09	0.2	1.62	2.848
Week 2	13-05-2024	11:16:14	17.696	98.9	7.61	53793	8.2	165.9	-0.1	0.2	1.64	2.375
Week 2	13-05-2024	11:16:15	17.699	98.9	7.61	53793	8.2	165.9	-0.1	0.18	1.59	2.036
Week 2	13-05-2024	11:16:16	17.702	99	7.61	53792	8.2	165.9	-0.1	0.18	1.57	1.809
Week 2	13-05-2024	11:16:17	17.705	99	7.61	53792	8.2	165.9	-0.09	0.16	1.5	1.575
Week 2	13-05-2024	11:16:18	17.708	99	7.62	53792	8.2	166	-0.1	0.15	1.45	0.638
Week 2	13-05-2024	11:16:19	17.711	99	7.62	53792	8.2	166	-0.09	0.14	1.41	0.313
Week 3	22-05-2024	11:02:03	17.247	96.4	9.27	54081	8.15	179.2	-0.08	0.31	2.04	0.025
Week 3	22-05-2024	11:02:04	17.275	96.6	7.48	54107	8.18	178.2	0.05	0.27	1.9	0.028
Week 3	22-05-2024	11:02:05	17.302	96.7	7.49	54068	8.19	177.8	0.02	0.26	1.86	0.039
Week 3	22-05-2024	11:02:06	17.331	96.8	7.49	54050	8.2	177.5	0	0.24	1.79	0.048
Week 3	22-05-2024	11:02:07	17.358	96.9	7.5	54018	8.2	177.3	0.02	0.24	1.79	0.902
Week 3	22-05-2024	11:02:08	17.39	97.1	7.51	53988	8.2	177	0.03	0.25	1.82	0.822
Week 3	22-05-2024	11:02:09	17.418	97.3	7.52	53951	8.2	176.8	0.02	0.26	1.86	0.834
Week 3	22-05-2024	11:02:10	17.453	97.4	7.53	53915	8.2	176.6	0.02	0.26	1.87	0.956
Week 3	22-05-2024	11:02:11	17.484	97.6	7.54	53873	8.2	176.4	0	0.27	1.88	1.002
Week 3	22-05-2024	11:02:12	17.519	97.7	7.54	53835	8.2	176.2	0	0.25	1.84	1.072
Week 3	22-05-2024	11:02:13	17.55	97.7	7.54	53793	8.2	176.1	0	0.24	1.78	1.14
Week 3	22-05-2024	11:02:14	17.586	97.7	7.54	53756	8.2	175.9	0	0.23	1.76	1.216
Week 3	22-05-2024	11:02:15	17.611	97.7	7.53	53721	8.2	175.7	0	0.24	1.78	1.265
Week 3	22-05-2024	11:02:16	17.614	97.7	7.53	53717	8.2	175.6	-0.01	0.22	1.73	1.328
Week 3	22-05-2024	11:02:17	17.615	97.6	7.52	53716	8.2	175.5	-0.01	0.22	1.7	1.4
Week 3	22-05-2024	11:02:18	17.615	97.5	7.52	53716	8.2	175.4	-0.02	0.21	1.69	1.492
Week 3	22-05-2024	11:02:19	17.615	97.5	7.51	53716	8.2	175.2	-0.02	0.21	1.68	2.246
Week 3	22-05-2024	11:02:20	17.615	97.4	7.51	53716	8.21	175.1	-0.03	0.19	1.61	2.414
Week 3	22-05-2024	11:02:21	17.615	97.3	7.5	53716	8.21	175	-0.03	0.18	1.57	2.584
Week 3	22-05-2024	11:02:22	17.615	97.3	7.5	53716	8.21	174.9	-0.03	0.17	1.54	2.715
Week 3	22-05-2024	11:02:23	17.615	97.2	7.5	53716	8.21	174.8	-0.03	0.18	1.57	2.75
Week 3	22-05-2024	11:02:24	17.615	97.2	7.49	53716	8.21	174.7	-0.03	0.19	1.61	2.861
Week 3	22-05-2024	11:02:25	17.615	97.2	7.49	53716	8.21	174.5	-0.03	0.19	1.61	2.96
Week 3	22-05-2024	11:02:26	17.615	97.1	7.49	53717	8.21	174.3	-0.04	0.21	1.67	3.054
Week 3	22-05-2024	11:02:27	17.614	97.1	7.48	53717	8.21	174.1	-0.03	0.21	1.67	3.114
Week 3	22-05-2024	11:02:28	17.614	97.1	7.48	53717	8.21	173.9	-0.03	0.21	1.69	3.151
Week 3	22-05-2024	11:02:29	17.614	97.1	7.48	53717	8.21	173.7	-0.03	0.22	1.71	3.219
Week 3	22-05-2024	11:02:30	17.614	97	7.48	53718	8.21	173.5	-0.04	0.22	1.7	3.291
Week 3	22-05-2024	11:02:31	17.614	97	7.48	53719	8.21	173.3	-0.03	0.23	1.76	4.296
Week 3	22-05-2024	11:02:32	17.614	97	7.48	53719	8.21	173.2	-0.03	0.23	1.76	4.307
Week 3	22-05-2024	11:02:33	17.614	97	7.48	53719	8.21	173.1	-0.02	0.24	1.77	4.431

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 3	22-05-2024	11:02:34	17.614	97	7.47	53720	8.21	172.9	-0.02	0.24	1.79	4.658
Week 3	22-05-2024	11:02:35	17.614	97	7.47	53720	8.21	172.8	-0.03	0.24	1.79	4.826
Week 3	22-05-2024	11:02:36	17.614	96.9	7.47	53720	8.21	172.7	-0.02	0.24	1.79	4.91
Week 3	22-05-2024	11:02:37	17.613	96.9	7.47	53720	8.21	172.5	-0.02	0.23	1.74	4.987
Week 3	22-05-2024	11:02:38	17.613	96.9	7.47	53720	8.21	172.4	-0.03	0.22	1.71	5.052
Week 3	22-05-2024	11:02:39	17.613	96.9	7.47	53721	8.21	172.3	-0.02	0.23	1.74	5.123
Week 3	22-05-2024	11:02:40	17.613	96.9	7.47	53720	8.21	172.2	-0.02	0.23	1.76	5.19
Week 3	22-05-2024	11:02:41	17.613	96.9	7.47	53721	8.21	172.1	-0.02	0.23	1.73	5.26
Week 3	22-05-2024	11:02:42	17.613	96.9	7.47	53721	8.21	172	-0.02	0.22	1.72	5.324
Week 3	22-05-2024	11:02:43	17.612	96.9	7.47	53720	8.21	171.9	-0.03	0.23	1.76	6.211
Week 3	22-05-2024	11:02:44	17.612	96.8	7.46	53720	8.21	171.8	-0.03	0.25	1.81	6.029
Week 3	22-05-2024	11:02:45	17.612	96.8	7.46	53720	8.21	171.7	-0.03	0.25	1.81	6.308
Week 3	22-05-2024	11:02:46	17.612	96.8	7.46	53720	8.21	171.7	-0.02	0.26	1.85	6.366
Week 3	22-05-2024	11:02:47	17.612	96.8	7.46	53720	8.21	171.6	-0.01	0.26	1.86	6.366
Week 3	22-05-2024	11:02:48	17.612	96.8	7.46	53720	8.21	171.5	-0.02	0.27	1.88	6.358
Week 3	22-05-2024	11:02:49	17.612	96.8	7.46	53720	8.21	171.4	-0.01	0.29	1.96	6.396
Week 3	22-05-2024	11:02:50	17.612	96.8	7.46	53720	8.21	171.3	-0.01	0.29	1.96	6.42
Week 3	22-05-2024	11:02:51	17.612	96.8	7.46	53720	8.21	171.3	-0.01	0.29	1.95	6.461
Week 3	22-05-2024	11:02:52	17.613	96.8	7.46	53720	8.21	171.2	-0.01	0.3	2.01	6.484
Week 3	22-05-2024	11:02:53	17.612	96.8	7.46	53720	8.21	171.1	0	0.3	2.01	6.508
Week 3	22-05-2024	11:02:54	17.612	96.8	7.46	53720	8.21	171	0	0.31	2.05	6.556
Week 3	22-05-2024	11:02:55	17.613	96.7	7.46	53720	8.21	171	0.01	0.3	2.02	6.619
Week 3	22-05-2024	11:02:56	17.613	96.7	7.46	53720	8.21	170.9	0	0.31	2.04	6.694
Week 3	22-05-2024	11:02:57	17.613	96.7	7.46	53720	8.21	170.8	0	0.31	2.02	7.586
Week 3	22-05-2024	11:02:58	17.612	96.7	7.46	53721	8.21	170.8	0	0.31	2.03	7.899
Week 3	22-05-2024	11:02:59	17.611	96.7	7.45	53721	8.21	170.7	0	0.32	2.07	8.125
Week 3	22-05-2024	11:03:00	17.611	96.7	7.45	53721	8.21	170.6	0	0.32	2.08	8.019
Week 3	22-05-2024	11:03:01	17.61	96.7	7.45	53721	8.21	170.6	0	0.32	2.07	8.064
Week 3	22-05-2024	11:03:02	17.609	96.7	7.45	53721	8.21	170.5	-0.01	0.32	2.06	8.279
Week 3	22-05-2024	11:03:03	17.608	96.7	7.45	53722	8.21	170.4	-0.02	0.31	2.06	8.427
Week 3	22-05-2024	11:03:04	17.607	96.7	7.45	53722	8.21	170.4	-0.02	0.31	2.03	8.53
Week 3	22-05-2024	11:03:05	17.606	96.7	7.45	53722	8.22	170.3	-0.02	0.31	2.06	8.643
Week 3	22-05-2024	11:03:06	17.606	96.6	7.45	53722	8.22	170.3	-0.03	0.32	2.08	8.721
Week 3	22-05-2024	11:03:07	17.605	96.6	7.45	53722	8.22	170.2	-0.04	0.32	2.09	9.707
Week 3	22-05-2024	11:03:08	17.604	96.6	7.45	53723	8.22	170.1	-0.05	0.34	2.14	9.786
Week 3	22-05-2024	11:03:09	17.603	96.6	7.45	53723	8.22	170.1	-0.05	0.35	2.19	10.116
Week 3	22-05-2024	11:03:10	17.603	96.6	7.45	53722	8.22	170	-0.06	0.35	2.19	10.167
Week 3	22-05-2024	11:03:11	17.603	96.6	7.45	53722	8.22	170	-0.05	0.36	2.22	10.267
Week 3	22-05-2024	11:03:12	17.603	96.6	7.45	53722	8.22	169.9	-0.05	0.37	2.24	10.372
Week 3	22-05-2024	11:03:13	17.603	96.6	7.45	53722	8.22	169.9	-0.05	0.38	2.29	10.476
Week 3	22-05-2024	11:03:14	17.603	96.6	7.44	53722	8.22	169.8	-0.05	0.37	2.27	10.632
Week 3	22-05-2024	11:03:15	17.603	96.6	7.44	53722	8.22	169.7	-0.04	0.4	2.36	10.743
Week 3	22-05-2024	11:03:16	17.603	96.5	7.44	53723	8.22	169.7	-0.05	0.41	2.39	11.594
Week 3	22-05-2024	11:03:17	17.602	96.5	7.44	53723	8.22	169.6	-0.04	0.41	2.39	11.502
Week 3	22-05-2024	11:03:18	17.602	96.5	7.44	53723	8.22	169.6	-0.04	0.41	2.42	11.974
Week 3	22-05-2024	11:03:19	17.602	96.5	7.44	53723	8.22	169.5	-0.04	0.41	2.42	12.074
Week 3	22-05-2024	11:03:20	17.601	96.5	7.44	53723	8.22	169.5	-0.04	0.42	2.45	12.144
Week 3	22-05-2024	11:03:21	17.601	96.5	7.44	53723	8.22	169.4	-0.03	0.42	2.44	12.336
Week 3	22-05-2024	11:03:22	17.6	96.5	7.44	53723	8.22	169.4	-0.03	0.4	2.37	12.472
Week 3	22-05-2024	11:03:23	17.6	96.5	7.44	53723	8.22	169.3	-0.03	0.42	2.44	12.533
Week 3	22-05-2024	11:03:24	17.599	96.5	7.44	53723	8.22	169.3	-0.03	0.42	2.44	12.601
Week 3	22-05-2024	11:03:25	17.598	96.4	7.44	53723	8.22	169.2	-0.02	0.42	2.45	12.693
Week 3	22-05-2024	11:03:26	17.598	96.4	7.44	53723	8.22	169.2	-0.02	0.42	2.43	13.599
Week 3	22-05-2024	11:03:27	17.598	96.4	7.43	53723	8.22	169.2	-0.02	0.42	2.43	13.727
Week 3	22-05-2024	11:03:28	17.597	96.4	7.43	53723	8.22	169.1	-0.03	0.41	2.4	13.987
Week 3	22-05-2024	11:03:29	17.597	96.4	7.43	53723	8.22	169.1	-0.03	0.41	2.42	14.019
Week 3	22-05-2024	11:03:30	17.597	96.4	7.43	53723	8.22	169	-0.03	0.42	2.44	14.081
Week 3	22-05-2024	11:03:31	17.596	96.4	7.43	53724	8.22	169	-0.02	0.43	2.47	14.269
Week 3	22-05-2024	11:03:32	17.596	96.4	7.43	53724	8.22	168.9	-0.02	0.44	2.5	14.37
Week 3	22-05-2024	11:03:33	17.596	96.4	7.43	53724	8.22	168.9	-0.02	0.46	2.58	14.468
Week 3	22-05-2024	11:03:34	17.595	96.3	7.43	53724	8.22	168.9	-0.02	0.45	2.54	14.51
Week 3	22-05-2024	11:03:35	17.595	96.3	7.43	53724	8.22	168.8	-0.03	0.46	2.6	14.578
Week 3	22-05-2024	11:03:36	17.595	96.3	7.43	53724	8.22	168.8	-0.03	0.47	2.62	14.661
Week 3	22-05-2024	11:03:37	17.594	96.3	7.43	53724	8.22	168.8	-0.03	0.49	2.68	15.802
Week 3	22-05-2024	11:03:38	17.594	96.3	7.43	53724	8.22	168.7	-0.02	0.48	2.65	15.788
Week 3	22-05-2024	11:03:39	17.593	96.3	7.42	53724	8.22	168.7	-0.02	0.49	2.69	15.808
Week 3	22-05-2024	11:03:40	17.593	96.3	7.42	53724	8.22	168.6	-0.02	0.5	2.72	15.985

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 3	22-05-2024	11:03:41	17.592	96.3	7.42	53725	8.22	168.6	-0.02	0.51	2.75	16.057
Week 3	22-05-2024	11:03:42	17.591	96.2	7.42	53725	8.22	168.6	-0.01	0.5	2.72	16.042
Week 3	22-05-2024	11:03:43	17.591	96.2	7.42	53725	8.22	168.5	-0.01	0.49	2.7	16.122
Week 3	22-05-2024	11:03:44	17.591	96.2	7.42	53725	8.22	168.5	-0.01	0.48	2.65	16.181
Week 3	22-05-2024	11:03:45	17.59	96.2	7.42	53725	8.22	168.5	-0.01	0.49	2.7	16.241
Week 3	22-05-2024	11:03:46	17.59	96.2	7.42	53725	8.22	168.4	-0.01	0.48	2.67	16.333
Week 3	22-05-2024	11:03:47	17.59	96.2	7.42	53725	8.22	168.4	-0.01	0.49	2.69	16.415
Week 3	22-05-2024	11:03:48	17.59	96.2	7.42	53725	8.22	168.3	-0.01	0.48	2.65	17.206
Week 3	22-05-2024	11:03:49	17.59	96.2	7.42	53725	8.22	168.3	0	0.48	2.65	16.777
Week 3	22-05-2024	11:03:50	17.59	96.2	7.42	53725	8.22	168.3	0.01	0.48	2.65	17.065
Week 3	22-05-2024	11:03:51	17.59	96.2	7.42	53726	8.22	168.2	0.01	0.46	2.59	17.26
Week 3	22-05-2024	11:03:52	17.59	96.1	7.41	53726	8.22	168.2	0.01	0.46	2.57	17.3
Week 3	22-05-2024	11:03:53	17.59	96.1	7.41	53726	8.22	168.2	0.01	0.46	2.57	17.476
Week 3	22-05-2024	11:03:54	17.59	96.1	7.41	53726	8.22	168.1	0.02	0.47	2.61	17.586
Week 3	22-05-2024	11:03:55	17.59	96.1	7.41	53726	8.22	168.1	0.01	0.47	2.62	17.649
Week 3	22-05-2024	11:03:56	17.59	96.1	7.41	53726	8.22	168.1	0.01	0.46	2.6	17.725
Week 3	22-05-2024	11:03:57	17.59	96.1	7.41	53726	8.22	168.1	0.02	0.47	2.61	17.797
Week 3	22-05-2024	11:03:58	17.589	96.1	7.41	53726	8.22	168	0.02	0.47	2.62	17.87
Week 3	22-05-2024	11:03:59	17.589	96.1	7.41	53726	8.22	168	0.03	0.48	2.67	17.928
Week 3	22-05-2024	11:04:00	17.589	96.1	7.41	53726	8.22	168	0.02	0.48	2.67	18.894
Week 3	22-05-2024	11:04:01	17.589	96.1	7.41	53726	8.22	167.9	0.02	0.47	2.63	18.734
Week 3	22-05-2024	11:04:02	17.588	96.1	7.41	53726	8.22	167.9	0.01	0.47	2.63	18.858
Week 3	22-05-2024	11:04:03	17.588	96.1	7.41	53726	8.22	167.9	0.01	0.47	2.63	18.833
Week 3	22-05-2024	11:04:04	17.588	96.1	7.41	53726	8.22	167.9	0	0.47	2.62	18.805
Week 3	22-05-2024	11:04:05	17.588	96	7.41	53726	8.22	167.8	0	0.45	2.56	18.896
Week 3	22-05-2024	11:04:06	17.588	96	7.41	53727	8.22	167.8	0	0.45	2.56	19.088
Week 3	22-05-2024	11:04:07	17.587	96	7.41	53727	8.22	167.8	0	0.45	2.54	19.273
Week 3	22-05-2024	11:04:08	17.587	96	7.4	53727	8.22	167.7	-0.02	0.44	2.52	19.402
Week 3	22-05-2024	11:04:09	17.587	96	7.4	53727	8.22	167.7	-0.03	0.43	2.46	19.501
Week 3	22-05-2024	11:04:10	17.587	96	7.4	53727	8.22	167.7	-0.03	0.41	2.42	19.594
Week 3	22-05-2024	11:04:11	17.587	96	7.4	53728	8.22	167.7	-0.02	0.4	2.38	19.658
Week 3	22-05-2024	11:04:12	17.587	96	7.4	53728	8.22	167.6	-0.04	0.4	2.36	19.72
Week 3	22-05-2024	11:04:13	17.587	95.9	7.4	53728	8.22	167.6	-0.03	0.4	2.36	19.779
Week 3	22-05-2024	11:04:14	17.586	95.9	7.4	53728	8.22	167.6	-0.04	0.4	2.36	21.024
Week 3	22-05-2024	11:04:15	17.586	95.9	7.4	53728	8.22	167.6	-0.04	0.4	2.37	21.142
Week 3	22-05-2024	11:04:16	17.586	95.9	7.4	53729	8.22	167.6	-0.03	0.42	2.44	21.149
Week 3	22-05-2024	11:04:17	17.586	95.9	7.39	53729	8.22	167.5	-0.03	0.4	2.38	21.208
Week 3	22-05-2024	11:04:18	17.586	95.9	7.39	53730	8.22	167.5	-0.02	0.39	2.34	21.395
Week 3	22-05-2024	11:04:19	17.586	95.9	7.39	53730	8.22	167.5	-0.03	0.39	2.33	21.501
Week 3	22-05-2024	11:04:20	17.586	95.8	7.39	53730	8.22	167.5	-0.04	0.4	2.35	21.55
Week 3	22-05-2024	11:04:21	17.586	95.8	7.39	53731	8.22	167.4	-0.04	0.39	2.34	21.64
Week 3	22-05-2024	11:04:22	17.587	95.8	7.39	53732	8.22	167.4	-0.04	0.38	2.31	21.749
Week 3	22-05-2024	11:04:23	17.587	95.8	7.39	53733	8.22	167.4	-0.03	0.39	2.31	21.851
Week 3	22-05-2024	11:04:24	17.587	95.8	7.38	53733	8.22	167.4	-0.02	0.38	2.3	22.923
Week 3	22-05-2024	11:04:25	17.587	95.7	7.38	53734	8.22	167.4	-0.02	0.37	2.25	23.22
Week 3	22-05-2024	11:04:26	17.587	95.7	7.38	53735	8.22	167.3	-0.02	0.36	2.22	23.72
Week 3	22-05-2024	11:04:27	17.588	95.7	7.38	53737	8.22	167.3	-0.02	0.34	2.15	23.832
Week 3	22-05-2024	11:04:28	17.588	95.7	7.38	53738	8.22	167.3	-0.03	0.35	2.18	23.904
Week 3	22-05-2024	11:04:29	17.588	95.6	7.38	53740	8.22	167.3	-0.02	0.34	2.16	24.07
Week 3	22-05-2024	11:04:30	17.589	95.6	7.37	53742	8.22	167.3	-0.02	0.32	2.08	24.206
Week 3	22-05-2024	11:04:31	17.589	95.6	7.37	53744	8.22	167.2	-0.02	0.3	2.01	24.312
Week 3	22-05-2024	11:04:32	17.59	95.5	7.37	53746	8.22	167.2	-0.02	0.28	1.93	24.35
Week 3	22-05-2024	11:04:33	17.59	95.5	7.36	53749	8.22	167.2	-0.03	0.28	1.91	24.403
Week 3	22-05-2024	11:04:34	17.591	95.4	7.36	53751	8.22	167.2	-0.02	0.26	1.87	25.061
Week 3	22-05-2024	11:04:35	17.591	95.4	7.36	53753	8.22	167.2	-0.02	0.26	1.87	25.384
Week 3	22-05-2024	11:04:36	17.592	95.3	7.35	53755	8.22	167.1	-0.01	0.25	1.83	25.671
Week 3	22-05-2024	11:04:37	17.592	95.3	7.35	53757	8.21	167.1	-0.01	0.24	1.78	25.669
Week 3	22-05-2024	11:04:38	17.593	95.2	7.34	53759	8.21	167.1	-0.01	0.23	1.75	25.713
Week 3	22-05-2024	11:04:39	17.593	95.2	7.34	53761	8.21	167.1	-0.01	0.21	1.69	25.854
Week 3	22-05-2024	11:04:40	17.593	95.1	7.33	53763	8.21	167.1	0	0.21	1.68	25.985
Week 3	22-05-2024	11:04:41	17.594	95.1	7.33	53764	8.21	167	0	0.22	1.71	26.078
Week 3	22-05-2024	11:04:42	17.594	95	7.32	53765	8.21	167	0.01	0.22	1.72	26.163
Week 3	22-05-2024	11:04:43	17.594	95	7.32	53766	8.21	167	0.01	0.23	1.74	26.238
Week 3	22-05-2024	11:04:44	17.594	94.9	7.32	53766	8.21	167	0.04	0.24	1.78	27
Week 3	22-05-2024	11:04:45	17.594	94.8	7.31	53767	8.21	167	0.2	0.26	1.87	26.955
Week 3	22-05-2024	11:04:46	17.595	94.8	7.31	53767	8.21	167	0.27	0.26	1.87	26.94
Week 3	22-05-2024	11:04:47	17.595	94.8	7.31	53767	8.21	166.9	0.27	0.27	1.89	26.935

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 3	22-05-2024	11:04:48	17.595	94.7	7.3	53767	8.21	166.9	0.3	0.28	1.95	26.884
Week 3	22-05-2024	11:04:49	17.595	94.7	7.3	53767	8.21	166.9	0.37	0.3	2.02	26.856
Week 3	22-05-2024	11:04:50	17.596	94.6	7.3	53767	8.21	166.9	0.35	0.31	2.05	26.783
Week 3	22-05-2024	11:04:51	17.596	94.6	7.29	53767	8.21	166.9	0.36	0.32	2.08	25.854
Week 3	22-05-2024	11:04:52	17.596	94.6	7.29	53767	8.21	166.8	0.37	0.33	2.1	25.396
Week 3	22-05-2024	11:04:53	17.596	94.5	7.29	53767	8.21	166.8	0.36	0.32	2.08	24.913
Week 3	22-05-2024	11:04:54	17.596	94.5	7.29	53766	8.21	166.8	0.35	0.31	2.05	24.934
Week 3	22-05-2024	11:04:55	17.596	94.5	7.29	53766	8.21	166.8	0.35	0.3	2.02	24.964
Week 3	22-05-2024	11:04:56	17.595	94.5	7.28	53766	8.21	166.8	0.34	0.29	1.95	24.856
Week 3	22-05-2024	11:04:57	17.595	94.5	7.28	53766	8.21	166.7	0.34	0.28	1.93	24.716
Week 3	22-05-2024	11:04:58	17.595	94.5	7.28	53766	8.21	166.7	0.34	0.29	1.96	24.598
Week 3	22-05-2024	11:04:59	17.595	94.4	7.28	53765	8.21	166.7	0.24	0.3	1.99	24.501
Week 3	22-05-2024	11:05:00	17.595	94.4	7.28	53765	8.21	166.7	0.09	0.28	1.93	23.604
Week 3	22-05-2024	11:05:01	17.595	94.4	7.28	53764	8.21	166.7	0.08	0.28	1.93	23.603
Week 3	22-05-2024	11:05:02	17.594	94.4	7.28	53763	8.21	166.6	0.07	0.3	2	22.953
Week 3	22-05-2024	11:05:03	17.594	94.4	7.28	53761	8.21	166.6	0.04	0.31	2.04	22.961
Week 3	22-05-2024	11:05:04	17.593	94.4	7.28	53760	8.21	166.6	0.01	0.33	2.1	23.006
Week 3	22-05-2024	11:05:05	17.593	94.4	7.28	53758	8.21	166.6	0.01	0.34	2.15	22.933
Week 3	22-05-2024	11:05:06	17.592	94.4	7.28	53755	8.21	166.6	0	0.35	2.19	22.805
Week 3	22-05-2024	11:05:07	17.592	94.5	7.28	53754	8.21	166.5	0	0.36	2.22	22.72
Week 3	22-05-2024	11:05:08	17.592	94.5	7.28	53751	8.21	166.5	0	0.36	2.24	21.829
Week 3	22-05-2024	11:05:09	17.591	94.5	7.29	53749	8.21	166.5	-0.01	0.37	2.26	21.492
Week 3	22-05-2024	11:05:10	17.591	94.5	7.29	53747	8.21	166.5	0	0.37	2.27	21.348
Week 3	22-05-2024	11:05:11	17.59	94.6	7.29	53745	8.21	166.5	0	0.37	2.27	21.371
Week 3	22-05-2024	11:05:12	17.59	94.6	7.29	53743	8.21	166.4	0	0.38	2.29	21.15
Week 3	22-05-2024	11:05:13	17.589	94.6	7.3	53741	8.21	166.4	0	0.38	2.3	20.829
Week 3	22-05-2024	11:05:14	17.588	94.7	7.3	53739	8.22	166.4	-0.01	0.38	2.28	19.804
Week 3	22-05-2024	11:05:15	17.588	94.7	7.3	53738	8.22	166.4	-0.01	0.39	2.32	19.324
Week 3	22-05-2024	11:05:16	17.588	94.8	7.31	53737	8.22	166.4	-0.01	0.39	2.35	19.407
Week 3	22-05-2024	11:05:17	17.587	94.8	7.31	53736	8.22	166.3	-0.02	0.41	2.39	19.089
Week 3	22-05-2024	11:05:18	17.587	94.9	7.31	53735	8.22	166.3	-0.02	0.43	2.46	18.983
Week 3	22-05-2024	11:05:19	17.587	94.9	7.32	53734	8.22	166.3	-0.02	0.43	2.49	18.79
Week 3	22-05-2024	11:05:20	17.587	94.9	7.32	53733	8.22	166.3	-0.02	0.45	2.56	18.569
Week 3	22-05-2024	11:05:21	17.586	95	7.33	53733	8.22	166.3	-0.02	0.46	2.57	18.39
Week 3	22-05-2024	11:05:22	17.586	95	7.33	53732	8.22	166.2	-0.02	0.48	2.65	17.363
Week 3	22-05-2024	11:05:23	17.586	95.1	7.33	53731	8.22	166.2	-0.02	0.49	2.68	17.303
Week 3	22-05-2024	11:05:24	17.586	95.1	7.34	53731	8.22	166.2	-0.02	0.5	2.74	16.827
Week 3	22-05-2024	11:05:25	17.586	95.2	7.34	53730	8.22	166.2	-0.02	0.53	2.83	16.659
Week 3	22-05-2024	11:05:26	17.586	95.2	7.34	53729	8.22	166.2	0	0.53	2.83	16.745
Week 3	22-05-2024	11:05:27	17.586	95.3	7.35	53729	8.22	166.1	0	0.54	2.88	16.698
Week 3	22-05-2024	11:05:28	17.586	95.3	7.35	53728	8.22	166.1	0	0.55	2.9	16.535
Week 3	22-05-2024	11:05:29	17.586	95.3	7.35	53727	8.22	166.1	0	0.54	2.88	16.392
Week 3	22-05-2024	11:05:30	17.586	95.4	7.36	53727	8.22	166.1	-0.02	0.55	2.9	16.286
Week 3	22-05-2024	11:05:31	17.586	95.4	7.36	53727	8.22	166.1	-0.01	0.54	2.88	15.392
Week 3	22-05-2024	11:05:32	17.587	95.5	7.36	53726	8.22	166.1	-0.02	0.54	2.89	15.2
Week 3	22-05-2024	11:05:33	17.587	95.5	7.36	53726	8.22	166	-0.01	0.53	2.85	15.047
Week 3	22-05-2024	11:05:34	17.587	95.5	7.37	53726	8.22	166	-0.02	0.54	2.89	15.034
Week 3	22-05-2024	11:05:35	17.587	95.6	7.37	53726	8.22	166	-0.02	0.53	2.85	14.952
Week 3	22-05-2024	11:05:36	17.587	95.6	7.37	53726	8.22	166	-0.02	0.53	2.83	14.709
Week 3	22-05-2024	11:05:37	17.588	95.6	7.37	53726	8.22	166	-0.02	0.54	2.86	14.54
Week 3	22-05-2024	11:05:38	17.588	95.6	7.38	53725	8.22	165.9	-0.02	0.54	2.86	14.4
Week 3	22-05-2024	11:05:39	17.588	95.7	7.38	53725	8.22	165.9	-0.02	0.54	2.87	13.639
Week 3	22-05-2024	11:05:40	17.589	95.7	7.38	53725	8.22	165.9	-0.02	0.55	2.91	13.453
Week 3	22-05-2024	11:05:41	17.589	95.7	7.38	53725	8.22	165.9	-0.02	0.57	2.97	13.044
Week 3	22-05-2024	11:05:42	17.589	95.8	7.38	53725	8.22	166	-0.03	0.57	2.98	12.993
Week 3	22-05-2024	11:05:43	17.59	95.8	7.39	53725	8.22	166.2	-0.03	0.56	2.95	12.933
Week 3	22-05-2024	11:05:44	17.59	95.8	7.39	53724	8.22	166.3	-0.02	0.56	2.96	12.713
Week 3	22-05-2024	11:05:45	17.591	95.8	7.39	53724	8.22	166.3	-0.02	0.56	2.95	12.583
Week 3	22-05-2024	11:05:46	17.591	95.9	7.39	53724	8.22	166.4	-0.02	0.56	2.95	12.483
Week 3	22-05-2024	11:05:47	17.591	95.9	7.39	53724	8.22	166.5	-0.02	0.56	2.93	12.36
Week 3	22-05-2024	11:05:48	17.592	95.9	7.4	53724	8.22	166.6	-0.02	0.55	2.92	11.231
Week 3	22-05-2024	11:05:49	17.592	95.9	7.4	53724	8.22	166.7	-0.01	0.54	2.89	11.267
Week 3	22-05-2024	11:05:50	17.592	96	7.4	53724	8.22	166.8	0	0.54	2.86	10.912
Week 3	22-05-2024	11:05:51	17.592	96	7.4	53724	8.22	166.9	0	0.53	2.82	10.819
Week 3	22-05-2024	11:05:52	17.593	96	7.4	53724	8.22	167	-0.01	0.52	2.8	10.597
Week 3	22-05-2024	11:05:53	17.593	96	7.4	53723	8.22	167.1	-0.01	0.52	2.82	10.393
Week 3	22-05-2024	11:05:54	17.593	96	7.41	53723	8.22	167.2	-0.01	0.53	2.83	10.23

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 3	22-05-2024	11:05:55	17.593	96.1	7.41	53723	8.22	167.3	-0.01	0.53	2.85	9.162
Week 3	22-05-2024	11:05:56	17.593	96.1	7.41	53723	8.22	167.4	-0.01	0.55	2.89	8.826
Week 3	22-05-2024	11:05:57	17.593	96.1	7.41	53723	8.22	167.5	-0.01	0.53	2.85	8.626
Week 3	22-05-2024	11:05:58	17.593	96.1	7.41	53723	8.22	167.5	-0.02	0.52	2.79	8.643
Week 3	22-05-2024	11:05:59	17.593	96.1	7.41	53723	8.22	167.6	-0.02	0.52	2.8	8.526
Week 3	22-05-2024	11:06:00	17.594	96.2	7.42	53722	8.22	167.7	-0.03	0.5	2.74	8.291
Week 3	22-05-2024	11:06:01	17.594	96.2	7.42	53722	8.22	167.8	-0.03	0.5	2.72	8.07
Week 3	22-05-2024	11:06:02	17.594	96.2	7.42	53722	8.22	167.9	-0.04	0.49	2.68	7.879
Week 3	22-05-2024	11:06:03	17.594	96.2	7.42	53721	8.22	168	-0.04	0.45	2.56	6.826
Week 3	22-05-2024	11:06:04	17.594	96.3	7.42	53721	8.22	167.9	-0.05	0.44	2.5	6.604
Week 3	22-05-2024	11:06:05	17.595	96.3	7.42	53721	8.22	167.9	-0.05	0.42	2.46	6.721
Week 3	22-05-2024	11:06:06	17.595	96.3	7.42	53720	8.22	167.9	-0.05	0.41	2.41	6.571
Week 3	22-05-2024	11:06:07	17.595	96.3	7.43	53720	8.22	167.8	-0.03	0.4	2.38	6.406
Week 3	22-05-2024	11:06:08	17.595	96.3	7.43	53720	8.22	167.8	-0.02	0.41	2.4	6.392
Week 3	22-05-2024	11:06:09	17.596	96.3	7.43	53720	8.22	167.8	-0.03	0.41	2.41	6.372
Week 3	22-05-2024	11:06:10	17.596	96.4	7.43	53720	8.22	167.7	-0.03	0.39	2.32	6.34
Week 3	22-05-2024	11:06:11	17.596	96.4	7.43	53719	8.22	167.7	-0.02	0.38	2.31	6.352
Week 3	22-05-2024	11:06:12	17.596	96.4	7.43	53719	8.22	167.7	-0.02	0.39	2.33	6.329
Week 3	22-05-2024	11:06:13	17.596	96.4	7.43	53719	8.22	167.7	-0.02	0.38	2.3	6.301
Week 3	22-05-2024	11:06:14	17.597	96.4	7.43	53719	8.22	167.6	-0.02	0.4	2.37	6.278
Week 3	22-05-2024	11:06:15	17.597	96.4	7.43	53719	8.22	167.6	-0.01	0.4	2.35	6.228
Week 3	22-05-2024	11:06:16	17.597	96.4	7.43	53719	8.22	167.6	-0.01	0.39	2.34	6.197
Week 3	22-05-2024	11:06:17	17.597	96.4	7.43	53719	8.22	167.6	-0.01	0.39	2.32	6.152
Week 3	22-05-2024	11:06:18	17.598	96.4	7.43	53719	8.22	167.5	-0.01	0.37	2.25	6.116
Week 3	22-05-2024	11:06:19	17.598	96.4	7.43	53719	8.22	167.5	0	0.34	2.16	5.298
Week 3	22-05-2024	11:06:20	17.598	96.4	7.44	53720	8.22	167.5	-0.01	0.33	2.13	5.467
Week 3	22-05-2024	11:06:21	17.598	96.4	7.44	53719	8.22	167.5	-0.02	0.35	2.17	4.574
Week 3	22-05-2024	11:06:22	17.598	96.5	7.44	53719	8.22	167.5	-0.02	0.36	2.23	4.018
Week 3	22-05-2024	11:06:23	17.599	96.5	7.44	53720	8.22	167.4	-0.02	0.35	2.18	4.066
Week 3	22-05-2024	11:06:24	17.599	96.5	7.44	53720	8.22	167.4	-0.01	0.34	2.16	3.082
Week 3	22-05-2024	11:06:25	17.599	96.5	7.44	53719	8.22	167.4	-0.03	0.33	2.09	2.752
Week 3	22-05-2024	11:06:26	17.599	96.5	7.44	53719	8.22	167.4	-0.03	0.33	2.11	2.766
Week 3	22-05-2024	11:06:27	17.6	96.5	7.44	53719	8.22	167.3	-0.04	0.32	2.07	2.371
Week 3	22-05-2024	11:06:28	17.6	96.5	7.44	53719	8.22	167.3	-0.05	0.32	2.09	2.265
Week 3	22-05-2024	11:06:29	17.601	96.6	7.44	53718	8.22	167.3	-0.04	0.32	2.06	2.201
Week 3	22-05-2024	11:06:30	17.601	96.6	7.45	53718	8.22	167.3	-0.04	0.32	2.09	2.166
Week 3	22-05-2024	11:06:31	17.602	96.6	7.45	53717	8.22	167.3	-0.04	0.32	2.07	2.097
Week 3	22-05-2024	11:06:32	17.602	96.6	7.45	53717	8.22	167.2	-0.05	0.3	2.01	2.028
Week 3	22-05-2024	11:06:33	17.603	96.6	7.45	53717	8.22	167.2	-0.04	0.29	1.96	1.947
Week 3	22-05-2024	11:06:34	17.603	96.6	7.45	53717	8.22	167.2	-0.01	0.28	1.95	1.863
Week 3	22-05-2024	11:06:35	17.604	96.6	7.45	53715	8.22	167.2	0.04	0.28	1.92	1.785
Week 3	22-05-2024	11:06:36	17.605	96.6	7.45	53712	8.22	167.2	0.04	0.28	1.93	0.895
Week 3	22-05-2024	11:06:37	17.606	96.7	7.45	53710	8.22	167.1	0.06	0.27	1.89	0.634
Week 3	22-05-2024	11:06:38	17.606	96.7	7.45	53708	8.22	167.1	0.09	0.27	1.9	0.387
Week 3	22-05-2024	11:06:39	17.607	96.7	7.45	53704	8.22	167.1	0.2	0.26	1.85	0.159
Week 3	22-05-2024	11:06:40	17.608	96.7	7.46	53700	8.22	167.1	0.31	0.27	1.9	0.093
Week 4	27-05-2024	11:02:59	17.433	100.3	7.78	53589	8.11	127.4	8.06	0.35	2.19	0.075
Week 4	27-05-2024	11:03:00	17.433	100.1	7.75	53590	8.12	127.7	7.69	0.31	2.05	0.077
Week 4	27-05-2024	11:03:01	17.437	99.9	7.73	53647	8.13	128	7.26	0.31	2.03	0.081
Week 4	27-05-2024	11:03:02	17.435	99.7	7.71	53639	8.14	128.2	6.88	0.28	1.93	0.084
Week 4	27-05-2024	11:03:03	17.435	99.4	7.69	53638	8.14	128.3	6.49	0.25	1.82	0.088
Week 4	27-05-2024	11:03:04	17.436	99.3	7.68	53642	8.15	128.4	6.1	0.21	1.69	0.092
Week 4	27-05-2024	11:03:05	17.439	99.1	7.66	53647	8.15	128.5	5.72	0.21	1.68	0.099
Week 4	27-05-2024	11:03:06	17.442	98.9	7.65	53651	8.15	128.5	5.3	0.17	1.52	0.109
Week 4	27-05-2024	11:03:07	17.443	98.7	7.64	53655	8.15	128.6	4.92	0.14	1.43	0.119
Week 4	27-05-2024	11:03:08	17.445	98.6	7.63	53657	8.16	128.6	4.55	0.13	1.4	0.13
Week 4	27-05-2024	11:03:09	17.445	98.4	7.61	53659	8.16	128.7	4.17	0.13	1.38	0.143
Week 4	27-05-2024	11:03:10	17.446	98.3	7.6	53661	8.16	128.7	3.78	0.14	1.42	0.156
Week 4	27-05-2024	11:03:11	17.447	98.1	7.59	53662	8.16	128.7	-0.1	0.14	1.43	0.164
Week 4	27-05-2024	11:03:12	17.448	97.9	7.58	53663	8.16	128.8	-0.1	0.13	1.38	0.172
Week 4	27-05-2024	11:03:13	17.448	97.9	7.57	53665	8.16	128.8	-0.1	0.13	1.37	0.19
Week 4	27-05-2024	11:03:14	17.449	97.6	7.55	53666	8.16	128.8	-0.09	0.12	1.35	1.079
Week 4	27-05-2024	11:03:15	17.45	97.2	7.52	53668	8.16	128.9	-0.09	0.11	1.3	1.174
Week 4	27-05-2024	11:03:16	17.452	97.1	7.51	53671	8.17	128.9	-0.09	0.11	1.32	1.455
Week 4	27-05-2024	11:03:17	17.453	96.9	7.49	53673	8.17	128.9	-0.08	0.12	1.35	1.525
Week 4	27-05-2024	11:03:18	17.454	96.5	7.47	53675	8.17	128.9	-0.08	0.12	1.36	1.5
Week 4	27-05-2024	11:03:19	17.454	96.5	7.46	53677	8.17	129	-0.08	0.12	1.36	1.561

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 4	27-05-2024	11:03:20	17.454	96.2	7.44	53679	8.17	129	-0.07	0.12	1.34	1.618
Week 4	27-05-2024	11:03:21	17.455	96	7.42	53680	8.18	129	-0.06	0.13	1.38	1.72
Week 4	27-05-2024	11:03:22	17.455	95.9	7.41	53682	8.18	129	-0.06	0.13	1.39	1.836
Week 4	27-05-2024	11:03:23	17.455	95.7	7.4	53683	8.18	129.1	-0.06	0.13	1.4	1.927
Week 4	27-05-2024	11:03:24	17.456	95.5	7.38	53684	8.18	129.1	-0.06	0.12	1.36	2.019
Week 4	27-05-2024	11:03:25	17.456	95.4	7.38	53685	8.18	129.2	-0.04	0.12	1.34	2.961
Week 4	27-05-2024	11:03:26	17.456	95.3	7.37	53686	8.18	129.2	-0.03	0.11	1.32	3.132
Week 4	27-05-2024	11:03:27	17.456	95.1	7.35	53687	8.18	129.2	-0.04	0.1	1.29	3.008
Week 4	27-05-2024	11:03:28	17.456	95	7.35	53688	8.18	129.3	-0.04	0.09	1.25	3.055
Week 4	27-05-2024	11:03:29	17.456	94.9	7.34	53689	8.18	129.3	-0.03	0.09	1.25	3.207
Week 4	27-05-2024	11:03:30	17.457	94.8	7.33	53689	8.18	129.3	-0.02	0.08	1.22	3.26
Week 4	27-05-2024	11:03:31	17.457	94.7	7.32	53690	8.18	129.4	-0.03	0.09	1.25	3.316
Week 4	27-05-2024	11:03:32	17.457	94.6	7.32	53691	8.19	129.4	-0.03	0.09	1.25	3.351
Week 4	27-05-2024	11:03:33	17.457	94.5	7.31	53692	8.19	129.4	-0.02	0.08	1.2	3.407
Week 4	27-05-2024	11:03:34	17.457	94.5	7.3	53693	8.19	129.4	-0.02	0.07	1.18	3.456
Week 4	27-05-2024	11:03:35	17.457	94.4	7.3	53693	8.19	129.5	-0.03	0.08	1.21	3.536
Week 4	27-05-2024	11:03:36	17.457	94.2	7.29	53693	8.19	129.5	-0.02	0.08	1.2	3.607
Week 4	27-05-2024	11:03:37	17.457	94.2	7.28	53693	8.19	129.5	-0.03	0.09	1.23	4.494
Week 4	27-05-2024	11:03:38	17.457	94.1	7.28	53694	8.19	129.5	-0.03	0.1	1.29	4.241
Week 4	27-05-2024	11:03:39	17.458	94.1	7.27	53694	8.19	129.6	-0.04	0.1	1.29	4.453
Week 4	27-05-2024	11:03:40	17.458	94	7.27	53695	8.19	129.6	-0.05	0.1	1.27	4.486
Week 4	27-05-2024	11:03:41	17.458	93.9	7.26	53695	8.19	129.6	-0.05	0.09	1.24	4.513
Week 4	27-05-2024	11:03:42	17.458	93.9	7.26	53696	8.19	129.6	-0.03	0.09	1.24	4.619
Week 4	27-05-2024	11:03:43	17.458	93.8	7.25	53696	8.19	129.7	-0.03	0.08	1.21	4.722
Week 4	27-05-2024	11:03:44	17.458	93.8	7.25	53696	8.19	129.7	-0.04	0.09	1.25	4.792
Week 4	27-05-2024	11:03:45	17.458	93.7	7.25	53696	8.19	129.7	-0.04	0.08	1.21	4.84
Week 4	27-05-2024	11:03:46	17.458	93.7	7.24	53695	8.19	129.7	-0.04	0.08	1.21	4.876
Week 4	27-05-2024	11:03:47	17.457	93.6	7.24	53696	8.19	129.7	-0.05	0.09	1.25	4.905
Week 4	27-05-2024	11:03:48	17.457	93.6	7.23	53696	8.19	129.8	-0.04	0.09	1.23	4.951
Week 4	27-05-2024	11:03:49	17.457	93.5	7.23	53697	8.19	129.8	-0.05	0.07	1.16	5.833
Week 4	27-05-2024	11:03:50	17.457	93.5	7.23	53697	8.19	129.8	-0.04	0.07	1.17	5.932
Week 4	27-05-2024	11:03:51	17.457	93.4	7.22	53697	8.19	129.8	-0.04	0.08	1.19	6.022
Week 4	27-05-2024	11:03:52	17.457	93.4	7.22	53697	8.19	129.8	-0.03	0.09	1.25	6.158
Week 4	27-05-2024	11:03:53	17.456	93.4	7.22	53697	8.19	129.9	-0.02	0.1	1.27	6.265
Week 4	27-05-2024	11:03:54	17.456	93.3	7.22	53698	8.19	129.9	-0.01	0.1	1.27	6.341
Week 4	27-05-2024	11:03:55	17.456	93.3	7.21	53698	8.19	129.9	-0.01	0.1	1.28	6.396
Week 4	27-05-2024	11:03:56	17.456	93.2	7.21	53698	8.19	129.9	-0.02	0.09	1.26	6.476
Week 4	27-05-2024	11:03:57	17.456	93.2	7.21	53698	8.19	130	-0.04	0.09	1.26	6.541
Week 4	27-05-2024	11:03:58	17.456	93.2	7.21	53699	8.19	130	-0.04	0.11	1.3	6.623
Week 4	27-05-2024	11:03:59	17.456	93.1	7.2	53699	8.19	130	-0.03	0.11	1.32	6.695
Week 4	27-05-2024	11:04:00	17.456	93.1	7.2	53700	8.19	130	-0.03	0.11	1.32	7.444
Week 4	27-05-2024	11:04:01	17.456	93.1	7.2	53700	8.19	130	-0.03	0.12	1.34	7.602
Week 4	27-05-2024	11:04:02	17.457	93.1	7.2	53700	8.19	130.1	-0.03	0.12	1.37	7.604
Week 4	27-05-2024	11:04:03	17.457	93	7.19	53701	8.19	130.1	-0.03	0.11	1.33	7.621
Week 4	27-05-2024	11:04:04	17.457	93	7.19	53701	8.19	130.1	-0.02	0.12	1.35	7.625
Week 4	27-05-2024	11:04:05	17.457	93	7.19	53702	8.19	130.1	-0.02	0.12	1.34	7.749
Week 4	27-05-2024	11:04:06	17.457	93	7.19	53702	8.19	130.1	-0.01	0.11	1.32	7.862
Week 4	27-05-2024	11:04:07	17.457	93	7.19	53702	8.19	130.2	-0.02	0.12	1.35	7.969
Week 4	27-05-2024	11:04:08	17.457	92.9	7.19	53703	8.19	130.2	-0.02	0.15	1.46	8.048
Week 4	27-05-2024	11:04:09	17.457	92.9	7.18	53703	8.19	130.2	-0.03	0.14	1.43	8.136
Week 4	27-05-2024	11:04:10	17.457	92.9	7.18	53704	8.19	130.2	0.02	0.15	1.46	8.175
Week 4	27-05-2024	11:04:11	17.457	92.9	7.18	53704	8.19	130.2	0.02	0.17	1.55	8.223
Week 4	27-05-2024	11:04:12	17.457	92.9	7.18	53704	8.19	130.3	0.03	0.17	1.54	8.261
Week 4	27-05-2024	11:04:13	17.457	92.9	7.18	53705	8.2	130.3	0.01	0.17	1.54	8.303
Week 4	27-05-2024	11:04:14	17.457	92.8	7.18	53705	8.2	130.3	0.02	0.17	1.54	8.33
Week 4	27-05-2024	11:04:15	17.457	92.8	7.18	53705	8.2	130.3	0.01	0.17	1.52	8.355
Week 4	27-05-2024	11:04:16	17.457	92.8	7.18	53705	8.2	130.4	0.02	0.19	1.59	8.381
Week 4	27-05-2024	11:04:17	17.457	92.8	7.17	53705	8.2	130.4	-0.01	0.2	1.64	8.4
Week 4	27-05-2024	11:04:18	17.457	92.8	7.17	53705	8.2	130.4	-0.01	0.2	1.66	8.416
Week 4	27-05-2024	11:04:19	17.457	92.8	7.17	53705	8.2	130.4	-0.03	0.21	1.66	8.424
Week 4	27-05-2024	11:04:20	17.457	92.8	7.17	53705	8.2	130.4	-0.04	0.21	1.69	8.441
Week 4	27-05-2024	11:04:21	17.457	92.8	7.17	53705	8.2	130.5	-0.04	0.21	1.69	8.457
Week 4	27-05-2024	11:04:22	17.457	92.8	7.17	53705	8.2	130.5	-0.05	0.22	1.73	8.471
Week 4	27-05-2024	11:04:23	17.457	92.7	7.17	53705	8.2	130.5	-0.05	0.22	1.73	8.476
Week 4	27-05-2024	11:04:24	17.457	92.7	7.17	53705	8.2	130.5	-0.05	0.23	1.75	8.479
Week 4	27-05-2024	11:04:25	17.457	92.7	7.17	53705	8.2	130.5	-0.05	0.24	1.77	8.479
Week 4	27-05-2024	11:04:26	17.458	92.7	7.17	53705	8.2	130.6	-0.05	0.25	1.84	8.482

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 4	27-05-2024	11:04:27	17.458	92.7	7.17	53705	8.2	130.6	-0.06	0.25	1.81	8.486
Week 4	27-05-2024	11:04:28	17.458	92.7	7.17	53705	8.2	130.6	-0.05	0.24	1.78	8.492
Week 4	27-05-2024	11:04:29	17.458	92.7	7.17	53705	8.2	130.6	-0.05	0.25	1.81	8.503
Week 4	27-05-2024	11:04:30	17.458	92.7	7.16	53705	8.2	130.6	-0.05	0.24	1.78	8.519
Week 4	27-05-2024	11:04:31	17.458	92.7	7.16	53705	8.2	130.7	-0.05	0.24	1.77	8.528
Week 4	27-05-2024	11:04:32	17.458	92.6	7.16	53705	8.2	130.7	-0.05	0.23	1.73	8.531
Week 4	27-05-2024	11:04:33	17.458	92.6	7.16	53705	8.2	130.7	-0.05	0.22	1.7	8.535
Week 4	27-05-2024	11:04:34	17.458	92.6	7.16	53706	8.2	130.7	-0.05	0.23	1.73	8.533
Week 4	27-05-2024	11:04:35	17.457	92.6	7.16	53705	8.2	130.7	-0.04	0.23	1.75	8.533
Week 4	27-05-2024	11:04:36	17.457	92.6	7.16	53706	8.2	130.8	-0.04	0.21	1.69	8.538
Week 4	27-05-2024	11:04:37	17.457	92.6	7.16	53706	8.2	130.8	-0.04	0.2	1.63	8.546
Week 4	27-05-2024	11:04:38	17.457	92.6	7.16	53706	8.2	130.8	-0.04	0.19	1.62	8.554
Week 4	27-05-2024	11:04:39	17.457	92.6	7.16	53707	8.2	130.8	-0.04	0.2	1.63	8.566
Week 4	27-05-2024	11:04:40	17.457	92.6	7.16	53707	8.2	130.8	-0.04	0.19	1.61	8.579
Week 4	27-05-2024	11:04:41	17.457	92.6	7.16	53706	8.2	130.8	-0.03	0.18	1.58	8.611
Week 4	27-05-2024	11:04:42	17.457	92.5	7.16	53706	8.2	130.9	-0.03	0.19	1.59	8.643
Week 4	27-05-2024	11:04:43	17.457	92.5	7.16	53706	8.2	130.9	-0.03	0.19	1.6	8.667
Week 4	27-05-2024	11:04:44	17.457	92.5	7.16	53707	8.2	130.9	-0.03	0.19	1.59	8.684
Week 4	27-05-2024	11:04:45	17.457	92.5	7.15	53707	8.2	130.9	-0.03	0.19	1.62	8.697
Week 4	27-05-2024	11:04:46	17.457	92.5	7.15	53707	8.2	130.9	-0.03	0.19	1.62	8.71
Week 4	27-05-2024	11:04:47	17.457	92.5	7.15	53707	8.2	131	-0.02	0.2	1.64	8.72
Week 4	27-05-2024	11:04:48	17.457	92.5	7.15	53707	8.2	131	-0.02	0.22	1.73	8.737
Week 4	27-05-2024	11:04:49	17.457	92.5	7.15	53707	8.2	131	-0.02	0.22	1.73	8.75
Week 4	27-05-2024	11:04:50	17.457	92.5	7.15	53707	8.2	131	-0.03	0.23	1.76	8.762
Week 4	27-05-2024	11:04:51	17.457	92.5	7.15	53707	8.2	131	-0.03	0.24	1.77	8.771
Week 4	27-05-2024	11:04:52	17.457	92.5	7.15	53707	8.2	131	-0.02	0.26	1.86	8.782
Week 4	27-05-2024	11:04:53	17.457	92.5	7.15	53707	8.2	131.1	-0.02	0.26	1.85	8.794
Week 4	27-05-2024	11:04:54	17.457	92.5	7.15	53708	8.2	131.1	-0.01	0.27	1.9	8.8
Week 4	27-05-2024	11:04:55	17.457	92.5	7.15	53708	8.2	131.1	-0.01	0.28	1.92	8.81
Week 4	27-05-2024	11:04:56	17.457	92.5	7.15	53708	8.2	131.1	-0.01	0.28	1.94	8.82
Week 4	27-05-2024	11:04:57	17.457	92.5	7.15	53707	8.2	131.1	-0.01	0.29	1.95	8.836
Week 4	27-05-2024	11:04:58	17.457	92.5	7.15	53707	8.2	131.2	0	0.3	2.01	8.849
Week 4	27-05-2024	11:04:59	17.457	92.5	7.15	53707	8.2	131.2	-0.01	0.3	1.99	8.861
Week 4	27-05-2024	11:05:00	17.458	92.4	7.15	53708	8.2	131.2	-0.01	0.29	1.97	9.609
Week 4	27-05-2024	11:05:01	17.458	92.4	7.15	53708	8.2	131.2	-0.01	0.28	1.93	9.673
Week 4	27-05-2024	11:05:02	17.458	92.4	7.15	53708	8.2	131.2	0	0.27	1.89	9.785
Week 4	27-05-2024	11:05:03	17.458	92.4	7.15	53708	8.2	131.3	-0.01	0.25	1.84	9.887
Week 4	27-05-2024	11:05:04	17.459	92.4	7.15	53708	8.2	131.3	-0.02	0.25	1.82	9.858
Week 4	27-05-2024	11:05:05	17.459	92.4	7.15	53708	8.2	131.3	-0.02	0.24	1.79	9.916
Week 4	27-05-2024	11:05:06	17.459	92.4	7.14	53709	8.2	131.3	-0.02	0.25	1.82	9.976
Week 4	27-05-2024	11:05:07	17.459	92.4	7.14	53709	8.2	131.3	-0.02	0.24	1.78	10.052
Week 4	27-05-2024	11:05:08	17.459	92.4	7.14	53709	8.2	131.4	-0.04	0.24	1.77	10.952
Week 4	27-05-2024	11:05:09	17.459	92.4	7.14	53710	8.2	131.4	-0.05	0.23	1.74	11.254
Week 4	27-05-2024	11:05:10	17.459	92.4	7.14	53710	8.2	131.4	-0.06	0.23	1.74	11.268
Week 4	27-05-2024	11:05:11	17.459	92.4	7.14	53710	8.2	131.4	-0.07	0.25	1.84	11.215
Week 4	27-05-2024	11:05:12	17.459	92.4	7.14	53710	8.2	131.4	-0.07	0.26	1.87	11.311
Week 4	27-05-2024	11:05:13	17.459	92.4	7.14	53710	8.2	131.4	-0.07	0.27	1.89	11.464
Week 4	27-05-2024	11:05:14	17.459	92.4	7.14	53710	8.2	131.5	-0.06	0.29	1.97	11.556
Week 4	27-05-2024	11:05:15	17.458	92.4	7.14	53711	8.2	131.5	-0.06	0.28	1.95	11.645
Week 4	27-05-2024	11:05:16	17.458	92.3	7.14	53711	8.2	131.5	-0.06	0.28	1.95	11.721
Week 4	27-05-2024	11:05:17	17.458	92.3	7.14	53711	8.2	131.5	-0.07	0.28	1.93	12.525
Week 4	27-05-2024	11:05:18	17.458	92.3	7.14	53712	8.2	131.5	-0.06	0.3	1.99	12.769
Week 4	27-05-2024	11:05:19	17.458	92.3	7.14	53712	8.2	131.5	-0.06	0.31	2.02	12.707
Week 4	27-05-2024	11:05:20	17.458	92.3	7.14	53712	8.2	131.5	-0.07	0.31	2.03	12.744
Week 4	27-05-2024	11:05:21	17.457	92.3	7.14	53712	8.2	131.6	-0.07	0.31	2.05	12.852
Week 4	27-05-2024	11:05:22	17.457	92.3	7.14	53712	8.2	131.6	-0.08	0.3	2.01	12.995
Week 4	27-05-2024	11:05:23	17.457	92.3	7.14	53712	8.2	131.6	-0.07	0.29	1.97	13.096
Week 4	27-05-2024	11:05:24	17.457	92.3	7.14	53713	8.2	131.6	-0.07	0.29	1.98	13.214
Week 4	27-05-2024	11:05:25	17.457	92.3	7.13	53713	8.2	131.6	-0.07	0.28	1.93	14.144
Week 4	27-05-2024	11:05:26	17.457	92.3	7.13	53713	8.2	131.6	-0.07	0.29	1.97	14.26
Week 4	27-05-2024	11:05:27	17.457	92.3	7.13	53713	8.2	131.6	-0.06	0.3	2.02	14.32
Week 4	27-05-2024	11:05:28	17.458	92.3	7.13	53714	8.2	131.6	-0.08	0.3	2.01	14.397
Week 4	27-05-2024	11:05:29	17.458	92.3	7.13	53714	8.2	131.6	-0.08	0.28	1.93	14.623
Week 4	27-05-2024	11:05:30	17.458	92.2	7.13	53714	8.2	131.6	-0.09	0.27	1.89	14.834
Week 4	27-05-2024	11:05:31	17.458	92.2	7.13	53715	8.2	131.7	-0.09	0.25	1.83	15.05
Week 4	27-05-2024	11:05:32	17.458	92.2	7.13	53715	8.2	131.7	-0.09	0.24	1.79	15.191
Week 4	27-05-2024	11:05:33	17.458	92.2	7.13	53715	8.2	131.7	-0.1	0.23	1.76	15.309

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 4	27-05-2024	11:05:34	17.458	92.2	7.13	53715	8.2	131.7	-0.1	0.24	1.77	15.408
Week 4	27-05-2024	11:05:35	17.458	92.2	7.13	53716	8.2	131.7	-0.08	0.24	1.77	16.331
Week 4	27-05-2024	11:05:36	17.458	92.2	7.13	53716	8.2	131.7	-0.09	0.24	1.77	16.677
Week 4	27-05-2024	11:05:37	17.458	92.2	7.13	53716	8.2	131.7	-0.08	0.22	1.72	16.968
Week 4	27-05-2024	11:05:38	17.458	92.2	7.13	53716	8.2	131.7	-0.07	0.2	1.64	17.018
Week 4	27-05-2024	11:05:39	17.458	92.2	7.13	53717	8.2	131.7	-0.07	0.2	1.64	17.154
Week 4	27-05-2024	11:05:40	17.458	92.2	7.13	53717	8.2	131.7	-0.07	0.21	1.68	17.241
Week 4	27-05-2024	11:05:41	17.458	92.2	7.13	53717	8.2	131.6	-0.06	0.21	1.66	17.3
Week 4	27-05-2024	11:05:42	17.458	92.2	7.13	53718	8.2	131.6	-0.06	0.21	1.67	17.405
Week 4	27-05-2024	11:05:43	17.458	92.2	7.13	53718	8.2	131.6	-0.05	0.21	1.67	18.259
Week 4	27-05-2024	11:05:44	17.458	92.2	7.13	53718	8.2	131.6	-0.05	0.21	1.66	18.281
Week 4	27-05-2024	11:05:45	17.458	92.2	7.12	53719	8.2	131.6	-0.05	0.2	1.63	18.524
Week 4	27-05-2024	11:05:46	17.458	92.1	7.12	53719	8.21	131.6	-0.05	0.18	1.58	18.571
Week 4	27-05-2024	11:05:47	17.458	92.1	7.12	53719	8.21	131.6	-0.05	0.19	1.59	18.676
Week 4	27-05-2024	11:05:48	17.458	92.1	7.12	53719	8.21	131.6	-0.04	0.2	1.64	18.773
Week 4	27-05-2024	11:05:49	17.458	92.1	7.12	53719	8.21	131.6	-0.03	0.21	1.66	18.849
Week 4	27-05-2024	11:05:50	17.458	92.1	7.12	53720	8.21	131.5	-0.05	0.21	1.68	18.94
Week 4	27-05-2024	11:05:51	17.458	92.1	7.12	53720	8.21	131.5	-0.04	0.21	1.69	19.018
Week 4	27-05-2024	11:05:52	17.458	92.1	7.12	53720	8.21	131.5	-0.04	0.23	1.73	19.105
Week 4	27-05-2024	11:05:53	17.458	92.1	7.12	53720	8.21	131.5	-0.05	0.24	1.77	19.191
Week 4	27-05-2024	11:05:54	17.458	92.1	7.12	53720	8.21	131.5	-0.04	0.25	1.82	19.241
Week 4	27-05-2024	11:05:55	17.458	92.1	7.12	53721	8.21	131.5	-0.06	0.25	1.82	20.001
Week 4	27-05-2024	11:05:56	17.458	92.1	7.12	53720	8.21	131.4	-0.06	0.25	1.81	20.157
Week 4	27-05-2024	11:05:57	17.458	92.1	7.12	53720	8.21	131.4	-0.06	0.26	1.85	20.415
Week 4	27-05-2024	11:05:58	17.458	92.1	7.12	53720	8.21	131.4	-0.07	0.26	1.86	20.483
Week 4	27-05-2024	11:05:59	17.458	92.1	7.12	53720	8.21	131.4	-0.07	0.24	1.8	20.486
Week 4	27-05-2024	11:06:00	17.458	92.1	7.12	53720	8.21	131.4	-0.06	0.25	1.82	20.437
Week 4	27-05-2024	11:06:01	17.458	92.1	7.12	53720	8.21	131.4	-0.06	0.24	1.8	20.373
Week 4	27-05-2024	11:06:02	17.458	92.1	7.12	53720	8.21	131.4	-0.06	0.24	1.79	20.359
Week 4	27-05-2024	11:06:03	17.458	92.1	7.12	53720	8.21	131.4	-0.06	0.23	1.76	20.393
Week 4	27-05-2024	11:06:04	17.458	92.1	7.12	53720	8.21	131.4	-0.06	0.21	1.68	20.413
Week 4	27-05-2024	11:06:05	17.458	92.1	7.12	53720	8.22	131.4	-0.05	0.19	1.61	20.451
Week 4	27-05-2024	11:06:06	17.458	92.1	7.12	53721	8.22	131.4	-0.04	0.2	1.63	20.506
Week 4	27-05-2024	11:06:07	17.458	92	7.12	53721	8.22	131.4	-0.02	0.21	1.68	20.552
Week 4	27-05-2024	11:06:08	17.458	92	7.12	53721	8.22	131.4	-0.01	0.19	1.62	20.599
Week 4	27-05-2024	11:06:09	17.458	92	7.12	53721	8.22	131.4	-0.01	0.2	1.64	20.642
Week 4	27-05-2024	11:06:10	17.458	92	7.12	53721	8.22	131.4	0.02	0.21	1.66	20.692
Week 4	27-05-2024	11:06:11	17.458	92	7.12	53721	8.22	131.4	0.03	0.21	1.69	20.72
Week 4	27-05-2024	11:06:12	17.458	92	7.12	53722	8.22	131.4	0.03	0.21	1.68	20.742
Week 4	27-05-2024	11:06:13	17.458	92	7.12	53722	8.22	131.4	0.03	0.21	1.67	20.756
Week 4	27-05-2024	11:06:14	17.458	92	7.11	53722	8.22	131.4	0.05	0.2	1.65	20.789
Week 4	27-05-2024	11:06:15	17.458	92	7.11	53722	8.22	131.4	0.05	0.21	1.66	20.818
Week 4	27-05-2024	11:06:16	17.458	92	7.11	53722	8.22	131.4	0.06	0.21	1.67	20.863
Week 4	27-05-2024	11:06:17	17.458	92	7.11	53722	8.22	131.4	0.05	0.21	1.68	20.875
Week 4	27-05-2024	11:06:18	17.458	92	7.11	53722	8.22	131.5	0.04	0.2	1.63	21.527
Week 4	27-05-2024	11:06:19	17.458	92	7.11	53722	8.22	131.5	0.04	0.21	1.68	21.559
Week 4	27-05-2024	11:06:20	17.458	92	7.11	53722	8.22	131.5	0.03	0.2	1.64	21.503
Week 4	27-05-2024	11:06:21	17.458	92	7.11	53723	8.22	131.5	0	0.19	1.61	21.526
Week 4	27-05-2024	11:06:22	17.458	92	7.11	53723	8.22	131.5	-0.01	0.19	1.59	21.579
Week 4	27-05-2024	11:06:23	17.458	92	7.11	53723	8.22	131.5	-0.02	0.19	1.59	21.664
Week 4	27-05-2024	11:06:24	17.458	92	7.11	53723	8.22	131.5	-0.03	0.18	1.57	21.77
Week 4	27-05-2024	11:06:25	17.457	92	7.11	53723	8.22	131.5	-0.04	0.18	1.58	21.869
Week 4	27-05-2024	11:06:26	17.457	92	7.11	53723	8.22	131.6	-0.03	0.2	1.63	21.959
Week 4	27-05-2024	11:06:27	17.457	92	7.11	53723	8.22	131.6	-0.03	0.19	1.61	22.053
Week 4	27-05-2024	11:06:28	17.457	92	7.11	53723	8.22	131.6	-0.03	0.17	1.55	22.114
Week 4	27-05-2024	11:06:29	17.457	92	7.11	53723	8.22	131.6	-0.04	0.18	1.56	23.03
Week 4	27-05-2024	11:06:30	17.457	92	7.11	53723	8.22	131.6	-0.04	0.17	1.53	23.199
Week 4	27-05-2024	11:06:31	17.457	91.9	7.11	53723	8.22	131.6	-0.04	0.17	1.52	23.197
Week 4	27-05-2024	11:06:32	17.457	91.9	7.11	53724	8.22	131.6	-0.04	0.16	1.51	23.391
Week 4	27-05-2024	11:06:33	17.457	91.9	7.11	53724	8.22	131.7	-0.04	0.17	1.52	23.481
Week 4	27-05-2024	11:06:34	17.457	91.9	7.11	53723	8.22	131.7	-0.02	0.15	1.47	23.51
Week 4	27-05-2024	11:06:35	17.457	91.9	7.11	53724	8.22	131.7	-0.03	0.15	1.48	23.58
Week 4	27-05-2024	11:06:36	17.457	91.9	7.11	53724	8.22	131.7	-0.02	0.17	1.52	23.623
Week 4	27-05-2024	11:06:37	17.457	91.9	7.1	53724	8.22	131.7	-0.02	0.16	1.49	23.662
Week 4	27-05-2024	11:06:38	17.457	91.9	7.1	53724	8.22	131.7	-0.01	0.16	1.5	23.727
Week 4	27-05-2024	11:06:39	17.457	91.9	7.1	53724	8.22	131.7	-0.01	0.17	1.52	23.755
Week 4	27-05-2024	11:06:40	17.457	91.9	7.1	53724	8.22	131.7	0	0.15	1.45	23.829

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 4	27-05-2024	11:06:41	17.457	91.9	7.1	53724	8.22	131.8	-0.01	0.14	1.42	24.577
Week 4	27-05-2024	11:06:42	17.457	91.9	7.1	53724	8.22	131.8	-0.01	0.15	1.46	24.683
Week 4	27-05-2024	11:06:43	17.457	91.9	7.1	53724	8.22	131.8	-0.02	0.16	1.51	24.861
Week 4	27-05-2024	11:06:44	17.457	91.9	7.1	53724	8.22	131.8	-0.03	0.16	1.5	24.748
Week 4	27-05-2024	11:06:45	17.457	91.9	7.1	53725	8.22	131.8	-0.03	0.17	1.52	24.748
Week 4	27-05-2024	11:06:46	17.457	91.9	7.1	53725	8.22	131.8	-0.04	0.18	1.56	24.722
Week 4	27-05-2024	11:06:47	17.457	91.8	7.1	53725	8.22	131.8	-0.04	0.17	1.55	24.727
Week 4	27-05-2024	11:06:48	17.457	91.8	7.1	53725	8.22	131.9	-0.05	0.18	1.56	24.805
Week 4	27-05-2024	11:06:49	17.457	91.8	7.1	53725	8.22	131.9	-0.06	0.18	1.56	24.908
Week 4	27-05-2024	11:06:50	17.457	91.8	7.1	53725	8.22	131.9	-0.07	0.18	1.58	25.819
Week 4	27-05-2024	11:06:51	17.457	91.8	7.1	53725	8.22	131.9	-0.07	0.2	1.63	25.759
Week 4	27-05-2024	11:06:52	17.457	91.8	7.1	53725	8.22	131.9	-0.07	0.2	1.63	26.011
Week 4	27-05-2024	11:06:53	17.457	91.8	7.1	53726	8.22	131.9	-0.08	0.18	1.57	25.945
Week 4	27-05-2024	11:06:54	17.457	91.8	7.1	53726	8.22	131.9	-0.08	0.19	1.6	26.086
Week 4	27-05-2024	11:06:55	17.457	91.8	7.1	53726	8.22	131.9	-0.09	0.19	1.61	26.288
Week 4	27-05-2024	11:06:56	17.457	91.8	7.1	53726	8.22	132	-0.08	0.19	1.62	26.434
Week 4	27-05-2024	11:06:57	17.457	91.8	7.1	53726	8.22	132	-0.08	0.17	1.53	26.586
Week 4	27-05-2024	11:06:58	17.457	91.8	7.1	53726	8.22	132	-0.08	0.18	1.56	26.696
Week 4	27-05-2024	11:06:59	17.457	91.8	7.09	53726	8.22	132	-0.07	0.18	1.56	26.772
Week 4	27-05-2024	11:07:00	17.457	91.8	7.09	53726	8.22	132	-0.07	0.18	1.55	26.842
Week 4	27-05-2024	11:07:01	17.457	91.7	7.09	53726	8.22	132	-0.07	0.17	1.54	26.928
Week 4	27-05-2024	11:07:02	17.457	91.7	7.09	53726	8.22	132	-0.08	0.17	1.54	27.789
Week 4	27-05-2024	11:07:03	17.457	91.7	7.09	53726	8.22	132	-0.08	0.2	1.65	27.931
Week 4	27-05-2024	11:07:04	17.457	91.7	7.09	53726	8.22	132.1	-0.08	0.22	1.71	27.967
Week 4	27-05-2024	11:07:05	17.457	91.7	7.09	53726	8.22	132.1	-0.08	0.21	1.69	27.972
Week 4	27-05-2024	11:07:06	17.457	91.7	7.09	53726	8.22	132.1	-0.07	0.22	1.71	27.972
Week 4	27-05-2024	11:07:07	17.457	91.7	7.09	53727	8.22	132.1	0.04	0.22	1.71	27.911
Week 4	27-05-2024	11:07:08	17.457	91.7	7.09	53727	8.22	132.1	0.13	0.24	1.79	27.761
Week 4	27-05-2024	11:07:09	17.457	91.7	7.09	53726	8.22	132.1	0.15	0.24	1.77	27.712
Week 4	27-05-2024	11:07:10	17.457	91.7	7.09	53727	8.22	132.1	0.15	0.23	1.75	27.569
Week 4	27-05-2024	11:07:11	17.457	91.7	7.09	53727	8.22	132.1	0.14	0.24	1.79	26.561
Week 4	27-05-2024	11:07:12	17.457	91.7	7.09	53727	8.22	132.1	0.14	0.24	1.8	26.706
Week 4	27-05-2024	11:07:13	17.457	91.7	7.09	53727	8.22	132.2	0.15	0.23	1.75	26.428
Week 4	27-05-2024	11:07:14	17.457	91.7	7.09	53726	8.22	132.2	0.16	0.21	1.68	26.335
Week 4	27-05-2024	11:07:15	17.456	91.7	7.09	53727	8.22	132.2	0.15	0.21	1.66	26.34
Week 4	27-05-2024	11:07:16	17.456	91.8	7.09	53727	8.22	132.2	0.16	0.18	1.57	26.308
Week 4	27-05-2024	11:07:17	17.456	91.8	7.09	53727	8.22	132.2	0.17	0.16	1.51	26.275
Week 4	27-05-2024	11:07:18	17.456	91.8	7.09	53727	8.22	132.2	0.17	0.17	1.53	26.244
Week 4	27-05-2024	11:07:19	17.456	91.8	7.1	53727	8.22	132.2	0.13	0.16	1.5	26.196
Week 4	27-05-2024	11:07:20	17.456	91.8	7.1	53726	8.22	132.2	0.14	0.16	1.51	26.136
Week 4	27-05-2024	11:07:21	17.456	91.8	7.1	53727	8.22	132.3	0.13	0.17	1.54	26.099
Week 4	27-05-2024	11:07:22	17.456	91.8	7.1	53727	8.22	132.3	0.01	0.16	1.48	26.04
Week 4	27-05-2024	11:07:23	17.457	91.8	7.1	53727	8.22	132.3	-0.05	0.16	1.49	25.971
Week 4	27-05-2024	11:07:24	17.456	91.8	7.1	53727	8.22	132.3	-0.04	0.17	1.55	25.929
Week 4	27-05-2024	11:07:25	17.456	91.8	7.1	53727	8.22	132.3	-0.04	0.18	1.58	25.888
Week 4	27-05-2024	11:07:26	17.456	91.8	7.1	53727	8.22	132.3	-0.03	0.2	1.63	25.855
Week 4	27-05-2024	11:07:27	17.456	91.8	7.1	53727	8.22	132.3	-0.03	0.21	1.69	25.814
Week 4	27-05-2024	11:07:28	17.457	91.8	7.1	53727	8.22	132.3	-0.04	0.23	1.75	25.783
Week 4	27-05-2024	11:07:29	17.457	91.8	7.1	53727	8.22	132.3	-0.04	0.24	1.79	25.735
Week 4	27-05-2024	11:07:30	17.457	91.8	7.1	53727	8.22	132.4	-0.04	0.23	1.75	25.725
Week 4	27-05-2024	11:07:31	17.457	91.8	7.1	53727	8.22	132.4	-0.03	0.23	1.74	24.987
Week 4	27-05-2024	11:07:32	17.457	91.8	7.1	53727	8.22	132.4	-0.03	0.22	1.7	24.936
Week 4	27-05-2024	11:07:33	17.457	91.8	7.1	53727	8.22	132.4	-0.03	0.23	1.74	24.799
Week 4	27-05-2024	11:07:34	17.457	91.8	7.1	53727	8.22	132.4	-0.03	0.23	1.74	24.994
Week 4	27-05-2024	11:07:35	17.457	91.8	7.1	53727	8.22	132.4	-0.02	0.23	1.73	24.718
Week 4	27-05-2024	11:07:36	17.457	91.8	7.1	53727	8.22	132.4	-0.02	0.23	1.74	24.66
Week 4	27-05-2024	11:07:37	17.457	91.8	7.1	53726	8.22	132.4	-0.01	0.22	1.72	24.601
Week 4	27-05-2024	11:07:38	17.457	91.8	7.1	53726	8.22	132.5	-0.01	0.22	1.71	24.546
Week 4	27-05-2024	11:07:39	17.457	91.8	7.1	53726	8.22	132.5	-0.02	0.22	1.7	24.478
Week 4	27-05-2024	11:07:40	17.457	91.8	7.1	53726	8.22	132.5	-0.03	0.2	1.65	24.449
Week 4	27-05-2024	11:07:41	17.457	91.8	7.1	53726	8.22	132.5	-0.02	0.21	1.66	24.409
Week 4	27-05-2024	11:07:42	17.457	91.8	7.1	53725	8.22	132.5	-0.03	0.21	1.66	24.339
Week 4	27-05-2024	11:07:43	17.457	91.8	7.1	53725	8.22	132.5	-0.03	0.21	1.69	23.532
Week 4	27-05-2024	11:07:44	17.457	91.8	7.1	53725	8.22	132.5	-0.03	0.22	1.7	23.092
Week 4	27-05-2024	11:07:45	17.457	91.8	7.1	53725	8.22	132.5	-0.03	0.23	1.77	22.917
Week 4	27-05-2024	11:07:46	17.457	91.8	7.1	53725	8.22	132.6	-0.04	0.25	1.81	22.863
Week 4	27-05-2024	11:07:47	17.457	91.8	7.1	53725	8.22	132.6	-0.04	0.25	1.82	22.66

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 4	27-05-2024	11:07:48	17.457	91.8	7.1	53724	8.22	132.6	-0.04	0.25	1.81	22.532
Week 4	27-05-2024	11:07:49	17.457	91.8	7.1	53724	8.22	132.6	-0.04	0.25	1.83	22.383
Week 4	27-05-2024	11:07:50	17.457	91.8	7.1	53724	8.22	132.6	-0.05	0.25	1.83	22.3
Week 4	27-05-2024	11:07:51	17.457	91.8	7.1	53724	8.22	132.6	-0.06	0.27	1.88	21.464
Week 4	27-05-2024	11:07:52	17.457	91.8	7.1	53724	8.22	132.6	-0.05	0.28	1.94	21.445
Week 4	27-05-2024	11:07:53	17.457	91.8	7.1	53724	8.22	132.6	-0.05	0.28	1.93	21.271
Week 4	27-05-2024	11:07:54	17.457	91.9	7.1	53724	8.22	132.7	-0.03	0.29	1.96	21.267
Week 4	27-05-2024	11:07:55	17.457	91.9	7.1	53724	8.22	132.7	-0.03	0.29	1.96	21.188
Week 4	27-05-2024	11:07:56	17.457	91.9	7.1	53724	8.22	132.7	-0.03	0.28	1.92	20.995
Week 4	27-05-2024	11:07:57	17.457	91.9	7.1	53724	8.22	132.7	-0.02	0.27	1.88	20.947
Week 4	27-05-2024	11:07:58	17.457	91.9	7.1	53724	8.22	132.7	-0.02	0.26	1.86	20.821
Week 4	27-05-2024	11:07:59	17.457	91.9	7.1	53724	8.22	132.7	-0.02	0.27	1.88	20.752
Week 4	27-05-2024	11:08:00	17.457	91.9	7.1	53724	8.22	132.7	0	0.27	1.91	20.645
Week 4	27-05-2024	11:08:01	17.457	91.9	7.1	53724	8.22	132.7	0.01	0.27	1.9	20.62
Week 4	27-05-2024	11:08:02	17.457	91.9	7.1	53724	8.22	132.7	0.02	0.26	1.86	20.523
Week 4	27-05-2024	11:08:03	17.457	91.9	7.1	53724	8.22	132.8	0.02	0.26	1.87	20.464
Week 4	27-05-2024	11:08:04	17.457	91.9	7.1	53724	8.22	132.8	0.02	0.28	1.94	20.43
Week 4	27-05-2024	11:08:05	17.457	91.9	7.11	53724	8.22	132.8	0.01	0.27	1.89	19.461
Week 4	27-05-2024	11:08:06	17.457	91.9	7.11	53724	8.22	132.8	0.02	0.26	1.87	19.044
Week 4	27-05-2024	11:08:07	17.457	91.9	7.11	53724	8.22	132.8	0.01	0.25	1.82	19.007
Week 4	27-05-2024	11:08:08	17.457	91.9	7.11	53724	8.22	132.8	0.01	0.25	1.81	18.976
Week 4	27-05-2024	11:08:09	17.457	91.9	7.11	53724	8.22	132.8	0.01	0.24	1.78	18.829
Week 4	27-05-2024	11:08:10	17.457	91.9	7.11	53724	8.22	132.8	0.01	0.24	1.8	18.775
Week 4	27-05-2024	11:08:11	17.457	91.9	7.11	53724	8.22	132.9	0	0.24	1.8	18.686
Week 4	27-05-2024	11:08:12	17.457	91.9	7.11	53724	8.22	132.9	-0.01	0.24	1.8	18.653
Week 4	27-05-2024	11:08:13	17.458	92	7.11	53724	8.22	132.9	-0.02	0.26	1.85	18.641
Week 4	27-05-2024	11:08:14	17.458	92	7.11	53723	8.22	132.9	-0.02	0.26	1.85	18.604
Week 4	27-05-2024	11:08:15	17.458	92	7.11	53724	8.22	132.9	-0.03	0.25	1.81	17.705
Week 4	27-05-2024	11:08:16	17.458	92	7.11	53723	8.22	132.9	-0.05	0.26	1.85	17.767
Week 4	27-05-2024	11:08:17	17.458	92	7.11	53723	8.22	132.9	-0.05	0.26	1.85	17.607
Week 4	27-05-2024	11:08:18	17.458	92	7.11	53723	8.22	133	-0.05	0.27	1.88	17.519
Week 4	27-05-2024	11:08:19	17.458	92	7.11	53722	8.22	133	-0.06	0.26	1.88	17.532
Week 4	27-05-2024	11:08:20	17.458	92	7.11	53722	8.22	133	-0.05	0.28	1.92	17.552
Week 4	27-05-2024	11:08:21	17.458	92	7.11	53722	8.22	133	-0.05	0.28	1.92	17.545
Week 4	27-05-2024	11:08:22	17.458	92	7.11	53722	8.22	133	-0.05	0.27	1.9	17.53
Week 4	27-05-2024	11:08:23	17.459	92	7.11	53722	8.22	133	-0.06	0.28	1.92	17.501
Week 4	27-05-2024	11:08:24	17.459	92	7.11	53722	8.22	133	-0.07	0.27	1.91	17.462
Week 4	27-05-2024	11:08:25	17.459	92	7.11	53722	8.22	133	-0.07	0.26	1.85	17.459
Week 4	27-05-2024	11:08:26	17.459	92	7.11	53722	8.22	133.1	-0.06	0.25	1.83	17.44
Week 4	27-05-2024	11:08:27	17.459	92	7.11	53722	8.22	133.1	-0.06	0.24	1.79	17.422
Week 4	27-05-2024	11:08:28	17.459	92	7.11	53722	8.22	133.1	-0.06	0.25	1.82	17.416
Week 4	27-05-2024	11:08:29	17.459	92	7.11	53722	8.22	133.1	-0.06	0.26	1.86	17.41
Week 4	27-05-2024	11:08:30	17.459	92	7.12	53723	8.22	133.1	-0.05	0.26	1.86	17.395
Week 4	27-05-2024	11:08:31	17.459	92	7.12	53723	8.22	133.1	-0.05	0.24	1.79	17.395
Week 4	27-05-2024	11:08:32	17.459	92	7.12	53723	8.22	133.1	-0.06	0.23	1.77	17.379
Week 4	27-05-2024	11:08:33	17.459	92	7.12	53723	8.22	133.1	-0.05	0.23	1.77	17.356
Week 4	27-05-2024	11:08:34	17.459	92	7.12	53723	8.22	133.2	-0.05	0.23	1.74	17.345
Week 4	27-05-2024	11:08:35	17.458	92	7.11	53723	8.22	133.2	-0.06	0.22	1.72	17.327
Week 4	27-05-2024	11:08:36	17.458	92	7.12	53723	8.22	133.2	-0.06	0.22	1.72	17.307
Week 4	27-05-2024	11:08:37	17.458	92	7.12	53723	8.22	133.2	-0.05	0.21	1.67	17.297
Week 4	27-05-2024	11:08:38	17.458	92	7.12	53723	8.22	133.2	-0.05	0.22	1.7	17.28
Week 4	27-05-2024	11:08:39	17.458	92	7.12	53723	8.22	133.2	-0.05	0.22	1.72	17.26
Week 4	27-05-2024	11:08:40	17.458	92	7.12	53723	8.22	133.2	-0.05	0.22	1.7	17.239
Week 4	27-05-2024	11:08:41	17.458	92	7.12	53723	8.22	133.2	-0.04	0.23	1.75	17.209
Week 4	27-05-2024	11:08:42	17.459	92	7.12	53723	8.22	133.2	-0.03	0.24	1.78	17.197
Week 4	27-05-2024	11:08:43	17.459	92	7.12	53723	8.22	133.2	-0.03	0.24	1.8	17.175
Week 4	27-05-2024	11:08:44	17.459	92	7.12	53723	8.22	133.3	-0.04	0.25	1.81	16.42
Week 4	27-05-2024	11:08:45	17.459	92	7.12	53723	8.22	133.3	-0.03	0.25	1.83	16.325
Week 4	27-05-2024	11:08:46	17.459	92.1	7.12	53723	8.22	133.3	-0.02	0.26	1.87	16.217
Week 4	27-05-2024	11:08:47	17.459	92.1	7.12	53722	8.22	133.3	-0.02	0.27	1.9	16.245
Week 4	27-05-2024	11:08:48	17.459	92.1	7.12	53722	8.22	133.3	-0.02	0.29	1.97	16.16
Week 4	27-05-2024	11:08:49	17.459	92.1	7.12	53722	8.22	133.3	-0.02	0.31	2.03	16.115
Week 4	27-05-2024	11:08:50	17.459	92.1	7.12	53722	8.22	133.3	-0.03	0.3	2.01	16.008
Week 4	27-05-2024	11:08:51	17.459	92.1	7.12	53722	8.22	133.3	-0.01	0.31	2.04	15.973
Week 4	27-05-2024	11:08:52	17.46	92.1	7.12	53722	8.22	133.4	-0.02	0.31	2.05	15.897
Week 4	27-05-2024	11:08:53	17.46	92.1	7.12	53722	8.22	133.4	-0.02	0.32	2.08	15.813
Week 4	27-05-2024	11:08:54	17.46	92.1	7.12	53722	8.22	133.4	-0.01	0.32	2.07	15.781

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 4	27-05-2024	11:08:55	17.46	92.1	7.12	53722	8.22	133.4	-0.01	0.32	2.09	15.76
Week 4	27-05-2024	11:08:56	17.46	92.1	7.12	53722	8.22	133.4	-0.02	0.31	2.04	15.671
Week 4	27-05-2024	11:08:57	17.46	92.1	7.12	53722	8.22	133.4	-0.01	0.3	2.01	14.815
Week 4	27-05-2024	11:08:58	17.46	92.1	7.12	53722	8.22	133.4	-0.01	0.31	2.04	14.73
Week 4	27-05-2024	11:08:59	17.46	92.1	7.12	53722	8.22	133.4	-0.02	0.31	2.03	14.444
Week 4	27-05-2024	11:09:00	17.46	92.1	7.12	53722	8.22	133.4	-0.01	0.3	1.99	14.408
Week 4	27-05-2024	11:09:01	17.46	92.1	7.12	53722	8.22	133.5	0.01	0.3	2	14.398
Week 4	27-05-2024	11:09:02	17.46	92.1	7.12	53722	8.22	133.5	0.02	0.29	1.97	14.235
Week 4	27-05-2024	11:09:03	17.46	92.1	7.12	53722	8.22	133.5	0	0.29	1.97	14.055
Week 4	27-05-2024	11:09:04	17.46	92.1	7.12	53722	8.22	133.5	0.01	0.29	1.97	13.974
Week 4	27-05-2024	11:09:05	17.461	92.1	7.12	53722	8.22	133.5	0	0.3	2.01	13.809
Week 4	27-05-2024	11:09:06	17.461	92.1	7.12	53722	8.22	133.5	0.01	0.3	1.99	13.738
Week 4	27-05-2024	11:09:07	17.461	92.2	7.12	53722	8.22	133.5	0	0.3	1.99	13.707
Week 4	27-05-2024	11:09:08	17.461	92.2	7.12	53722	8.22	133.5	0.01	0.3	1.99	13.61
Week 4	27-05-2024	11:09:09	17.461	92.2	7.13	53722	8.22	133.5	-0.02	0.3	1.99	13.581
Week 4	27-05-2024	11:09:10	17.461	92.2	7.13	53722	8.22	133.6	-0.02	0.29	1.97	12.61
Week 4	27-05-2024	11:09:11	17.462	92.2	7.13	53722	8.22	133.6	-0.02	0.28	1.93	12.819
Week 4	27-05-2024	11:09:12	17.462	92.2	7.13	53722	8.22	133.6	-0.02	0.27	1.88	12.772
Week 4	27-05-2024	11:09:13	17.462	92.2	7.13	53721	8.22	133.6	-0.03	0.26	1.88	12.694
Week 4	27-05-2024	11:09:14	17.462	92.2	7.13	53721	8.22	133.6	-0.02	0.27	1.88	12.721
Week 4	27-05-2024	11:09:15	17.462	92.2	7.13	53721	8.22	133.6	-0.05	0.26	1.85	12.638
Week 4	27-05-2024	11:09:16	17.462	92.2	7.13	53721	8.22	133.6	-0.03	0.25	1.83	12.571
Week 4	27-05-2024	11:09:17	17.462	92.2	7.13	53721	8.22	133.6	-0.04	0.26	1.86	12.471
Week 4	27-05-2024	11:09:18	17.462	92.2	7.13	53721	8.22	133.6	-0.05	0.27	1.88	12.367
Week 4	27-05-2024	11:09:19	17.462	92.2	7.13	53720	8.22	133.7	-0.04	0.26	1.84	11.468
Week 4	27-05-2024	11:09:20	17.462	92.3	7.13	53720	8.22	133.7	-0.04	0.24	1.78	11.448
Week 4	27-05-2024	11:09:21	17.463	92.3	7.13	53719	8.22	133.7	-0.03	0.25	1.82	10.982
Week 4	27-05-2024	11:09:22	17.463	92.3	7.13	53719	8.22	133.7	-0.02	0.25	1.82	10.975
Week 4	27-05-2024	11:09:23	17.463	92.3	7.13	53719	8.22	133.7	-0.03	0.26	1.86	10.921
Week 4	27-05-2024	11:09:24	17.463	92.3	7.13	53719	8.22	133.7	-0.02	0.26	1.86	10.783
Week 4	27-05-2024	11:09:25	17.463	92.3	7.13	53719	8.22	133.7	-0.02	0.26	1.85	10.72
Week 4	27-05-2024	11:09:26	17.463	92.3	7.13	53719	8.22	133.7	-0.03	0.26	1.84	10.598
Week 4	27-05-2024	11:09:27	17.463	92.3	7.13	53719	8.22	133.7	-0.04	0.25	1.81	10.526
Week 4	27-05-2024	11:09:28	17.463	92.3	7.13	53719	8.22	133.7	-0.04	0.24	1.79	10.48
Week 4	27-05-2024	11:09:29	17.463	92.3	7.13	53719	8.22	133.8	-0.04	0.24	1.79	9.571
Week 4	27-05-2024	11:09:30	17.463	92.3	7.14	53719	8.22	133.8	-0.06	0.24	1.8	9.325
Week 4	27-05-2024	11:09:31	17.463	92.3	7.14	53719	8.22	133.8	-0.06	0.24	1.78	9.203
Week 4	27-05-2024	11:09:32	17.463	92.3	7.14	53719	8.22	133.8	-0.06	0.23	1.75	9.22
Week 4	27-05-2024	11:09:33	17.463	92.3	7.14	53719	8.22	133.8	-0.07	0.23	1.74	9.189
Week 4	27-05-2024	11:09:34	17.463	92.3	7.14	53719	8.22	133.8	-0.07	0.22	1.71	9.034
Week 4	27-05-2024	11:09:35	17.463	92.3	7.14	53719	8.22	133.8	-0.06	0.22	1.72	8.868
Week 4	27-05-2024	11:09:36	17.462	92.4	7.14	53719	8.22	133.8	-0.07	0.21	1.69	8.82
Week 4	27-05-2024	11:09:37	17.462	92.4	7.14	53719	8.22	133.8	-0.08	0.22	1.7	8.715
Week 4	27-05-2024	11:09:38	17.463	92.4	7.14	53719	8.22	133.9	-0.07	0.21	1.66	8.637
Week 4	27-05-2024	11:09:39	17.463	92.4	7.14	53719	8.22	133.9	-0.07	0.2	1.63	8.537
Week 4	27-05-2024	11:09:40	17.463	92.4	7.14	53719	8.22	133.9	-0.07	0.19	1.61	8.486
Week 4	27-05-2024	11:09:41	17.463	92.4	7.14	53719	8.22	133.9	-0.06	0.2	1.64	8.458
Week 4	27-05-2024	11:09:42	17.463	92.4	7.14	53719	8.22	133.9	-0.05	0.21	1.69	8.414
Week 4	27-05-2024	11:09:43	17.464	92.4	7.14	53719	8.22	133.9	-0.06	0.21	1.69	8.379
Week 4	27-05-2024	11:09:44	17.464	92.4	7.14	53719	8.22	133.9	-0.06	0.21	1.67	8.365
Week 4	27-05-2024	11:09:45	17.464	92.4	7.14	53719	8.22	133.9	-0.05	0.21	1.69	8.303
Week 4	27-05-2024	11:09:46	17.464	92.4	7.14	53719	8.22	133.9	-0.05	0.21	1.68	8.278
Week 4	27-05-2024	11:09:47	17.465	92.4	7.14	53719	8.22	133.9	-0.04	0.21	1.69	7.661
Week 4	27-05-2024	11:09:48	17.465	92.4	7.14	53719	8.22	133.9	-0.03	0.22	1.7	7.413
Week 4	27-05-2024	11:09:49	17.465	92.4	7.14	53718	8.22	134	-0.03	0.23	1.76	7.231
Week 4	27-05-2024	11:09:50	17.466	92.4	7.14	53718	8.22	134	-0.05	0.25	1.82	7.206
Week 4	27-05-2024	11:09:51	17.466	92.4	7.14	53718	8.22	134	-0.05	0.26	1.85	7.017
Week 4	27-05-2024	11:09:52	17.466	92.4	7.14	53718	8.22	134	-0.04	0.25	1.83	6.965
Week 4	27-05-2024	11:09:53	17.466	92.4	7.15	53718	8.22	134	-0.04	0.24	1.8	6.947
Week 4	27-05-2024	11:09:54	17.466	92.5	7.15	53718	8.22	134	-0.05	0.24	1.78	6.844
Week 4	27-05-2024	11:09:55	17.466	92.5	7.15	53718	8.22	134	-0.06	0.24	1.78	6.682
Week 4	27-05-2024	11:09:56	17.466	92.5	7.15	53718	8.22	134	-0.05	0.23	1.75	6.568
Week 4	27-05-2024	11:09:57	17.466	92.5	7.15	53718	8.22	134	-0.06	0.22	1.71	6.481
Week 4	27-05-2024	11:09:58	17.466	92.5	7.15	53718	8.22	134	-0.06	0.21	1.67	5.563
Week 4	27-05-2024	11:09:59	17.466	92.5	7.15	53719	8.22	134	-0.06	0.22	1.7	5.293
Week 4	27-05-2024	11:10:00	17.466	92.5	7.15	53719	8.22	134.1	-0.05	0.21	1.69	5.162
Week 4	27-05-2024	11:10:01	17.466	92.5	7.15	53719	8.22	134.1	-0.06	0.2	1.63	5.028

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 4	27-05-2024	11:10:02	17.466	92.5	7.15	53719	8.22	134.1	-0.06	0.2	1.66	5.012
Week 4	27-05-2024	11:10:03	17.466	92.5	7.15	53719	8.22	134.1	-0.06	0.2	1.65	4.857
Week 4	27-05-2024	11:10:04	17.466	92.5	7.15	53718	8.22	134.1	-0.06	0.21	1.68	4.738
Week 4	27-05-2024	11:10:05	17.465	92.5	7.15	53718	8.22	134.1	-0.05	0.22	1.71	4.564
Week 4	27-05-2024	11:10:06	17.465	92.6	7.15	53718	8.22	134.1	-0.06	0.22	1.73	4.406
Week 4	27-05-2024	11:10:07	17.465	92.6	7.15	53717	8.22	134.1	-0.05	0.23	1.75	4.3
Week 4	27-05-2024	11:10:08	17.465	92.6	7.16	53717	8.22	134.1	-0.06	0.23	1.76	3.37
Week 4	27-05-2024	11:10:09	17.464	92.6	7.16	53717	8.22	134.1	-0.05	0.24	1.79	3.486
Week 4	27-05-2024	11:10:10	17.464	92.6	7.16	53716	8.22	134.1	-0.05	0.24	1.79	3.172
Week 4	27-05-2024	11:10:11	17.463	92.6	7.16	53716	8.22	134.2	-0.04	0.24	1.77	3.101
Week 4	27-05-2024	11:10:12	17.463	92.6	7.16	53715	8.22	134.2	-0.04	0.24	1.78	3.112
Week 4	27-05-2024	11:10:13	17.463	92.6	7.16	53715	8.22	134.2	-0.04	0.22	1.71	2.94
Week 4	27-05-2024	11:10:14	17.462	92.6	7.16	53715	8.22	134.2	-0.04	0.23	1.75	2.839
Week 4	27-05-2024	11:10:15	17.462	92.6	7.16	53715	8.22	134.2	-0.03	0.22	1.72	2.756
Week 4	27-05-2024	11:10:16	17.461	92.6	7.16	53715	8.22	134.2	-0.02	0.24	1.77	2.686
Week 4	27-05-2024	11:10:17	17.461	92.6	7.16	53715	8.22	134.2	-0.02	0.24	1.77	2.599
Week 4	27-05-2024	11:10:18	17.461	92.6	7.16	53715	8.22	134.2	-0.02	0.24	1.79	2.516
Week 4	27-05-2024	11:10:19	17.461	92.6	7.16	53715	8.22	134.2	-0.03	0.24	1.79	2.451
Week 4	27-05-2024	11:10:20	17.461	92.6	7.16	53715	8.22	134.2	-0.02	0.23	1.76	2.388
Week 4	27-05-2024	11:10:21	17.461	92.6	7.16	53714	8.22	134.2	-0.01	0.23	1.74	2.32
Week 4	27-05-2024	11:10:22	17.461	92.6	7.16	53714	8.22	134.2	-0.01	0.22	1.73	1.377
Week 4	27-05-2024	11:10:23	17.461	92.6	7.16	53714	8.22	134.3	-0.02	0.22	1.7	1.356
Week 4	27-05-2024	11:10:24	17.461	92.6	7.16	53713	8.22	134.3	-0.02	0.21	1.69	1.221
Week 4	27-05-2024	11:10:25	17.461	92.6	7.16	53713	8.22	134.3	-0.02	0.21	1.66	1.229
Week 4	27-05-2024	11:10:26	17.462	92.6	7.16	53713	8.22	134.3	-0.04	0.2	1.65	1.217
Week 4	27-05-2024	11:10:27	17.462	92.6	7.16	53712	8.22	134.3	-0.04	0.19	1.62	1.188
Week 4	27-05-2024	11:10:28	17.462	92.6	7.16	53712	8.22	134.3	-0.04	0.2	1.64	1.139
Week 4	27-05-2024	11:10:29	17.462	92.6	7.16	53712	8.22	134.3	-0.04	0.19	1.6	1.069
Week 4	27-05-2024	11:10:30	17.462	92.6	7.16	53711	8.22	134.3	-0.05	0.19	1.61	1.006
Week 4	27-05-2024	11:10:31	17.462	92.6	7.16	53711	8.22	134.3	-0.06	0.2	1.64	0.93
Week 5	04-06-2024	11:05:58	16.742	98.9	7.75	53607	8.06	80.1	0.01	0.23	1.74	1.155
Week 5	04-06-2024	11:05:59	16.742	98.8	7.75	53608	8.06	80.3	0.01	0.23	1.75	1.168
Week 5	04-06-2024	11:06:00	16.742	98.7	7.74	53609	8.06	80.5	0.02	0.23	1.75	1.23
Week 5	04-06-2024	11:06:01	16.742	98.7	7.74	53610	8.06	80.6	0.02	0.23	1.75	1.279
Week 5	04-06-2024	11:06:02	16.742	98.6	7.73	53611	8.06	80.8	0.03	0.23	1.76	1.323
Week 5	04-06-2024	11:06:03	16.742	98.6	7.73	53612	8.06	81	0.02	0.22	1.72	1.364
Week 5	04-06-2024	11:06:04	16.742	98.6	7.73	53612	8.06	81.1	0.01	0.22	1.71	1.406
Week 5	04-06-2024	11:06:05	16.742	98.5	7.73	53613	8.05	81.3	0.01	0.21	1.68	1.439
Week 5	04-06-2024	11:06:06	16.742	98.5	7.73	53615	8.05	81.4	0.02	0.21	1.66	1.474
Week 5	04-06-2024	11:06:07	16.742	98.5	7.72	53617	8.05	81.6	0.02	0.2	1.65	1.52
Week 5	04-06-2024	11:06:08	16.742	98.5	7.72	53619	8.05	81.7	0.02	0.2	1.62	1.559
Week 5	04-06-2024	11:06:09	16.741	98.4	7.72	53621	8.05	81.9	0.01	0.21	1.67	1.609
Week 5	04-06-2024	11:06:10	16.741	98.4	7.72	53623	8.05	82	0.03	0.21	1.69	1.648
Week 5	04-06-2024	11:06:11	16.741	98.4	7.71	53626	8.05	82.2	0.02	0.23	1.74	1.677
Week 5	04-06-2024	11:06:12	16.741	98.4	7.71	53627	8.05	82.3	0.03	0.22	1.72	1.711
Week 5	04-06-2024	11:06:13	16.74	98.3	7.71	53629	8.05	82.4	0.02	0.23	1.75	2.405
Week 5	04-06-2024	11:06:14	16.74	98.3	7.71	53631	8.05	82.6	0.02	0.24	1.78	2.616
Week 5	04-06-2024	11:06:15	16.74	98.3	7.7	53633	8.05	82.7	0.02	0.24	1.79	2.606
Week 5	04-06-2024	11:06:16	16.74	98.2	7.7	53635	8.05	82.9	0.01	0.25	1.82	2.59
Week 5	04-06-2024	11:06:17	16.739	98.2	7.7	53636	8.05	83.1	0.02	0.25	1.83	2.635
Week 5	04-06-2024	11:06:18	16.739	98.1	7.69	53638	8.05	83.3	0.02	0.25	1.84	2.721
Week 5	04-06-2024	11:06:19	16.739	98.1	7.69	53638	8.05	83.6	0.02	0.27	1.88	2.769
Week 5	04-06-2024	11:06:20	16.738	98	7.69	53638	8.05	83.9	0.02	0.25	1.81	2.802
Week 5	04-06-2024	11:06:21	16.738	98	7.68	53638	8.05	84.1	0.02	0.25	1.82	2.848
Week 5	04-06-2024	11:06:22	16.738	98	7.68	53638	8.05	84.4	0.03	0.24	1.78	2.89
Week 5	04-06-2024	11:06:23	16.738	97.9	7.68	53638	8.05	84.6	0.03	0.24	1.78	2.927
Week 5	04-06-2024	11:06:24	16.738	97.9	7.68	53638	8.05	84.9	0.02	0.23	1.76	2.979
Week 5	04-06-2024	11:06:25	16.738	97.9	7.67	53638	8.05	85.1	0.02	0.24	1.78	3.015
Week 5	04-06-2024	11:06:26	16.738	97.8	7.67	53638	8.05	85.3	0.03	0.23	1.76	3.065
Week 5	04-06-2024	11:06:27	16.738	97.8	7.67	53638	8.05	85.6	0.03	0.24	1.79	3.656
Week 5	04-06-2024	11:06:28	16.738	97.8	7.67	53638	8.05	85.8	0.02	0.25	1.83	3.783
Week 5	04-06-2024	11:06:29	16.737	97.8	7.67	53639	8.05	86	0.02	0.25	1.81	4.02
Week 5	04-06-2024	11:06:30	16.737	97.7	7.66	53639	8.05	86.2	0.02	0.24	1.78	4.058
Week 5	04-06-2024	11:06:31	16.737	97.7	7.66	53639	8.05	86.4	0.02	0.25	1.8	3.948
Week 5	04-06-2024	11:06:32	16.737	97.7	7.66	53639	8.05	86.7	0.02	0.26	1.85	3.977
Week 5	04-06-2024	11:06:33	16.737	97.7	7.66	53639	8.04	86.9	0.02	0.25	1.83	4.035
Week 5	04-06-2024	11:06:34	16.736	97.6	7.66	53639	8.04	87.1	0.01	0.26	1.88	4.081

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 5	04-06-2024	11:06:35	16.736	97.6	7.65	53639	8.04	87.3	0.01	0.26	1.86	4.141
Week 5	04-06-2024	11:06:36	16.736	97.6	7.65	53639	8.04	87.5	0	0.26	1.85	4.174
Week 5	04-06-2024	11:06:37	16.736	97.6	7.65	53640	8.04	87.7	0	0.27	1.89	4.228
Week 5	04-06-2024	11:06:38	16.736	97.6	7.65	53640	8.04	87.9	0.01	0.26	1.87	4.257
Week 5	04-06-2024	11:06:39	16.736	97.6	7.65	53640	8.04	88.1	0.01	0.25	1.82	4.292
Week 5	04-06-2024	11:06:40	16.735	97.5	7.65	53640	8.04	88.3	0	0.25	1.84	4.329
Week 5	04-06-2024	11:06:41	16.735	97.5	7.65	53640	8.04	88.4	0	0.25	1.83	4.36
Week 5	04-06-2024	11:06:42	16.735	97.5	7.65	53640	8.04	88.6	-0.01	0.25	1.84	4.393
Week 5	04-06-2024	11:06:43	16.735	97.5	7.65	53640	8.04	88.8	-0.01	0.23	1.75	4.419
Week 5	04-06-2024	11:06:44	16.734	97.5	7.64	53640	8.04	89	-0.01	0.22	1.73	4.453
Week 5	04-06-2024	11:06:45	16.734	97.5	7.64	53640	8.04	89.2	-0.01	0.21	1.67	4.469
Week 5	04-06-2024	11:06:46	16.734	97.5	7.64	53640	8.04	89.3	-0.01	0.21	1.67	4.477
Week 5	04-06-2024	11:06:47	16.734	97.4	7.64	53641	8.04	89.5	-0.01	0.21	1.66	4.489
Week 5	04-06-2024	11:06:48	16.734	97.4	7.64	53640	8.04	89.7	-0.01	0.21	1.66	4.509
Week 5	04-06-2024	11:06:49	16.734	97.4	7.64	53641	8.04	89.8	-0.01	0.2	1.64	4.531
Week 5	04-06-2024	11:06:50	16.734	97.4	7.64	53641	8.04	90	-0.01	0.21	1.66	5.299
Week 5	04-06-2024	11:06:51	16.734	97.4	7.64	53641	8.04	90.2	-0.01	0.2	1.65	5.229
Week 5	04-06-2024	11:06:52	16.734	97.4	7.64	53641	8.04	90.3	-0.02	0.2	1.65	5.374
Week 5	04-06-2024	11:06:53	16.734	97.4	7.64	53641	8.04	90.5	-0.02	0.19	1.59	5.315
Week 5	04-06-2024	11:06:54	16.734	97.4	7.64	53641	8.04	90.6	-0.01	0.2	1.63	5.353
Week 5	04-06-2024	11:06:55	16.734	97.4	7.64	53642	8.04	90.8	-0.02	0.2	1.63	5.402
Week 5	04-06-2024	11:06:56	16.734	97.4	7.63	53642	8.04	91	-0.01	0.2	1.62	5.396
Week 5	04-06-2024	11:06:57	16.734	97.3	7.63	53642	8.04	91.1	0	0.19	1.6	5.446
Week 5	04-06-2024	11:06:58	16.734	97.3	7.63	53642	8.04	91.3	0.01	0.2	1.63	5.481
Week 5	04-06-2024	11:06:59	16.733	97.3	7.63	53642	8.04	91.4	0	0.2	1.65	5.515
Week 5	04-06-2024	11:07:00	16.733	97.3	7.63	53642	8.04	91.6	0	0.21	1.69	5.557
Week 5	04-06-2024	11:07:01	16.733	97.3	7.63	53642	8.04	91.7	0	0.21	1.68	5.592
Week 5	04-06-2024	11:07:02	16.733	97.3	7.63	53642	8.04	91.9	0.02	0.22	1.71	5.638
Week 5	04-06-2024	11:07:03	16.733	97.3	7.63	53642	8.04	92	0.02	0.23	1.74	6.376
Week 5	04-06-2024	11:07:04	16.733	97.3	7.63	53642	8.04	92.2	0.03	0.22	1.73	6.396
Week 5	04-06-2024	11:07:05	16.732	97.3	7.63	53642	8.04	92.3	0.03	0.23	1.74	6.726
Week 5	04-06-2024	11:07:06	16.732	97.2	7.63	53642	8.04	92.5	0.03	0.24	1.79	6.813
Week 5	04-06-2024	11:07:07	16.732	97.2	7.62	53643	8.04	92.6	0.03	0.25	1.82	6.91
Week 5	04-06-2024	11:07:08	16.733	97.2	7.62	53642	8.04	92.7	0.03	0.26	1.86	6.926
Week 5	04-06-2024	11:07:09	16.733	97.2	7.62	53642	8.04	92.9	0.03	0.26	1.85	6.935
Week 5	04-06-2024	11:07:10	16.733	97.2	7.62	53642	8.04	93	0.03	0.24	1.78	6.974
Week 5	04-06-2024	11:07:11	16.734	97.2	7.62	53642	8.04	93.1	0.02	0.23	1.75	6.998
Week 5	04-06-2024	11:07:12	16.734	97.2	7.62	53642	8.04	93.3	0.01	0.25	1.81	7.045
Week 5	04-06-2024	11:07:13	16.734	97.2	7.62	53642	8.04	93.4	0.02	0.24	1.8	7.085
Week 5	04-06-2024	11:07:14	16.735	97.2	7.62	53642	8.04	93.5	0.02	0.23	1.76	7.125
Week 5	04-06-2024	11:07:15	16.735	97.2	7.62	53643	8.04	93.7	0.01	0.24	1.79	7.159
Week 5	04-06-2024	11:07:16	16.735	97.1	7.62	53643	8.04	93.8	0.01	0.26	1.85	7.187
Week 5	04-06-2024	11:07:17	16.735	97.1	7.62	53644	8.04	93.9	0	0.25	1.83	7.192
Week 5	04-06-2024	11:07:18	16.735	97.1	7.62	53644	8.04	94	0	0.25	1.83	7.212
Week 5	04-06-2024	11:07:19	16.736	97.1	7.62	53644	8.04	94.2	0	0.26	1.84	7.242
Week 5	04-06-2024	11:07:20	16.736	97.1	7.62	53645	8.04	94.3	-0.01	0.24	1.77	8.056
Week 5	04-06-2024	11:07:21	16.735	97.1	7.62	53645	8.04	94.4	0	0.24	1.78	8.097
Week 5	04-06-2024	11:07:22	16.735	97.1	7.61	53645	8.04	94.5	0	0.24	1.77	8.052
Week 5	04-06-2024	11:07:23	16.735	97.1	7.61	53645	8.04	94.7	0.01	0.22	1.71	8.196
Week 5	04-06-2024	11:07:24	16.734	97.1	7.61	53646	8.04	94.8	0	0.22	1.73	8.34
Week 5	04-06-2024	11:07:25	16.734	97.1	7.61	53646	8.04	94.9	0	0.23	1.74	8.465
Week 5	04-06-2024	11:07:26	16.733	97.1	7.61	53647	8.04	95.1	0.01	0.24	1.8	8.607
Week 5	04-06-2024	11:07:27	16.733	97.1	7.61	53647	8.04	95.2	0	0.23	1.75	8.736
Week 5	04-06-2024	11:07:28	16.733	97.1	7.61	53647	8.04	95.3	-0.01	0.23	1.76	8.858
Week 5	04-06-2024	11:07:29	16.733	97	7.61	53647	8.04	95.4	0	0.24	1.78	8.947
Week 5	04-06-2024	11:07:30	16.732	97	7.61	53647	8.04	95.5	-0.01	0.23	1.75	9.03
Week 5	04-06-2024	11:07:31	16.732	97	7.61	53647	8.04	95.6	0.01	0.24	1.78	10.014
Week 5	04-06-2024	11:07:32	16.732	97	7.61	53648	8.04	95.8	0.01	0.24	1.79	10.141
Week 5	04-06-2024	11:07:33	16.732	97	7.61	53648	8.04	95.9	0	0.25	1.82	10.374
Week 5	04-06-2024	11:07:34	16.731	97	7.61	53648	8.04	96	0	0.26	1.85	10.431
Week 5	04-06-2024	11:07:35	16.731	97	7.61	53648	8.04	96.1	0	0.25	1.82	10.565
Week 5	04-06-2024	11:07:36	16.731	97	7.6	53648	8.04	96.2	0	0.26	1.84	10.681
Week 5	04-06-2024	11:07:37	16.731	97	7.6	53648	8.04	96.3	0	0.26	1.85	10.772
Week 5	04-06-2024	11:07:38	16.731	97	7.6	53648	8.04	96.4	0	0.26	1.86	10.808
Week 5	04-06-2024	11:07:39	16.731	96.9	7.6	53647	8.04	96.5	0	0.26	1.86	10.836
Week 5	04-06-2024	11:07:40	16.731	96.9	7.6	53647	8.04	96.6	0.01	0.27	1.88	10.912
Week 5	04-06-2024	11:07:41	16.731	96.9	7.6	53648	8.04	96.8	0	0.27	1.89	10.945

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 5	04-06-2024	11:07:42	16.731	96.9	7.6	53647	8.04	96.9	0.01	0.28	1.94	10.972
Week 5	04-06-2024	11:07:43	16.731	96.9	7.6	53648	8.04	97	0.02	0.29	1.98	11.027
Week 5	04-06-2024	11:07:44	16.731	96.9	7.6	53647	8.04	97.1	0.03	0.3	2.02	11.067
Week 5	04-06-2024	11:07:45	16.731	96.9	7.6	53647	8.04	97.2	0.03	0.3	2.01	11.876
Week 5	04-06-2024	11:07:46	16.731	96.9	7.6	53646	8.04	97.3	0.02	0.31	2.03	11.856
Week 5	04-06-2024	11:07:47	16.731	96.9	7.6	53645	8.04	97.4	0.01	0.3	2.02	11.9
Week 5	04-06-2024	11:07:48	16.732	96.9	7.6	53645	8.04	97.5	0.02	0.3	2	12.114
Week 5	04-06-2024	11:07:49	16.732	96.9	7.6	53644	8.04	97.6	0.02	0.3	1.99	12.267
Week 5	04-06-2024	11:07:50	16.732	96.9	7.6	53642	8.04	97.7	0.02	0.29	1.96	12.353
Week 5	04-06-2024	11:07:51	16.731	96.9	7.6	53642	8.04	97.8	0.02	0.27	1.88	12.432
Week 5	04-06-2024	11:07:52	16.731	96.8	7.6	53641	8.04	97.9	0.02	0.27	1.9	12.574
Week 5	04-06-2024	11:07:53	16.731	96.8	7.59	53640	8.04	98	0.03	0.27	1.88	12.732
Week 5	04-06-2024	11:07:54	16.731	96.8	7.59	53639	8.04	98.1	0.03	0.27	1.89	13.731
Week 5	04-06-2024	11:07:55	16.731	96.8	7.59	53639	8.04	98.2	0.02	0.27	1.88	13.947
Week 5	04-06-2024	11:07:56	16.731	96.8	7.59	53638	8.04	98.3	0.03	0.28	1.93	14.444
Week 5	04-06-2024	11:07:57	16.731	96.8	7.59	53637	8.04	98.4	0.02	0.28	1.92	14.642
Week 5	04-06-2024	11:07:58	16.731	96.8	7.59	53637	8.04	98.5	0.02	0.28	1.95	14.741
Week 5	04-06-2024	11:07:59	16.731	96.8	7.59	53637	8.04	98.6	0.02	0.29	1.98	14.773
Week 5	04-06-2024	11:08:00	16.731	96.7	7.59	53638	8.04	98.7	0.02	0.29	1.97	14.869
Week 5	04-06-2024	11:08:01	16.73	96.7	7.59	53638	8.04	98.8	0.02	0.3	2	15.042
Week 5	04-06-2024	11:08:02	16.73	96.7	7.59	53638	8.04	98.9	0.01	0.29	1.98	15.154
Week 5	04-06-2024	11:08:03	16.73	96.7	7.58	53638	8.04	99	0.02	0.28	1.95	15.245
Week 5	04-06-2024	11:08:04	16.73	96.7	7.58	53639	8.04	99.1	0.02	0.27	1.91	16.008
Week 5	04-06-2024	11:08:05	16.73	96.7	7.58	53640	8.04	99.2	0.02	0.27	1.9	16.031
Week 5	04-06-2024	11:08:06	16.73	96.7	7.58	53640	8.04	99.3	0.03	0.27	1.89	16.429
Week 5	04-06-2024	11:08:07	16.73	96.7	7.58	53641	8.04	99.4	0.03	0.27	1.89	16.475
Week 5	04-06-2024	11:08:08	16.73	96.7	7.58	53642	8.04	99.5	0.02	0.27	1.88	16.443
Week 5	04-06-2024	11:08:09	16.73	96.7	7.58	53643	8.04	99.6	0.03	0.25	1.82	16.357
Week 5	04-06-2024	11:08:10	16.73	96.6	7.58	53643	8.04	99.7	0.04	0.24	1.79	16.351
Week 5	04-06-2024	11:08:11	16.73	96.6	7.58	53644	8.04	99.8	0.03	0.23	1.76	16.344
Week 5	04-06-2024	11:08:12	16.73	96.6	7.58	53644	8.04	99.9	0.03	0.23	1.75	16.295
Week 5	04-06-2024	11:08:13	16.73	96.6	7.58	53644	8.04	99.9	0.03	0.23	1.76	16.27
Week 5	04-06-2024	11:08:14	16.73	96.6	7.58	53645	8.04	100	0.03	0.23	1.74	16.286
Week 5	04-06-2024	11:08:15	16.73	96.6	7.58	53645	8.04	100.1	0.03	0.23	1.74	16.277
Week 5	04-06-2024	11:08:16	16.73	96.6	7.58	53646	8.04	100.2	0.03	0.2	1.65	16.267
Week 5	04-06-2024	11:08:17	16.73	96.6	7.58	53646	8.04	100.3	0.03	0.19	1.6	16.288
Week 5	04-06-2024	11:08:18	16.73	96.6	7.58	53646	8.04	100.4	0.03	0.2	1.63	16.299
Week 5	04-06-2024	11:08:19	16.729	96.6	7.58	53646	8.04	100.5	0.02	0.19	1.61	16.313
Week 5	04-06-2024	11:08:20	16.729	96.6	7.58	53647	8.04	100.6	0.01	0.19	1.62	16.336
Week 5	04-06-2024	11:08:21	16.728	96.6	7.58	53647	8.04	100.7	0.01	0.18	1.56	16.359
Week 5	04-06-2024	11:08:22	16.728	96.6	7.58	53646	8.04	100.7	0.01	0.19	1.59	16.351
Week 5	04-06-2024	11:08:23	16.728	96.6	7.58	53647	8.04	100.8	0	0.19	1.61	16.347
Week 5	04-06-2024	11:08:24	16.727	96.6	7.58	53647	8.04	100.9	0.01	0.2	1.63	16.338
Week 5	04-06-2024	11:08:25	16.727	96.6	7.58	53647	8.04	101	0	0.2	1.66	16.326
Week 5	04-06-2024	11:08:26	16.727	96.6	7.58	53647	8.04	101.1	0	0.22	1.71	16.309
Week 5	04-06-2024	11:08:27	16.726	96.6	7.58	53647	8.04	101.2	0	0.22	1.73	16.3
Week 5	04-06-2024	11:08:28	16.726	96.6	7.57	53647	8.04	101.3	0	0.24	1.77	16.297
Week 5	04-06-2024	11:08:29	16.725	96.6	7.57	53647	8.04	101.3	0.01	0.22	1.72	16.293
Week 5	04-06-2024	11:08:30	16.724	96.6	7.57	53647	8.04	101.4	0.02	0.22	1.73	16.291
Week 5	04-06-2024	11:08:31	16.723	96.6	7.57	53647	8.04	101.5	0.02	0.22	1.71	16.296
Week 5	04-06-2024	11:08:32	16.722	96.6	7.57	53647	8.04	101.6	0.02	0.24	1.78	16.306
Week 5	04-06-2024	11:08:33	16.722	96.6	7.57	53647	8.04	101.7	0.02	0.24	1.78	16.316
Week 5	04-06-2024	11:08:34	16.72	96.6	7.57	53647	8.04	101.7	0.03	0.23	1.74	16.33
Week 5	04-06-2024	11:08:35	16.719	96.6	7.57	53647	8.04	101.8	0.03	0.22	1.72	17.137
Week 5	04-06-2024	11:08:36	16.717	96.5	7.57	53647	8.04	101.9	0.03	0.24	1.77	17.272
Week 5	04-06-2024	11:08:37	16.716	96.5	7.57	53647	8.04	102	0.04	0.25	1.83	17.565
Week 5	04-06-2024	11:08:38	16.714	96.5	7.57	53646	8.04	102	0.04	0.25	1.81	17.737
Week 5	04-06-2024	11:08:39	16.713	96.5	7.57	53647	8.04	102.1	0.04	0.24	1.8	17.74
Week 5	04-06-2024	11:08:40	16.712	96.5	7.57	53647	8.04	102.2	0.03	0.25	1.82	17.839
Week 5	04-06-2024	11:08:41	16.711	96.5	7.57	53647	8.04	102.3	0.03	0.23	1.75	18.033
Week 5	04-06-2024	11:08:42	16.711	96.5	7.57	53647	8.04	102.3	0.04	0.24	1.8	18.189
Week 5	04-06-2024	11:08:43	16.709	96.5	7.57	53647	8.04	102.4	0.03	0.25	1.81	19.339
Week 5	04-06-2024	11:08:44	16.708	96.5	7.57	53647	8.04	102.5	0.03	0.25	1.81	19.79
Week 5	04-06-2024	11:08:45	16.708	96.5	7.57	53648	8.04	102.6	0.02	0.26	1.85	19.781
Week 5	04-06-2024	11:08:46	16.707	96.5	7.57	53648	8.04	102.6	0.02	0.27	1.88	19.806
Week 5	04-06-2024	11:08:47	16.707	96.5	7.57	53648	8.04	102.7	0.03	0.25	1.84	20.026
Week 5	04-06-2024	11:08:48	16.707	96.5	7.57	53648	8.04	102.8	0.02	0.24	1.8	20.244

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 5	04-06-2024	11:08:49	16.707	96.5	7.57	53649	8.04	102.9	0.03	0.25	1.84	20.325
Week 5	04-06-2024	11:08:50	16.707	96.5	7.57	53649	8.04	102.9	0.02	0.26	1.85	20.426
Week 5	04-06-2024	11:08:51	16.707	96.5	7.57	53650	8.04	103	0.03	0.25	1.83	20.54
Week 5	04-06-2024	11:08:52	16.707	96.5	7.57	53650	8.04	103.1	0.02	0.26	1.87	20.649
Week 5	04-06-2024	11:08:53	16.707	96.5	7.57	53650	8.04	103.2	0.02	0.26	1.85	20.725
Week 5	04-06-2024	11:08:54	16.707	96.5	7.57	53651	8.04	103.2	0.02	0.25	1.81	21.67
Week 5	04-06-2024	11:08:55	16.707	96.5	7.57	53652	8.04	103.3	0.02	0.25	1.83	21.474
Week 5	04-06-2024	11:08:56	16.707	96.5	7.57	53652	8.04	103.4	0.02	0.24	1.8	21.833
Week 5	04-06-2024	11:08:57	16.707	96.5	7.57	53652	8.04	103.5	0.01	0.25	1.83	21.85
Week 5	04-06-2024	11:08:58	16.708	96.5	7.57	53652	8.04	103.5	0.02	0.26	1.87	22.03
Week 5	04-06-2024	11:08:59	16.707	96.5	7.57	53653	8.04	103.6	0.02	0.26	1.87	22.209
Week 5	04-06-2024	11:09:00	16.707	96.5	7.57	53653	8.04	103.7	0.02	0.26	1.85	22.286
Week 5	04-06-2024	11:09:01	16.707	96.4	7.57	53653	8.04	103.7	0.03	0.26	1.85	22.308
Week 5	04-06-2024	11:09:02	16.706	96.4	7.57	53653	8.04	103.8	0.02	0.26	1.87	22.368
Week 5	04-06-2024	11:09:03	16.706	96.4	7.57	53653	8.04	103.9	0.02	0.28	1.92	22.358
Week 5	04-06-2024	11:09:04	16.705	96.4	7.57	53653	8.04	104	0.02	0.28	1.92	22.337
Week 5	04-06-2024	11:09:05	16.704	96.4	7.57	53652	8.04	104	0.03	0.29	1.98	22.366
Week 5	04-06-2024	11:09:06	16.703	96.4	7.57	53652	8.04	104.1	0.02	0.27	1.89	22.375
Week 5	04-06-2024	11:09:07	16.702	96.4	7.57	53652	8.04	104.2	0.02	0.28	1.92	22.371
Week 5	04-06-2024	11:09:08	16.701	96.4	7.57	53651	8.04	104.2	0.02	0.25	1.83	22.395
Week 5	04-06-2024	11:09:09	16.7	96.4	7.57	53652	8.04	104.3	0.02	0.23	1.77	22.411
Week 5	04-06-2024	11:09:10	16.7	96.4	7.57	53651	8.04	104.4	0.04	0.22	1.71	22.418
Week 5	04-06-2024	11:09:11	16.699	96.4	7.57	53651	8.04	104.4	0.04	0.23	1.75	22.435
Week 5	04-06-2024	11:09:12	16.699	96.4	7.57	53652	8.04	104.5	0.04	0.24	1.77	22.452
Week 5	04-06-2024	11:09:13	16.699	96.4	7.57	53651	8.04	104.6	0.04	0.24	1.79	22.469
Week 5	04-06-2024	11:09:14	16.7	96.4	7.57	53651	8.04	104.6	0.03	0.22	1.73	22.504
Week 5	04-06-2024	11:09:15	16.7	96.4	7.57	53652	8.04	104.7	0.02	0.22	1.71	23.378
Week 5	04-06-2024	11:09:16	16.7	96.4	7.57	53652	8.04	104.8	0.02	0.2	1.64	23.454
Week 5	04-06-2024	11:09:17	16.7	96.4	7.57	53652	8.04	104.8	0.02	0.21	1.68	23.092
Week 5	04-06-2024	11:09:18	16.7	96.4	7.57	53652	8.04	104.9	0.02	0.19	1.62	23.385
Week 5	04-06-2024	11:09:19	16.7	96.4	7.57	53652	8.04	105	0.02	0.2	1.62	23.328
Week 5	04-06-2024	11:09:20	16.7	96.4	7.57	53653	8.04	105	0.02	0.21	1.66	23.125
Week 5	04-06-2024	11:09:21	16.7	96.5	7.57	53653	8.04	105.1	0.02	0.2	1.63	22.931
Week 5	04-06-2024	11:09:22	16.7	96.5	7.57	53653	8.04	105.2	0.02	0.18	1.57	22.834
Week 5	04-06-2024	11:09:23	16.701	96.5	7.57	53653	8.04	105.2	0.02	0.17	1.53	21.869
Week 5	04-06-2024	11:09:24	16.701	96.5	7.57	53652	8.04	105.3	0.02	0.16	1.51	21.904
Week 5	04-06-2024	11:09:25	16.701	96.5	7.57	53652	8.04	105.4	0.02	0.17	1.52	21.715
Week 5	04-06-2024	11:09:26	16.701	96.5	7.57	53652	8.04	105.4	0.02	0.17	1.54	21.601
Week 5	04-06-2024	11:09:27	16.7	96.5	7.57	53653	8.04	105.5	0.03	0.19	1.59	21.32
Week 5	04-06-2024	11:09:28	16.7	96.5	7.57	53652	8.04	105.5	0.03	0.18	1.55	21.081
Week 5	04-06-2024	11:09:29	16.7	96.5	7.57	53652	8.04	105.6	0.03	0.18	1.56	20.983
Week 5	04-06-2024	11:09:30	16.7	96.5	7.57	53652	8.04	105.7	0.04	0.18	1.59	20.872
Week 5	04-06-2024	11:09:31	16.7	96.5	7.57	53653	8.04	105.7	0.04	0.19	1.6	20.735
Week 5	04-06-2024	11:09:32	16.701	96.5	7.57	53652	8.04	105.8	0.04	0.2	1.65	20.618
Week 5	04-06-2024	11:09:33	16.701	96.5	7.57	53652	8.04	105.9	0.05	0.22	1.71	19.577
Week 5	04-06-2024	11:09:34	16.701	96.5	7.58	53652	8.04	105.9	0.05	0.23	1.75	19.311
Week 5	04-06-2024	11:09:35	16.702	96.5	7.58	53652	8.04	106	0.05	0.24	1.79	19.53
Week 5	04-06-2024	11:09:36	16.702	96.5	7.58	53652	8.04	106.1	0.05	0.23	1.77	19.149
Week 5	04-06-2024	11:09:37	16.702	96.6	7.58	53653	8.04	106.1	0.05	0.24	1.78	19.123
Week 5	04-06-2024	11:09:38	16.702	96.6	7.58	53652	8.04	106.2	0.05	0.23	1.76	19.112
Week 5	04-06-2024	11:09:39	16.703	96.6	7.58	53652	8.04	106.2	0.05	0.24	1.77	19.063
Week 5	04-06-2024	11:09:40	16.703	96.6	7.58	53652	8.04	106.3	0.05	0.25	1.81	19.016
Week 5	04-06-2024	11:09:41	16.703	96.6	7.58	53652	8.04	106.3	0.05	0.23	1.76	18.986
Week 5	04-06-2024	11:09:42	16.703	96.6	7.58	53652	8.04	106.4	0.04	0.24	1.77	18.921
Week 5	04-06-2024	11:09:43	16.704	96.6	7.58	53652	8.04	106.5	0.05	0.24	1.77	18.488
Week 5	04-06-2024	11:09:44	16.704	96.6	7.58	53651	8.04	106.5	0.05	0.23	1.75	17.944
Week 5	04-06-2024	11:09:45	16.704	96.6	7.58	53652	8.04	106.6	0.05	0.23	1.73	17.73
Week 5	04-06-2024	11:09:46	16.704	96.6	7.58	53651	8.04	106.6	0.04	0.21	1.67	17.797
Week 5	04-06-2024	11:09:47	16.704	96.6	7.58	53651	8.04	106.7	0.05	0.21	1.69	17.893
Week 5	04-06-2024	11:09:48	16.704	96.6	7.58	53652	8.04	106.8	0.03	0.21	1.67	17.837
Week 5	04-06-2024	11:09:49	16.704	96.6	7.58	53652	8.04	106.8	0.03	0.22	1.71	17.763
Week 5	04-06-2024	11:09:50	16.704	96.6	7.58	53652	8.04	106.9	0.03	0.24	1.77	17.691
Week 5	04-06-2024	11:09:51	16.704	96.6	7.58	53652	8.04	107	0.02	0.23	1.76	17.636
Week 5	04-06-2024	11:09:52	16.705	96.6	7.58	53652	8.04	107	0.02	0.25	1.82	17.578
Week 5	04-06-2024	11:09:53	16.705	96.6	7.58	53653	8.04	107	0.02	0.23	1.75	16.757
Week 5	04-06-2024	11:09:54	16.705	96.6	7.58	53653	8.04	107.1	0.02	0.23	1.74	16.873
Week 5	04-06-2024	11:09:55	16.706	96.7	7.58	53654	8.04	107.1	0.02	0.22	1.7	16.611

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 5	04-06-2024	11:09:56	16.706	96.7	7.58	53654	8.04	107.2	0.01	0.2	1.64	16.523
Week 5	04-06-2024	11:09:57	16.707	96.7	7.58	53654	8.04	107.3	0.01	0.21	1.69	16.426
Week 5	04-06-2024	11:09:58	16.708	96.7	7.58	53654	8.04	107.3	0	0.21	1.7	16.371
Week 5	04-06-2024	11:09:59	16.708	96.7	7.58	53655	8.04	107.4	0	0.21	1.69	16.278
Week 5	04-06-2024	11:10:00	16.709	96.7	7.58	53655	8.04	107.4	0	0.21	1.66	16.177
Week 5	04-06-2024	11:10:01	16.71	96.7	7.59	53655	8.04	107.5	0	0.2	1.66	16.071
Week 5	04-06-2024	11:10:02	16.711	96.7	7.59	53655	8.04	107.5	0	0.2	1.65	15.979
Week 5	04-06-2024	11:10:03	16.712	96.7	7.59	53655	8.04	107.6	0	0.2	1.64	15.895
Week 5	04-06-2024	11:10:04	16.713	96.7	7.59	53656	8.04	107.7	0.01	0.2	1.63	15.157
Week 5	04-06-2024	11:10:05	16.714	96.7	7.59	53655	8.04	107.7	0.02	0.21	1.67	14.931
Week 5	04-06-2024	11:10:06	16.715	96.7	7.59	53655	8.04	107.8	0.02	0.22	1.72	14.691
Week 5	04-06-2024	11:10:07	16.716	96.7	7.59	53655	8.04	107.8	0.03	0.22	1.72	14.574
Week 5	04-06-2024	11:10:08	16.717	96.7	7.59	53655	8.04	107.9	0.03	0.21	1.69	14.518
Week 5	04-06-2024	11:10:09	16.718	96.7	7.59	53655	8.04	107.9	0.03	0.21	1.68	14.444
Week 5	04-06-2024	11:10:10	16.719	96.7	7.59	53655	8.04	108	0.02	0.22	1.7	14.286
Week 5	04-06-2024	11:10:11	16.719	96.7	7.59	53655	8.04	108	0.02	0.23	1.73	14.224
Week 5	04-06-2024	11:10:12	16.72	96.7	7.59	53654	8.04	108.1	0.02	0.23	1.73	14.14
Week 5	04-06-2024	11:10:13	16.72	96.7	7.59	53654	8.04	108.2	0.03	0.22	1.7	14.051
Week 5	04-06-2024	11:10:14	16.721	96.7	7.59	53653	8.04	108.2	0.03	0.21	1.67	13.097
Week 5	04-06-2024	11:10:15	16.721	96.7	7.59	53653	8.04	108.2	0.04	0.22	1.71	12.895
Week 5	04-06-2024	11:10:16	16.721	96.7	7.59	53653	8.04	108.3	0.05	0.22	1.72	12.699
Week 5	04-06-2024	11:10:17	16.722	96.7	7.59	53652	8.04	108.4	0.05	0.21	1.69	12.458
Week 5	04-06-2024	11:10:18	16.722	96.7	7.59	53652	8.04	108.4	0.04	0.22	1.73	12.406
Week 5	04-06-2024	11:10:19	16.722	96.7	7.59	53652	8.04	108.5	0.04	0.23	1.74	12.318
Week 5	04-06-2024	11:10:20	16.723	96.7	7.59	53653	8.04	108.6	0.05	0.23	1.73	12.191
Week 5	04-06-2024	11:10:21	16.723	96.7	7.59	53653	8.04	108.6	0.05	0.22	1.7	12.071
Week 5	04-06-2024	11:10:22	16.724	96.8	7.59	53652	8.04	108.7	0.06	0.22	1.7	11.949
Week 5	04-06-2024	11:10:23	16.725	96.8	7.59	53652	8.04	108.7	0.06	0.21	1.67	11.105
Week 5	04-06-2024	11:10:24	16.726	96.8	7.59	53652	8.04	108.7	0.05	0.21	1.67	10.777
Week 5	04-06-2024	11:10:25	16.726	96.8	7.59	53652	8.04	108.8	0.06	0.21	1.66	10.677
Week 5	04-06-2024	11:10:26	16.727	96.8	7.59	53652	8.04	108.9	0.06	0.2	1.63	10.632
Week 5	04-06-2024	11:10:27	16.728	96.8	7.59	53652	8.04	108.9	0.06	0.18	1.58	10.481
Week 5	04-06-2024	11:10:28	16.729	96.8	7.59	53652	8.04	109	0.06	0.18	1.57	10.391
Week 5	04-06-2024	11:10:29	16.73	96.8	7.59	53652	8.04	109	0.06	0.18	1.57	10.342
Week 5	04-06-2024	11:10:30	16.73	96.8	7.59	53652	8.04	109.1	0.05	0.19	1.6	10.249
Week 5	04-06-2024	11:10:31	16.731	96.8	7.59	53652	8.04	109.1	0.05	0.18	1.55	10.155
Week 5	04-06-2024	11:10:32	16.732	96.8	7.59	53652	8.04	109.2	0.05	0.18	1.57	10.082
Week 5	04-06-2024	11:10:33	16.732	96.8	7.59	53651	8.04	109.2	0.05	0.18	1.55	9.197
Week 5	04-06-2024	11:10:34	16.732	96.8	7.59	53651	8.04	109.3	0.04	0.17	1.55	9.099
Week 5	04-06-2024	11:10:35	16.732	96.8	7.59	53651	8.04	109.3	0.04	0.17	1.53	9.046
Week 5	04-06-2024	11:10:36	16.732	96.9	7.59	53650	8.04	109.4	0.04	0.18	1.57	8.687
Week 5	04-06-2024	11:10:37	16.732	96.9	7.6	53650	8.04	109.4	0.03	0.19	1.6	8.554
Week 5	04-06-2024	11:10:38	16.732	96.9	7.6	53649	8.04	109.5	0.03	0.2	1.64	8.466
Week 5	04-06-2024	11:10:39	16.732	96.9	7.6	53649	8.04	109.5	0.03	0.19	1.62	8.416
Week 5	04-06-2024	11:10:40	16.732	96.9	7.6	53649	8.04	109.6	0.04	0.19	1.61	8.283
Week 5	04-06-2024	11:10:41	16.732	96.9	7.6	53649	8.04	109.6	0.03	0.19	1.6	8.183
Week 5	04-06-2024	11:10:42	16.732	96.9	7.6	53648	8.04	109.7	0.03	0.18	1.56	8.111
Week 5	04-06-2024	11:10:43	16.732	96.9	7.6	53648	8.04	109.7	0.02	0.18	1.56	7.23
Week 5	04-06-2024	11:10:44	16.732	96.9	7.6	53648	8.04	109.8	0.01	0.18	1.56	7.239
Week 5	04-06-2024	11:10:45	16.732	96.9	7.6	53648	8.04	109.8	0.01	0.18	1.56	7.216
Week 5	04-06-2024	11:10:46	16.732	96.9	7.6	53649	8.04	109.9	0.01	0.18	1.58	6.709
Week 5	04-06-2024	11:10:47	16.732	96.9	7.6	53651	8.04	109.9	0.02	0.18	1.57	6.654
Week 5	04-06-2024	11:10:48	16.732	96.9	7.6	53653	8.04	109.9	0.02	0.19	1.6	6.665
Week 5	04-06-2024	11:10:49	16.732	96.9	7.6	53656	8.04	110	0.02	0.19	1.6	6.62
Week 5	04-06-2024	11:10:50	16.732	96.9	7.6	53660	8.04	110.1	0.01	0.21	1.67	6.508
Week 5	04-06-2024	11:10:51	16.733	96.9	7.6	53664	8.04	110.1	0.02	0.21	1.68	6.402
Week 5	04-06-2024	11:10:52	16.733	97	7.6	53669	8.04	110.1	0.02	0.21	1.67	6.309
Week 5	04-06-2024	11:10:53	16.733	97	7.6	53675	8.04	110.2	0.01	0.21	1.69	5.359
Week 5	04-06-2024	11:10:54	16.734	97	7.6	53681	8.04	110.2	0.01	0.21	1.68	5.221
Week 5	04-06-2024	11:10:55	16.734	97	7.6	53685	8.04	110.3	0.01	0.2	1.63	4.951
Week 5	04-06-2024	11:10:56	16.734	97	7.6	53689	8.04	110.3	0.01	0.17	1.54	4.938
Week 5	04-06-2024	11:10:57	16.734	97	7.6	53692	8.04	110.4	0.01	0.17	1.52	4.876
Week 5	04-06-2024	11:10:58	16.735	97	7.6	53695	8.04	110.4	0.02	0.17	1.52	4.707
Week 5	04-06-2024	11:10:59	16.735	97	7.61	53695	8.04	110.5	0.02	0.15	1.47	4.614
Week 5	04-06-2024	11:11:00	16.735	97	7.61	53695	8.04	110.5	0.01	0.15	1.45	4.563
Week 5	04-06-2024	11:11:01	16.735	97	7.61	53693	8.04	110.5	0.01	0.13	1.4	4.512
Week 5	04-06-2024	11:11:02	16.735	97	7.61	53691	8.04	110.6	0.02	0.13	1.39	4.45

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 5	04-06-2024	11:11:03	16.735	97	7.61	53688	8.04	110.6	0.01	0.14	1.41	4.403
Week 5	04-06-2024	11:11:04	16.735	97	7.61	53684	8.04	110.7	0.02	0.14	1.43	4.367
Week 5	04-06-2024	11:11:05	16.735	97	7.61	53677	8.04	110.7	0.01	0.16	1.49	4.334
Week 5	04-06-2024	11:11:06	16.734	97.1	7.61	53670	8.04	110.8	0.02	0.17	1.52	4.292
Week 5	04-06-2024	11:11:07	16.734	97.1	7.61	53662	8.04	110.8	0.02	0.19	1.59	4.262
Week 5	04-06-2024	11:11:08	16.734	97.1	7.61	53655	8.04	110.8	0.04	0.2	1.64	4.234
Week 5	04-06-2024	11:11:09	16.734	97.1	7.61	53648	8.04	110.9	0.05	0.2	1.64	4.198
Week 5	04-06-2024	11:11:10	16.735	97.1	7.61	53643	8.04	110.9	0.04	0.2	1.63	3.493
Week 5	04-06-2024	11:11:11	16.735	97.1	7.61	53638	8.04	111	0.04	0.2	1.65	3.317
Week 5	04-06-2024	11:11:12	16.735	97.1	7.61	53634	8.04	111	0.05	0.21	1.69	2.97
Week 5	04-06-2024	11:11:13	16.735	97.1	7.61	53631	8.04	111	0.04	0.22	1.72	2.894
Week 5	04-06-2024	11:11:14	16.736	97.1	7.61	53628	8.04	111.1	0.04	0.21	1.68	2.916
Week 5	04-06-2024	11:11:15	16.736	97.1	7.61	53625	8.04	111.1	0.05	0.22	1.73	2.794
Week 5	04-06-2024	11:11:16	16.736	97.1	7.62	53623	8.04	111.2	0.04	0.22	1.72	2.665
Week 5	04-06-2024	11:11:17	16.736	97.1	7.62	53621	8.04	111.2	0.04	0.2	1.65	2.589
Week 5	04-06-2024	11:11:18	16.737	97.1	7.62	53620	8.04	111.3	0.03	0.21	1.67	2.508
Week 5	04-06-2024	11:11:19	16.737	97.1	7.62	53623	8.04	111.3	0.03	0.21	1.68	2.413
Week 5	04-06-2024	11:11:20	16.737	97.1	7.62	53626	8.04	111.3	0.04	0.22	1.72	2.337
Week 5	04-06-2024	11:11:21	16.737	97.1	7.62	53629	8.04	111.4	0.03	0.23	1.76	1.439
Week 5	04-06-2024	11:11:22	16.737	97.2	7.62	53632	8.04	111.4	0.03	0.22	1.7	1.356
Week 5	04-06-2024	11:11:23	16.737	97.2	7.62	53635	8.04	111.5	0	0.2	1.63	1.044
Week 5	04-06-2024	11:11:24	16.737	97.2	7.62	53637	8.04	111.5	0	0.18	1.59	0.983
Week 5	04-06-2024	11:11:25	16.737	97.2	7.62	53639	8.04	111.5	0.01	0.19	1.62	0.945
Week 5	04-06-2024	11:11:26	16.737	97.2	7.62	53642	8.04	111.6	0.01	0.19	1.61	0.862
Week 5	04-06-2024	11:11:27	16.736	97.2	7.62	53644	8.04	111.6	0.01	0.2	1.64	0.806
Week 5	04-06-2024	11:11:28	16.736	97.2	7.62	53644	8.04	111.6	0	0.22	1.73	0.756
Week 5	04-06-2024	11:11:29	16.737	97.2	7.62	53644	8.04	111.7	0	0.22	1.7	0.72
Week 5	04-06-2024	11:11:30	16.737	97.2	7.62	53644	8.04	111.7	0	0.21	1.67	0.684
Week 5	04-06-2024	11:11:31	16.737	97.2	7.62	53643	8.04	111.8	0	0.19	1.61	0.652
Week 5	04-06-2024	11:11:32	16.737	97.2	7.62	53640	8.04	111.8	0.01	0.2	1.65	0.611
Week 5	04-06-2024	11:11:33	16.738	97.2	7.62	53637	8.04	111.9	0.01	0.21	1.67	0.584
Week 5	04-06-2024	11:11:34	16.738	97.2	7.62	53634	8.04	111.9	0.02	0.22	1.71	0.553
Week 5	04-06-2024	11:11:35	16.739	97.2	7.62	53632	8.04	111.9	3.08	0.23	1.74	0.521
Week 6	12-06-2024	10:25:54	16.955	97.7	7.63	53643	8.07	74.1	0.01	0.1	1.28	1.729
Week 6	12-06-2024	10:25:55	16.955	97.9	7.64	53644	8.07	74.4	-0.01	0.09	1.24	1.788
Week 6	12-06-2024	10:25:56	16.955	97.9	7.65	53645	8.06	74.7	-0.01	0.09	1.26	1.867
Week 6	12-06-2024	10:25:57	16.955	98	7.65	53645	8.06	75	0	0.1	1.28	1.95
Week 6	12-06-2024	10:25:58	16.955	98	7.65	53645	8.06	75.2	-0.01	0.1	1.26	2.023
Week 6	12-06-2024	10:25:59	16.954	98	7.65	53646	8.06	75.5	-0.01	0.09	1.25	2.078
Week 6	12-06-2024	10:26:00	16.954	98	7.65	53646	8.06	75.8	0	0.1	1.26	2.122
Week 6	12-06-2024	10:26:01	16.954	97.9	7.65	53646	8.06	76	-0.02	0.11	1.3	2.157
Week 6	12-06-2024	10:26:02	16.954	97.9	7.65	53647	8.06	76.3	-0.01	0.12	1.36	2.185
Week 6	12-06-2024	10:26:03	16.954	97.9	7.65	53647	8.06	76.5	0	0.11	1.32	2.214
Week 6	12-06-2024	10:26:04	16.954	97.9	7.65	53648	8.06	76.7	0	0.13	1.37	2.255
Week 6	12-06-2024	10:26:05	16.954	97.9	7.65	53648	8.06	77	-0.01	0.14	1.41	3.012
Week 6	12-06-2024	10:26:06	16.954	97.9	7.65	53649	8.06	77.2	-0.01	0.15	1.44	3.2
Week 6	12-06-2024	10:26:07	16.953	97.9	7.64	53649	8.06	77.4	-0.01	0.16	1.48	3.182
Week 6	12-06-2024	10:26:08	16.953	97.8	7.64	53650	8.06	77.6	-0.02	0.16	1.5	3.286
Week 6	12-06-2024	10:26:09	16.953	97.7	7.63	53651	8.06	77.8	-0.02	0.17	1.54	3.305
Week 6	12-06-2024	10:26:10	16.953	97.7	7.63	53651	8.06	78	-0.01	0.17	1.54	3.324
Week 6	12-06-2024	10:26:11	16.953	97.6	7.62	53652	8.06	78.2	-0.01	0.18	1.57	3.345
Week 6	12-06-2024	10:26:12	16.953	97.6	7.62	53652	8.06	78.4	-0.01	0.18	1.58	3.364
Week 6	12-06-2024	10:26:13	16.953	97.5	7.62	53653	8.06	78.8	-0.01	0.16	1.5	3.403
Week 6	12-06-2024	10:26:14	16.952	97.5	7.61	53653	8.06	79.2	-0.02	0.17	1.54	3.453
Week 6	12-06-2024	10:26:15	16.952	97.4	7.61	53654	8.06	79.6	-0.02	0.16	1.5	3.497
Week 6	12-06-2024	10:26:16	16.952	97.4	7.6	53654	8.06	80	-0.01	0.16	1.49	3.524
Week 6	12-06-2024	10:26:17	16.952	97.3	7.6	53654	8.06	80.4	-0.03	0.16	1.51	3.546
Week 6	12-06-2024	10:26:18	16.952	97.3	7.6	53655	8.06	80.8	-0.02	0.15	1.45	3.576
Week 6	12-06-2024	10:26:19	16.952	97.3	7.6	53655	8.06	81.2	-0.03	0.14	1.41	3.612
Week 6	12-06-2024	10:26:20	16.952	97.2	7.59	53656	8.06	81.5	-0.03	0.14	1.42	3.657
Week 6	12-06-2024	10:26:21	16.952	97.2	7.59	53656	8.06	81.9	-0.03	0.14	1.42	3.697
Week 6	12-06-2024	10:26:22	16.952	97.2	7.59	53657	8.05	82.3	-0.03	0.13	1.38	4.439
Week 6	12-06-2024	10:26:23	16.952	97.2	7.59	53657	8.05	82.6	-0.03	0.13	1.38	4.279
Week 6	12-06-2024	10:26:24	16.952	97.1	7.58	53657	8.05	83	-0.03	0.13	1.39	4.255
Week 6	12-06-2024	10:26:25	16.952	97.1	7.58	53658	8.05	83.3	-0.03	0.13	1.38	4.358
Week 6	12-06-2024	10:26:26	16.952	97.1	7.58	53658	8.05	83.6	-0.03	0.14	1.43	4.476
Week 6	12-06-2024	10:26:27	16.952	97.1	7.58	53659	8.05	83.9	-0.02	0.15	1.45	4.547

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 6	12-06-2024	10:26:28	16.952	97	7.58	53659	8.05	84.2	-0.02	0.13	1.4	4.587
Week 6	12-06-2024	10:26:29	16.952	97	7.58	53659	8.05	84.5	-0.02	0.13	1.39	4.668
Week 6	12-06-2024	10:26:30	16.952	97	7.57	53660	8.05	84.8	-0.02	0.14	1.43	4.728
Week 6	12-06-2024	10:26:31	16.952	97	7.57	53660	8.05	85.1	-0.02	0.14	1.43	4.784
Week 6	12-06-2024	10:26:32	16.952	97	7.57	53660	8.05	85.3	-0.02	0.14	1.42	4.838
Week 6	12-06-2024	10:26:33	16.952	96.9	7.57	53661	8.05	85.6	-0.02	0.15	1.44	4.876
Week 6	12-06-2024	10:26:34	16.952	96.9	7.57	53661	8.05	85.9	-0.01	0.14	1.42	4.903
Week 6	12-06-2024	10:26:35	16.952	96.9	7.57	53661	8.05	86.1	-0.01	0.14	1.43	4.935
Week 6	12-06-2024	10:26:36	16.952	96.9	7.56	53661	8.05	86.4	0	0.14	1.42	4.978
Week 6	12-06-2024	10:26:37	16.952	96.9	7.56	53661	8.05	86.7	-0.01	0.12	1.35	5.029
Week 6	12-06-2024	10:26:38	16.952	96.8	7.56	53662	8.05	86.9	0	0.12	1.33	5.068
Week 6	12-06-2024	10:26:39	16.952	96.8	7.56	53662	8.05	87.2	-0.01	0.12	1.35	5.764
Week 6	12-06-2024	10:26:40	16.952	96.8	7.56	53662	8.05	87.4	-0.01	0.13	1.4	5.888
Week 6	12-06-2024	10:26:41	16.952	96.8	7.56	53663	8.05	87.6	-0.02	0.13	1.39	5.989
Week 6	12-06-2024	10:26:42	16.952	96.8	7.56	53663	8.05	87.9	-0.03	0.14	1.41	6.05
Week 6	12-06-2024	10:26:43	16.952	96.8	7.56	53663	8.05	88.2	-0.03	0.15	1.44	6.112
Week 6	12-06-2024	10:26:44	16.952	96.8	7.56	53663	8.05	88.3	-0.03	0.13	1.41	6.142
Week 6	12-06-2024	10:26:45	16.952	96.8	7.55	53664	8.05	88.6	-0.02	0.14	1.43	6.154
Week 6	12-06-2024	10:26:46	16.951	96.7	7.55	53665	8.05	88.8	-0.02	0.14	1.42	6.195
Week 6	12-06-2024	10:26:47	16.951	96.7	7.55	53665	8.05	89.1	-0.01	0.16	1.5	6.252
Week 6	12-06-2024	10:26:48	16.951	96.7	7.55	53665	8.05	89.3	-0.01	0.17	1.52	6.294
Week 6	12-06-2024	10:26:49	16.951	96.7	7.55	53666	8.05	89.5	-0.01	0.17	1.52	6.339
Week 6	12-06-2024	10:26:50	16.951	96.7	7.55	53667	8.05	89.7	-0.01	0.17	1.53	6.401
Week 6	12-06-2024	10:26:51	16.951	96.7	7.55	53667	8.05	89.9	-0.02	0.17	1.55	6.451
Week 6	12-06-2024	10:26:52	16.951	96.7	7.55	53667	8.05	90.1	-0.02	0.18	1.57	6.505
Week 6	12-06-2024	10:26:53	16.951	96.7	7.55	53668	8.05	90.3	-0.01	0.17	1.53	6.546
Week 6	12-06-2024	10:26:54	16.95	96.6	7.55	53668	8.05	90.5	-0.01	0.16	1.51	6.579
Week 6	12-06-2024	10:26:55	16.95	96.6	7.54	53668	8.05	90.7	-0.01	0.17	1.53	6.602
Week 6	12-06-2024	10:26:56	16.95	96.6	7.54	53669	8.05	90.9	-0.01	0.16	1.51	6.627
Week 6	12-06-2024	10:26:57	16.95	96.6	7.54	53670	8.05	91.1	0	0.17	1.53	6.652
Week 6	12-06-2024	10:26:58	16.95	96.6	7.54	53671	8.05	91.3	0	0.17	1.53	6.686
Week 6	12-06-2024	10:26:59	16.95	96.6	7.54	53672	8.05	91.5	0	0.17	1.54	7.378
Week 6	12-06-2024	10:27:00	16.949	96.6	7.54	53673	8.05	91.7	-0.01	0.19	1.59	7.537
Week 6	12-06-2024	10:27:01	16.949	96.6	7.54	53675	8.05	91.9	-0.01	0.18	1.56	7.811
Week 6	12-06-2024	10:27:02	16.949	96.6	7.54	53675	8.05	92.1	0	0.17	1.52	7.875
Week 6	12-06-2024	10:27:03	16.948	96.5	7.54	53677	8.05	92.3	-0.01	0.17	1.52	7.867
Week 6	12-06-2024	10:27:04	16.948	96.5	7.54	53677	8.05	92.5	-0.01	0.17	1.54	7.886
Week 6	12-06-2024	10:27:05	16.947	96.5	7.54	53678	8.05	92.6	-0.02	0.18	1.57	7.933
Week 6	12-06-2024	10:27:06	16.947	96.5	7.54	53679	8.05	92.8	-0.02	0.17	1.54	7.967
Week 6	12-06-2024	10:27:07	16.947	96.5	7.54	53680	8.05	93	-0.02	0.18	1.57	7.996
Week 6	12-06-2024	10:27:08	16.946	96.5	7.54	53681	8.05	93.2	-0.02	0.18	1.55	8.038
Week 6	12-06-2024	10:27:09	16.946	96.5	7.54	53682	8.05	93.4	-0.02	0.17	1.54	8.075
Week 6	12-06-2024	10:27:10	16.945	96.5	7.53	53682	8.05	93.5	-0.02	0.18	1.56	8.125
Week 6	12-06-2024	10:27:11	16.945	96.5	7.53	53683	8.05	93.7	-0.02	0.18	1.57	8.187
Week 6	12-06-2024	10:27:12	16.945	96.5	7.53	53682	8.05	93.9	-0.02	0.19	1.61	8.23
Week 6	12-06-2024	10:27:13	16.945	96.5	7.53	53682	8.05	94.1	-0.01	0.2	1.62	8.276
Week 6	12-06-2024	10:27:14	16.945	96.5	7.53	53681	8.05	94.2	-0.01	0.18	1.57	8.325
Week 6	12-06-2024	10:27:15	16.945	96.5	7.53	53681	8.05	94.4	0	0.18	1.58	8.367
Week 6	12-06-2024	10:27:16	16.945	96.5	7.53	53680	8.05	94.5	-0.01	0.19	1.61	8.414
Week 6	12-06-2024	10:27:17	16.945	96.4	7.53	53680	8.05	94.7	-0.02	0.21	1.69	8.452
Week 6	12-06-2024	10:27:18	16.945	96.4	7.53	53679	8.05	94.9	-0.02	0.21	1.69	8.489
Week 6	12-06-2024	10:27:19	16.945	96.4	7.53	53679	8.05	95	-0.02	0.21	1.69	9.306
Week 6	12-06-2024	10:27:20	16.945	96.4	7.53	53679	8.05	95.2	-0.02	0.21	1.68	9.488
Week 6	12-06-2024	10:27:21	16.945	96.4	7.53	53677	8.05	95.3	-0.02	0.2	1.66	9.398
Week 6	12-06-2024	10:27:22	16.945	96.4	7.53	53676	8.05	95.5	-0.01	0.2	1.65	9.349
Week 6	12-06-2024	10:27:23	16.945	96.4	7.53	53674	8.05	95.6	-0.02	0.19	1.6	9.364
Week 6	12-06-2024	10:27:24	16.944	96.4	7.53	53672	8.05	95.8	-0.02	0.17	1.54	9.468
Week 6	12-06-2024	10:27:25	16.944	96.4	7.53	53671	8.05	95.9	-0.01	0.19	1.59	9.593
Week 6	12-06-2024	10:27:26	16.944	96.4	7.53	53670	8.05	96.1	-0.01	0.17	1.55	9.704
Week 6	12-06-2024	10:27:27	16.944	96.4	7.53	53669	8.05	96.2	-0.01	0.16	1.48	9.825
Week 6	12-06-2024	10:27:28	16.944	96.4	7.53	53668	8.05	96.4	-0.02	0.16	1.51	9.893
Week 6	12-06-2024	10:27:29	16.944	96.4	7.53	53667	8.05	96.6	-0.03	0.16	1.5	9.961
Week 6	12-06-2024	10:27:30	16.944	96.4	7.53	53666	8.05	96.7	-0.03	0.17	1.55	10.005
Week 6	12-06-2024	10:27:31	16.943	96.4	7.53	53665	8.05	96.8	-0.02	0.18	1.57	10.047
Week 6	12-06-2024	10:27:32	16.943	96.4	7.53	53664	8.05	97	-0.03	0.18	1.58	10.821
Week 6	12-06-2024	10:27:33	16.943	96.4	7.53	53664	8.05	97.1	-0.02	0.18	1.56	10.924
Week 6	12-06-2024	10:27:34	16.943	96.4	7.52	53664	8.05	97.3	-0.02	0.18	1.55	10.969

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 6	12-06-2024	10:27:35	16.942	96.3	7.52	53664	8.05	97.4	-0.02	0.19	1.59	11.075
Week 6	12-06-2024	10:27:36	16.942	96.3	7.52	53664	8.05	97.5	-0.03	0.18	1.56	11.137
Week 6	12-06-2024	10:27:37	16.942	96.3	7.52	53665	8.05	97.7	-0.02	0.19	1.6	11.219
Week 6	12-06-2024	10:27:38	16.941	96.3	7.52	53665	8.05	97.8	-0.02	0.2	1.63	11.277
Week 6	12-06-2024	10:27:39	16.941	96.3	7.52	53665	8.05	97.9	-0.02	0.18	1.58	11.319
Week 6	12-06-2024	10:27:40	16.94	96.3	7.52	53666	8.05	98.1	-0.02	0.19	1.6	11.354
Week 6	12-06-2024	10:27:41	16.94	96.3	7.52	53666	8.05	98.2	-0.02	0.18	1.56	11.403
Week 6	12-06-2024	10:27:42	16.939	96.3	7.52	53666	8.05	98.3	-0.02	0.18	1.55	11.438
Week 6	12-06-2024	10:27:43	16.939	96.3	7.52	53667	8.05	98.5	-0.02	0.19	1.61	11.483
Week 6	12-06-2024	10:27:44	16.938	96.3	7.52	53667	8.05	98.6	-0.01	0.2	1.64	12.251
Week 6	12-06-2024	10:27:45	16.938	96.3	7.52	53667	8.05	98.7	-0.01	0.21	1.66	12.235
Week 6	12-06-2024	10:27:46	16.938	96.3	7.52	53667	8.05	98.9	-0.01	0.22	1.7	12.491
Week 6	12-06-2024	10:27:47	16.938	96.2	7.52	53667	8.05	99	-0.01	0.23	1.74	12.61
Week 6	12-06-2024	10:27:48	16.937	96.2	7.52	53667	8.05	99.1	-0.01	0.22	1.71	12.626
Week 6	12-06-2024	10:27:49	16.936	96.2	7.52	53667	8.04	99.2	-0.01	0.22	1.71	12.704
Week 6	12-06-2024	10:27:50	16.936	96.2	7.52	53667	8.04	99.3	-0.01	0.23	1.74	12.726
Week 6	12-06-2024	10:27:51	16.935	96.2	7.51	53667	8.04	99.5	0	0.23	1.76	12.747
Week 6	12-06-2024	10:27:52	16.935	96.2	7.51	53668	8.04	99.6	0	0.24	1.78	12.765
Week 6	12-06-2024	10:27:53	16.934	96.2	7.51	53668	8.04	99.7	0	0.23	1.76	12.776
Week 6	12-06-2024	10:27:54	16.933	96.2	7.51	53668	8.04	99.9	-0.01	0.22	1.71	12.818
Week 6	12-06-2024	10:27:55	16.933	96.2	7.51	53669	8.04	100	-0.01	0.22	1.73	12.876
Week 6	12-06-2024	10:27:56	16.933	96.2	7.51	53669	8.04	100.1	0	0.22	1.72	13.629
Week 6	12-06-2024	10:27:57	16.932	96.2	7.51	53669	8.04	100.2	-0.01	0.22	1.72	13.668
Week 6	12-06-2024	10:27:58	16.931	96.2	7.51	53669	8.04	100.3	0	0.22	1.71	13.685
Week 6	12-06-2024	10:27:59	16.931	96.2	7.51	53669	8.04	100.4	0	0.23	1.74	13.632
Week 6	12-06-2024	10:28:00	16.93	96.2	7.51	53669	8.04	100.6	-0.01	0.24	1.78	13.646
Week 6	12-06-2024	10:28:01	16.93	96.1	7.51	53668	8.04	100.7	0	0.24	1.78	13.654
Week 6	12-06-2024	10:28:02	16.93	96.1	7.51	53669	8.04	100.8	0	0.24	1.77	13.701
Week 6	12-06-2024	10:28:03	16.93	96.1	7.51	53669	8.04	100.9	-0.01	0.23	1.76	13.744
Week 6	12-06-2024	10:28:04	16.93	96.1	7.51	53670	8.04	101	-0.01	0.24	1.8	13.783
Week 6	12-06-2024	10:28:05	16.93	96.1	7.51	53669	8.04	101.1	-0.01	0.25	1.82	13.823
Week 6	12-06-2024	10:28:06	16.93	96.1	7.51	53669	8.04	101.2	-0.01	0.25	1.81	13.869
Week 6	12-06-2024	10:28:07	16.929	96.1	7.51	53669	8.04	101.3	-0.02	0.25	1.82	13.933
Week 6	12-06-2024	10:28:08	16.929	96.1	7.51	53669	8.04	101.4	-0.01	0.25	1.82	13.975
Week 6	12-06-2024	10:28:09	16.928	96.1	7.51	53669	8.04	101.6	-0.02	0.24	1.79	14.017
Week 6	12-06-2024	10:28:10	16.927	96.1	7.51	53670	8.04	101.7	-0.02	0.23	1.77	14.055
Week 6	12-06-2024	10:28:11	16.926	96.1	7.51	53671	8.04	101.8	-0.03	0.22	1.72	14.089
Week 6	12-06-2024	10:28:12	16.925	96.1	7.51	53671	8.04	101.9	-0.03	0.21	1.69	14.121
Week 6	12-06-2024	10:28:13	16.924	96.1	7.51	53671	8.04	102	-0.03	0.22	1.73	14.967
Week 6	12-06-2024	10:28:14	16.923	96.1	7.51	53671	8.04	102.1	-0.03	0.23	1.74	15.129
Week 6	12-06-2024	10:28:15	16.922	96.1	7.5	53672	8.04	102.2	-0.03	0.22	1.72	15.158
Week 6	12-06-2024	10:28:16	16.921	96.1	7.5	53672	8.04	102.3	-0.04	0.23	1.75	15.185
Week 6	12-06-2024	10:28:17	16.919	96.1	7.5	53673	8.04	102.4	-0.04	0.24	1.78	15.208
Week 6	12-06-2024	10:28:18	16.919	96	7.5	53673	8.04	102.5	-0.03	0.25	1.83	15.185
Week 6	12-06-2024	10:28:19	16.918	96	7.5	53673	8.04	102.6	-0.03	0.24	1.78	15.198
Week 6	12-06-2024	10:28:20	16.918	96	7.5	53673	8.04	102.7	-0.03	0.26	1.86	15.252
Week 6	12-06-2024	10:28:21	16.918	96	7.5	53673	8.04	102.8	-0.03	0.27	1.9	15.304
Week 6	12-06-2024	10:28:22	16.918	96	7.5	53673	8.04	102.9	-0.03	0.27	1.9	15.346
Week 6	12-06-2024	10:28:23	16.918	96	7.5	53672	8.04	103	-0.03	0.27	1.9	15.379
Week 6	12-06-2024	10:28:24	16.918	96	7.5	53672	8.04	103.1	-0.02	0.27	1.89	15.41
Week 6	12-06-2024	10:28:25	16.918	96	7.5	53672	8.04	103.2	-0.03	0.27	1.91	15.443
Week 6	12-06-2024	10:28:26	16.918	96	7.5	53672	8.04	103.3	-0.03	0.29	1.96	15.468
Week 6	12-06-2024	10:28:27	16.918	96	7.5	53672	8.04	103.4	-0.02	0.29	1.96	15.5
Week 6	12-06-2024	10:28:28	16.919	96	7.5	53672	8.04	103.5	-0.02	0.29	1.98	15.535
Week 6	12-06-2024	10:28:29	16.919	96	7.5	53671	8.04	103.6	-0.01	0.3	2.01	15.566
Week 6	12-06-2024	10:28:30	16.919	96	7.5	53671	8.04	103.7	-0.01	0.31	2.02	15.602
Week 6	12-06-2024	10:28:31	16.919	96	7.5	53670	8.04	103.8	-0.01	0.3	2.01	15.639
Week 6	12-06-2024	10:28:32	16.919	96	7.5	53670	8.04	103.9	0	0.3	2.01	16.451
Week 6	12-06-2024	10:28:33	16.919	96	7.5	53670	8.04	104	0	0.3	2.02	16.652
Week 6	12-06-2024	10:28:34	16.918	96	7.5	53670	8.04	104.1	0	0.32	2.08	16.7
Week 6	12-06-2024	10:28:35	16.918	96	7.5	53669	8.04	104.2	0	0.33	2.11	16.552
Week 6	12-06-2024	10:28:36	16.918	96	7.5	53669	8.04	104.3	-0.01	0.32	2.07	16.563
Week 6	12-06-2024	10:28:37	16.918	96	7.5	53669	8.04	104.4	-0.01	0.33	2.13	16.58
Week 6	12-06-2024	10:28:38	16.917	96	7.5	53669	8.04	104.6	0	0.33	2.12	16.584
Week 6	12-06-2024	10:28:39	16.917	96	7.5	53668	8.04	104.7	-0.01	0.32	2.08	16.608
Week 6	12-06-2024	10:28:40	16.916	95.9	7.5	53668	8.04	104.8	0.01	0.31	2.05	16.69
Week 6	12-06-2024	10:28:41	16.915	95.9	7.5	53668	8.04	104.9	0.01	0.32	2.09	16.787

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 6	12-06-2024	10:28:42	16.914	95.9	7.5	53669	8.04	105	0.01	0.33	2.13	17.519
Week 6	12-06-2024	10:28:43	16.913	95.9	7.5	53669	8.04	105.1	0.01	0.34	2.17	17.553
Week 6	12-06-2024	10:28:44	16.912	95.9	7.5	53669	8.04	105.2	0	0.35	2.18	17.566
Week 6	12-06-2024	10:28:45	16.911	95.9	7.49	53669	8.04	105.3	0	0.34	2.16	17.71
Week 6	12-06-2024	10:28:46	16.909	95.9	7.49	53669	8.04	105.4	-0.01	0.34	2.16	17.902
Week 6	12-06-2024	10:28:47	16.908	95.9	7.49	53669	8.04	105.5	-0.02	0.35	2.17	18.051
Week 6	12-06-2024	10:28:48	16.907	95.9	7.49	53670	8.04	105.6	-0.02	0.32	2.09	18.148
Week 6	12-06-2024	10:28:49	16.905	95.9	7.49	53670	8.04	105.7	-0.02	0.32	2.08	18.238
Week 6	12-06-2024	10:28:50	16.903	95.8	7.49	53671	8.04	105.8	-0.01	0.33	2.12	18.322
Week 6	12-06-2024	10:28:51	16.901	95.8	7.49	53671	8.04	105.9	0	0.34	2.16	18.385
Week 6	12-06-2024	10:28:52	16.899	95.8	7.49	53671	8.04	106	-0.01	0.34	2.16	19.117
Week 6	12-06-2024	10:28:53	16.897	95.8	7.49	53671	8.04	106.1	-0.01	0.32	2.08	19.202
Week 6	12-06-2024	10:28:54	16.896	95.8	7.49	53671	8.04	106.2	0	0.32	2.07	19.169
Week 6	12-06-2024	10:28:55	16.895	95.8	7.48	53671	8.04	106.3	-0.01	0.32	2.07	19.479
Week 6	12-06-2024	10:28:56	16.893	95.7	7.48	53671	8.04	106.4	-0.01	0.32	2.07	19.55
Week 6	12-06-2024	10:28:57	16.892	95.7	7.48	53671	8.03	106.5	-0.02	0.31	2.03	19.594
Week 6	12-06-2024	10:28:58	16.89	95.7	7.48	53671	8.03	106.6	-0.02	0.3	2	19.638
Week 6	12-06-2024	10:28:59	16.888	95.7	7.48	53671	8.03	106.7	-0.02	0.29	1.96	19.685
Week 6	12-06-2024	10:29:00	16.885	95.7	7.48	53670	8.03	106.8	-0.01	0.28	1.92	19.761
Week 6	12-06-2024	10:29:01	16.882	95.6	7.48	53669	8.03	106.9	0	0.24	1.77	19.807
Week 6	12-06-2024	10:29:02	16.88	95.6	7.48	53668	8.03	107	0.01	0.21	1.69	19.823
Week 6	12-06-2024	10:29:03	16.877	95.6	7.48	53667	8.03	107	0	0.19	1.59	19.868
Week 6	12-06-2024	10:29:04	16.874	95.6	7.47	53665	8.03	107.1	0	0.19	1.62	19.908
Week 6	12-06-2024	10:29:05	16.868	95.5	7.47	53664	8.03	107.2	-0.01	0.18	1.57	19.957
Week 6	12-06-2024	10:29:06	16.862	95.5	7.47	53662	8.03	107.3	-0.01	0.18	1.56	20.743
Week 6	12-06-2024	10:29:07	16.856	95.4	7.46	53661	8.03	107.4	0	0.17	1.55	20.765
Week 6	12-06-2024	10:29:08	16.85	95.4	7.46	53658	8.03	107.4	0	0.15	1.47	20.848
Week 6	12-06-2024	10:29:09	16.843	95.3	7.46	53656	8.03	107.5	0	0.16	1.49	20.7
Week 6	12-06-2024	10:29:10	16.838	95.2	7.45	53654	8.03	107.6	0	0.17	1.53	20.674
Week 6	12-06-2024	10:29:11	16.831	95.1	7.45	53653	8.03	107.7	0	0.18	1.56	20.644
Week 6	12-06-2024	10:29:12	16.827	95	7.44	53652	8.03	107.7	0.01	0.18	1.57	20.588
Week 6	12-06-2024	10:29:13	16.824	95	7.43	53652	8.03	107.8	0.01	0.17	1.54	20.597
Week 6	12-06-2024	10:29:14	16.82	94.9	7.43	53651	8.03	107.9	0.01	0.18	1.57	20.668
Week 6	12-06-2024	10:29:15	16.816	94.8	7.42	53650	8.03	108	0.01	0.17	1.52	20.746
Week 6	12-06-2024	10:29:16	16.811	94.7	7.41	53649	8.03	108	0.01	0.18	1.55	21.455
Week 6	12-06-2024	10:29:17	16.807	94.6	7.41	53648	8.03	108.1	0	0.18	1.58	21.373
Week 6	12-06-2024	10:29:18	16.804	94.5	7.4	53647	8.03	108.2	0	0.19	1.59	21.473
Week 6	12-06-2024	10:29:19	16.801	94.4	7.39	53647	8.03	108.3	0.01	0.19	1.62	21.459
Week 6	12-06-2024	10:29:20	16.799	94.3	7.39	53646	8.03	108.4	0.02	0.2	1.63	21.474
Week 6	12-06-2024	10:29:21	16.797	94.2	7.38	53646	8.03	108.4	0.02	0.19	1.62	21.584
Week 6	12-06-2024	10:29:22	16.793	94.1	7.37	53646	8.03	108.5	0.02	0.18	1.59	21.767
Week 6	12-06-2024	10:29:23	16.788	94	7.36	53645	8.03	108.6	0.01	0.19	1.6	21.917
Week 6	12-06-2024	10:29:24	16.782	93.9	7.36	53643	8.03	108.7	0.01	0.19	1.59	22.734
Week 6	12-06-2024	10:29:25	16.776	93.8	7.35	53641	8.03	108.7	0.02	0.18	1.59	22.713
Week 6	12-06-2024	10:29:26	16.768	93.7	7.34	53639	8.02	108.8	0.02	0.19	1.6	22.848
Week 6	12-06-2024	10:29:27	16.763	93.5	7.33	53637	8.02	108.9	0.02	0.17	1.54	22.82
Week 6	12-06-2024	10:29:28	16.757	93.4	7.32	53635	8.02	109	0.02	0.15	1.46	23.013
Week 6	12-06-2024	10:29:29	16.752	93.3	7.31	53634	8.02	109	0.03	0.15	1.44	23.249
Week 6	12-06-2024	10:29:30	16.747	93.1	7.3	53633	8.02	109.1	0.03	0.16	1.48	23.344
Week 6	12-06-2024	10:29:31	16.742	93	7.29	53631	8.02	109.2	0.04	0.15	1.46	23.389
Week 6	12-06-2024	10:29:32	16.735	92.9	7.28	53630	8.02	109.3	0.04	0.15	1.45	23.422
Week 6	12-06-2024	10:29:33	16.729	92.8	7.27	53629	8.02	109.3	0.05	0.14	1.44	23.498
Week 6	12-06-2024	10:29:34	16.724	92.6	7.26	53628	8.02	109.4	0.04	0.15	1.48	23.58
Week 6	12-06-2024	10:29:35	16.72	92.5	7.25	53627	8.02	109.5	0.03	0.17	1.53	24.25
Week 6	12-06-2024	10:29:36	16.716	92.4	7.25	53627	8.02	109.6	0.04	0.18	1.56	24.347
Week 6	12-06-2024	10:29:37	16.712	92.2	7.23	53627	8.02	109.6	0.06	0.18	1.58	24.31
Week 6	12-06-2024	10:29:38	16.709	92.1	7.23	53626	8.02	109.7	0.06	0.18	1.56	24.318
Week 6	12-06-2024	10:29:39	16.706	92	7.22	53626	8.02	109.8	0.05	0.18	1.58	24.444
Week 6	12-06-2024	10:29:40	16.703	91.8	7.21	53626	8.02	109.9	0.05	0.17	1.54	24.509
Week 6	12-06-2024	10:29:41	16.7	91.7	7.2	53625	8.02	110	0.06	0.18	1.56	24.579
Week 6	12-06-2024	10:29:42	16.696	91.6	7.19	53625	8.02	110	0.06	0.19	1.59	24.688
Week 6	12-06-2024	10:29:43	16.692	91.5	7.18	53625	8.02	110.1	0.07	0.18	1.58	24.757
Week 6	12-06-2024	10:29:44	16.689	91.4	7.17	53624	8.01	110.2	0.08	0.19	1.6	24.82
Week 6	12-06-2024	10:29:45	16.686	91.2	7.16	53623	8.01	110.3	0.07	0.19	1.59	24.854
Week 6	12-06-2024	10:29:46	16.684	91.1	7.15	53623	8.01	110.3	0.07	0.18	1.56	24.894
Week 6	12-06-2024	10:29:47	16.681	91	7.14	53623	8.01	110.4	0.06	0.19	1.62	24.941
Week 6	12-06-2024	10:29:48	16.678	90.9	7.14	53622	8.01	110.5	0.07	0.19	1.6	25.651

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 6	12-06-2024	10:29:49	16.676	90.8	7.13	53622	8.01	110.5	0.07	0.2	1.65	25.766
Week 6	12-06-2024	10:29:50	16.673	90.7	7.12	53621	8.01	110.6	0.07	0.21	1.67	25.955
Week 6	12-06-2024	10:29:51	16.671	90.5	7.11	53620	8.01	110.7	0.07	0.22	1.72	25.837
Week 6	12-06-2024	10:29:52	16.668	90.4	7.1	53620	8.01	110.7	0.06	0.22	1.72	25.787
Week 6	12-06-2024	10:29:53	16.665	90.3	7.09	53619	8.01	110.8	0.07	0.21	1.68	25.801
Week 6	12-06-2024	10:29:54	16.663	90.2	7.09	53618	8.01	110.9	0.07	0.21	1.67	25.885
Week 6	12-06-2024	10:29:55	16.661	90.1	7.08	53618	8.01	110.9	0.07	0.21	1.68	25.958
Week 6	12-06-2024	10:29:56	16.66	90	7.07	53617	8.01	111	0.07	0.21	1.68	25.971
Week 6	12-06-2024	10:29:57	16.659	89.9	7.06	53617	8.01	111.1	0.05	0.2	1.65	26.009
Week 6	12-06-2024	10:29:58	16.659	89.8	7.06	53616	8.01	111.1	0.06	0.19	1.61	26.064
Week 6	12-06-2024	10:29:59	16.658	89.7	7.05	53616	8.01	111.2	0.05	0.19	1.6	26.119
Week 6	12-06-2024	10:30:00	16.658	89.7	7.04	53615	8.01	111.3	0.06	0.19	1.59	26.158
Week 6	12-06-2024	10:30:01	16.658	89.6	7.04	53615	8.01	111.3	0.06	0.19	1.6	26.15
Week 6	12-06-2024	10:30:02	16.658	89.5	7.03	53615	8.01	111.4	0.06	0.18	1.56	26.111
Week 6	12-06-2024	10:30:03	16.658	89.5	7.03	53614	8.01	111.4	0.06	0.17	1.53	26.063
Week 6	12-06-2024	10:30:04	16.658	89.4	7.02	53614	8.01	111.5	0.06	0.17	1.52	26.02
Week 6	12-06-2024	10:30:05	16.659	89.4	7.02	53614	8.01	111.6	0.06	0.17	1.53	25.205
Week 6	12-06-2024	10:30:06	16.66	89.3	7.02	53614	8.01	111.6	0.06	0.17	1.54	25.105
Week 6	12-06-2024	10:30:07	16.661	89.3	7.01	53614	8.01	111.7	0.06	0.16	1.51	24.888
Week 6	12-06-2024	10:30:08	16.662	89.2	7.01	53615	8.01	111.7	0.06	0.15	1.47	24.643
Week 6	12-06-2024	10:30:09	16.664	89.2	7.01	53615	8.01	111.8	0.06	0.14	1.44	24.603
Week 6	12-06-2024	10:30:10	16.665	89.2	7	53615	8.01	111.8	0.06	0.14	1.42	24.524
Week 6	12-06-2024	10:30:11	16.667	89.2	7	53617	8.01	111.9	0.06	0.13	1.4	24.542
Week 6	12-06-2024	10:30:12	16.668	89.1	7	53617	8.01	111.9	0.05	0.13	1.37	24.568
Week 6	12-06-2024	10:30:13	16.67	89.1	7	53617	8.01	112	0.05	0.13	1.38	24.561
Week 6	12-06-2024	10:30:14	16.671	89.1	7	53618	8.01	112	0.05	0.13	1.38	24.55
Week 6	12-06-2024	10:30:15	16.672	89.1	7	53619	8.01	112.1	0.05	0.14	1.42	24.517
Week 6	12-06-2024	10:30:16	16.673	89.1	7	53619	8.01	112.1	0.07	0.15	1.46	24.479
Week 6	12-06-2024	10:30:17	16.674	89.1	6.99	53620	8.01	112.2	0.07	0.16	1.5	24.428
Week 6	12-06-2024	10:30:18	16.675	89.1	6.99	53620	8.01	112.2	0.07	0.17	1.54	24.392
Week 6	12-06-2024	10:30:19	16.675	89.1	6.99	53621	8.01	112.3	0.07	0.2	1.63	24.358
Week 6	12-06-2024	10:30:20	16.676	89.1	6.99	53621	8.01	112.3	0.07	0.2	1.62	24.31
Week 6	12-06-2024	10:30:21	16.677	89.1	6.99	53620	8.01	112.4	0.07	0.2	1.65	23.545
Week 6	12-06-2024	10:30:22	16.678	89.1	6.99	53619	8.01	112.4	0.06	0.2	1.65	23.601
Week 6	12-06-2024	10:30:23	16.68	89.1	6.99	53619	8.01	112.5	0.05	0.2	1.65	23.347
Week 6	12-06-2024	10:30:24	16.681	89.1	6.99	53619	8.01	112.5	0.04	0.19	1.61	23.361
Week 6	12-06-2024	10:30:25	16.683	89.1	6.99	53619	8.01	112.6	0.05	0.19	1.62	23.374
Week 6	12-06-2024	10:30:26	16.685	89.1	6.99	53619	8.01	112.6	0.06	0.18	1.58	23.365
Week 6	12-06-2024	10:30:27	16.687	89.1	6.99	53619	8.01	112.7	0.06	0.18	1.58	23.363
Week 6	12-06-2024	10:30:28	16.689	89.1	7	53619	8.01	112.7	0.06	0.17	1.52	23.325
Week 6	12-06-2024	10:30:29	16.691	89.1	7	53620	8.01	112.8	0.05	0.16	1.49	23.281
Week 6	12-06-2024	10:30:30	16.694	89.2	7	53620	8.01	112.8	0.05	0.16	1.51	23.224
Week 6	12-06-2024	10:30:31	16.696	89.2	7	53620	8.02	112.9	0.04	0.17	1.54	23.157
Week 6	12-06-2024	10:30:32	16.7	89.2	7	53621	8.02	112.9	0.05	0.16	1.51	22.38
Week 6	12-06-2024	10:30:33	16.703	89.2	7	53622	8.02	113	0.06	0.17	1.54	22.307
Week 6	12-06-2024	10:30:34	16.707	89.3	7.01	53624	8.02	113	0.06	0.17	1.53	22.322
Week 6	12-06-2024	10:30:35	16.711	89.3	7.01	53627	8.02	113.1	0.08	0.17	1.55	22.266
Week 6	12-06-2024	10:30:36	16.716	89.4	7.01	53629	8.02	113.1	0.08	0.17	1.52	22.198
Week 6	12-06-2024	10:30:37	16.72	89.4	7.02	53631	8.02	113.2	0.08	0.17	1.54	22.163
Week 6	12-06-2024	10:30:38	16.724	89.5	7.02	53634	8.02	113.2	0.08	0.17	1.53	22.184
Week 6	12-06-2024	10:30:39	16.728	89.6	7.02	53635	8.02	113.3	0.07	0.18	1.56	22.158
Week 6	12-06-2024	10:30:40	16.733	89.6	7.03	53637	8.02	113.3	0.07	0.19	1.61	22.123
Week 6	12-06-2024	10:30:41	16.737	89.7	7.03	53639	8.02	113.3	0.07	0.18	1.58	22.07
Week 6	12-06-2024	10:30:42	16.742	89.8	7.04	53641	8.02	113.4	0.07	0.19	1.6	21.998
Week 6	12-06-2024	10:30:43	16.748	89.9	7.05	53644	8.02	113.4	0.06	0.2	1.64	21.933
Week 6	12-06-2024	10:30:44	16.752	90	7.05	53646	8.02	113.5	0.06	0.21	1.67	21.213
Week 6	12-06-2024	10:30:45	16.757	90	7.06	53648	8.02	113.5	0.06	0.23	1.74	21.088
Week 6	12-06-2024	10:30:46	16.761	90.1	7.07	53649	8.02	113.6	0.05	0.24	1.77	20.969
Week 6	12-06-2024	10:30:47	16.764	90.2	7.07	53651	8.02	113.6	0.05	0.25	1.81	20.938
Week 6	12-06-2024	10:30:48	16.767	90.3	7.08	53652	8.02	113.7	0.05	0.25	1.83	20.893
Week 6	12-06-2024	10:30:49	16.771	90.4	7.08	53653	8.02	113.7	0.05	0.24	1.79	20.891
Week 6	12-06-2024	10:30:50	16.774	90.5	7.09	53654	8.02	113.8	0.04	0.23	1.74	20.897
Week 6	12-06-2024	10:30:51	16.777	90.6	7.1	53655	8.02	113.8	0.04	0.24	1.78	20.848
Week 6	12-06-2024	10:30:52	16.781	90.7	7.11	53656	8.02	113.9	0.03	0.24	1.8	20.765
Week 6	12-06-2024	10:30:53	16.786	90.8	7.11	53657	8.02	113.9	0.04	0.23	1.76	20.703
Week 6	12-06-2024	10:30:54	16.789	90.9	7.12	53659	8.03	113.9	0.03	0.22	1.72	20.652
Week 6	12-06-2024	10:30:55	16.793	91	7.13	53660	8.03	114	0.03	0.2	1.66	20.639

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 6	12-06-2024	10:30:56	16.796	91.1	7.13	53660	8.03	114	0.03	0.19	1.61	20.63
Week 6	12-06-2024	10:30:57	16.799	91.2	7.14	53661	8.03	114.1	0.03	0.19	1.59	20.619
Week 6	12-06-2024	10:30:58	16.801	91.3	7.15	53661	8.03	114.1	0.03	0.18	1.56	20.591
Week 6	12-06-2024	10:30:59	16.803	91.3	7.15	53662	8.03	114.2	0.04	0.18	1.58	20.551
Week 6	12-06-2024	10:31:00	16.805	91.4	7.16	53662	8.03	114.2	0.03	0.18	1.59	19.807
Week 6	12-06-2024	10:31:01	16.807	91.5	7.17	53662	8.03	114.2	0.04	0.19	1.62	19.716
Week 6	12-06-2024	10:31:02	16.808	91.6	7.17	53662	8.03	114.3	0.03	0.18	1.58	19.879
Week 6	12-06-2024	10:31:03	16.808	91.7	7.18	53663	8.03	114.3	0.02	0.17	1.53	19.848
Week 6	12-06-2024	10:31:04	16.809	91.7	7.18	53664	8.03	114.4	0.02	0.17	1.52	19.763
Week 6	12-06-2024	10:31:05	16.81	91.8	7.19	53665	8.03	114.4	0.01	0.17	1.52	19.657
Week 6	12-06-2024	10:31:06	16.812	91.9	7.19	53666	8.03	114.5	0.02	0.18	1.58	19.57
Week 6	12-06-2024	10:31:07	16.816	91.9	7.2	53665	8.03	114.5	0.01	0.2	1.65	19.465
Week 6	12-06-2024	10:31:08	16.82	92	7.2	53666	8.03	114.6	0.01	0.19	1.6	19.33
Week 6	12-06-2024	10:31:09	16.825	92.1	7.21	53667	8.03	114.6	0.01	0.21	1.66	18.732
Week 6	12-06-2024	10:31:10	16.831	92.2	7.22	53668	8.03	114.6	0.01	0.2	1.65	18.733
Week 6	12-06-2024	10:31:11	16.836	92.3	7.22	53669	8.03	114.7	0.01	0.19	1.61	18.666
Week 6	12-06-2024	10:31:12	16.842	92.4	7.23	53671	8.03	114.7	0.01	0.21	1.68	18.701
Week 6	12-06-2024	10:31:13	16.848	92.5	7.24	53672	8.03	114.8	0	0.21	1.69	18.672
Week 6	12-06-2024	10:31:14	16.854	92.6	7.25	53674	8.03	114.8	0	0.22	1.7	18.601
Week 6	12-06-2024	10:31:15	16.86	92.7	7.25	53675	8.03	114.9	0.01	0.22	1.72	17.681
Week 6	12-06-2024	10:31:16	16.867	92.8	7.26	53676	8.03	114.9	0.01	0.24	1.79	17.805
Week 6	12-06-2024	10:31:17	16.873	93	7.27	53676	8.03	115	0.01	0.24	1.78	17.689
Week 6	12-06-2024	10:31:18	16.878	93.1	7.28	53676	8.03	115	0.01	0.23	1.75	17.731
Week 6	12-06-2024	10:31:19	16.881	93.2	7.29	53677	8.03	115	0.01	0.25	1.81	17.68
Week 6	12-06-2024	10:31:20	16.884	93.3	7.3	53678	8.04	115.1	0.02	0.24	1.78	17.539
Week 6	12-06-2024	10:31:21	16.886	93.4	7.31	53678	8.04	115.1	0.01	0.25	1.83	17.392
Week 6	12-06-2024	10:31:22	16.887	93.5	7.31	53678	8.04	115.2	0.01	0.26	1.85	17.229
Week 6	12-06-2024	10:31:23	16.889	93.7	7.32	53678	8.04	115.2	0	0.24	1.8	17.118
Week 6	12-06-2024	10:31:24	16.89	93.8	7.33	53678	8.04	115.3	0	0.24	1.8	17.05
Week 6	12-06-2024	10:31:25	16.891	93.9	7.34	53678	8.04	115.3	0	0.25	1.82	16.974
Week 6	12-06-2024	10:31:26	16.893	93.9	7.34	53678	8.04	115.3	-0.01	0.25	1.81	16.919
Week 6	12-06-2024	10:31:27	16.894	94	7.35	53677	8.04	115.4	0	0.23	1.76	16.862
Week 6	12-06-2024	10:31:28	16.895	94.1	7.36	53677	8.04	115.4	0	0.24	1.77	16.803
Week 6	12-06-2024	10:31:29	16.896	94.2	7.36	53677	8.04	115.5	-0.01	0.23	1.73	15.74
Week 6	12-06-2024	10:31:30	16.897	94.3	7.37	53676	8.04	115.5	-0.02	0.22	1.7	15.774
Week 6	12-06-2024	10:31:31	16.898	94.3	7.37	53676	8.04	115.5	-0.02	0.23	1.75	15.74
Week 6	12-06-2024	10:31:32	16.899	94.4	7.38	53676	8.04	115.6	-0.02	0.21	1.68	15.748
Week 6	12-06-2024	10:31:33	16.9	94.5	7.38	53675	8.04	115.6	-0.02	0.21	1.69	15.75
Week 6	12-06-2024	10:31:34	16.901	94.5	7.39	53675	8.04	115.7	-0.02	0.23	1.74	15.781
Week 6	12-06-2024	10:31:35	16.901	94.6	7.39	53675	8.04	115.7	-0.02	0.22	1.71	15.756
Week 6	12-06-2024	10:31:36	16.902	94.6	7.4	53676	8.04	115.8	-0.02	0.21	1.67	15.667
Week 6	12-06-2024	10:31:37	16.902	94.7	7.4	53675	8.04	115.8	-0.03	0.2	1.64	14.859
Week 6	12-06-2024	10:31:38	16.903	94.7	7.4	53675	8.04	115.9	-0.03	0.19	1.62	14.71
Week 6	12-06-2024	10:31:39	16.903	94.8	7.41	53676	8.04	115.9	-0.03	0.19	1.59	14.722
Week 6	12-06-2024	10:31:40	16.904	94.8	7.41	53675	8.04	116	-0.03	0.19	1.61	14.727
Week 6	12-06-2024	10:31:41	16.906	94.9	7.41	53675	8.04	116	-0.02	0.19	1.6	14.72
Week 6	12-06-2024	10:31:42	16.907	94.9	7.42	53676	8.04	116	-0.02	0.17	1.54	14.616
Week 6	12-06-2024	10:31:43	16.908	94.9	7.42	53676	8.04	116.1	-0.02	0.18	1.57	14.477
Week 6	12-06-2024	10:31:44	16.909	95	7.42	53676	8.04	116.1	-0.02	0.17	1.53	13.606
Week 6	12-06-2024	10:31:45	16.91	95	7.43	53677	8.04	116.2	-0.02	0.17	1.53	13.756
Week 6	12-06-2024	10:31:46	16.911	95.1	7.43	53677	8.04	116.2	-0.03	0.19	1.59	13.583
Week 6	12-06-2024	10:31:47	16.912	95.1	7.43	53677	8.04	116.2	-0.03	0.2	1.64	13.302
Week 6	12-06-2024	10:31:48	16.913	95.1	7.43	53677	8.04	116.3	-0.03	0.21	1.67	13.402
Week 6	12-06-2024	10:31:49	16.915	95.2	7.44	53676	8.04	116.4	-0.04	0.21	1.68	13.377
Week 6	12-06-2024	10:31:50	16.916	95.2	7.44	53677	8.04	116.4	-0.03	0.22	1.7	13.251
Week 6	12-06-2024	10:31:51	16.917	95.2	7.44	53677	8.04	116.4	-0.02	0.22	1.71	13.108
Week 6	12-06-2024	10:31:52	16.919	95.3	7.44	53677	8.04	116.5	-0.02	0.23	1.73	13.034
Week 6	12-06-2024	10:31:53	16.92	95.3	7.45	53678	8.04	116.5	-0.02	0.24	1.78	12.943
Week 6	12-06-2024	10:31:54	16.921	95.3	7.45	53678	8.04	116.5	-0.03	0.23	1.75	12.885
Week 6	12-06-2024	10:31:55	16.922	95.4	7.45	53678	8.04	116.6	-0.02	0.24	1.77	12.809
Week 6	12-06-2024	10:31:56	16.923	95.4	7.45	53679	8.04	116.6	-0.02	0.24	1.78	11.884
Week 6	12-06-2024	10:31:57	16.923	95.4	7.45	53679	8.04	116.7	-0.03	0.23	1.73	11.751
Week 6	12-06-2024	10:31:58	16.924	95.4	7.46	53679	8.04	116.7	-0.02	0.23	1.75	11.553
Week 6	12-06-2024	10:31:59	16.924	95.5	7.46	53680	8.04	116.7	-0.02	0.24	1.77	11.554
Week 6	12-06-2024	10:32:00	16.925	95.5	7.46	53681	8.04	116.8	-0.02	0.24	1.8	11.565
Week 6	12-06-2024	10:32:01	16.926	95.5	7.46	53682	8.04	116.8	-0.02	0.26	1.85	11.559
Week 6	12-06-2024	10:32:02	16.926	95.5	7.46	53684	8.04	116.9	-0.02	0.26	1.85	11.514

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 6	12-06-2024	10:32:03	16.927	95.6	7.46	53687	8.04	116.9	-0.02	0.26	1.86	11.449
Week 6	12-06-2024	10:32:04	16.927	95.6	7.47	53688	8.04	116.9	-0.02	0.25	1.83	11.377
Week 6	12-06-2024	10:32:05	16.927	95.6	7.47	53690	8.04	117	-0.03	0.27	1.91	10.373
Week 6	12-06-2024	10:32:06	16.928	95.6	7.47	53691	8.04	117	-0.03	0.27	1.9	10.294
Week 6	12-06-2024	10:32:07	16.928	95.6	7.47	53692	8.04	117.1	-0.03	0.27	1.88	10.293
Week 6	12-06-2024	10:32:08	16.928	95.6	7.47	53692	8.04	117.1	-0.02	0.26	1.86	10.367
Week 6	12-06-2024	10:32:09	16.928	95.7	7.47	53692	8.04	117.1	-0.03	0.27	1.89	10.291
Week 6	12-06-2024	10:32:10	16.929	95.7	7.47	53693	8.04	117.2	-0.02	0.27	1.89	10.137
Week 6	12-06-2024	10:32:11	16.929	95.7	7.47	53693	8.04	117.2	-0.02	0.25	1.83	9.973
Week 6	12-06-2024	10:32:12	16.93	95.7	7.48	53693	8.04	117.3	-0.03	0.23	1.75	9.798
Week 6	12-06-2024	10:32:13	16.93	95.7	7.48	53693	8.04	117.3	-0.02	0.22	1.7	9.096
Week 6	12-06-2024	10:32:14	16.931	95.7	7.48	53692	8.04	117.4	-0.02	0.21	1.68	9.161
Week 6	12-06-2024	10:32:15	16.932	95.8	7.48	53690	8.04	117.4	-0.02	0.21	1.67	9.13
Week 6	12-06-2024	10:32:16	16.934	95.8	7.48	53688	8.04	117.4	-0.02	0.21	1.67	9.018
Week 6	12-06-2024	10:32:17	16.935	95.8	7.48	53686	8.04	117.5	-0.03	0.2	1.65	8.926
Week 6	12-06-2024	10:32:18	16.936	95.8	7.48	53685	8.04	117.5	-0.03	0.2	1.63	8.874
Week 6	12-06-2024	10:32:19	16.937	95.8	7.48	53684	8.04	117.5	-0.02	0.19	1.59	8.776
Week 6	12-06-2024	10:32:20	16.938	95.9	7.49	53683	8.04	117.6	-0.02	0.18	1.56	8.673
Week 6	12-06-2024	10:32:21	16.939	95.9	7.49	53680	8.04	117.6	-0.02	0.16	1.5	7.873
Week 6	12-06-2024	10:32:22	16.94	95.9	7.49	53677	8.04	117.7	-0.02	0.16	1.51	7.89
Week 6	12-06-2024	10:32:23	16.94	95.9	7.49	53674	8.04	117.7	-0.03	0.18	1.57	7.955
Week 6	12-06-2024	10:32:24	16.941	95.9	7.49	53671	8.04	117.7	-0.03	0.17	1.55	7.896
Week 6	12-06-2024	10:32:25	16.941	95.9	7.49	53668	8.04	117.8	-0.03	0.18	1.58	7.789
Week 6	12-06-2024	10:32:26	16.941	95.9	7.49	53665	8.04	117.8	-0.02	0.19	1.6	7.653
Week 6	12-06-2024	10:32:27	16.941	95.9	7.49	53662	8.04	117.8	-0.02	0.17	1.55	7.569
Week 6	12-06-2024	10:32:28	16.941	95.9	7.49	53660	8.04	117.9	-0.02	0.18	1.56	7.467
Week 6	12-06-2024	10:32:29	16.94	96	7.49	53658	8.04	117.9	-0.02	0.18	1.57	7.381
Week 6	12-06-2024	10:32:30	16.94	96	7.49	53656	8.04	118	-0.01	0.19	1.61	7.303
Week 6	12-06-2024	10:32:31	16.94	96	7.5	53654	8.04	118	-0.01	0.18	1.58	7.257
Week 6	12-06-2024	10:32:32	16.941	96	7.5	53652	8.04	118.1	-0.01	0.18	1.57	7.241
Week 6	12-06-2024	10:32:33	16.941	96	7.5	53650	8.04	118.1	-0.01	0.17	1.54	7.218
Week 6	12-06-2024	10:32:34	16.941	96	7.5	53649	8.04	118.1	-0.01	0.16	1.5	7.177
Week 6	12-06-2024	10:32:35	16.941	96	7.5	53650	8.04	118.2	-0.01	0.14	1.43	7.133
Week 6	12-06-2024	10:32:36	16.942	96	7.5	53652	8.04	118.2	-0.02	0.13	1.4	7.09
Week 6	12-06-2024	10:32:37	16.942	96	7.5	53653	8.04	118.2	-0.01	0.12	1.35	6.037
Week 6	12-06-2024	10:32:38	16.942	96	7.5	53654	8.04	118.3	-0.01	0.12	1.36	5.988
Week 6	12-06-2024	10:32:39	16.943	96.1	7.5	53655	8.04	118.3	-0.01	0.12	1.35	6.068
Week 6	12-06-2024	10:32:40	16.943	96.1	7.5	53656	8.04	118.4	0	0.11	1.32	6.06
Week 6	12-06-2024	10:32:41	16.944	96.1	7.5	53657	8.04	118.4	0	0.1	1.27	6.04
Week 6	12-06-2024	10:32:42	16.945	96.1	7.5	53658	8.04	118.4	-0.01	0.1	1.28	5.952
Week 6	12-06-2024	10:32:43	16.945	96.1	7.5	53659	8.04	118.5	-0.01	0.1	1.28	5.804
Week 6	12-06-2024	10:32:44	16.946	96.1	7.51	53660	8.04	118.5	-0.01	0.1	1.29	5.012
Week 6	12-06-2024	10:32:45	16.946	96.1	7.51	53660	8.04	118.6	-0.01	0.1	1.26	5.063
Week 6	12-06-2024	10:32:46	16.946	96.1	7.51	53661	8.04	118.6	-0.01	0.11	1.3	5.112
Week 6	12-06-2024	10:32:47	16.946	96.1	7.51	53662	8.04	118.6	-0.01	0.11	1.31	5.086
Week 6	12-06-2024	10:32:48	16.947	96.1	7.51	53663	8.04	118.7	-0.01	0.1	1.29	4.961
Week 6	12-06-2024	10:32:49	16.947	96.1	7.51	53663	8.04	118.7	0	0.09	1.25	4.902
Week 6	12-06-2024	10:32:50	16.948	96.2	7.51	53664	8.04	118.7	0	0.1	1.27	4.85
Week 6	12-06-2024	10:32:51	16.949	96.2	7.51	53665	8.04	118.8	0	0.09	1.26	4.739
Week 6	12-06-2024	10:32:52	16.95	96.2	7.51	53665	8.04	118.8	0	0.09	1.26	4.663
Week 6	12-06-2024	10:32:53	16.95	96.2	7.51	53665	8.04	118.8	-0.01	0.09	1.25	4.6
Week 6	12-06-2024	10:32:54	16.951	96.2	7.51	53666	8.04	118.9	-0.01	0.09	1.24	4.544
Week 6	12-06-2024	10:32:55	16.952	96.2	7.51	53666	8.04	118.9	-0.01	0.08	1.21	3.676
Week 6	12-06-2024	10:32:56	16.952	96.2	7.51	53666	8.04	118.9	-0.01	0.09	1.23	3.536
Week 6	12-06-2024	10:32:57	16.953	96.2	7.51	53666	8.04	119	-0.01	0.09	1.23	3.358
Week 6	12-06-2024	10:32:58	16.953	96.2	7.51	53666	8.04	119	-0.01	0.1	1.26	3.373
Week 6	12-06-2024	10:32:59	16.954	96.2	7.51	53667	8.04	119	-0.01	0.09	1.24	3.322
Week 6	12-06-2024	10:33:00	16.954	96.2	7.51	53670	8.04	119.1	-0.01	0.09	1.24	3.158
Week 6	12-06-2024	10:33:01	16.954	96.2	7.51	53675	8.04	119.1	-0.01	0.09	1.23	2.976
Week 6	12-06-2024	10:33:02	16.955	96.2	7.51	53679	8.04	119.1	-0.02	0.07	1.18	2.86
Week 6	12-06-2024	10:33:03	16.955	96.2	7.51	53682	8.04	119.2	-0.02	0.08	1.2	2.78
Week 6	12-06-2024	10:33:04	16.955	96.3	7.51	53684	8.04	119.2	-0.02	0.08	1.2	2.709
Week 6	12-06-2024	10:33:05	16.956	96.3	7.51	53686	8.04	119.2	-0.02	0.07	1.18	1.86
Week 6	12-06-2024	10:33:06	16.956	96.3	7.52	53687	8.04	119.3	-0.02	0.08	1.2	1.592
Week 6	12-06-2024	10:33:07	16.957	96.3	7.52	53688	8.04	119.3	-0.02	0.08	1.19	1.496
Week 6	12-06-2024	10:33:08	16.957	96.3	7.52	53689	8.04	119.3	-0.02	0.06	1.12	1.43
Week 6	12-06-2024	10:33:09	16.957	96.3	7.52	53689	8.04	119.4	-0.02	0.05	1.09	1.392

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 6	12-06-2024	10:33:10	16.958	96.3	7.52	53690	8.04	119.4	-0.02	0.05	1.1	1.247
Week 6	12-06-2024	10:33:11	16.958	96.3	7.52	53689	8.04	119.4	-0.01	0.05	1.09	1.131
Week 6	12-06-2024	10:33:12	16.958	96.3	7.52	53689	8.05	119.5	-0.01	0.06	1.12	1.011
Week 6	12-06-2024	10:33:13	16.959	96.3	7.52	53686	8.05	119.5	-0.02	0.05	1.08	0.88
Week 6	12-06-2024	10:33:14	16.959	96.3	7.52	53682	8.05	119.5	-0.02	0.03	1.04	0.798
Week 6	12-06-2024	10:33:15	16.959	96.4	7.52	53677	8.05	119.6	-0.02	0.04	1.06	0.73
Week 6	12-06-2024	10:33:16	16.959	96.4	7.52	53673	8.05	119.6	0.53	0.06	1.14	0.667
Week 7	17-06-2024	10:40:11	16.572	97.2	9.47	53286	8.01	146.5	0.98	0.36	2.24	0.007
Week 7	17-06-2024	10:40:12	16.569	97.3	7.66	53265	8.02	146.1	0.92	0.33	2.13	0.01
Week 7	17-06-2024	10:40:13	16.564	97.4	7.67	53254	8.03	146	0.85	0.31	2.05	0.014
Week 7	17-06-2024	10:40:14	16.56	97.4	7.68	53265	8.03	146	0.78	0.26	1.84	0.024
Week 7	17-06-2024	10:40:15	16.556	97.5	7.68	53271	8.03	145.9	0.72	0.22	1.72	0.035
Week 7	17-06-2024	10:40:16	16.552	97.5	7.68	53278	8.03	145.8	0.65	0.19	1.61	0.048
Week 7	17-06-2024	10:40:17	16.547	97.5	7.68	53285	8.03	145.8	0.58	0.3	2	0.064
Week 7	17-06-2024	10:40:18	16.543	97.5	7.68	53292	8.03	145.7	0.51	0.36	2.21	0.807
Week 7	17-06-2024	10:40:19	16.539	97.5	7.68	53297	8.03	145.7	0.43	0.29	1.97	0.959
Week 7	17-06-2024	10:40:20	16.533	97.4	7.68	53305	8.03	145.7	0.35	0.21	1.68	0.949
Week 7	17-06-2024	10:40:21	16.525	97.4	7.68	53314	8.03	145.7	0.27	0.18	1.58	0.936
Week 7	17-06-2024	10:40:22	16.518	97.3	7.67	53325	8.03	145.6	0.19	0.17	1.54	1.089
Week 7	17-06-2024	10:40:23	16.514	97.2	7.66	53331	8.03	145.6	0.13	0.18	1.56	1.185
Week 7	17-06-2024	10:40:24	16.513	97	7.65	53332	8.03	145.6	0.06	0.18	1.56	1.243
Week 7	17-06-2024	10:40:25	16.512	96.9	7.64	53333	8.03	145.6	0.02	0.19	1.61	1.283
Week 7	17-06-2024	10:40:26	16.512	96.7	7.63	53335	8.03	145.5	0.02	0.19	1.6	1.329
Week 7	17-06-2024	10:40:27	16.512	96.6	7.62	53336	8.03	145.5	0.03	0.19	1.61	1.377
Week 7	17-06-2024	10:40:28	16.511	96.5	7.61	53338	8.03	145.5	0.03	0.18	1.57	1.422
Week 7	17-06-2024	10:40:29	16.511	96.3	7.6	53339	8.03	145.5	0.03	0.17	1.53	1.461
Week 7	17-06-2024	10:40:30	16.511	96.2	7.59	53339	8.03	145.5	0.03	0.16	1.49	1.503
Week 7	17-06-2024	10:40:31	16.511	96.1	7.58	53340	8.03	145.4	0.02	0.16	1.5	1.555
Week 7	17-06-2024	10:40:32	16.511	96	7.57	53341	8.03	145.4	0.03	0.17	1.53	1.591
Week 7	17-06-2024	10:40:33	16.511	95.9	7.56	53342	8.03	145.4	0.03	0.17	1.55	1.632
Week 7	17-06-2024	10:40:34	16.51	95.8	7.56	53343	8.03	145.4	0.03	0.18	1.58	2.545
Week 7	17-06-2024	10:40:35	16.51	95.7	7.55	53344	8.03	145.4	0.02	0.18	1.57	2.734
Week 7	17-06-2024	10:40:36	16.51	95.7	7.54	53345	8.03	145.3	0.02	0.18	1.55	2.689
Week 7	17-06-2024	10:40:37	16.511	95.6	7.54	53346	8.03	145.3	0.02	0.18	1.57	2.656
Week 7	17-06-2024	10:40:38	16.511	95.5	7.53	53347	8.03	145.3	0.02	0.19	1.61	2.724
Week 7	17-06-2024	10:40:39	16.511	95.4	7.53	53348	8.03	145.2	0.02	0.19	1.61	2.791
Week 7	17-06-2024	10:40:40	16.511	95.4	7.52	53349	8.03	145.2	0.01	0.21	1.67	2.861
Week 7	17-06-2024	10:40:41	16.511	95.3	7.52	53350	8.03	145.2	0.01	0.23	1.76	2.917
Week 7	17-06-2024	10:40:42	16.512	95.3	7.51	53351	8.03	145.1	0.01	0.24	1.79	2.971
Week 7	17-06-2024	10:40:43	16.512	95.2	7.51	53353	8.03	145.1	0.01	0.25	1.81	3.044
Week 7	17-06-2024	10:40:44	16.513	95.1	7.5	53355	8.03	145.1	0.01	0.25	1.83	3.132
Week 7	17-06-2024	10:40:45	16.514	95.1	7.5	53357	8.03	145	0	0.24	1.78	3.964
Week 7	17-06-2024	10:40:46	16.515	95	7.49	53360	8.03	145	0.01	0.24	1.78	3.75
Week 7	17-06-2024	10:40:47	16.516	95	7.49	53362	8.03	145	0.01	0.23	1.74	3.826
Week 7	17-06-2024	10:40:48	16.517	95	7.49	53364	8.03	144.9	0.01	0.22	1.72	3.942
Week 7	17-06-2024	10:40:49	16.519	94.9	7.48	53366	8.03	144.9	0.01	0.22	1.7	4.048
Week 7	17-06-2024	10:40:50	16.52	94.9	7.48	53368	8.03	144.9	0.02	0.21	1.69	4.162
Week 7	17-06-2024	10:40:51	16.521	94.8	7.48	53371	8.03	144.9	0.02	0.21	1.68	4.208
Week 7	17-06-2024	10:40:52	16.523	94.8	7.47	53374	8.03	144.8	0.03	0.21	1.66	4.211
Week 7	17-06-2024	10:40:53	16.524	94.7	7.47	53377	8.03	144.8	0.03	0.19	1.62	4.232
Week 7	17-06-2024	10:40:54	16.526	94.7	7.47	53379	8.03	144.8	0.03	0.2	1.64	4.234
Week 7	17-06-2024	10:40:55	16.527	94.7	7.46	53381	8.03	144.8	0.03	0.2	1.65	4.266
Week 7	17-06-2024	10:40:56	16.529	94.6	7.46	53385	8.03	144.7	0.03	0.22	1.71	5.108
Week 7	17-06-2024	10:40:57	16.532	94.6	7.46	53389	8.03	144.7	0.02	0.22	1.72	4.998
Week 7	17-06-2024	10:40:58	16.535	94.6	7.45	53394	8.03	144.7	0.01	0.23	1.76	5.22
Week 7	17-06-2024	10:40:59	16.539	94.5	7.45	53398	8.03	144.7	0.02	0.24	1.77	5.179
Week 7	17-06-2024	10:41:00	16.543	94.5	7.45	53404	8.03	144.6	0.03	0.24	1.78	5.104
Week 7	17-06-2024	10:41:01	16.548	94.5	7.44	53409	8.03	144.6	0.02	0.25	1.83	4.971
Week 7	17-06-2024	10:41:02	16.551	94.4	7.44	53414	8.03	144.6	0.02	0.25	1.82	4.988
Week 7	17-06-2024	10:41:03	16.555	94.4	7.44	53419	8.03	144.6	0.02	0.25	1.82	5.054
Week 7	17-06-2024	10:41:04	16.561	94.4	7.43	53427	8.03	144.5	0.02	0.25	1.83	5.138
Week 7	17-06-2024	10:41:05	16.568	94.3	7.43	53435	8.03	144.5	0.03	0.26	1.87	5.233
Week 7	17-06-2024	10:41:06	16.575	94.3	7.43	53445	8.03	144.5	0.03	0.28	1.94	5.294
Week 7	17-06-2024	10:41:07	16.584	94.3	7.42	53455	8.03	144.5	0.02	0.27	1.91	5.347
Week 7	17-06-2024	10:41:08	16.591	94.3	7.42	53465	8.03	144.5	0.02	0.27	1.89	5.392
Week 7	17-06-2024	10:41:09	16.6	94.2	7.41	53473	8.03	144.5	0.02	0.28	1.92	5.44
Week 7	17-06-2024	10:41:10	16.607	94.2	7.41	53484	8.03	144.4	0.02	0.27	1.89	5.496

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 7	17-06-2024	10:41:11	16.617	94.1	7.41	53493	8.03	144.4	0.02	0.26	1.86	6.254
Week 7	17-06-2024	10:41:12	16.626	94.1	7.4	53505	8.03	144.4	0.03	0.26	1.85	6.098
Week 7	17-06-2024	10:41:13	16.635	94.1	7.4	53516	8.03	144.4	0.04	0.26	1.86	6.115
Week 7	17-06-2024	10:41:14	16.644	94	7.39	53527	8.03	144.4	0.04	0.27	1.9	6.139
Week 7	17-06-2024	10:41:15	16.655	94	7.39	53538	8.03	144.4	0.03	0.27	1.89	6.264
Week 7	17-06-2024	10:41:16	16.664	93.9	7.38	53550	8.03	144.3	0.03	0.25	1.84	6.383
Week 7	17-06-2024	10:41:17	16.672	93.9	7.37	53558	8.03	144.3	0.02	0.23	1.76	6.511
Week 7	17-06-2024	10:41:18	16.679	93.8	7.37	53567	8.03	144.3	0.01	0.24	1.79	6.654
Week 7	17-06-2024	10:41:19	16.686	93.7	7.36	53574	8.03	144.3	0	0.26	1.85	6.715
Week 7	17-06-2024	10:41:20	16.692	93.7	7.35	53581	8.03	144.3	0.01	0.26	1.85	6.729
Week 7	17-06-2024	10:41:21	16.698	93.6	7.35	53587	8.03	144.3	0	0.26	1.87	6.747
Week 7	17-06-2024	10:41:22	16.703	93.5	7.34	53593	8.03	144.3	0	0.27	1.9	6.79
Week 7	17-06-2024	10:41:23	16.707	93.5	7.34	53597	8.03	144.2	0	0.28	1.92	7.593
Week 7	17-06-2024	10:41:24	16.709	93.4	7.33	53600	8.03	144.2	-0.01	0.28	1.92	7.616
Week 7	17-06-2024	10:41:25	16.711	93.3	7.32	53601	8.03	144.2	-0.01	0.27	1.88	7.592
Week 7	17-06-2024	10:41:26	16.712	93.2	7.32	53603	8.03	144.2	-0.01	0.28	1.93	7.563
Week 7	17-06-2024	10:41:27	16.713	93.2	7.31	53605	8.03	144.2	-0.01	0.28	1.94	7.536
Week 7	17-06-2024	10:41:28	16.714	93.1	7.31	53606	8.03	144.2	-0.02	0.29	1.96	7.53
Week 7	17-06-2024	10:41:29	16.714	93	7.3	53607	8.03	144.2	-0.02	0.27	1.91	7.532
Week 7	17-06-2024	10:41:30	16.714	93	7.3	53607	8.03	144.1	0	0.25	1.84	7.584
Week 7	17-06-2024	10:41:31	16.715	92.9	7.29	53608	8.03	144.1	-0.01	0.25	1.84	7.649
Week 7	17-06-2024	10:41:32	16.715	92.9	7.29	53608	8.03	144.1	0	0.25	1.83	7.666
Week 7	17-06-2024	10:41:33	16.715	92.8	7.28	53608	8.03	144.1	0.02	0.25	1.81	7.665
Week 7	17-06-2024	10:41:34	16.715	92.8	7.28	53608	8.03	144.1	0.02	0.24	1.78	7.7
Week 7	17-06-2024	10:41:35	16.715	92.7	7.28	53608	8.03	144.1	0.02	0.23	1.75	7.732
Week 7	17-06-2024	10:41:36	16.715	92.7	7.27	53609	8.03	144.1	0.03	0.24	1.79	7.772
Week 7	17-06-2024	10:41:37	16.716	92.6	7.27	53609	8.03	144	0.04	0.24	1.77	7.815
Week 7	17-06-2024	10:41:38	16.716	92.6	7.27	53610	8.03	144	0.03	0.23	1.75	8.454
Week 7	17-06-2024	10:41:39	16.716	92.6	7.26	53611	8.03	144	0.03	0.23	1.76	8.312
Week 7	17-06-2024	10:41:40	16.716	92.5	7.26	53612	8.03	144	0.04	0.24	1.79	8.421
Week 7	17-06-2024	10:41:41	16.716	92.5	7.26	53612	8.03	144	0.04	0.25	1.81	8.352
Week 7	17-06-2024	10:41:42	16.716	92.5	7.26	53613	8.03	144	0.04	0.25	1.82	8.413
Week 7	17-06-2024	10:41:43	16.716	92.4	7.25	53613	8.03	144	0.05	0.24	1.79	8.429
Week 7	17-06-2024	10:41:44	16.716	92.4	7.25	53613	8.03	143.9	0.05	0.24	1.77	8.476
Week 7	17-06-2024	10:41:45	16.716	92.4	7.25	53613	8.03	143.9	0.04	0.25	1.81	8.518
Week 7	17-06-2024	10:41:46	16.716	92.4	7.25	53614	8.03	143.9	0.04	0.25	1.83	8.568
Week 7	17-06-2024	10:41:47	16.716	92.3	7.24	53613	8.03	143.9	0.04	0.25	1.83	8.613
Week 7	17-06-2024	10:41:48	16.716	92.3	7.24	53611	8.03	143.9	0.03	0.25	1.83	8.686
Week 7	17-06-2024	10:41:49	16.716	92.3	7.24	53609	8.03	143.9	0.03	0.25	1.83	9.471
Week 7	17-06-2024	10:41:50	16.716	92.3	7.24	53606	8.03	143.9	0.03	0.25	1.84	9.492
Week 7	17-06-2024	10:41:51	16.716	92.2	7.24	53604	8.03	143.9	0.03	0.26	1.85	9.67
Week 7	17-06-2024	10:41:52	16.716	92.2	7.24	53602	8.03	143.8	0.04	0.26	1.87	9.759
Week 7	17-06-2024	10:41:53	16.717	92.2	7.23	53600	8.03	143.8	0.05	0.27	1.91	9.672
Week 7	17-06-2024	10:41:54	16.717	92.2	7.23	53598	8.03	143.8	0.04	0.28	1.92	9.64
Week 7	17-06-2024	10:41:55	16.716	92.2	7.23	53597	8.03	143.8	0.04	0.28	1.93	9.632
Week 7	17-06-2024	10:41:56	16.716	92.1	7.23	53596	8.03	143.8	0.04	0.27	1.91	9.655
Week 7	17-06-2024	10:41:57	16.717	92.1	7.23	53595	8.03	143.8	0.03	0.28	1.94	9.705
Week 7	17-06-2024	10:41:58	16.717	92.1	7.23	53595	8.03	143.8	0.03	0.28	1.94	9.777
Week 7	17-06-2024	10:41:59	16.717	92.1	7.22	53594	8.03	143.8	0.03	0.28	1.93	10.511
Week 7	17-06-2024	10:42:00	16.717	92	7.22	53594	8.03	143.7	0.04	0.28	1.93	10.253
Week 7	17-06-2024	10:42:01	16.717	92	7.22	53595	8.03	143.7	0.04	0.28	1.93	10.478
Week 7	17-06-2024	10:42:02	16.717	92	7.22	53597	8.03	143.7	0.03	0.28	1.94	10.489
Week 7	17-06-2024	10:42:03	16.717	92	7.22	53599	8.03	143.7	0.03	0.28	1.94	10.502
Week 7	17-06-2024	10:42:04	16.717	92	7.22	53601	8.03	143.7	0.03	0.26	1.87	10.596
Week 7	17-06-2024	10:42:05	16.717	91.9	7.21	53603	8.03	143.7	0.03	0.27	1.91	10.594
Week 7	17-06-2024	10:42:06	16.718	91.9	7.21	53604	8.03	143.7	0.02	0.28	1.93	10.585
Week 7	17-06-2024	10:42:07	16.718	91.9	7.21	53605	8.03	143.7	0.04	0.28	1.92	10.581
Week 7	17-06-2024	10:42:08	16.718	91.9	7.21	53606	8.03	143.7	0.03	0.26	1.87	10.587
Week 7	17-06-2024	10:42:09	16.718	91.9	7.21	53607	8.03	143.7	0.02	0.26	1.86	10.593
Week 7	17-06-2024	10:42:10	16.718	91.9	7.21	53608	8.03	143.6	0.02	0.27	1.89	10.606
Week 7	17-06-2024	10:42:11	16.718	91.9	7.21	53609	8.03	143.6	0.02	0.27	1.9	10.636
Week 7	17-06-2024	10:42:12	16.718	91.8	7.21	53609	8.03	143.6	0.04	0.28	1.92	10.666
Week 7	17-06-2024	10:42:13	16.718	91.8	7.2	53610	8.03	143.6	0.04	0.27	1.91	10.7
Week 7	17-06-2024	10:42:14	16.718	91.8	7.2	53611	8.03	143.6	0.05	0.27	1.9	10.72
Week 7	17-06-2024	10:42:15	16.718	91.8	7.2	53612	8.03	143.6	0.05	0.27	1.91	10.748
Week 7	17-06-2024	10:42:16	16.718	91.8	7.2	53612	8.03	143.6	0.04	0.27	1.88	11.52
Week 7	17-06-2024	10:42:17	16.718	91.8	7.2	53612	8.03	143.6	0.05	0.25	1.83	11.615

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 7	17-06-2024	10:42:18	16.718	91.8	7.2	53613	8.03	143.6	0.04	0.25	1.83	11.861
Week 7	17-06-2024	10:42:19	16.717	91.7	7.2	53614	8.03	143.6	0.04	0.25	1.84	12.066
Week 7	17-06-2024	10:42:20	16.717	91.7	7.2	53615	8.03	143.6	0.04	0.26	1.85	12.204
Week 7	17-06-2024	10:42:21	16.717	91.7	7.2	53616	8.03	143.5	0.05	0.26	1.85	12.357
Week 7	17-06-2024	10:42:22	16.717	91.7	7.19	53617	8.03	143.5	0.03	0.26	1.86	12.411
Week 7	17-06-2024	10:42:23	16.717	91.7	7.19	53618	8.03	143.5	0.02	0.25	1.81	12.445
Week 7	17-06-2024	10:42:24	16.717	91.7	7.19	53618	8.03	143.5	0.02	0.24	1.79	12.475
Week 7	17-06-2024	10:42:25	16.716	91.7	7.19	53619	8.03	143.5	0.02	0.23	1.74	12.494
Week 7	17-06-2024	10:42:26	16.716	91.6	7.19	53619	8.03	143.5	0.02	0.24	1.77	12.52
Week 7	17-06-2024	10:42:27	16.716	91.6	7.19	53619	8.03	143.5	0.01	0.24	1.8	12.565
Week 7	17-06-2024	10:42:28	16.716	91.6	7.19	53620	8.03	143.5	0.02	0.26	1.87	12.624
Week 7	17-06-2024	10:42:29	16.715	91.6	7.19	53621	8.03	143.5	0.01	0.27	1.89	13.362
Week 7	17-06-2024	10:42:30	16.715	91.6	7.19	53621	8.03	143.5	0	0.28	1.94	13.625
Week 7	17-06-2024	10:42:31	16.715	91.6	7.18	53622	8.03	143.5	0.01	0.29	1.98	13.536
Week 7	17-06-2024	10:42:32	16.714	91.5	7.18	53622	8.03	143.5	0.01	0.27	1.91	13.561
Week 7	17-06-2024	10:42:33	16.714	91.5	7.18	53622	8.03	143.5	0.02	0.27	1.91	13.62
Week 7	17-06-2024	10:42:34	16.714	91.5	7.18	53623	8.03	143.4	0.02	0.27	1.89	13.728
Week 7	17-06-2024	10:42:35	16.713	91.5	7.18	53623	8.03	143.4	0.02	0.26	1.86	13.857
Week 7	17-06-2024	10:42:36	16.713	91.5	7.18	53624	8.03	143.4	0.02	0.28	1.92	13.956
Week 7	17-06-2024	10:42:37	16.713	91.5	7.18	53624	8.03	143.4	0.03	0.26	1.87	14.024
Week 7	17-06-2024	10:42:38	16.712	91.5	7.18	53624	8.03	143.4	0.03	0.26	1.87	14.094
Week 7	17-06-2024	10:42:39	16.712	91.4	7.17	53625	8.03	143.4	0.03	0.26	1.87	14.171
Week 7	17-06-2024	10:42:40	16.712	91.4	7.17	53626	8.03	143.4	0.03	0.27	1.88	14.26
Week 7	17-06-2024	10:42:41	16.711	91.4	7.17	53626	8.03	143.4	0.03	0.26	1.86	15.129
Week 7	17-06-2024	10:42:42	16.711	91.4	7.17	53627	8.03	143.4	0.03	0.24	1.79	15.043
Week 7	17-06-2024	10:42:43	16.71	91.4	7.17	53627	8.03	143.4	0.02	0.26	1.87	14.822
Week 7	17-06-2024	10:42:44	16.71	91.4	7.17	53627	8.03	143.4	0.03	0.27	1.89	14.977
Week 7	17-06-2024	10:42:45	16.71	91.3	7.17	53628	8.03	143.4	0.03	0.28	1.92	15.156
Week 7	17-06-2024	10:42:46	16.709	91.3	7.17	53628	8.03	143.4	0.03	0.28	1.92	15.272
Week 7	17-06-2024	10:42:47	16.709	91.3	7.16	53628	8.03	143.4	0.03	0.28	1.92	15.382
Week 7	17-06-2024	10:42:48	16.708	91.3	7.16	53628	8.03	143.4	0.03	0.29	1.96	15.473
Week 7	17-06-2024	10:42:49	16.708	91.3	7.16	53629	8.03	143.4	0.04	0.29	1.97	15.52
Week 7	17-06-2024	10:42:50	16.707	91.3	7.16	53629	8.03	143.4	0.04	0.28	1.94	15.569
Week 7	17-06-2024	10:42:51	16.706	91.2	7.16	53629	8.03	143.3	0.04	0.29	1.95	15.604
Week 7	17-06-2024	10:42:52	16.705	91.2	7.16	53630	8.03	143.3	0.04	0.29	1.97	15.646
Week 7	17-06-2024	10:42:53	16.705	91.2	7.16	53630	8.03	143.3	0.04	0.3	2.01	15.671
Week 7	17-06-2024	10:42:54	16.704	91.2	7.16	53630	8.03	143.3	0.04	0.29	1.95	15.681
Week 7	17-06-2024	10:42:55	16.704	91.2	7.16	53630	8.03	143.3	0.04	0.28	1.93	15.707
Week 7	17-06-2024	10:42:56	16.703	91.2	7.15	53630	8.03	143.3	0.04	0.29	1.98	15.739
Week 7	17-06-2024	10:42:57	16.702	91.1	7.15	53630	8.03	143.3	0.03	0.31	2.03	15.755
Week 7	17-06-2024	10:42:58	16.702	91.1	7.15	53630	8.03	143.3	0.03	0.31	2.05	15.761
Week 7	17-06-2024	10:42:59	16.701	91.1	7.15	53630	8.03	143.3	0.04	0.32	2.07	15.783
Week 7	17-06-2024	10:43:00	16.7	91.1	7.15	53630	8.03	143.3	0.04	0.32	2.08	15.809
Week 7	17-06-2024	10:43:01	16.7	91.1	7.15	53630	8.03	143.3	0.04	0.33	2.1	15.819
Week 7	17-06-2024	10:43:02	16.7	91.1	7.15	53629	8.03	143.3	0.04	0.32	2.08	15.808
Week 7	17-06-2024	10:43:03	16.7	91.1	7.15	53629	8.03	143.3	0.04	0.32	2.06	15.804
Week 7	17-06-2024	10:43:04	16.7	91.1	7.15	53629	8.03	143.3	0.03	0.31	2.03	15.814
Week 7	17-06-2024	10:43:05	16.7	91.1	7.15	53629	8.03	143.3	0.03	0.33	2.12	15.805
Week 7	17-06-2024	10:43:06	16.7	91	7.14	53629	8.03	143.3	0.04	0.33	2.1	15.804
Week 7	17-06-2024	10:43:07	16.7	91	7.14	53629	8.03	143.3	0.04	0.32	2.09	15.808
Week 7	17-06-2024	10:43:08	16.7	91	7.14	53629	8.03	143.3	0.04	0.32	2.08	15.815
Week 7	17-06-2024	10:43:09	16.7	91	7.14	53630	8.03	143.3	0.04	0.32	2.09	15.818
Week 7	17-06-2024	10:43:10	16.7	91	7.14	53630	8.03	143.3	0.04	0.31	2.04	15.815
Week 7	17-06-2024	10:43:11	16.7	91	7.14	53631	8.03	143.2	0.04	0.31	2.03	15.814
Week 7	17-06-2024	10:43:12	16.7	91	7.14	53631	8.03	143.2	0.04	0.3	1.99	15.82
Week 7	17-06-2024	10:43:13	16.7	91	7.14	53631	8.03	143.2	0.05	0.29	1.96	15.834
Week 7	17-06-2024	10:43:14	16.699	91	7.14	53632	8.03	143.2	0.05	0.29	1.97	15.841
Week 7	17-06-2024	10:43:15	16.699	91	7.14	53632	8.03	143.2	0.05	0.29	1.97	15.84
Week 7	17-06-2024	10:43:16	16.698	91	7.14	53633	8.03	143.2	0.04	0.29	1.97	15.84
Week 7	17-06-2024	10:43:17	16.698	90.9	7.14	53634	8.03	143.2	0.04	0.29	1.97	15.85
Week 7	17-06-2024	10:43:18	16.698	90.9	7.14	53634	8.03	143.2	0.04	0.29	1.98	15.861
Week 7	17-06-2024	10:43:19	16.697	90.9	7.14	53635	8.03	143.2	0.04	0.29	1.97	16.868
Week 7	17-06-2024	10:43:20	16.696	90.9	7.13	53635	8.03	143.2	0.04	0.29	1.96	17.141
Week 7	17-06-2024	10:43:21	16.696	90.9	7.13	53635	8.03	143.2	0.05	0.29	1.96	17.157
Week 7	17-06-2024	10:43:22	16.695	90.9	7.13	53635	8.03	143.2	0.06	0.28	1.93	17.227
Week 7	17-06-2024	10:43:23	16.695	90.9	7.13	53636	8.03	143.2	0.05	0.28	1.93	17.224
Week 7	17-06-2024	10:43:24	16.694	90.8	7.13	53636	8.03	143.2	0.06	0.28	1.93	17.312

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 7	17-06-2024	10:43:25	16.693	90.8	7.13	53636	8.03	143.2	0.07	0.27	1.91	17.446
Week 7	17-06-2024	10:43:26	16.693	90.8	7.13	53636	8.03	143.1	0.06	0.26	1.87	17.5
Week 7	17-06-2024	10:43:27	16.693	90.8	7.13	53636	8.03	143.1	0.05	0.25	1.82	17.566
Week 7	17-06-2024	10:43:28	16.693	90.8	7.12	53636	8.03	143.1	0.05	0.26	1.84	18.467
Week 7	17-06-2024	10:43:29	16.692	90.7	7.12	53636	8.03	143.1	0.06	0.25	1.82	18.775
Week 7	17-06-2024	10:43:30	16.692	90.7	7.12	53636	8.03	143.1	0.06	0.24	1.79	18.79
Week 7	17-06-2024	10:43:31	16.692	90.7	7.12	53637	8.03	143.1	0.07	0.25	1.82	18.991
Week 7	17-06-2024	10:43:32	16.691	90.7	7.12	53637	8.03	143.1	0.06	0.25	1.83	19.043
Week 7	17-06-2024	10:43:33	16.691	90.7	7.12	53637	8.03	143.1	0.06	0.26	1.85	19.078
Week 7	17-06-2024	10:43:34	16.691	90.6	7.11	53637	8.03	143.1	0.07	0.27	1.88	19.111
Week 7	17-06-2024	10:43:35	16.691	90.6	7.11	53638	8.03	143.1	0.07	0.27	1.89	19.176
Week 7	17-06-2024	10:43:36	16.691	90.6	7.11	53638	8.03	143.1	0.07	0.28	1.93	19.277
Week 7	17-06-2024	10:43:37	16.691	90.6	7.11	53639	8.03	143.1	0.07	0.3	2	19.351
Week 7	17-06-2024	10:43:38	16.691	90.6	7.11	53639	8.03	143.1	0.07	0.32	2.06	20.091
Week 7	17-06-2024	10:43:39	16.691	90.5	7.11	53640	8.03	143.1	0.07	0.31	2.04	20.032
Week 7	17-06-2024	10:43:40	16.691	90.5	7.1	53640	8.03	143.1	0.07	0.31	2.05	20.413
Week 7	17-06-2024	10:43:41	16.691	90.5	7.1	53640	8.03	143	0.08	0.32	2.09	20.521
Week 7	17-06-2024	10:43:42	16.691	90.5	7.1	53640	8.03	143	0.08	0.31	2.05	20.581
Week 7	17-06-2024	10:43:43	16.691	90.5	7.1	53640	8.03	143	0.08	0.31	2.03	20.637
Week 7	17-06-2024	10:43:44	16.691	90.4	7.1	53640	8.03	143	0.07	0.3	1.99	20.682
Week 7	17-06-2024	10:43:45	16.691	90.4	7.1	53640	8.03	143	0.07	0.31	2.03	20.687
Week 7	17-06-2024	10:43:46	16.691	90.4	7.1	53640	8.03	143	0.07	0.3	2.02	20.706
Week 7	17-06-2024	10:43:47	16.691	90.4	7.1	53640	8.03	143	0.06	0.29	1.98	20.727
Week 7	17-06-2024	10:43:48	16.691	90.4	7.1	53639	8.03	143	0.07	0.3	1.99	20.73
Week 7	17-06-2024	10:43:49	16.692	90.4	7.09	53639	8.03	143	0.06	0.3	2	20.749
Week 7	17-06-2024	10:43:50	16.692	90.4	7.09	53639	8.03	143	0.06	0.3	2	21.853
Week 7	17-06-2024	10:43:51	16.692	90.4	7.09	53639	8.03	143	0.06	0.29	1.96	22.3
Week 7	17-06-2024	10:43:52	16.692	90.3	7.09	53639	8.03	143	0.05	0.28	1.94	22.043
Week 7	17-06-2024	10:43:53	16.692	90.3	7.09	53639	8.03	143	0.04	0.29	1.97	22.032
Week 7	17-06-2024	10:43:54	16.692	90.3	7.09	53639	8.03	143	0.05	0.31	2.05	22.06
Week 7	17-06-2024	10:43:55	16.692	90.3	7.09	53639	8.03	143	0.04	0.32	2.08	22.177
Week 7	17-06-2024	10:43:56	16.692	90.3	7.09	53639	8.03	142.9	0.04	0.29	1.98	22.289
Week 7	17-06-2024	10:43:57	16.692	90.3	7.09	53639	8.03	142.9	0.04	0.29	1.98	22.367
Week 7	17-06-2024	10:43:58	16.692	90.3	7.09	53639	8.03	142.9	0.03	0.3	2	22.443
Week 7	17-06-2024	10:43:59	16.692	90.3	7.09	53639	8.03	142.9	0.03	0.28	1.92	22.476
Week 7	17-06-2024	10:44:00	16.692	90.3	7.08	53639	8.03	142.9	0.03	0.26	1.86	22.513
Week 7	17-06-2024	10:44:01	16.692	90.2	7.08	53639	8.03	142.9	0.04	0.26	1.86	22.556
Week 7	17-06-2024	10:44:02	16.692	90.2	7.08	53639	8.03	142.9	0.05	0.26	1.86	22.595
Week 7	17-06-2024	10:44:03	16.692	90.2	7.08	53639	8.03	142.9	0.05	0.25	1.82	22.627
Week 7	17-06-2024	10:44:04	16.692	90.2	7.08	53639	8.03	142.9	0.05	0.25	1.82	22.657
Week 7	17-06-2024	10:44:05	16.692	90.2	7.08	53640	8.03	142.9	0.05	0.25	1.81	22.676
Week 7	17-06-2024	10:44:06	16.692	90.2	7.08	53639	8.03	142.9	0.07	0.24	1.8	22.693
Week 7	17-06-2024	10:44:07	16.692	90.2	7.08	53639	8.03	142.9	0.07	0.25	1.83	22.727
Week 7	17-06-2024	10:44:08	16.692	90.2	7.08	53639	8.03	142.9	0.08	0.26	1.86	22.764
Week 7	17-06-2024	10:44:09	16.692	90.2	7.08	53640	8.03	142.9	0.07	0.26	1.84	22.791
Week 7	17-06-2024	10:44:10	16.692	90.2	7.08	53640	8.03	142.8	0.08	0.26	1.87	22.81
Week 7	17-06-2024	10:44:11	16.692	90.2	7.08	53640	8.03	142.8	0.07	0.27	1.9	22.84
Week 7	17-06-2024	10:44:12	16.692	90.2	7.08	53640	8.03	142.8	0.09	0.27	1.9	22.859
Week 7	17-06-2024	10:44:13	16.692	90.2	7.08	53641	8.03	142.8	0.09	0.28	1.94	23.897
Week 7	17-06-2024	10:44:14	16.693	90.2	7.08	53641	8.03	142.8	0.09	0.29	1.99	24.178
Week 7	17-06-2024	10:44:15	16.693	90.2	7.08	53641	8.03	142.8	0.09	0.28	1.94	23.758
Week 7	17-06-2024	10:44:16	16.693	90.2	7.08	53641	8.03	142.8	0.08	0.27	1.89	23.598
Week 7	17-06-2024	10:44:17	16.693	90.2	7.08	53641	8.03	142.8	0.09	0.27	1.88	23.659
Week 7	17-06-2024	10:44:18	16.693	90.2	7.08	53641	8.03	142.8	0.08	0.27	1.9	23.711
Week 7	17-06-2024	10:44:19	16.693	90.1	7.07	53642	8.03	142.8	0.09	0.27	1.89	23.862
Week 7	17-06-2024	10:44:20	16.693	90.1	7.07	53642	8.03	142.8	0.07	0.27	1.89	24.006
Week 7	17-06-2024	10:44:21	16.693	90.1	7.07	53642	8.03	142.8	0.07	0.27	1.91	24.813
Week 7	17-06-2024	10:44:22	16.693	90.1	7.07	53642	8.03	142.7	0.07	0.26	1.87	24.804
Week 7	17-06-2024	10:44:23	16.693	90.1	7.07	53643	8.03	142.7	0.06	0.26	1.88	24.848
Week 7	17-06-2024	10:44:24	16.693	90.1	7.07	53643	8.03	142.7	0.07	0.27	1.89	24.605
Week 7	17-06-2024	10:44:25	16.693	90.1	7.07	53643	8.03	142.7	0.07	0.27	1.9	24.619
Week 7	17-06-2024	10:44:26	16.693	90.1	7.07	53643	8.03	142.7	0.07	0.28	1.93	24.754
Week 7	17-06-2024	10:44:27	16.693	90.1	7.07	53643	8.03	142.7	0.08	0.27	1.91	24.959
Week 7	17-06-2024	10:44:28	16.693	90.1	7.07	53643	8.03	142.7	0.08	0.28	1.92	25.079
Week 7	17-06-2024	10:44:29	16.693	90.1	7.07	53643	8.03	142.7	0.07	0.27	1.88	25.089
Week 7	17-06-2024	10:44:30	16.693	90.1	7.07	53643	8.03	142.7	0.07	0.26	1.85	25.122
Week 7	17-06-2024	10:44:31	16.693	90.1	7.07	53643	8.03	142.7	0.07	0.25	1.82	25.182

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 7	17-06-2024	10:44:32	16.693	90.1	7.07	53644	8.03	142.7	0.07	0.24	1.8	25.215
Week 7	17-06-2024	10:44:33	16.693	90.1	7.07	53643	8.03	142.7	0.06	0.25	1.81	25.189
Week 7	17-06-2024	10:44:34	16.693	90.1	7.07	53643	8.03	142.7	0.06	0.24	1.79	25.129
Week 7	17-06-2024	10:44:35	16.693	90.1	7.07	53643	8.03	142.7	0.06	0.23	1.74	24.064
Week 7	17-06-2024	10:44:36	16.693	90.1	7.07	53643	8.03	142.7	0.06	0.22	1.7	24.049
Week 7	17-06-2024	10:44:37	16.693	90.1	7.07	53643	8.03	142.7	0.06	0.22	1.72	23.536
Week 7	17-06-2024	10:44:38	16.693	90.1	7.07	53643	8.03	142.7	0.06	0.23	1.73	23.524
Week 7	17-06-2024	10:44:39	16.693	90.1	7.07	53644	8.03	142.6	0.08	0.23	1.76	23.531
Week 7	17-06-2024	10:44:40	16.693	90.1	7.07	53644	8.03	142.6	0.06	0.23	1.75	23.49
Week 7	17-06-2024	10:44:41	16.693	90.1	7.07	53645	8.03	142.6	0.07	0.24	1.77	23.351
Week 7	17-06-2024	10:44:42	16.693	90.1	7.07	53645	8.03	142.6	0.06	0.24	1.8	23.213
Week 7	17-06-2024	10:44:43	16.693	90.1	7.07	53645	8.03	142.6	0.06	0.24	1.79	23.131
Week 7	17-06-2024	10:44:44	16.692	90.1	7.07	53646	8.03	142.6	0.07	0.25	1.81	23.063
Week 7	17-06-2024	10:44:45	16.692	90.1	7.07	53646	8.03	142.6	0.08	0.26	1.85	22.978
Week 7	17-06-2024	10:44:46	16.692	90.1	7.07	53647	8.03	142.6	0.07	0.27	1.9	22.913
Week 7	17-06-2024	10:44:47	16.692	90.1	7.07	53647	8.03	142.6	0.06	0.28	1.94	22.884
Week 7	17-06-2024	10:44:48	16.692	90.1	7.07	53648	8.03	142.6	0.06	0.28	1.93	22.844
Week 7	17-06-2024	10:44:49	16.692	90.1	7.07	53648	8.03	142.6	0.07	0.29	1.95	22.001
Week 7	17-06-2024	10:44:50	16.692	90.1	7.07	53649	8.03	142.6	0.07	0.28	1.92	22.008
Week 7	17-06-2024	10:44:51	16.692	90.1	7.07	53649	8.03	142.6	0.07	0.3	2.01	21.902
Week 7	17-06-2024	10:44:52	16.692	90.1	7.07	53649	8.03	142.6	0.07	0.32	2.06	21.669
Week 7	17-06-2024	10:44:53	16.692	90.1	7.07	53649	8.03	142.6	0.06	0.31	2.04	21.599
Week 7	17-06-2024	10:44:54	16.692	90.1	7.07	53649	8.03	142.6	0.05	0.3	2	21.58
Week 7	17-06-2024	10:44:55	16.692	90.1	7.07	53650	8.03	142.6	0.05	0.31	2.06	21.562
Week 7	17-06-2024	10:44:56	16.692	90.1	7.07	53649	8.03	142.6	0.05	0.32	2.07	21.504
Week 7	17-06-2024	10:44:57	16.692	90.1	7.07	53649	8.03	142.6	0.05	0.32	2.08	21.385
Week 7	17-06-2024	10:44:58	16.692	90.1	7.07	53649	8.03	142.6	0.05	0.33	2.12	21.287
Week 7	17-06-2024	10:44:59	16.692	90.1	7.07	53649	8.03	142.5	0.05	0.34	2.14	20.263
Week 7	17-06-2024	10:45:00	16.692	90.1	7.08	53649	8.03	142.5	0.06	0.32	2.09	19.771
Week 7	17-06-2024	10:45:01	16.692	90.2	7.08	53649	8.03	142.5	0.05	0.31	2.06	19.566
Week 7	17-06-2024	10:45:02	16.692	90.2	7.08	53649	8.03	142.5	0.06	0.31	2.03	19.503
Week 7	17-06-2024	10:45:03	16.692	90.2	7.08	53649	8.03	142.5	0.05	0.31	2.02	19.336
Week 7	17-06-2024	10:45:04	16.692	90.2	7.08	53649	8.03	142.5	0.05	0.31	2.05	19.211
Week 7	17-06-2024	10:45:05	16.691	90.2	7.08	53649	8.03	142.5	0.05	0.33	2.11	19.11
Week 7	17-06-2024	10:45:06	16.691	90.2	7.08	53649	8.03	142.5	0.06	0.32	2.09	19.008
Week 7	17-06-2024	10:45:07	16.691	90.2	7.08	53649	8.03	142.5	0.08	0.34	2.13	18.889
Week 7	17-06-2024	10:45:08	16.691	90.2	7.08	53650	8.03	142.5	0.09	0.32	2.09	18.781
Week 7	17-06-2024	10:45:09	16.691	90.2	7.08	53650	8.03	142.5	0.09	0.31	2.05	18.162
Week 7	17-06-2024	10:45:10	16.691	90.2	7.08	53650	8.03	142.5	0.09	0.31	2.04	18.329
Week 7	17-06-2024	10:45:11	16.691	90.2	7.08	53650	8.03	142.5	0.1	0.31	2.05	18.171
Week 7	17-06-2024	10:45:12	16.691	90.2	7.08	53651	8.03	142.5	0.1	0.33	2.1	18.02
Week 7	17-06-2024	10:45:13	16.691	90.2	7.08	53650	8.03	142.5	0.09	0.31	2.06	17.859
Week 7	17-06-2024	10:45:14	16.691	90.3	7.08	53651	8.03	142.5	0.08	0.32	2.06	17.832
Week 7	17-06-2024	10:45:15	16.691	90.3	7.08	53651	8.03	142.5	0.08	0.32	2.07	17.817
Week 7	17-06-2024	10:45:16	16.691	90.3	7.08	53650	8.03	142.5	0.08	0.32	2.09	17.787
Week 7	17-06-2024	10:45:17	16.691	90.3	7.08	53650	8.03	142.5	0.08	0.31	2.03	17.794
Week 7	17-06-2024	10:45:18	16.691	90.3	7.09	53650	8.03	142.5	0.08	0.29	1.95	17.822
Week 7	17-06-2024	10:45:19	16.692	90.3	7.09	53650	8.03	142.5	0.08	0.29	1.97	17.832
Week 7	17-06-2024	10:45:20	16.692	90.3	7.09	53649	8.03	142.5	0.09	0.3	2.01	17.831
Week 7	17-06-2024	10:45:21	16.692	90.3	7.09	53649	8.03	142.5	0.08	0.31	2.02	17.823
Week 7	17-06-2024	10:45:22	16.692	90.3	7.09	53648	8.03	142.5	0.07	0.31	2.04	17.826
Week 7	17-06-2024	10:45:23	16.692	90.3	7.09	53648	8.03	142.5	0.06	0.3	2.02	17.84
Week 7	17-06-2024	10:45:24	16.692	90.3	7.09	53648	8.03	142.5	0.06	0.32	2.06	17.851
Week 7	17-06-2024	10:45:25	16.693	90.3	7.09	53648	8.03	142.5	0.06	0.31	2.02	17.845
Week 7	17-06-2024	10:45:26	16.693	90.3	7.09	53647	8.03	142.5	0.06	0.31	2.02	17.833
Week 7	17-06-2024	10:45:27	16.693	90.3	7.09	53647	8.03	142.5	0.07	0.31	2.03	17.822
Week 7	17-06-2024	10:45:28	16.693	90.3	7.09	53647	8.03	142.5	0.07	0.31	2.05	17.82
Week 7	17-06-2024	10:45:29	16.693	90.3	7.09	53647	8.03	142.5	0.08	0.31	2.05	17.826
Week 7	17-06-2024	10:45:30	16.693	90.4	7.09	53647	8.03	142.5	0.06	0.31	2.05	17.83
Week 7	17-06-2024	10:45:31	16.693	90.4	7.09	53647	8.03	142.5	0.06	0.3	2.01	17.839
Week 7	17-06-2024	10:45:32	16.693	90.4	7.09	53647	8.03	142.4	0.06	0.31	2.02	17.831
Week 7	17-06-2024	10:45:33	16.693	90.4	7.09	53647	8.03	142.4	0.05	0.31	2.03	17.817
Week 7	17-06-2024	10:45:34	16.693	90.4	7.09	53647	8.03	142.4	0.04	0.31	2.04	17.792
Week 7	17-06-2024	10:45:35	16.693	90.4	7.09	53647	8.03	142.4	0.04	0.31	2.05	17.774
Week 7	17-06-2024	10:45:36	16.693	90.4	7.09	53646	8.03	142.4	0.04	0.32	2.09	17.763
Week 7	17-06-2024	10:45:37	16.693	90.4	7.09	53647	8.03	142.4	0.04	0.32	2.08	17.768
Week 7	17-06-2024	10:45:38	16.693	90.4	7.09	53646	8.03	142.4	0.05	0.31	2.04	17.767

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 7	17-06-2024	10:45:39	16.692	90.4	7.09	53646	8.03	142.4	0.05	0.31	2.04	17.754
Week 7	17-06-2024	10:45:40	16.692	90.4	7.09	53646	8.03	142.4	0.04	0.31	2.03	17.734
Week 7	17-06-2024	10:45:41	16.692	90.4	7.09	53646	8.03	142.4	0.04	0.31	2.02	16.595
Week 7	17-06-2024	10:45:42	16.692	90.4	7.09	53646	8.03	142.4	0.04	0.3	2.02	16.601
Week 7	17-06-2024	10:45:43	16.691	90.4	7.09	53645	8.03	142.4	0.04	0.31	2.03	17.094
Week 7	17-06-2024	10:45:44	16.691	90.4	7.09	53645	8.03	142.4	0.04	0.31	2.06	17.076
Week 7	17-06-2024	10:45:45	16.691	90.4	7.09	53644	8.03	142.4	0.05	0.32	2.08	16.926
Week 7	17-06-2024	10:45:46	16.691	90.4	7.09	53644	8.03	142.4	0.05	0.32	2.08	16.743
Week 7	17-06-2024	10:45:47	16.691	90.4	7.09	53645	8.03	142.4	0.05	0.31	2.04	16.579
Week 7	17-06-2024	10:45:48	16.691	90.4	7.09	53644	8.03	142.4	0.05	0.31	2.04	16.461
Week 7	17-06-2024	10:45:49	16.691	90.4	7.09	53644	8.03	142.4	0.05	0.31	2.04	16.363
Week 7	17-06-2024	10:45:50	16.69	90.4	7.09	53644	8.03	142.4	0.04	0.31	2.05	16.279
Week 7	17-06-2024	10:45:51	16.691	90.4	7.09	53644	8.03	142.4	0.04	0.32	2.08	16.202
Week 7	17-06-2024	10:45:52	16.691	90.4	7.09	53644	8.03	142.4	0.04	0.33	2.12	16.151
Week 7	17-06-2024	10:45:53	16.691	90.4	7.09	53644	8.03	142.4	0.04	0.33	2.1	16.09
Week 7	17-06-2024	10:45:54	16.691	90.4	7.09	53644	8.03	142.4	0.04	0.32	2.09	15.343
Week 7	17-06-2024	10:45:55	16.692	90.4	7.09	53644	8.03	142.4	0.04	0.31	2.03	15.447
Week 7	17-06-2024	10:45:56	16.693	90.4	7.09	53644	8.03	142.4	0.03	0.31	2.05	15.116
Week 7	17-06-2024	10:45:57	16.693	90.4	7.1	53643	8.03	142.4	0.03	0.31	2.04	14.965
Week 7	17-06-2024	10:45:58	16.695	90.4	7.1	53643	8.03	142.4	0.03	0.32	2.07	14.763
Week 7	17-06-2024	10:45:59	16.696	90.4	7.1	53643	8.03	142.4	0.03	0.32	2.08	14.756
Week 7	17-06-2024	10:46:00	16.698	90.5	7.1	53643	8.03	142.4	0.04	0.32	2.08	14.8
Week 7	17-06-2024	10:46:01	16.699	90.5	7.1	53642	8.03	142.4	0.04	0.32	2.09	14.773
Week 7	17-06-2024	10:46:02	16.701	90.5	7.1	53642	8.03	142.4	0.04	0.33	2.13	13.785
Week 7	17-06-2024	10:46:03	16.702	90.5	7.1	53641	8.03	142.4	0.04	0.33	2.1	13.499
Week 7	17-06-2024	10:46:04	16.704	90.5	7.11	53641	8.03	142.4	0.04	0.33	2.12	13.778
Week 7	17-06-2024	10:46:05	16.705	90.6	7.11	53641	8.03	142.4	0.04	0.33	2.11	13.913
Week 7	17-06-2024	10:46:06	16.707	90.6	7.11	53640	8.03	142.4	0.04	0.33	2.12	13.926
Week 7	17-06-2024	10:46:07	16.708	90.6	7.11	53639	8.03	142.4	0.05	0.33	2.12	13.011
Week 7	17-06-2024	10:46:08	16.709	90.6	7.11	53639	8.03	142.4	0.04	0.33	2.1	12.587
Week 7	17-06-2024	10:46:09	16.71	90.7	7.11	53638	8.03	142.4	0.04	0.33	2.1	12.373
Week 7	17-06-2024	10:46:10	16.711	90.7	7.12	53637	8.03	142.4	0.04	0.32	2.08	12.588
Week 7	17-06-2024	10:46:11	16.712	90.7	7.12	53637	8.03	142.4	0.04	0.32	2.09	12.677
Week 7	17-06-2024	10:46:12	16.712	90.7	7.12	53636	8.03	142.4	0.04	0.32	2.07	12.888
Week 7	17-06-2024	10:46:13	16.713	90.8	7.12	53634	8.03	142.4	0.04	0.31	2.03	12.916
Week 7	17-06-2024	10:46:14	16.713	90.8	7.12	53634	8.03	142.4	0.03	0.31	2.06	12.822
Week 7	17-06-2024	10:46:15	16.713	90.8	7.12	53633	8.03	142.3	0.03	0.31	2.04	11.777
Week 7	17-06-2024	10:46:16	16.714	90.8	7.13	53632	8.03	142.3	0.03	0.3	2	11.697
Week 7	17-06-2024	10:46:17	16.714	90.8	7.13	53631	8.03	142.3	0.03	0.29	1.98	11.674
Week 7	17-06-2024	10:46:18	16.714	90.9	7.13	53631	8.03	142.3	0.03	0.29	1.95	11.679
Week 7	17-06-2024	10:46:19	16.714	90.9	7.13	53630	8.03	142.3	0.03	0.28	1.92	11.775
Week 7	17-06-2024	10:46:20	16.714	90.9	7.13	53629	8.03	142.3	0.04	0.28	1.92	11.777
Week 7	17-06-2024	10:46:21	16.715	90.9	7.13	53629	8.03	142.3	0.03	0.28	1.93	11.724
Week 7	17-06-2024	10:46:22	16.715	90.9	7.13	53629	8.03	142.3	0.02	0.28	1.95	11.645
Week 7	17-06-2024	10:46:23	16.715	90.9	7.14	53628	8.03	142.3	0.03	0.29	1.96	10.767
Week 7	17-06-2024	10:46:24	16.715	91	7.14	53628	8.03	142.3	0.04	0.29	1.97	10.548
Week 7	17-06-2024	10:46:25	16.715	91	7.14	53627	8.03	142.3	0.03	0.29	1.96	10.961
Week 7	17-06-2024	10:46:26	16.715	91	7.14	53627	8.03	142.3	0.03	0.3	1.99	11.024
Week 7	17-06-2024	10:46:27	16.715	91	7.14	53627	8.03	142.3	0.03	0.3	2.01	10.975
Week 7	17-06-2024	10:46:28	16.716	91	7.14	53627	8.03	142.3	0.03	0.31	2.02	10.866
Week 7	17-06-2024	10:46:29	16.716	91	7.14	53626	8.03	142.3	0.03	0.31	2.03	10.712
Week 7	17-06-2024	10:46:30	16.716	91.1	7.14	53626	8.03	142.3	0.03	0.32	2.07	10.584
Week 7	17-06-2024	10:46:31	16.716	91.1	7.14	53626	8.03	142.3	0.04	0.32	2.08	10.533
Week 7	17-06-2024	10:46:32	16.716	91.1	7.15	53625	8.03	142.3	0.03	0.34	2.14	10.496
Week 7	17-06-2024	10:46:33	16.716	91.1	7.15	53625	8.03	142.3	0.03	0.32	2.08	10.479
Week 7	17-06-2024	10:46:34	16.716	91.1	7.15	53625	8.03	142.3	0.02	0.33	2.1	10.467
Week 7	17-06-2024	10:46:35	16.717	91.1	7.15	53624	8.03	142.3	0.01	0.34	2.14	10.437
Week 7	17-06-2024	10:46:36	16.717	91.1	7.15	53624	8.03	142.3	0.01	0.34	2.14	9.355
Week 7	17-06-2024	10:46:37	16.717	91.2	7.15	53624	8.03	142.3	0.02	0.34	2.15	9.31
Week 7	17-06-2024	10:46:38	16.717	91.2	7.15	53623	8.03	142.3	0.01	0.33	2.12	9.106
Week 7	17-06-2024	10:46:39	16.717	91.2	7.15	53623	8.03	142.3	0.01	0.34	2.14	9.193
Week 7	17-06-2024	10:46:40	16.717	91.2	7.15	53624	8.03	142.3	0.01	0.34	2.14	9.21
Week 7	17-06-2024	10:46:41	16.717	91.2	7.16	53623	8.03	142.3	0.02	0.33	2.12	9.228
Week 7	17-06-2024	10:46:42	16.718	91.2	7.16	53623	8.03	142.3	0.02	0.33	2.11	9.161
Week 7	17-06-2024	10:46:43	16.718	91.2	7.16	53623	8.03	142.3	0.02	0.32	2.09	9.022
Week 7	17-06-2024	10:46:44	16.718	91.3	7.16	53622	8.03	142.3	0.02	0.32	2.09	8.912
Week 7	17-06-2024	10:46:45	16.718	91.3	7.16	53622	8.03	142.3	0.01	0.32	2.09	8.801

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 7	17-06-2024	10:46:46	16.718	91.3	7.16	53622	8.03	142.3	0.01	0.31	2.06	8.711
Week 7	17-06-2024	10:46:47	16.718	91.3	7.16	53622	8.03	142.3	0.02	0.31	2.04	8.641
Week 7	17-06-2024	10:46:48	16.718	91.3	7.16	53622	8.03	142.3	0.02	0.31	2.03	8.585
Week 7	17-06-2024	10:46:49	16.718	91.3	7.17	53623	8.03	142.3	0.02	0.3	2	8.531
Week 7	17-06-2024	10:46:50	16.718	91.3	7.17	53622	8.03	142.3	0.03	0.3	2	8.486
Week 7	17-06-2024	10:46:51	16.718	91.4	7.17	53622	8.03	142.2	0.04	0.29	1.98	7.547
Week 7	17-06-2024	10:46:52	16.718	91.4	7.17	53622	8.03	142.2	0.04	0.3	2	7.294
Week 7	17-06-2024	10:46:53	16.717	91.4	7.17	53622	8.03	142.2	0.04	0.3	2	7.347
Week 7	17-06-2024	10:46:54	16.717	91.4	7.17	53622	8.03	142.2	0.04	0.29	1.96	7.322
Week 7	17-06-2024	10:46:55	16.717	91.4	7.17	53622	8.03	142.2	0.03	0.29	1.98	7.405
Week 7	17-06-2024	10:46:56	16.717	91.4	7.17	53621	8.03	142.2	0.03	0.3	1.99	7.316
Week 7	17-06-2024	10:46:57	16.717	91.4	7.17	53622	8.03	142.2	0.03	0.29	1.95	7.24
Week 7	17-06-2024	10:46:58	16.717	91.4	7.17	53621	8.03	142.2	0.04	0.29	1.96	7.214
Week 7	17-06-2024	10:46:59	16.717	91.4	7.17	53621	8.03	142.2	0.04	0.29	1.98	7.183
Week 7	17-06-2024	10:47:00	16.716	91.5	7.18	53620	8.03	142.2	0.05	0.3	2	7.116
Week 7	17-06-2024	10:47:01	16.716	91.5	7.18	53619	8.03	142.2	0.05	0.3	1.99	7.056
Week 7	17-06-2024	10:47:02	16.715	91.5	7.18	53617	8.03	142.2	0.05	0.3	1.99	7.015
Week 7	17-06-2024	10:47:03	16.714	91.5	7.18	53614	8.03	142.2	0.04	0.3	2.02	6.976
Week 7	17-06-2024	10:47:04	16.713	91.5	7.18	53611	8.03	142.2	0.04	0.31	2.02	6.936
Week 7	17-06-2024	10:47:05	16.711	91.5	7.18	53608	8.03	142.2	0.04	0.3	2	6.131
Week 7	17-06-2024	10:47:06	16.709	91.5	7.18	53604	8.03	142.2	0.03	0.3	2	6.337
Week 7	17-06-2024	10:47:07	16.706	91.5	7.18	53599	8.03	142.2	0.03	0.29	1.98	5.907
Week 7	17-06-2024	10:47:08	16.702	91.6	7.18	53594	8.03	142.2	0.03	0.31	2.04	5.856
Week 7	17-06-2024	10:47:09	16.698	91.6	7.19	53588	8.04	142.2	0.03	0.31	2.03	5.812
Week 7	17-06-2024	10:47:10	16.693	91.6	7.19	53582	8.04	142.2	0.03	0.32	2.07	5.803
Week 7	17-06-2024	10:47:11	16.687	91.6	7.19	53575	8.04	142.2	0.03	0.31	2.06	5.791
Week 7	17-06-2024	10:47:12	16.681	91.6	7.19	53568	8.04	142.2	0.02	0.32	2.06	5.747
Week 7	17-06-2024	10:47:13	16.675	91.6	7.19	53560	8.04	142.2	0.02	0.32	2.06	5.691
Week 7	17-06-2024	10:47:14	16.668	91.6	7.2	53553	8.04	142.2	0.02	0.31	2.03	5.627
Week 7	17-06-2024	10:47:15	16.663	91.7	7.2	53547	8.04	142.2	0.02	0.31	2.03	5.562
Week 7	17-06-2024	10:47:16	16.655	91.7	7.2	53540	8.04	142.2	0.02	0.33	2.1	5.482
Week 7	17-06-2024	10:47:17	16.646	91.7	7.21	53532	8.04	142.2	0.02	0.33	2.12	5.424
Week 7	17-06-2024	10:47:18	16.638	91.7	7.21	53522	8.04	142.2	0.02	0.34	2.13	5.363
Week 7	17-06-2024	10:47:19	16.629	91.7	7.21	53513	8.04	142.2	0.02	0.33	2.1	5.312
Week 7	17-06-2024	10:47:20	16.621	91.8	7.22	53504	8.04	142.2	0.02	0.32	2.07	4.461
Week 7	17-06-2024	10:47:21	16.613	91.8	7.22	53497	8.04	142.2	0.02	0.3	2	4.475
Week 7	17-06-2024	10:47:22	16.606	91.8	7.22	53488	8.04	142.2	0.03	0.31	2.03	4.263
Week 7	17-06-2024	10:47:23	16.599	91.9	7.23	53480	8.04	142.2	0.02	0.31	2.02	4.281
Week 7	17-06-2024	10:47:24	16.593	91.9	7.23	53472	8.04	142.2	0.02	0.3	2.02	4.276
Week 7	17-06-2024	10:47:25	16.586	92	7.24	53464	8.04	142.2	0.02	0.3	2.02	4.303
Week 7	17-06-2024	10:47:26	16.58	92	7.24	53456	8.04	142.2	0.03	0.31	2.04	4.241
Week 7	17-06-2024	10:47:27	16.574	92.1	7.25	53448	8.04	142.1	0.02	0.31	2.02	4.129
Week 7	17-06-2024	10:47:28	16.568	92.1	7.25	53440	8.04	142.1	0.02	0.31	2.03	4.017
Week 7	17-06-2024	10:47:29	16.562	92.2	7.26	53433	8.04	142.1	0.02	0.29	1.97	3.915
Week 7	17-06-2024	10:47:30	16.559	92.2	7.26	53427	8.04	142.1	0.01	0.29	1.97	3.843
Week 7	17-06-2024	10:47:31	16.555	92.3	7.27	53424	8.04	142.1	0.02	0.29	1.96	3.785
Week 7	17-06-2024	10:47:32	16.553	92.3	7.27	53419	8.04	142.1	0.01	0.29	1.99	3.733
Week 7	17-06-2024	10:47:33	16.55	92.4	7.28	53416	8.04	142.1	0.02	0.29	1.97	3.678
Week 7	17-06-2024	10:47:34	16.548	92.4	7.28	53412	8.04	142.1	0.03	0.29	1.97	3.642
Week 7	17-06-2024	10:47:35	16.546	92.5	7.29	53410	8.04	142.1	0.02	0.28	1.94	3.613
Week 7	17-06-2024	10:47:36	16.545	92.5	7.29	53407	8.04	142.1	0.02	0.27	1.91	3.573
Week 7	17-06-2024	10:47:37	16.542	92.6	7.29	53404	8.04	142.1	0.02	0.26	1.86	2.751
Week 7	17-06-2024	10:47:38	16.54	92.6	7.3	53400	8.04	142.1	0.02	0.24	1.79	2.578
Week 7	17-06-2024	10:47:39	16.538	92.7	7.3	53397	8.04	142.1	0.01	0.23	1.76	2.487
Week 7	17-06-2024	10:47:40	16.536	92.7	7.3	53393	8.04	142.1	0	0.25	1.81	2.316
Week 7	17-06-2024	10:47:41	16.533	92.7	7.31	53389	8.04	142.1	-0.01	0.25	1.81	2.317
Week 7	17-06-2024	10:47:42	16.531	92.8	7.31	53386	8.04	142.1	0	0.24	1.8	2.276
Week 7	17-06-2024	10:47:43	16.528	92.8	7.32	53385	8.04	142.1	0.01	0.24	1.8	2.259
Week 7	17-06-2024	10:47:44	16.526	92.9	7.32	53385	8.04	142.1	0.01	0.23	1.75	2.231
Week 7	17-06-2024	10:47:45	16.524	92.9	7.32	53385	8.04	142.1	0.01	0.22	1.72	2.189
Week 7	17-06-2024	10:47:46	16.521	92.9	7.33	53384	8.04	142.1	0.01	0.22	1.73	1.336
Week 7	17-06-2024	10:47:47	16.519	93	7.33	53381	8.04	142.1	0.01	0.22	1.73	1.171
Week 7	17-06-2024	10:47:48	16.516	93	7.33	53378	8.04	142.1	0.01	0.22	1.71	1.307
Week 7	17-06-2024	10:47:49	16.514	93	7.34	53376	8.04	142.1	0.01	0.22	1.73	1.017
Week 7	17-06-2024	10:47:50	16.512	93.1	7.34	53373	8.04	142.1	0.01	0.2	1.65	0.826
Week 7	17-06-2024	10:47:51	16.511	93.1	7.34	53370	8.04	142.1	0.01	0.2	1.64	0.66
Week 7	17-06-2024	10:47:52	16.509	93.2	7.35	53368	8.04	142.1	0.02	0.2	1.63	0.584

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 7	17-06-2024	10:47:53	16.509	93.2	7.35	53366	8.04	142.1	0.02	0.2	1.64	0.569
Week 7	17-06-2024	10:47:54	16.508	93.2	7.35	53366	8.04	142.1	0.03	0.19	1.62	0.55
Week 7	17-06-2024	10:47:55	16.508	93.3	7.36	53363	8.04	142.1	0.04	0.19	1.6	0.535
Week 7	17-06-2024	10:47:56	16.508	93.3	7.36	53359	8.04	142.1	0.04	0.18	1.59	0.511
Week 7	17-06-2024	10:47:57	16.507	93.4	7.36	53354	8.04	142.1	0.04	0.18	1.57	0.489
Week 7	17-06-2024	10:47:58	16.507	93.4	7.37	53349	8.04	142.1	0.04	0.17	1.54	0.463
Week 7	17-06-2024	10:47:59	16.507	93.4	7.37	53345	8.04	142.1	0.04	0.18	1.58	0.438
Week 7	17-06-2024	10:48:00	16.507	93.5	7.37	53343	8.04	142.1	0.04	0.18	1.57	0.419
Week 7	17-06-2024	10:48:01	16.507	93.5	7.37	53340	8.04	142.1	0.04	0.2	1.64	0.392
Week 8	24-06-2024	10:32:20	15.033	102.1	10.29	54461	8.06	129.9	7.91	0.39	2.32	0.118
Week 8	24-06-2024	10:32:21	15.093	101.9	8.23	54348	8.07	129.5	7.25	0.36	2.23	0.114
Week 8	24-06-2024	10:32:22	15.163	101.9	8.23	54293	8.07	129.4	6.56	0.36	2.23	0.114
Week 8	24-06-2024	10:32:23	15.226	101.8	8.21	54212	8.08	129.3	5.98	0.35	2.18	0.115
Week 8	24-06-2024	10:32:24	15.303	101.7	8.19	54143	8.08	129.3	5.39	0.32	2.06	0.117
Week 8	24-06-2024	10:32:25	15.374	101.5	8.17	54051	8.08	129.3	4.8	0.31	2.04	0.122
Week 8	24-06-2024	10:32:26	15.457	101.4	8.15	53964	8.08	129.2	4.22	0.29	1.96	0.13
Week 8	24-06-2024	10:32:27	15.542	101.3	8.13	53862	8.08	129.2	3.56	0.28	1.92	0.147
Week 8	24-06-2024	10:32:28	15.623	101.2	8.12	53764	8.08	129.2	2.88	0.26	1.87	0.97
Week 8	24-06-2024	10:32:29	15.711	101.1	8.1	53641	8.08	129.2	2.24	0.25	1.84	1.202
Week 8	24-06-2024	10:32:30	15.81	101	8.08	53536	8.08	129.2	1.65	0.25	1.84	1.248
Week 8	24-06-2024	10:32:31	15.893	100.9	8.06	53419	8.07	129.2	1.12	0.28	1.91	1.26
Week 8	24-06-2024	10:32:32	15.973	100.8	8.04	53323	8.07	129.2	0.54	0.3	2	1.253
Week 8	24-06-2024	10:32:33	15.98	100.7	8.02	53315	8.07	129.2	0.1	0.29	1.96	1.255
Week 8	24-06-2024	10:32:34	15.983	100.6	8.01	53312	8.07	129.2	0.04	0.29	1.97	1.276
Week 8	24-06-2024	10:32:35	15.985	100.5	8.01	53311	8.07	129.1	0.03	0.3	2.02	1.314
Week 8	24-06-2024	10:32:36	15.986	100.3	7.99	53310	8.07	129.1	0.03	0.32	2.07	1.354
Week 8	24-06-2024	10:32:37	15.986	100.1	7.98	53313	8.07	129.1	0.04	0.32	2.06	1.371
Week 8	24-06-2024	10:32:38	15.986	100	7.97	53316	8.07	129.1	0.04	0.33	2.1	1.446
Week 8	24-06-2024	10:32:39	15.986	99.8	7.96	53317	8.07	129.1	0.04	0.34	2.14	1.516
Week 8	24-06-2024	10:32:40	15.986	99.7	7.94	53320	8.07	129.1	0.04	0.34	2.16	1.571
Week 8	24-06-2024	10:32:41	15.986	99.6	7.94	53322	8.07	129.1	0.04	0.34	2.16	1.623
Week 8	24-06-2024	10:32:42	15.986	99.5	7.93	53324	8.07	129.1	0.04	0.35	2.17	1.66
Week 8	24-06-2024	10:32:43	15.986	99.4	7.92	53325	8.07	129.1	0.03	0.34	2.16	1.682
Week 8	24-06-2024	10:32:44	15.986	99.3	7.91	53327	8.07	129.1	0.03	0.35	2.19	1.732
Week 8	24-06-2024	10:32:45	15.986	99.3	7.91	53329	8.07	129.1	0.03	0.36	2.21	1.757
Week 8	24-06-2024	10:32:46	15.986	99.2	7.9	53330	8.07	129.1	0.03	0.36	2.2	1.78
Week 8	24-06-2024	10:32:47	15.986	99.2	7.9	53332	8.07	129.1	0.02	0.36	2.23	1.801
Week 8	24-06-2024	10:32:48	15.986	99.1	7.9	53334	8.07	129	0.03	0.37	2.26	1.83
Week 8	24-06-2024	10:32:49	15.986	99.1	7.9	53334	8.07	129	0.03	0.37	2.27	1.86
Week 8	24-06-2024	10:32:50	15.986	99.1	7.89	53335	8.07	129	0.03	0.36	2.23	2.59
Week 8	24-06-2024	10:32:51	15.986	99	7.89	53336	8.07	129	0.03	0.35	2.18	2.868
Week 8	24-06-2024	10:32:52	15.986	99	7.89	53338	8.07	129	0.03	0.34	2.16	2.906
Week 8	24-06-2024	10:32:53	15.986	99	7.88	53338	8.07	129	0.02	0.32	2.09	2.912
Week 8	24-06-2024	10:32:54	15.987	98.9	7.88	53339	8.07	129	0.02	0.32	2.06	2.925
Week 8	24-06-2024	10:32:55	15.987	98.9	7.88	53339	8.07	129	0.02	0.31	2.05	2.938
Week 8	24-06-2024	10:32:56	15.987	98.9	7.88	53340	8.07	129	0.02	0.3	2.01	3.013
Week 8	24-06-2024	10:32:57	15.988	98.9	7.88	53341	8.07	129	0.02	0.3	1.99	3.145
Week 8	24-06-2024	10:32:58	15.989	98.8	7.88	53341	8.07	129	0.03	0.28	1.93	3.19
Week 8	24-06-2024	10:32:59	15.989	98.8	7.87	53342	8.07	129	0.03	0.29	1.95	3.336
Week 8	24-06-2024	10:33:00	15.99	98.8	7.87	53343	8.07	129	0.03	0.27	1.89	3.392
Week 8	24-06-2024	10:33:01	15.99	98.8	7.87	53344	8.07	128.9	0.04	0.28	1.92	3.443
Week 8	24-06-2024	10:33:02	15.99	98.8	7.87	53344	8.07	128.9	0.03	0.28	1.93	3.482
Week 8	24-06-2024	10:33:03	15.99	98.7	7.87	53345	8.07	128.9	0.03	0.29	1.96	3.493
Week 8	24-06-2024	10:33:04	15.991	98.7	7.87	53346	8.07	128.9	0.02	0.29	1.97	3.539
Week 8	24-06-2024	10:33:05	15.991	98.7	7.86	53346	8.07	128.9	0.02	0.3	1.99	3.58
Week 8	24-06-2024	10:33:06	15.992	98.7	7.86	53346	8.07	128.9	0.02	0.29	1.95	4.398
Week 8	24-06-2024	10:33:07	15.993	98.7	7.86	53347	8.07	128.9	0.03	0.29	1.97	4.532
Week 8	24-06-2024	10:33:08	15.995	98.7	7.86	53347	8.07	128.9	0.04	0.3	1.99	4.55
Week 8	24-06-2024	10:33:09	15.996	98.6	7.86	53348	8.07	128.9	0.04	0.3	2.01	4.485
Week 8	24-06-2024	10:33:10	15.997	98.6	7.86	53348	8.07	128.9	0.03	0.29	1.95	4.491
Week 8	24-06-2024	10:33:11	15.998	98.6	7.85	53349	8.07	128.9	0.04	0.3	1.99	4.498
Week 8	24-06-2024	10:33:12	16	98.6	7.85	53350	8.07	128.9	0.06	0.29	1.98	4.512
Week 8	24-06-2024	10:33:13	16.001	98.6	7.85	53351	8.07	128.9	0.06	0.3	2	4.588
Week 8	24-06-2024	10:33:14	16.002	98.6	7.85	53351	8.07	128.9	0.06	0.29	1.95	4.704
Week 8	24-06-2024	10:33:15	16.004	98.5	7.85	53352	8.07	128.9	0.06	0.29	1.95	4.776
Week 8	24-06-2024	10:33:16	16.005	98.5	7.85	53353	8.07	128.9	0.06	0.28	1.92	4.82
Week 8	24-06-2024	10:33:17	16.006	98.5	7.85	53353	8.07	128.9	0.05	0.29	1.97	4.921

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 8	24-06-2024	10:33:18	16.008	98.5	7.84	53353	8.07	128.9	0.06	0.29	1.95	4.984
Week 8	24-06-2024	10:33:19	16.008	98.5	7.84	53354	8.07	128.8	0.07	0.28	1.94	5
Week 8	24-06-2024	10:33:20	16.008	98.5	7.84	53354	8.07	128.8	0.07	0.29	1.98	5.055
Week 8	24-06-2024	10:33:21	16.009	98.5	7.84	53355	8.07	128.8	0.07	0.3	2.01	5.087
Week 8	24-06-2024	10:33:22	16.009	98.4	7.84	53355	8.07	128.8	0.04	0.29	1.97	5.111
Week 8	24-06-2024	10:33:23	16.009	98.4	7.84	53355	8.07	128.8	0.03	0.28	1.92	5.133
Week 8	24-06-2024	10:33:24	16.01	98.4	7.84	53355	8.07	128.8	0.04	0.26	1.87	5.149
Week 8	24-06-2024	10:33:25	16.01	98.4	7.83	53355	8.07	128.8	0.04	0.27	1.88	5.172
Week 8	24-06-2024	10:33:26	16.01	98.4	7.83	53355	8.07	128.8	0.04	0.27	1.89	5.202
Week 8	24-06-2024	10:33:27	16.011	98.4	7.83	53356	8.07	128.8	0.03	0.26	1.88	5.24
Week 8	24-06-2024	10:33:28	16.011	98.3	7.83	53356	8.07	128.8	0.03	0.25	1.84	5.268
Week 8	24-06-2024	10:33:29	16.011	98.3	7.83	53356	8.07	128.8	0.03	0.25	1.84	5.296
Week 8	24-06-2024	10:33:30	16.012	98.3	7.83	53357	8.07	128.8	0.03	0.25	1.82	5.314
Week 8	24-06-2024	10:33:31	16.012	98.3	7.83	53357	8.07	128.8	0.03	0.24	1.8	6.01
Week 8	24-06-2024	10:33:32	16.012	98.3	7.83	53357	8.07	128.8	0.03	0.24	1.77	5.992
Week 8	24-06-2024	10:33:33	16.013	98.3	7.83	53358	8.07	128.8	0.02	0.23	1.75	6.07
Week 8	24-06-2024	10:33:34	16.013	98.3	7.83	53358	8.07	128.8	0.01	0.23	1.74	6.121
Week 8	24-06-2024	10:33:35	16.015	98.3	7.83	53358	8.07	128.8	0.02	0.24	1.78	6.15
Week 8	24-06-2024	10:33:36	16.017	98.3	7.83	53358	8.07	128.8	0.02	0.25	1.81	6.2
Week 8	24-06-2024	10:33:37	16.019	98.3	7.83	53358	8.07	128.8	0.03	0.25	1.82	6.252
Week 8	24-06-2024	10:33:38	16.022	98.3	7.82	53360	8.07	128.8	0.02	0.26	1.86	6.319
Week 8	24-06-2024	10:33:39	16.025	98.3	7.82	53361	8.07	128.8	0.02	0.27	1.88	6.399
Week 8	24-06-2024	10:33:40	16.028	98.3	7.82	53363	8.07	128.8	0.01	0.26	1.86	6.472
Week 8	24-06-2024	10:33:41	16.031	98.3	7.82	53365	8.07	128.8	0.01	0.26	1.86	6.53
Week 8	24-06-2024	10:33:42	16.034	98.3	7.82	53366	8.07	128.8	0	0.27	1.9	6.587
Week 8	24-06-2024	10:33:43	16.038	98.2	7.82	53369	8.07	128.8	0	0.27	1.9	6.634
Week 8	24-06-2024	10:33:44	16.041	98.2	7.82	53371	8.07	128.8	0	0.28	1.94	6.681
Week 8	24-06-2024	10:33:45	16.046	98.2	7.82	53373	8.07	128.8	0.01	0.3	2	7.456
Week 8	24-06-2024	10:33:46	16.049	98.2	7.82	53376	8.07	128.8	0	0.28	1.94	7.397
Week 8	24-06-2024	10:33:47	16.053	98.2	7.81	53379	8.07	128.8	0	0.29	1.95	7.42
Week 8	24-06-2024	10:33:48	16.056	98.2	7.81	53383	8.07	128.8	0	0.28	1.95	7.484
Week 8	24-06-2024	10:33:49	16.059	98.2	7.81	53386	8.07	128.8	0	0.27	1.89	7.593
Week 8	24-06-2024	10:33:50	16.061	98.2	7.81	53389	8.07	128.8	0.01	0.28	1.92	7.753
Week 8	24-06-2024	10:33:51	16.064	98.1	7.81	53391	8.07	128.8	0.01	0.29	1.98	7.795
Week 8	24-06-2024	10:33:52	16.066	98.1	7.8	53394	8.07	128.8	0	0.3	2	7.778
Week 8	24-06-2024	10:33:53	16.068	98.1	7.8	53396	8.07	128.8	0.01	0.28	1.94	7.794
Week 8	24-06-2024	10:33:54	16.071	98.1	7.8	53397	8.07	128.8	0	0.28	1.95	7.836
Week 8	24-06-2024	10:33:55	16.073	98.1	7.8	53400	8.07	128.8	0	0.29	1.96	8.568
Week 8	24-06-2024	10:33:56	16.076	98.1	7.8	53401	8.07	128.8	0.01	0.29	1.95	8.448
Week 8	24-06-2024	10:33:57	16.078	98.1	7.8	53404	8.07	128.8	0.02	0.29	1.97	8.56
Week 8	24-06-2024	10:33:58	16.08	98	7.8	53405	8.07	128.8	0.02	0.28	1.93	8.623
Week 8	24-06-2024	10:33:59	16.081	98	7.79	53406	8.07	128.8	0.01	0.27	1.9	8.596
Week 8	24-06-2024	10:34:00	16.083	98	7.79	53407	8.07	128.8	0.02	0.27	1.91	8.592
Week 8	24-06-2024	10:34:01	16.084	98	7.79	53408	8.07	128.8	0.01	0.28	1.93	8.606
Week 8	24-06-2024	10:34:02	16.086	98	7.79	53408	8.07	128.8	0.02	0.26	1.86	8.613
Week 8	24-06-2024	10:34:03	16.087	98	7.79	53408	8.07	128.8	0.02	0.26	1.85	8.63
Week 8	24-06-2024	10:34:04	16.088	97.9	7.79	53409	8.07	128.8	0.01	0.26	1.87	8.649
Week 8	24-06-2024	10:34:05	16.089	97.9	7.78	53409	8.07	128.8	0.01	0.26	1.86	8.696
Week 8	24-06-2024	10:34:06	16.09	97.9	7.78	53409	8.07	128.8	0.01	0.26	1.87	8.742
Week 8	24-06-2024	10:34:07	16.091	97.9	7.78	53410	8.07	128.8	0.01	0.26	1.85	8.802
Week 8	24-06-2024	10:34:08	16.093	97.9	7.78	53410	8.07	128.8	0.01	0.26	1.86	8.86
Week 8	24-06-2024	10:34:09	16.094	97.9	7.78	53409	8.07	128.8	0.01	0.26	1.85	8.906
Week 8	24-06-2024	10:34:10	16.096	97.9	7.78	53409	8.07	128.8	0.03	0.27	1.89	8.961
Week 8	24-06-2024	10:34:11	16.099	97.9	7.78	53409	8.07	128.8	0.02	0.27	1.91	8.975
Week 8	24-06-2024	10:34:12	16.101	97.9	7.78	53409	8.07	128.8	0.02	0.26	1.86	9.024
Week 8	24-06-2024	10:34:13	16.103	97.9	7.78	53410	8.07	128.8	0.02	0.28	1.93	9.808
Week 8	24-06-2024	10:34:14	16.106	97.8	7.78	53411	8.07	128.8	0.02	0.26	1.85	9.825
Week 8	24-06-2024	10:34:15	16.108	97.8	7.77	53412	8.07	128.8	0.02	0.26	1.85	9.798
Week 8	24-06-2024	10:34:16	16.111	97.8	7.77	53413	8.07	128.8	0.01	0.26	1.86	9.976
Week 8	24-06-2024	10:34:17	16.114	97.8	7.77	53414	8.07	128.8	0.02	0.27	1.88	9.989
Week 8	24-06-2024	10:34:18	16.117	97.8	7.77	53415	8.07	128.8	0.01	0.27	1.91	9.99
Week 8	24-06-2024	10:34:19	16.12	97.8	7.77	53416	8.07	128.8	0.02	0.29	1.96	10.016
Week 8	24-06-2024	10:34:20	16.123	97.8	7.77	53416	8.07	128.8	0.01	0.29	1.95	10.076
Week 8	24-06-2024	10:34:21	16.128	97.8	7.77	53419	8.07	128.8	0.02	0.29	1.98	10.134
Week 8	24-06-2024	10:34:22	16.134	97.8	7.77	53422	8.07	128.8	0.02	0.29	1.97	10.184
Week 8	24-06-2024	10:34:23	16.139	97.8	7.77	53425	8.07	128.8	0.02	0.28	1.94	10.216
Week 8	24-06-2024	10:34:24	16.144	97.8	7.77	53428	8.07	128.8	0.02	0.28	1.94	10.235

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 8	24-06-2024	10:34:25	16.15	97.8	7.76	53430	8.07	128.8	0	0.29	1.97	10.247
Week 8	24-06-2024	10:34:26	16.155	97.8	7.76	53433	8.07	128.8	0.01	0.29	1.97	10.273
Week 8	24-06-2024	10:34:27	16.162	97.8	7.76	53435	8.07	128.8	0.01	0.29	1.98	10.325
Week 8	24-06-2024	10:34:28	16.169	97.8	7.76	53438	8.07	128.8	0.02	0.3	2	10.369
Week 8	24-06-2024	10:34:29	16.177	97.8	7.76	53440	8.07	128.8	0.02	0.28	1.93	10.41
Week 8	24-06-2024	10:34:30	16.186	97.8	7.76	53444	8.06	128.8	0.03	0.27	1.9	10.45
Week 8	24-06-2024	10:34:31	16.197	97.8	7.76	53447	8.06	128.8	0.04	0.27	1.91	11.268
Week 8	24-06-2024	10:34:32	16.207	97.8	7.75	53452	8.06	128.8	0.03	0.27	1.9	11.244
Week 8	24-06-2024	10:34:33	16.217	97.8	7.75	53456	8.06	128.8	0.03	0.27	1.9	11.334
Week 8	24-06-2024	10:34:34	16.224	97.7	7.75	53458	8.06	128.8	0.03	0.27	1.9	11.267
Week 8	24-06-2024	10:34:35	16.232	97.7	7.75	53462	8.06	128.8	0.03	0.27	1.91	11.322
Week 8	24-06-2024	10:34:36	16.239	97.7	7.74	53465	8.06	128.8	0.02	0.27	1.91	11.467
Week 8	24-06-2024	10:34:37	16.247	97.7	7.74	53468	8.06	128.8	0.03	0.27	1.88	11.588
Week 8	24-06-2024	10:34:38	16.256	97.7	7.74	53472	8.06	128.8	0.03	0.27	1.88	11.722
Week 8	24-06-2024	10:34:39	16.264	97.6	7.73	53476	8.06	128.8	0.03	0.26	1.86	11.822
Week 8	24-06-2024	10:34:40	16.271	97.6	7.73	53481	8.06	128.8	0.03	0.26	1.87	11.912
Week 8	24-06-2024	10:34:41	16.278	97.6	7.73	53485	8.06	128.8	0.03	0.27	1.88	11.979
Week 8	24-06-2024	10:34:42	16.283	97.5	7.72	53490	8.06	128.8	0.02	0.27	1.89	12.028
Week 8	24-06-2024	10:34:43	16.288	97.5	7.72	53494	8.06	128.8	0.02	0.27	1.88	12.066
Week 8	24-06-2024	10:34:44	16.29	97.5	7.72	53497	8.06	128.8	0.01	0.25	1.84	12.105
Week 8	24-06-2024	10:34:45	16.293	97.4	7.71	53499	8.06	128.8	0.01	0.24	1.8	12.138
Week 8	24-06-2024	10:34:46	16.296	97.4	7.71	53502	8.06	128.8	0.01	0.23	1.77	12.963
Week 8	24-06-2024	10:34:47	16.299	97.4	7.71	53504	8.06	128.8	0	0.23	1.76	13.05
Week 8	24-06-2024	10:34:48	16.302	97.3	7.7	53506	8.06	128.8	0	0.24	1.8	13.147
Week 8	24-06-2024	10:34:49	16.305	97.3	7.7	53508	8.06	128.8	0	0.24	1.79	13.151
Week 8	24-06-2024	10:34:50	16.307	97.3	7.7	53511	8.06	128.8	0	0.23	1.77	13.142
Week 8	24-06-2024	10:34:51	16.309	97.3	7.69	53512	8.06	128.8	0	0.25	1.83	13.183
Week 8	24-06-2024	10:34:52	16.311	97.2	7.69	53513	8.06	128.8	-0.01	0.25	1.81	13.261
Week 8	24-06-2024	10:34:53	16.313	97.2	7.69	53514	8.06	128.8	-0.01	0.23	1.76	13.323
Week 8	24-06-2024	10:34:54	16.315	97.2	7.69	53515	8.06	128.8	-0.01	0.23	1.75	13.375
Week 8	24-06-2024	10:34:55	16.318	97.2	7.69	53517	8.06	128.8	-0.01	0.24	1.79	14.11
Week 8	24-06-2024	10:34:56	16.321	97.1	7.68	53518	8.06	128.8	-0.01	0.25	1.83	14.317
Week 8	24-06-2024	10:34:57	16.324	97.1	7.68	53521	8.06	128.8	-0.01	0.26	1.87	14.279
Week 8	24-06-2024	10:34:58	16.328	97.1	7.68	53523	8.06	128.8	0	0.26	1.87	14.347
Week 8	24-06-2024	10:34:59	16.33	97.1	7.68	53525	8.06	128.8	-0.01	0.25	1.83	14.261
Week 8	24-06-2024	10:35:00	16.333	97	7.67	53528	8.06	128.8	-0.01	0.25	1.82	14.197
Week 8	24-06-2024	10:35:01	16.336	97	7.67	53530	8.06	128.8	-0.02	0.26	1.86	14.237
Week 8	24-06-2024	10:35:02	16.338	97	7.67	53532	8.06	128.8	-0.01	0.25	1.82	14.348
Week 8	24-06-2024	10:35:03	16.34	97	7.67	53535	8.06	128.8	-0.01	0.25	1.82	14.422
Week 8	24-06-2024	10:35:04	16.342	96.9	7.66	53537	8.06	128.8	-0.01	0.26	1.86	14.492
Week 8	24-06-2024	10:35:05	16.344	96.9	7.66	53540	8.06	128.8	-0.02	0.25	1.83	14.575
Week 8	24-06-2024	10:35:06	16.346	96.9	7.66	53542	8.06	128.8	-0.01	0.25	1.81	14.661
Week 8	24-06-2024	10:35:07	16.347	96.8	7.65	53545	8.06	128.8	0	0.23	1.76	14.722
Week 8	24-06-2024	10:35:08	16.348	96.8	7.65	53547	8.06	128.8	0	0.21	1.67	14.759
Week 8	24-06-2024	10:35:09	16.349	96.7	7.65	53548	8.06	128.8	0	0.22	1.7	14.797
Week 8	24-06-2024	10:35:10	16.35	96.7	7.64	53549	8.06	128.8	0	0.23	1.76	14.852
Week 8	24-06-2024	10:35:11	16.35	96.6	7.64	53550	8.06	128.9	0	0.23	1.75	15.714
Week 8	24-06-2024	10:35:12	16.351	96.6	7.64	53551	8.06	128.9	0.01	0.22	1.71	15.875
Week 8	24-06-2024	10:35:13	16.352	96.6	7.63	53552	8.06	128.9	0.01	0.21	1.67	16.09
Week 8	24-06-2024	10:35:14	16.352	96.5	7.63	53552	8.05	128.9	0.02	0.2	1.65	15.976
Week 8	24-06-2024	10:35:15	16.353	96.5	7.63	53553	8.05	128.9	0.03	0.18	1.57	15.854
Week 8	24-06-2024	10:35:16	16.353	96.4	7.62	53553	8.05	128.9	0.03	0.17	1.54	15.833
Week 8	24-06-2024	10:35:17	16.354	96.4	7.62	53553	8.05	128.9	0.03	0.17	1.51	15.844
Week 8	24-06-2024	10:35:18	16.354	96.4	7.62	53554	8.05	128.9	0.03	0.17	1.53	15.905
Week 8	24-06-2024	10:35:19	16.354	96.3	7.61	53554	8.05	128.9	0.04	0.16	1.51	15.969
Week 8	24-06-2024	10:35:20	16.355	96.3	7.61	53555	8.05	128.9	0.03	0.14	1.43	16.035
Week 8	24-06-2024	10:35:21	16.355	96.2	7.61	53555	8.05	128.9	0.03	0.12	1.37	16.096
Week 8	24-06-2024	10:35:22	16.355	96.2	7.6	53555	8.05	128.9	0.03	0.11	1.3	16.144
Week 8	24-06-2024	10:35:23	16.355	96.2	7.6	53556	8.05	128.9	0.03	0.1	1.27	16.207
Week 8	24-06-2024	10:35:24	16.355	96.1	7.6	53556	8.05	128.9	0.03	0.09	1.26	17.084
Week 8	24-06-2024	10:35:25	16.356	96.1	7.6	53557	8.05	128.9	0.03	0.09	1.26	17.043
Week 8	24-06-2024	10:35:26	16.356	96.1	7.59	53557	8.05	128.9	0.02	0.1	1.26	16.718
Week 8	24-06-2024	10:35:27	16.356	96.1	7.59	53557	8.05	128.9	0.02	0.1	1.28	16.722
Week 8	24-06-2024	10:35:28	16.356	96	7.59	53557	8.05	128.9	0.02	0.1	1.3	16.773
Week 8	24-06-2024	10:35:29	16.356	96	7.59	53558	8.05	128.9	0.01	0.11	1.33	16.836
Week 8	24-06-2024	10:35:30	16.356	96	7.59	53558	8.05	128.9	0.01	0.13	1.37	16.908
Week 8	24-06-2024	10:35:31	16.357	96	7.58	53559	8.05	128.9	0	0.13	1.38	17.006

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 8	24-06-2024	10:35:32	16.357	95.9	7.58	53559	8.05	128.9	0	0.13	1.39	17.124
Week 8	24-06-2024	10:35:33	16.357	95.9	7.58	53560	8.05	128.9	0	0.15	1.45	17.18
Week 8	24-06-2024	10:35:34	16.357	95.9	7.58	53560	8.05	128.9	0	0.15	1.45	17.219
Week 8	24-06-2024	10:35:35	16.358	95.9	7.58	53560	8.05	128.9	0	0.15	1.47	17.268
Week 8	24-06-2024	10:35:36	16.358	95.9	7.58	53561	8.05	128.9	0	0.15	1.47	18.291
Week 8	24-06-2024	10:35:37	16.358	95.8	7.57	53562	8.05	128.9	0.01	0.16	1.51	18.325
Week 8	24-06-2024	10:35:38	16.358	95.8	7.57	53562	8.05	128.9	0.01	0.14	1.44	18.021
Week 8	24-06-2024	10:35:39	16.359	95.8	7.57	53562	8.05	128.9	0.01	0.16	1.49	17.956
Week 8	24-06-2024	10:35:40	16.359	95.8	7.57	53563	8.05	128.9	0.01	0.16	1.48	17.918
Week 8	24-06-2024	10:35:41	16.359	95.7	7.57	53563	8.05	128.9	0.01	0.15	1.45	18.04
Week 8	24-06-2024	10:35:42	16.359	95.7	7.56	53564	8.05	128.9	0.01	0.16	1.5	18.884
Week 8	24-06-2024	10:35:43	16.36	95.7	7.56	53565	8.05	128.9	0.01	0.16	1.49	18.869
Week 8	24-06-2024	10:35:44	16.36	95.7	7.56	53566	8.05	128.9	0	0.14	1.44	18.971
Week 8	24-06-2024	10:35:45	16.36	95.7	7.56	53566	8.05	128.9	0.01	0.15	1.45	19.06
Week 8	24-06-2024	10:35:46	16.36	95.6	7.56	53566	8.05	128.9	0.02	0.15	1.45	19.056
Week 8	24-06-2024	10:35:47	16.361	95.6	7.56	53566	8.05	128.9	0.03	0.16	1.48	19.024
Week 8	24-06-2024	10:35:48	16.361	95.6	7.55	53566	8.05	128.9	0.03	0.16	1.51	19.035
Week 8	24-06-2024	10:35:49	16.361	95.6	7.55	53567	8.05	128.9	0.03	0.18	1.56	19.134
Week 8	24-06-2024	10:35:50	16.361	95.6	7.55	53567	8.05	128.9	0.03	0.18	1.56	19.209
Week 8	24-06-2024	10:35:51	16.361	95.6	7.55	53567	8.05	128.9	0.02	0.18	1.58	20.009
Week 8	24-06-2024	10:35:52	16.361	95.5	7.55	53566	8.05	128.9	0.01	0.19	1.59	20.068
Week 8	24-06-2024	10:35:53	16.361	95.5	7.55	53567	8.05	128.9	0.02	0.18	1.59	19.978
Week 8	24-06-2024	10:35:54	16.362	95.5	7.55	53567	8.05	128.9	0.02	0.21	1.67	19.939
Week 8	24-06-2024	10:35:55	16.362	95.5	7.54	53567	8.05	128.9	0.03	0.22	1.72	19.981
Week 8	24-06-2024	10:35:56	16.362	95.5	7.54	53567	8.05	128.9	0.04	0.25	1.82	20.148
Week 8	24-06-2024	10:35:57	16.362	95.4	7.54	53567	8.05	128.9	0.04	0.24	1.8	20.313
Week 8	24-06-2024	10:35:58	16.362	95.4	7.54	53566	8.05	128.9	0.04	0.24	1.8	20.425
Week 8	24-06-2024	10:35:59	16.363	95.4	7.54	53566	8.05	128.9	0.05	0.24	1.78	20.506
Week 8	24-06-2024	10:36:00	16.363	95.4	7.54	53566	8.05	128.9	0.04	0.23	1.77	20.579
Week 8	24-06-2024	10:36:01	16.363	95.4	7.54	53566	8.05	129	0.05	0.24	1.8	20.644
Week 8	24-06-2024	10:36:02	16.363	95.4	7.53	53567	8.05	129	0.04	0.25	1.83	20.707
Week 8	24-06-2024	10:36:03	16.363	95.3	7.53	53567	8.05	129	0.05	0.25	1.81	20.751
Week 8	24-06-2024	10:36:04	16.363	95.3	7.53	53567	8.05	129	0.05	0.24	1.8	20.797
Week 8	24-06-2024	10:36:05	16.363	95.3	7.53	53566	8.05	129	0.06	0.23	1.75	21.525
Week 8	24-06-2024	10:36:06	16.363	95.3	7.53	53566	8.05	129	0.06	0.22	1.71	21.636
Week 8	24-06-2024	10:36:07	16.363	95.3	7.53	53566	8.05	129	0.06	0.2	1.66	21.851
Week 8	24-06-2024	10:36:08	16.363	95.3	7.53	53566	8.05	129	0.06	0.21	1.69	21.931
Week 8	24-06-2024	10:36:09	16.364	95.2	7.53	53566	8.05	129	0.06	0.2	1.65	22.079
Week 8	24-06-2024	10:36:10	16.364	95.2	7.53	53566	8.05	129	0.05	0.2	1.66	22.133
Week 8	24-06-2024	10:36:11	16.364	95.2	7.52	53566	8.05	129	0.04	0.22	1.71	22.114
Week 8	24-06-2024	10:36:12	16.364	95.2	7.52	53566	8.05	129	0.05	0.22	1.72	22.078
Week 8	24-06-2024	10:36:13	16.364	95.2	7.52	53566	8.05	129	0.06	0.21	1.67	22.08
Week 8	24-06-2024	10:36:14	16.364	95.2	7.52	53565	8.05	129	0.05	0.21	1.69	22.135
Week 8	24-06-2024	10:36:15	16.364	95.2	7.52	53565	8.05	129	0.05	0.21	1.68	22.18
Week 8	24-06-2024	10:36:16	16.364	95.2	7.52	53565	8.05	129	0.04	0.21	1.68	22.232
Week 8	24-06-2024	10:36:17	16.364	95.1	7.52	53566	8.05	129	0.04	0.21	1.66	23.123
Week 8	24-06-2024	10:36:18	16.364	95.1	7.52	53566	8.05	129	0.04	0.21	1.66	23.16
Week 8	24-06-2024	10:36:19	16.364	95.1	7.52	53566	8.05	129	0.05	0.21	1.66	23.045
Week 8	24-06-2024	10:36:20	16.364	95.1	7.51	53566	8.05	129	0.04	0.21	1.68	23.076
Week 8	24-06-2024	10:36:21	16.364	95.1	7.51	53566	8.05	129	0.04	0.21	1.67	23.111
Week 8	24-06-2024	10:36:22	16.364	95.1	7.51	53566	8.05	129	0.04	0.19	1.6	23.187
Week 8	24-06-2024	10:36:23	16.364	95.1	7.51	53566	8.05	129	0.04	0.17	1.54	23.318
Week 8	24-06-2024	10:36:24	16.364	95.1	7.51	53566	8.05	129	0.04	0.16	1.49	23.397
Week 8	24-06-2024	10:36:25	16.364	95.1	7.51	53566	8.05	129	0.05	0.17	1.53	23.455
Week 8	24-06-2024	10:36:26	16.364	95	7.51	53566	8.05	129	0.06	0.17	1.52	23.527
Week 8	24-06-2024	10:36:27	16.364	95	7.51	53566	8.05	129	0.04	0.17	1.53	23.627
Week 8	24-06-2024	10:36:28	16.365	95	7.51	53566	8.05	129	0.04	0.16	1.51	23.7
Week 8	24-06-2024	10:36:29	16.365	95	7.51	53566	8.05	129	0.04	0.16	1.5	23.751
Week 8	24-06-2024	10:36:30	16.365	95	7.51	53566	8.05	129	0.05	0.16	1.51	23.793
Week 8	24-06-2024	10:36:31	16.365	95	7.51	53565	8.05	129	0.05	0.16	1.48	23.823
Week 8	24-06-2024	10:36:32	16.365	95	7.5	53565	8.05	129	0.04	0.15	1.46	23.869
Week 8	24-06-2024	10:36:33	16.365	95	7.5	53565	8.05	129	0.03	0.16	1.48	24.734
Week 8	24-06-2024	10:36:34	16.365	95	7.5	53565	8.05	129	0.04	0.17	1.53	24.956
Week 8	24-06-2024	10:36:35	16.366	94.9	7.5	53565	8.05	129	0.05	0.19	1.6	24.981
Week 8	24-06-2024	10:36:36	16.366	94.9	7.5	53565	8.05	129	0.05	0.18	1.57	24.944
Week 8	24-06-2024	10:36:37	16.366	94.9	7.5	53565	8.05	129	0.04	0.2	1.63	25.054
Week 8	24-06-2024	10:36:38	16.366	94.9	7.5	53565	8.05	129	0.05	0.19	1.59	25.112

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 8	24-06-2024	10:36:39	16.366	94.9	7.5	53565	8.05	129	0.05	0.19	1.62	25.196
Week 8	24-06-2024	10:36:40	16.366	94.9	7.5	53565	8.05	129	0.04	0.2	1.66	25.254
Week 8	24-06-2024	10:36:41	16.366	94.9	7.5	53565	8.05	129	0.04	0.19	1.61	25.278
Week 8	24-06-2024	10:36:42	16.366	94.9	7.5	53565	8.05	129	0.05	0.18	1.57	25.297
Week 8	24-06-2024	10:36:43	16.366	94.9	7.49	53565	8.05	129	0.05	0.17	1.52	25.306
Week 8	24-06-2024	10:36:44	16.367	94.8	7.49	53565	8.05	129	0.04	0.16	1.51	25.311
Week 8	24-06-2024	10:36:45	16.367	94.8	7.49	53565	8.05	129	0.03	0.14	1.42	25.333
Week 8	24-06-2024	10:36:46	16.367	94.8	7.49	53565	8.05	129	0.05	0.12	1.36	25.368
Week 8	24-06-2024	10:36:47	16.367	94.8	7.49	53566	8.05	129	0.07	0.13	1.38	25.415
Week 8	24-06-2024	10:36:48	16.367	94.8	7.49	53566	8.05	129	0.06	0.12	1.34	26.255
Week 8	24-06-2024	10:36:49	16.367	94.8	7.49	53566	8.05	129	0.06	0.12	1.34	26.409
Week 8	24-06-2024	10:36:50	16.367	94.8	7.49	53566	8.05	129	0.06	0.12	1.33	26.429
Week 8	24-06-2024	10:36:51	16.367	94.8	7.49	53566	8.05	129	0.06	0.12	1.34	26.407
Week 8	24-06-2024	10:36:52	16.367	94.8	7.49	53566	8.05	129	0.07	0.12	1.36	26.357
Week 8	24-06-2024	10:36:53	16.367	94.8	7.49	53566	8.05	129	0.08	0.12	1.34	26.307
Week 8	24-06-2024	10:36:54	16.367	94.8	7.49	53566	8.05	129	0.08	0.14	1.41	26.339
Week 8	24-06-2024	10:36:55	16.367	94.8	7.49	53566	8.05	129	0.07	0.14	1.41	26.438
Week 8	24-06-2024	10:36:56	16.367	94.8	7.49	53566	8.05	129	0.07	0.17	1.52	26.56
Week 8	24-06-2024	10:36:57	16.367	94.7	7.49	53567	8.05	129	0.08	0.19	1.61	26.661
Week 8	24-06-2024	10:36:58	16.367	94.7	7.49	53567	8.05	129	0.08	0.17	1.54	26.757
Week 8	24-06-2024	10:36:59	16.367	94.7	7.48	53567	8.05	129	0.1	0.18	1.56	26.83
Week 8	24-06-2024	10:37:00	16.367	94.7	7.48	53567	8.05	129	0.1	0.2	1.63	26.889
Week 8	24-06-2024	10:37:01	16.367	94.7	7.48	53567	8.05	129	0.11	0.2	1.63	26.945
Week 8	24-06-2024	10:37:02	16.367	94.7	7.48	53567	8.05	129	0.1	0.19	1.6	26.997
Week 8	24-06-2024	10:37:03	16.367	94.7	7.48	53568	8.05	129	0.11	0.18	1.57	27.035
Week 8	24-06-2024	10:37:04	16.368	94.7	7.48	53568	8.05	129	0.11	0.19	1.6	27.068
Week 8	24-06-2024	10:37:05	16.368	94.7	7.48	53568	8.05	129	0.12	0.19	1.59	28.044
Week 8	24-06-2024	10:37:06	16.368	94.7	7.48	53568	8.05	129	0.13	0.19	1.62	28.18
Week 8	24-06-2024	10:37:07	16.368	94.7	7.48	53568	8.05	129	0.14	0.17	1.54	28.219
Week 8	24-06-2024	10:37:08	16.368	94.6	7.48	53568	8.05	129	0.15	0.16	1.49	28.238
Week 8	24-06-2024	10:37:09	16.368	94.6	7.48	53568	8.05	129	0.15	0.16	1.51	28.156
Week 8	24-06-2024	10:37:10	16.368	94.6	7.48	53568	8.05	129	0.15	0.15	1.46	28.004
Week 8	24-06-2024	10:37:11	16.368	94.6	7.48	53569	8.05	129	0.14	0.14	1.41	27.947
Week 8	24-06-2024	10:37:12	16.368	94.6	7.48	53569	8.05	129	0.13	0.13	1.38	28.004
Week 8	24-06-2024	10:37:13	16.368	94.6	7.48	53569	8.05	129	0.13	0.12	1.35	28.081
Week 8	24-06-2024	10:37:14	16.368	94.6	7.48	53569	8.05	129	0.23	0.14	1.43	28.143
Week 8	24-06-2024	10:37:15	16.368	94.6	7.47	53569	8.05	129	0.31	0.18	1.58	28.199
Week 8	24-06-2024	10:37:16	16.368	94.6	7.47	53569	8.05	129	0.76	0.22	1.7	28.236
Week 8	24-06-2024	10:37:17	16.368	94.6	7.47	53569	8.05	129	0.96	0.22	1.72	28.265
Week 8	24-06-2024	10:37:18	16.368	94.6	7.47	53569	8.05	129	1	0.25	1.82	28.29
Week 8	24-06-2024	10:37:19	16.368	94.6	7.47	53569	8.05	129	1.23	0.26	1.86	28.318
Week 8	24-06-2024	10:37:20	16.369	94.6	7.47	53569	8.05	129	1.27	0.26	1.87	28.337
Week 8	24-06-2024	10:37:21	16.369	94.6	7.47	53569	8.05	129	1.27	0.28	1.94	28.339
Week 8	24-06-2024	10:37:22	16.369	94.6	7.47	53569	8.05	129.1	1.3	0.29	1.98	28.33
Week 8	24-06-2024	10:37:23	16.369	94.6	7.47	53569	8.05	129.1	1.35	0.29	1.96	28.314
Week 8	24-06-2024	10:37:24	16.369	94.6	7.47	53568	8.05	129.1	1.41	0.27	1.89	28.3
Week 8	24-06-2024	10:37:25	16.369	94.6	7.47	53568	8.05	129.1	1.43	0.23	1.77	28.287
Week 8	24-06-2024	10:37:26	16.369	94.6	7.47	53568	8.05	129.1	1.45	0.18	1.56	28.264
Week 8	24-06-2024	10:37:27	16.369	94.6	7.47	53568	8.05	129.1	1.45	0.16	1.48	27.392
Week 8	24-06-2024	10:37:28	16.369	94.6	7.47	53569	8.05	129.1	1.43	0.14	1.44	26.933
Week 8	24-06-2024	10:37:29	16.368	94.6	7.47	53569	8.05	129.1	1.28	0.13	1.39	26.855
Week 8	24-06-2024	10:37:30	16.368	94.6	7.47	53569	8.05	129.1	0.88	0.13	1.39	27.254
Week 8	24-06-2024	10:37:31	16.368	94.6	7.47	53568	8.05	129.1	0.61	0.13	1.37	27.203
Week 8	24-06-2024	10:37:32	16.368	94.6	7.47	53568	8.05	129.1	0.49	0.13	1.38	27.127
Week 8	24-06-2024	10:37:33	16.368	94.6	7.47	53568	8.05	129.1	0.34	0.13	1.4	27.012
Week 8	24-06-2024	10:37:34	16.368	94.6	7.47	53567	8.05	129.1	0.24	0.15	1.47	26.845
Week 8	24-06-2024	10:37:35	16.368	94.6	7.47	53567	8.05	129.1	0.2	0.17	1.52	26.705
Week 8	24-06-2024	10:37:36	16.367	94.6	7.47	53567	8.05	129.1	0.2	0.18	1.57	25.98
Week 8	24-06-2024	10:37:37	16.367	94.6	7.47	53567	8.05	129.1	0.13	0.18	1.58	25.841
Week 8	24-06-2024	10:37:38	16.367	94.6	7.48	53567	8.05	129.1	0.09	0.17	1.55	25.691
Week 8	24-06-2024	10:37:39	16.367	94.6	7.48	53567	8.05	129.1	0.09	0.19	1.61	25.677
Week 8	24-06-2024	10:37:40	16.367	94.6	7.48	53567	8.05	129.1	0.06	0.17	1.54	25.532
Week 8	24-06-2024	10:37:41	16.367	94.6	7.48	53567	8.05	129.1	0.05	0.16	1.51	25.379
Week 8	24-06-2024	10:37:42	16.367	94.6	7.48	53567	8.05	129.1	0.06	0.17	1.52	25.336
Week 8	24-06-2024	10:37:43	16.367	94.6	7.48	53566	8.05	129.1	0.06	0.16	1.5	25.307
Week 8	24-06-2024	10:37:44	16.367	94.6	7.48	53566	8.05	129.1	0.05	0.15	1.47	25.263
Week 8	24-06-2024	10:37:45	16.366	94.6	7.48	53566	8.05	129.1	0.04	0.14	1.42	25.208

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 8	24-06-2024	10:37:46	16.366	94.6	7.48	53566	8.05	129.1	0.04	0.13	1.39	25.157
Week 8	24-06-2024	10:37:47	16.366	94.7	7.48	53565	8.05	129.1	0.05	0.13	1.37	25.085
Week 8	24-06-2024	10:37:48	16.366	94.7	7.48	53565	8.05	129.1	0.06	0.13	1.39	24.303
Week 8	24-06-2024	10:37:49	16.366	94.7	7.48	53565	8.05	129.1	0.06	0.13	1.38	24.209
Week 8	24-06-2024	10:37:50	16.366	94.7	7.48	53565	8.05	129.1	0.06	0.13	1.38	24.172
Week 8	24-06-2024	10:37:51	16.366	94.7	7.48	53565	8.05	129.1	0.07	0.14	1.42	24.161
Week 8	24-06-2024	10:37:52	16.365	94.7	7.48	53565	8.05	129.1	0.07	0.14	1.42	24.101
Week 8	24-06-2024	10:37:53	16.365	94.7	7.48	53564	8.05	129.1	0.07	0.13	1.4	24.019
Week 8	24-06-2024	10:37:54	16.365	94.7	7.48	53564	8.05	129.1	0.06	0.15	1.46	23.932
Week 8	24-06-2024	10:37:55	16.365	94.7	7.48	53564	8.05	129.1	0.06	0.15	1.46	23.85
Week 8	24-06-2024	10:37:56	16.365	94.7	7.48	53564	8.05	129.1	0.06	0.16	1.5	23.794
Week 8	24-06-2024	10:37:57	16.365	94.7	7.48	53564	8.05	129.1	0.06	0.18	1.58	23.747
Week 8	24-06-2024	10:37:58	16.365	94.7	7.48	53565	8.05	129.1	0.06	0.19	1.61	23.675
Week 8	24-06-2024	10:37:59	16.365	94.7	7.49	53565	8.05	129.1	0.06	0.2	1.64	23.644
Week 8	24-06-2024	10:38:00	16.365	94.7	7.49	53565	8.05	129.1	0.07	0.2	1.65	23.625
Week 8	24-06-2024	10:38:01	16.365	94.7	7.49	53565	8.05	129.1	0.06	0.2	1.63	23.6
Week 8	24-06-2024	10:38:02	16.365	94.8	7.49	53565	8.05	129.2	0.06	0.2	1.66	23.553
Week 8	24-06-2024	10:38:03	16.365	94.8	7.49	53565	8.05	129.2	0.05	0.2	1.64	22.817
Week 8	24-06-2024	10:38:04	16.365	94.8	7.49	53564	8.05	129.2	0.06	0.19	1.61	22.701
Week 8	24-06-2024	10:38:05	16.365	94.8	7.49	53564	8.05	129.2	0.05	0.18	1.55	22.66
Week 8	24-06-2024	10:38:06	16.365	94.8	7.49	53563	8.05	129.2	0.06	0.17	1.54	22.698
Week 8	24-06-2024	10:38:07	16.365	94.8	7.49	53563	8.05	129.2	0.05	0.17	1.54	22.804
Week 8	24-06-2024	10:38:08	16.365	94.8	7.49	53562	8.05	129.2	0.04	0.17	1.52	22.786
Week 8	24-06-2024	10:38:09	16.365	94.8	7.49	53561	8.05	129.2	0.05	0.16	1.49	22.709
Week 8	24-06-2024	10:38:10	16.365	94.8	7.49	53560	8.05	129.2	0.05	0.15	1.47	22.615
Week 8	24-06-2024	10:38:11	16.365	94.8	7.49	53560	8.05	129.2	0.04	0.15	1.46	22.586
Week 8	24-06-2024	10:38:12	16.364	94.8	7.49	53559	8.05	129.2	0.05	0.15	1.47	22.565
Week 8	24-06-2024	10:38:13	16.364	94.8	7.49	53559	8.05	129.2	0.05	0.15	1.45	22.512
Week 8	24-06-2024	10:38:14	16.364	94.8	7.49	53558	8.05	129.2	0.04	0.15	1.47	21.433
Week 8	24-06-2024	10:38:15	16.364	94.8	7.49	53558	8.05	129.2	0.04	0.15	1.46	21.396
Week 8	24-06-2024	10:38:16	16.364	94.8	7.49	53558	8.05	129.2	0.03	0.15	1.47	21.438
Week 8	24-06-2024	10:38:17	16.364	94.8	7.49	53557	8.05	129.2	0.04	0.16	1.51	21.465
Week 8	24-06-2024	10:38:18	16.363	94.9	7.5	53558	8.05	129.2	0.04	0.16	1.49	21.515
Week 8	24-06-2024	10:38:19	16.363	94.9	7.5	53558	8.05	129.2	0.03	0.14	1.44	21.479
Week 8	24-06-2024	10:38:20	16.363	94.9	7.5	53558	8.05	129.2	0.03	0.15	1.44	21.376
Week 8	24-06-2024	10:38:21	16.363	94.9	7.5	53558	8.05	129.2	0.03	0.14	1.41	21.297
Week 8	24-06-2024	10:38:22	16.363	94.9	7.5	53558	8.05	129.2	0.03	0.15	1.45	21.233
Week 8	24-06-2024	10:38:23	16.363	94.9	7.5	53558	8.05	129.2	0.03	0.15	1.44	21.175
Week 8	24-06-2024	10:38:24	16.363	94.9	7.5	53558	8.05	129.2	0.03	0.14	1.44	21.151
Week 8	24-06-2024	10:38:25	16.363	94.9	7.5	53558	8.05	129.3	0.03	0.14	1.42	21.122
Week 8	24-06-2024	10:38:26	16.363	94.9	7.5	53558	8.05	129.3	0.04	0.14	1.42	21.071
Week 8	24-06-2024	10:38:27	16.363	94.9	7.5	53558	8.05	129.3	0.04	0.15	1.44	21.017
Week 8	24-06-2024	10:38:28	16.363	94.9	7.5	53558	8.05	129.3	0.04	0.14	1.41	19.834
Week 8	24-06-2024	10:38:29	16.363	94.9	7.5	53558	8.05	129.3	0.04	0.14	1.41	19.658
Week 8	24-06-2024	10:38:30	16.362	94.9	7.5	53557	8.05	129.3	0.04	0.14	1.43	19.812
Week 8	24-06-2024	10:38:31	16.362	94.9	7.5	53557	8.05	129.3	0.04	0.14	1.42	19.819
Week 8	24-06-2024	10:38:32	16.362	94.9	7.5	53557	8.05	129.3	0.03	0.14	1.41	19.825
Week 8	24-06-2024	10:38:33	16.362	94.9	7.5	53557	8.05	129.3	0.03	0.12	1.36	19.743
Week 8	24-06-2024	10:38:34	16.362	94.9	7.5	53557	8.05	129.3	0.02	0.13	1.38	19.599
Week 8	24-06-2024	10:38:35	16.362	94.9	7.5	53557	8.05	129.3	0.03	0.13	1.39	18.834
Week 8	24-06-2024	10:38:36	16.362	95	7.5	53557	8.05	129.3	0.03	0.13	1.4	18.902
Week 8	24-06-2024	10:38:37	16.361	95	7.5	53557	8.05	129.3	0.03	0.16	1.49	18.652
Week 8	24-06-2024	10:38:38	16.361	95	7.51	53557	8.05	129.3	0.03	0.15	1.45	18.588
Week 8	24-06-2024	10:38:39	16.361	95	7.51	53557	8.05	129.3	0.04	0.14	1.43	18.471
Week 8	24-06-2024	10:38:40	16.361	95	7.51	53557	8.05	129.3	0.04	0.14	1.44	18.448
Week 8	24-06-2024	10:38:41	16.36	95	7.51	53558	8.05	129.3	0.03	0.15	1.45	18.422
Week 8	24-06-2024	10:38:42	16.36	95	7.51	53558	8.05	129.3	0.02	0.15	1.47	18.369
Week 8	24-06-2024	10:38:43	16.36	95	7.51	53558	8.05	129.3	0.03	0.16	1.51	18.317
Week 8	24-06-2024	10:38:44	16.36	95	7.51	53559	8.05	129.3	0.03	0.17	1.52	18.265
Week 8	24-06-2024	10:38:45	16.36	95	7.51	53559	8.05	129.3	0.05	0.15	1.47	17.475
Week 8	24-06-2024	10:38:46	16.36	95.1	7.51	53559	8.05	129.3	0.05	0.16	1.49	17.514
Week 8	24-06-2024	10:38:47	16.36	95.1	7.51	53559	8.05	129.3	0.04	0.15	1.47	17.693
Week 8	24-06-2024	10:38:48	16.36	95.1	7.51	53559	8.05	129.4	0.05	0.13	1.4	17.591
Week 8	24-06-2024	10:38:49	16.36	95.1	7.51	53559	8.05	129.4	0.06	0.14	1.42	17.466
Week 8	24-06-2024	10:38:50	16.36	95.1	7.51	53559	8.05	129.4	0.06	0.14	1.43	17.22
Week 8	24-06-2024	10:38:51	16.359	95.1	7.52	53559	8.05	129.4	0.05	0.14	1.42	17.089
Week 8	24-06-2024	10:38:52	16.359	95.1	7.52	53559	8.05	129.4	0.05	0.14	1.41	16.995

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 8	24-06-2024	10:38:53	16.359	95.1	7.52	53559	8.05	129.4	0.04	0.14	1.42	16.909
Week 8	24-06-2024	10:38:54	16.359	95.1	7.52	53559	8.05	129.4	0.04	0.14	1.41	16.871
Week 8	24-06-2024	10:38:55	16.359	95.1	7.52	53559	8.05	129.4	0.03	0.14	1.41	16.851
Week 8	24-06-2024	10:38:56	16.358	95.2	7.52	53559	8.05	129.4	0.03	0.14	1.41	16.806
Week 8	24-06-2024	10:38:57	16.358	95.2	7.52	53559	8.05	129.4	0.02	0.14	1.43	16.078
Week 8	24-06-2024	10:38:58	16.358	95.2	7.52	53559	8.05	129.4	0.02	0.14	1.42	15.781
Week 8	24-06-2024	10:38:59	16.358	95.2	7.52	53559	8.05	129.4	0.02	0.14	1.42	15.714
Week 8	24-06-2024	10:39:00	16.357	95.2	7.52	53559	8.05	129.4	0	0.14	1.43	15.771
Week 8	24-06-2024	10:39:01	16.357	95.2	7.53	53559	8.05	129.4	0	0.14	1.44	15.663
Week 8	24-06-2024	10:39:02	16.357	95.2	7.53	53559	8.05	129.4	0.01	0.16	1.48	15.586
Week 8	24-06-2024	10:39:03	16.356	95.2	7.53	53558	8.05	129.4	0	0.16	1.5	15.512
Week 8	24-06-2024	10:39:04	16.356	95.3	7.53	53558	8.05	129.4	0	0.16	1.5	15.433
Week 8	24-06-2024	10:39:05	16.356	95.3	7.53	53558	8.05	129.4	0	0.15	1.48	15.363
Week 8	24-06-2024	10:39:06	16.356	95.3	7.53	53558	8.05	129.4	0.01	0.15	1.47	15.303
Week 8	24-06-2024	10:39:07	16.355	95.3	7.53	53558	8.05	129.4	0.01	0.15	1.47	14.42
Week 8	24-06-2024	10:39:08	16.355	95.3	7.53	53557	8.05	129.4	0.01	0.15	1.46	14.129
Week 8	24-06-2024	10:39:09	16.355	95.3	7.53	53557	8.05	129.4	0.01	0.16	1.51	14.047
Week 8	24-06-2024	10:39:10	16.354	95.3	7.53	53556	8.05	129.4	0.01	0.16	1.51	14.131
Week 8	24-06-2024	10:39:11	16.354	95.4	7.54	53555	8.06	129.4	0	0.17	1.52	14.23
Week 8	24-06-2024	10:39:12	16.353	95.4	7.54	53554	8.06	129.4	0	0.18	1.57	14.365
Week 8	24-06-2024	10:39:13	16.353	95.4	7.54	53554	8.06	129.4	0	0.17	1.54	14.318
Week 8	24-06-2024	10:39:14	16.352	95.4	7.54	53553	8.06	129.4	0	0.18	1.55	14.164
Week 8	24-06-2024	10:39:15	16.351	95.4	7.54	53552	8.06	129.5	0	0.18	1.57	13.137
Week 8	24-06-2024	10:39:16	16.35	95.4	7.54	53550	8.06	129.5	0	0.19	1.6	13.292
Week 8	24-06-2024	10:39:17	16.348	95.5	7.55	53548	8.06	129.5	-0.01	0.19	1.6	13.386
Week 8	24-06-2024	10:39:18	16.345	95.5	7.55	53546	8.06	129.5	-0.02	0.18	1.55	13.373
Week 8	24-06-2024	10:39:19	16.343	95.5	7.55	53543	8.06	129.5	-0.02	0.18	1.56	13.303
Week 8	24-06-2024	10:39:20	16.341	95.5	7.55	53542	8.06	129.5	-0.02	0.16	1.49	13.167
Week 8	24-06-2024	10:39:21	16.339	95.6	7.56	53539	8.06	129.5	-0.03	0.16	1.48	13.024
Week 8	24-06-2024	10:39:22	16.336	95.6	7.56	53537	8.06	129.5	-0.03	0.15	1.46	12.936
Week 8	24-06-2024	10:39:23	16.334	95.6	7.56	53535	8.06	129.5	-0.03	0.13	1.4	12.864
Week 8	24-06-2024	10:39:24	16.331	95.7	7.56	53533	8.06	129.5	-0.03	0.14	1.42	12.04
Week 8	24-06-2024	10:39:25	16.327	95.7	7.57	53530	8.06	129.5	-0.02	0.13	1.4	12.218
Week 8	24-06-2024	10:39:26	16.323	95.7	7.57	53527	8.06	129.5	-0.02	0.14	1.41	12.229
Week 8	24-06-2024	10:39:27	16.319	95.8	7.57	53525	8.06	129.5	-0.02	0.14	1.41	12.237
Week 8	24-06-2024	10:39:28	16.315	95.8	7.58	53522	8.06	129.5	-0.02	0.14	1.43	11.984
Week 8	24-06-2024	10:39:29	16.311	95.8	7.58	53520	8.06	129.5	-0.01	0.16	1.48	11.703
Week 8	24-06-2024	10:39:30	16.307	95.9	7.58	53517	8.06	129.5	-0.01	0.16	1.48	11.481
Week 8	24-06-2024	10:39:31	16.303	95.9	7.59	53514	8.06	129.5	0	0.17	1.52	11.352
Week 8	24-06-2024	10:39:32	16.296	95.9	7.59	53511	8.06	129.5	0	0.17	1.54	11.275
Week 8	24-06-2024	10:39:33	16.29	96	7.59	53507	8.06	129.5	0.01	0.16	1.51	11.208
Week 8	24-06-2024	10:39:34	16.283	96	7.6	53504	8.06	129.5	0	0.17	1.54	10.09
Week 8	24-06-2024	10:39:35	16.275	96	7.6	53500	8.06	129.5	0	0.16	1.49	9.89
Week 8	24-06-2024	10:39:36	16.265	96	7.6	53495	8.06	129.5	0.01	0.16	1.5	9.795
Week 8	24-06-2024	10:39:37	16.254	96	7.61	53489	8.06	129.5	0	0.16	1.49	9.858
Week 8	24-06-2024	10:39:38	16.242	96.1	7.61	53484	8.06	129.5	0.01	0.17	1.52	9.866
Week 8	24-06-2024	10:39:39	16.23	96.1	7.61	53477	8.06	129.5	0	0.18	1.56	9.863
Week 8	24-06-2024	10:39:40	16.218	96.1	7.61	53470	8.06	129.5	0.01	0.17	1.54	9.801
Week 8	24-06-2024	10:39:41	16.205	96.1	7.62	53462	8.06	129.5	0.01	0.18	1.57	8.82
Week 8	24-06-2024	10:39:42	16.19	96.1	7.62	53454	8.06	129.5	0	0.17	1.53	8.923
Week 8	24-06-2024	10:39:43	16.176	96.1	7.63	53446	8.06	129.5	0	0.16	1.48	8.825
Week 8	24-06-2024	10:39:44	16.162	96.2	7.63	53440	8.07	129.5	-0.01	0.17	1.52	8.774
Week 8	24-06-2024	10:39:45	16.149	96.2	7.64	53432	8.07	129.5	-0.01	0.17	1.54	8.732
Week 8	24-06-2024	10:39:46	16.135	96.2	7.64	53425	8.07	129.5	0	0.17	1.54	8.603
Week 8	24-06-2024	10:39:47	16.121	96.3	7.64	53419	8.07	129.5	0	0.17	1.54	8.427
Week 8	24-06-2024	10:39:48	16.111	96.3	7.65	53413	8.07	129.5	0.01	0.17	1.54	7.829
Week 8	24-06-2024	10:39:49	16.099	96.3	7.65	53408	8.07	129.5	0.01	0.16	1.51	7.744
Week 8	24-06-2024	10:39:50	16.091	96.4	7.66	53403	8.07	129.5	0.02	0.15	1.47	7.929
Week 8	24-06-2024	10:39:51	16.082	96.4	7.67	53398	8.07	129.5	0.03	0.15	1.47	7.947
Week 8	24-06-2024	10:39:52	16.074	96.5	7.67	53394	8.07	129.5	0.04	0.16	1.5	7.734
Week 8	24-06-2024	10:39:53	16.066	96.5	7.68	53392	8.07	129.5	0.03	0.17	1.55	7.479
Week 8	24-06-2024	10:39:54	16.061	96.6	7.68	53391	8.07	129.5	0.03	0.19	1.59	7.238
Week 8	24-06-2024	10:39:55	16.056	96.6	7.69	53389	8.07	129.5	0.03	0.19	1.61	7.113
Week 8	24-06-2024	10:39:56	16.053	96.7	7.69	53388	8.07	129.5	0.03	0.18	1.56	7.004
Week 8	24-06-2024	10:39:57	16.049	96.7	7.7	53387	8.07	129.5	0.03	0.19	1.59	6.915
Week 8	24-06-2024	10:39:58	16.045	96.8	7.7	53388	8.07	129.5	0.05	0.18	1.55	6.841
Week 8	24-06-2024	10:39:59	16.042	96.8	7.71	53387	8.07	129.5	0.05	0.2	1.63	5.897

APPLICATION AREA 2: 8 WEEK EXO2 SONDE DATA (log interval approx. 1m/sec).

Week	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 8	24-06-2024	10:40:00	16.039	96.9	7.71	53385	8.07	129.5	0.04	0.19	1.61	5.595
Week 8	24-06-2024	10:40:01	16.036	96.9	7.71	53384	8.07	129.5	0.05	0.18	1.58	5.419
Week 8	24-06-2024	10:40:02	16.034	97	7.72	53383	8.07	129.5	0.05	0.18	1.58	5.505
Week 8	24-06-2024	10:40:03	16.031	97	7.72	53382	8.07	129.5	0.04	0.18	1.56	5.544
Week 8	24-06-2024	10:40:04	16.029	97.1	7.72	53381	8.07	129.5	0.04	0.18	1.56	5.516
Week 8	24-06-2024	10:40:05	16.026	97.1	7.73	53380	8.07	129.5	0.04	0.17	1.53	5.462
Week 8	24-06-2024	10:40:06	16.024	97.1	7.73	53379	8.07	129.5	0.04	0.17	1.53	5.373
Week 8	24-06-2024	10:40:07	16.022	97.2	7.73	53378	8.07	129.5	0.04	0.19	1.61	5.262
Week 8	24-06-2024	10:40:08	16.02	97.2	7.74	53377	8.07	129.5	0.04	0.19	1.6	5.178
Week 8	24-06-2024	10:40:09	16.018	97.2	7.74	53376	8.07	129.5	0.04	0.19	1.61	5.095
Week 8	24-06-2024	10:40:10	16.016	97.3	7.74	53374	8.07	129.5	0.04	0.17	1.55	5.026
Week 8	24-06-2024	10:40:11	16.014	97.3	7.75	53372	8.07	129.6	0.04	0.17	1.53	4.948
Week 8	24-06-2024	10:40:12	16.012	97.3	7.75	53371	8.07	129.6	0.04	0.19	1.61	4.891
Week 8	24-06-2024	10:40:13	16.011	97.3	7.75	53370	8.07	129.6	0.04	0.2	1.63	4
Week 8	24-06-2024	10:40:14	16.01	97.4	7.75	53369	8.07	129.6	0.05	0.2	1.64	3.731
Week 8	24-06-2024	10:40:15	16.01	97.4	7.76	53368	8.07	129.6	0.04	0.2	1.63	3.704
Week 8	24-06-2024	10:40:16	16.009	97.4	7.76	53368	8.07	129.6	0.04	0.21	1.67	3.606
Week 8	24-06-2024	10:40:17	16.009	97.5	7.76	53367	8.07	129.6	0.03	0.21	1.66	3.559
Week 8	24-06-2024	10:40:18	16.008	97.5	7.76	53366	8.07	129.6	0.04	0.21	1.66	3.52
Week 8	24-06-2024	10:40:19	16.007	97.5	7.77	53366	8.07	129.6	0.04	0.2	1.63	3.54
Week 8	24-06-2024	10:40:20	16.007	97.5	7.77	53365	8.07	129.6	0.04	0.21	1.67	3.547
Week 8	24-06-2024	10:40:21	16.006	97.6	7.77	53364	8.07	129.6	0.03	0.2	1.65	3.524
Week 8	24-06-2024	10:40:22	16.006	97.6	7.77	53364	8.07	129.6	0.03	0.21	1.68	3.48
Week 8	24-06-2024	10:40:23	16.006	97.6	7.77	53363	8.07	129.6	0.03	0.22	1.7	3.408
Week 8	24-06-2024	10:40:24	16.005	97.6	7.77	53363	8.08	129.6	0.03	0.23	1.74	2.485
Week 8	24-06-2024	10:40:25	16.004	97.6	7.78	53362	8.08	129.6	0.03	0.22	1.7	2.434
Week 8	24-06-2024	10:40:26	16.003	97.7	7.78	53362	8.08	129.6	0.02	0.21	1.68	2.404
Week 8	24-06-2024	10:40:27	16.003	97.7	7.78	53362	8.08	129.6	0.03	0.22	1.71	2.413
Week 8	24-06-2024	10:40:28	16.003	97.7	7.78	53362	8.08	129.6	0.02	0.23	1.74	2.403
Week 8	24-06-2024	10:40:29	16.002	97.7	7.78	53361	8.08	129.6	0.01	0.23	1.74	2.306
Week 8	24-06-2024	10:40:30	16.002	97.7	7.78	53361	8.08	129.6	0.01	0.24	1.77	2.225
Week 8	24-06-2024	10:40:31	16.002	97.8	7.79	53361	8.08	129.6	0.01	0.22	1.7	2.144
Week 8	24-06-2024	10:40:32	16.001	97.8	7.79	53360	8.08	129.6	0.01	0.23	1.76	2.07
Week 8	24-06-2024	10:40:33	16.001	97.8	7.79	53361	8.08	129.6	0.02	0.24	1.78	2.007
Week 8	24-06-2024	10:40:34	16.001	97.8	7.79	53362	8.08	129.6	0.01	0.23	1.75	1.95
Week 8	24-06-2024	10:40:35	16.001	97.8	7.79	53363	8.08	129.6	0.01	0.22	1.71	1.9
Week 8	24-06-2024	10:40:36	16.001	97.8	7.79	53364	8.08	129.6	0.02	0.23	1.74	1.849
Week 8	24-06-2024	10:40:37	16.001	97.9	7.79	53364	8.08	129.6	0.02	0.23	1.75	1.788
Week 8	24-06-2024	10:40:38	16.001	97.9	7.8	53365	8.08	129.6	0.02	0.22	1.71	1.744
Week 8	24-06-2024	10:40:39	16.001	97.9	7.8	53366	8.08	129.6	0.01	0.22	1.72	1.703
Week 8	24-06-2024	10:40:40	16.001	97.9	7.8	53365	8.08	129.6	0.01	0.22	1.71	1.656
Week 8	24-06-2024	10:40:41	16.002	97.9	7.8	53366	8.08	129.6	0.01	0.21	1.69	0.967
Week 8	24-06-2024	10:40:42	16.002	97.9	7.8	53366	8.08	129.6	0.01	0.23	1.75	0.89
Week 8	24-06-2024	10:40:43	16.002	97.9	7.8	53366	8.08	129.7	0.02	0.23	1.76	0.786
Week 8	24-06-2024	10:40:44	16.003	97.9	7.8	53366	8.08	129.7	0.02	0.23	1.76	0.768
Week 8	24-06-2024	10:40:45	16.003	98	7.8	53366	8.08	129.7	0.02	0.22	1.72	0.726
Week 8	24-06-2024	10:40:46	16.003	98	7.8	53366	8.08	129.7	0.02	0.23	1.74	0.665
Week 8	24-06-2024	10:40:47	16.003	98	7.8	53365	8.08	129.7	0.02	0.22	1.7	0.594
Week 8	24-06-2024	10:40:48	16.003	98	7.8	53364	8.08	129.7	0.01	0.22	1.7	0.526
Week 8	24-06-2024	10:40:49	16.003	98	7.8	53362	8.08	129.7	0.02	0.22	1.71	0.464
Week 8	24-06-2024	10:40:50	16.002	98	7.8	53362	8.08	129.7	0.03	0.21	1.66	0.402

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week1	Date	Time	°C	DO %	DO mg/L	SPC-uS/cm	pH	ORP mV	TURB FNU	Chl RFU	Chl ug/L	DEP m
Week 1	06-05-2024	11:34:14	18.354	107.7	10.12	46256	7.87	215.8	2.27	0.35	2.19	0.162
Week 1	06-05-2024	11:34:15	18.355	107.7	8.46	46300	7.9	214.6	2.07	0.33	2.11	0.175
Week 1	06-05-2024	11:34:16	18.358	107.7	8.45	46290	7.92	214.3	1.88	0.3	1.99	0.19
Week 1	06-05-2024	11:34:17	18.359	107.6	8.45	46301	7.93	213.9	1.69	0.27	1.88	0.203
Week 1	06-05-2024	11:34:18	18.359	107.6	8.44	46307	7.94	213.4	1.49	0.26	1.84	0.219
Week 1	06-05-2024	11:34:19	18.36	107.5	8.44	46311	7.95	213	1.3	0.24	1.8	0.233
Week 1	06-05-2024	11:34:20	18.361	107.5	8.44	46316	7.95	212.6	1.09	0.22	1.71	0.246
Week 1	06-05-2024	11:34:21	18.363	107.4	8.43	46320	7.96	212.4	0.9	0.2	1.65	0.258
Week 1	06-05-2024	11:34:22	18.364	107.4	8.43	46324	7.96	212.1	0.71	0.17	1.54	0.272
Week 1	06-05-2024	11:34:23	18.366	107.3	8.43	46326	7.97	211.9	0.54	0.19	1.6	0.288
Week 1	06-05-2024	11:34:24	18.367	107.3	8.42	46328	7.97	211.6	0.36	0.2	1.63	0.3
Week 1	06-05-2024	11:34:25	18.368	107.3	8.42	46329	7.98	211.4	0.16	0.18	1.57	0.313
Week 1	06-05-2024	11:34:26	18.369	107.2	8.42	46330	7.98	211.2	0	0.17	1.52	0.325
Week 1	06-05-2024	11:34:27	18.369	107.2	8.41	46331	7.98	211.1	0	0.17	1.55	0.339
Week 1	06-05-2024	11:34:28	18.37	107.2	8.41	46332	7.98	210.9	0	0.17	1.53	0.351
Week 1	06-05-2024	11:34:29	18.371	107.1	8.4	46333	7.99	210.7	0	0.16	1.49	0.366
Week 1	06-05-2024	11:34:30	18.373	107	8.4	46334	7.99	210.5	0	0.16	1.49	0.377
Week 1	06-05-2024	11:34:31	18.375	106.9	8.39	46337	7.99	210.4	0	0.16	1.48	0.392
Week 1	06-05-2024	11:34:32	18.376	106.9	8.39	46339	7.99	210.2	0	0.16	1.49	0.403
Week 1	06-05-2024	11:34:33	18.377	106.8	8.38	46341	8	210.1	0	0.16	1.5	0.417
Week 1	06-05-2024	11:34:34	18.378	106.7	8.38	46342	8	209.9	0	0.15	1.47	0.428
Week 1	06-05-2024	11:34:35	18.379	106.7	8.37	46343	8	209.8	0	0.14	1.42	0.444
Week 1	06-05-2024	11:34:36	18.38	106.6	8.37	46344	8.01	209.7	0	0.15	1.45	0.456
Week 1	06-05-2024	11:34:37	18.38	106.6	8.36	46344	8.01	209.6	0	0.15	1.46	0.468
Week 1	06-05-2024	11:34:38	18.381	106.5	8.36	46345	8.02	209.4	0	0.14	1.41	0.481
Week 1	06-05-2024	11:34:39	18.381	106.5	8.35	46346	8.02	209.1	0	0.13	1.39	0.497
Week 1	06-05-2024	11:34:40	18.381	106.4	8.35	46347	8.02	208.9	0	0.14	1.41	0.512
Week 1	06-05-2024	11:34:41	18.381	106.4	8.35	46348	8.02	208.6	0	0.13	1.39	0.527
Week 1	06-05-2024	11:34:42	18.381	106.4	8.34	46348	8.03	208.4	0	0.14	1.41	0.545
Week 1	06-05-2024	11:34:43	18.381	106.3	8.34	46349	8.03	208.1	0	0.13	1.37	0.567
Week 1	06-05-2024	11:34:44	18.381	106.3	8.34	46351	8.03	207.9	0	0.12	1.37	0.596
Week 1	06-05-2024	11:34:45	18.38	106.3	8.34	46351	8.03	207.7	0	0.12	1.34	0.622
Week 1	06-05-2024	11:34:46	18.38	106.2	8.33	46351	8.03	207.5	0	0.12	1.34	0.648
Week 1	06-05-2024	11:34:47	18.379	106.2	8.33	46352	8.03	207.4	0	0.11	1.31	1.421
Week 1	06-05-2024	11:34:48	18.379	106.2	8.33	46354	8.04	207.2	0	0.11	1.32	1.456
Week 1	06-05-2024	11:34:49	18.378	106.1	8.33	46355	8.04	207	0	0.11	1.32	1.578
Week 1	06-05-2024	11:34:50	18.378	106.1	8.33	46355	8.04	206.8	0	0.14	1.41	1.697
Week 1	06-05-2024	11:34:51	18.377	106.1	8.32	46356	8.04	206.7	0	0.14	1.43	1.677
Week 1	06-05-2024	11:34:52	18.377	106.1	8.32	46358	8.04	206.5	0	0.15	1.46	1.672
Week 1	06-05-2024	11:34:53	18.376	106	8.32	46359	8.04	206.4	0	0.16	1.49	1.746
Week 1	06-05-2024	11:34:54	18.376	106	8.32	46359	8.04	206.2	0	0.16	1.5	1.796
Week 1	06-05-2024	11:34:55	18.376	106	8.32	46360	8.04	206.1	0	0.18	1.56	1.87
Week 1	06-05-2024	11:34:56	18.376	106	8.32	46360	8.04	205.9	0	0.18	1.57	1.943
Week 1	06-05-2024	11:34:57	18.376	106	8.31	46361	8.05	205.7	0	0.19	1.61	2.022
Week 1	06-05-2024	11:34:58	18.376	105.9	8.31	46362	8.05	205.5	0	0.19	1.6	2.089
Week 1	06-05-2024	11:34:59	18.376	105.9	8.31	46362	8.05	205.3	0	0.18	1.58	2.144
Week 1	06-05-2024	11:35:00	18.376	105.9	8.31	46363	8.05	205	0	0.19	1.61	2.196
Week 1	06-05-2024	11:35:01	18.376	105.9	8.31	46363	8.06	204.8	0	0.2	1.64	2.985
Week 1	06-05-2024	11:35:02	18.376	105.9	8.31	46364	8.06	204.5	0	0.21	1.66	2.926
Week 1	06-05-2024	11:35:03	18.375	105.9	8.31	46365	8.06	204.2	0	0.21	1.68	3.157
Week 1	06-05-2024	11:35:04	18.375	105.8	8.31	46365	8.07	203.9	0	0.22	1.72	3.291
Week 1	06-05-2024	11:35:05	18.375	105.8	8.3	46366	8.07	203.6	0	0.23	1.75	3.33
Week 1	06-05-2024	11:35:06	18.374	105.8	8.3	46367	8.08	203.3	0	0.23	1.74	3.499
Week 1	06-05-2024	11:35:07	18.374	105.8	8.3	46367	8.08	203	0	0.23	1.75	3.589
Week 1	06-05-2024	11:35:08	18.373	105.8	8.3	46368	8.08	202.7	0	0.23	1.73	3.654
Week 1	06-05-2024	11:35:09	18.372	105.8	8.3	46367	8.09	202.4	0	0.23	1.75	3.71
Week 1	06-05-2024	11:35:10	18.371	105.8	8.3	46367	8.09	202.1	0	0.24	1.79	3.787
Week 1	06-05-2024	11:35:11	18.371	105.7	8.3	46368	8.1	201.8	0	0.24	1.77	3.852
Week 1	06-05-2024	11:35:12	18.37	105.7	8.3	46369	8.1	201.5	0	0.24	1.78	3.907
Week 1	06-05-2024	11:35:13	18.369	105.7	8.3	46369	8.11	201.2	0	0.21	1.68	4.715
Week 1	06-05-2024	11:35:14	18.369	105.7	8.29	46369	8.11	200.9	0	0.21	1.68	4.742
Week 1	06-05-2024	11:35:15	18.369	105.7	8.29	46369	8.11	200.6	0	0.2	1.62	4.945
Week 1	06-05-2024	11:35:16	18.368	105.7	8.29	46370	8.12	200.3	0	0.21	1.67	5.028
Week 1	06-05-2024	11:35:17	18.368	105.7	8.29	46369	8.12	199.9	0	0.21	1.66	5.024
Week 1	06-05-2024	11:35:18	18.367	105.7	8.29	46370	8.13	199.7	0	0.21	1.69	5.075
Week 1	06-05-2024	11:35:19	18.367	105.6	8.29	46370	8.13	199.4	0	0.22	1.7	5.128
Week 1	06-05-2024	11:35:20	18.367	105.6	8.29	46370	8.13	199.2	0	0.22	1.72	5.18
Week 1	06-05-2024	11:35:21	18.367	105.6	8.29	46371	8.14	199.1	0	0.23	1.74	5.243
Week 1	06-05-2024	11:35:22	18.366	105.6	8.29	46372	8.14	198.9	0	0.24	1.77	5.293
Week 1	06-05-2024	11:35:23	18.366	105.6	8.29	46372	8.14	198.8	0	0.23	1.74	5.362
Week 1	06-05-2024	11:35:24	18.365	105.6	8.29	46372	8.14	198.7	0	0.25	1.83	5.417
Week 1	06-05-2024	11:35:25	18.364	105.6	8.29	46372	8.14	198.6	0	0.24	1.79	5.475

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 1	06-05-2024	11:35:26	18.363	105.6	8.28	46372	8.14	198.5	0	0.25	1.82	6.404
Week 1	06-05-2024	11:35:27	18.362	105.5	8.28	46373	8.14	198.4	0	0.26	1.84	6.815
Week 1	06-05-2024	11:35:28	18.361	105.5	8.28	46373	8.14	198.3	0	0.25	1.83	7.051
Week 1	06-05-2024	11:35:29	18.36	105.5	8.28	46373	8.14	198.2	0	0.25	1.84	7.105
Week 1	06-05-2024	11:35:30	18.359	105.5	8.28	46374	8.14	198.2	0	0.25	1.82	7.174
Week 1	06-05-2024	11:35:31	18.358	105.5	8.28	46374	8.15	198.1	0	0.26	1.84	7.372
Week 1	06-05-2024	11:35:32	18.356	105.5	8.28	46374	8.15	198.1	0	0.26	1.85	7.472
Week 1	06-05-2024	11:35:33	18.355	105.4	8.28	46374	8.15	198	0	0.25	1.82	7.562
Week 1	06-05-2024	11:35:34	18.354	105.4	8.28	46375	8.15	197.9	0	0.24	1.8	7.648
Week 1	06-05-2024	11:35:35	18.353	105.4	8.27	46375	8.15	197.9	0	0.23	1.76	7.731
Week 1	06-05-2024	11:35:36	18.352	105.4	8.27	46375	8.15	197.9	0	0.23	1.75	8.639
Week 1	06-05-2024	11:35:37	18.351	105.4	8.27	46376	8.15	197.8	0	0.23	1.74	8.773
Week 1	06-05-2024	11:35:38	18.351	105.4	8.27	46376	8.15	197.8	0	0.21	1.68	9.175
Week 1	06-05-2024	11:35:39	18.35	105.4	8.27	46376	8.15	197.7	0	0.2	1.65	9.233
Week 1	06-05-2024	11:35:40	18.35	105.3	8.27	46376	8.15	197.7	0	0.21	1.67	9.44
Week 1	06-05-2024	11:35:41	18.35	105.3	8.27	46376	8.15	197.7	0	0.21	1.66	9.581
Week 1	06-05-2024	11:35:42	18.35	105.3	8.27	46376	8.15	197.6	0	0.2	1.63	9.66
Week 1	06-05-2024	11:35:43	18.349	105.3	8.27	46376	8.15	197.6	0	0.19	1.62	9.783
Week 1	06-05-2024	11:35:44	18.349	105.3	8.27	46376	8.15	197.6	0	0.19	1.6	10.899
Week 1	06-05-2024	11:35:45	18.349	105.3	8.26	46377	8.15	197.5	0	0.19	1.59	11.296
Week 1	06-05-2024	11:35:46	18.349	105.2	8.26	46377	8.15	197.5	0	0.17	1.54	11.721
Week 1	06-05-2024	11:35:47	18.348	105.2	8.26	46378	8.15	197.5	0	0.17	1.54	11.754
Week 1	06-05-2024	11:35:48	18.348	105.2	8.26	46378	8.15	197.4	0	0.18	1.57	11.897
Week 1	06-05-2024	11:35:49	18.347	105.2	8.26	46378	8.15	197.4	0	0.18	1.57	12.1
Week 1	06-05-2024	11:35:50	18.347	105.2	8.26	46378	8.15	197.4	0	0.2	1.63	12.244
Week 1	06-05-2024	11:35:51	18.347	105.1	8.25	46378	8.15	197.3	0	0.2	1.63	12.368
Week 1	06-05-2024	11:35:52	18.346	105.1	8.25	46378	8.15	197.3	0	0.21	1.69	13.308
Week 1	06-05-2024	11:35:53	18.346	105.1	8.25	46378	8.15	197.3	0	0.23	1.74	13.513
Week 1	06-05-2024	11:35:54	18.346	105.1	8.25	46379	8.15	197.3	0	0.24	1.8	13.66
Week 1	06-05-2024	11:35:55	18.345	105	8.25	46379	8.15	197.2	0	0.26	1.86	13.769
Week 1	06-05-2024	11:35:56	18.345	105	8.24	46379	8.15	197.2	0	0.28	1.93	13.923
Week 1	06-05-2024	11:35:57	18.345	105	8.24	46379	8.15	197.2	0	0.3	2.02	14.129
Week 1	06-05-2024	11:35:58	18.345	105	8.24	46379	8.15	197.2	0	0.31	2.03	14.292
Week 1	06-05-2024	11:35:59	18.345	104.9	8.24	46380	8.15	197.2	0	0.3	2.01	14.426
Week 1	06-05-2024	11:36:00	18.345	104.9	8.24	46380	8.15	197.1	0	0.31	2.04	15.522
Week 1	06-05-2024	11:36:01	18.345	104.9	8.24	46380	8.15	197.1	0	0.29	1.97	15.702
Week 1	06-05-2024	11:36:02	18.345	104.9	8.23	46381	8.15	197.1	0	0.29	1.98	15.871
Week 1	06-05-2024	11:36:03	18.345	104.9	8.23	46381	8.15	197.1	0	0.27	1.9	15.934
Week 1	06-05-2024	11:36:04	18.345	104.9	8.23	46381	8.15	197.1	0	0.26	1.84	16.013
Week 1	06-05-2024	11:36:05	18.344	104.8	8.23	46381	8.15	197	0	0.25	1.81	16.11
Week 1	06-05-2024	11:36:06	18.344	104.8	8.23	46382	8.15	197	0	0.23	1.77	16.232
Week 1	06-05-2024	11:36:07	18.344	104.8	8.23	46382	8.15	197	0	0.23	1.75	16.366
Week 1	06-05-2024	11:36:08	18.344	104.8	8.23	46382	8.15	197	0	0.22	1.73	17.352
Week 1	06-05-2024	11:36:09	18.344	104.8	8.23	46382	8.15	197	0	0.23	1.76	17.595
Week 1	06-05-2024	11:36:10	18.344	104.8	8.22	46383	8.15	197	0	0.24	1.78	17.754
Week 1	06-05-2024	11:36:11	18.344	104.7	8.22	46383	8.15	196.9	0	0.22	1.7	17.959
Week 1	06-05-2024	11:36:12	18.344	104.7	8.22	46382	8.15	196.9	0	0.23	1.76	18.137
Week 1	06-05-2024	11:36:13	18.344	104.7	8.22	46382	8.15	196.9	0	0.23	1.74	18.245
Week 1	06-05-2024	11:36:14	18.344	104.7	8.22	46382	8.15	196.9	0	0.23	1.76	18.362
Week 1	06-05-2024	11:36:15	18.344	104.7	8.22	46382	8.15	196.9	0	0.23	1.75	18.477
Week 1	06-05-2024	11:36:16	18.344	104.7	8.22	46382	8.15	196.9	0	0.22	1.7	18.571
Week 1	06-05-2024	11:36:17	18.344	104.7	8.22	46383	8.15	196.9	0	0.24	1.77	18.66
Week 1	06-05-2024	11:36:18	18.344	104.7	8.22	46383	8.15	196.9	0	0.23	1.76	19.551
Week 1	06-05-2024	11:36:19	18.344	104.7	8.22	46383	8.15	196.8	0	0.24	1.78	19.638
Week 1	06-05-2024	11:36:20	18.344	104.7	8.22	46383	8.15	196.8	0	0.24	1.79	20.003
Week 1	06-05-2024	11:36:21	18.344	104.7	8.22	46383	8.15	196.8	0	0.25	1.82	20.103
Week 1	06-05-2024	11:36:22	18.344	104.6	8.22	46384	8.15	196.8	0	0.26	1.85	20.294
Week 1	06-05-2024	11:36:23	18.344	104.6	8.21	46384	8.15	196.8	0	0.24	1.8	20.461
Week 1	06-05-2024	11:36:24	18.344	104.6	8.21	46384	8.15	196.8	0	0.24	1.79	20.628
Week 1	06-05-2024	11:36:25	18.344	104.6	8.21	46384	8.15	196.8	0	0.24	1.78	20.754
Week 1	06-05-2024	11:36:26	18.344	104.6	8.21	46385	8.15	196.8	0	0.24	1.77	21.701
Week 1	06-05-2024	11:36:27	18.344	104.6	8.21	46385	8.15	196.8	0	0.24	1.78	22.007
Week 1	06-05-2024	11:36:28	18.344	104.6	8.21	46385	8.15	196.8	0	0.23	1.74	22.204
Week 1	06-05-2024	11:36:29	18.344	104.6	8.21	46385	8.15	196.8	0	0.21	1.67	22.221
Week 1	06-05-2024	11:36:30	18.344	104.6	8.21	46386	8.15	196.7	0	0.21	1.67	22.376
Week 1	06-05-2024	11:36:31	18.344	104.6	8.21	46386	8.15	196.7	0	0.19	1.62	22.6
Week 1	06-05-2024	11:36:32	18.344	104.6	8.21	46386	8.15	196.7	0	0.18	1.57	22.819
Week 1	06-05-2024	11:36:33	18.344	104.5	8.21	46386	8.15	196.7	0	0.17	1.52	22.939
Week 1	06-05-2024	11:36:34	18.344	104.5	8.21	46386	8.15	196.7	0	0.16	1.51	23.676
Week 1	06-05-2024	11:36:35	18.344	104.5	8.21	46386	8.15	196.7	0	0.17	1.54	24.003
Week 1	06-05-2024	11:36:36	18.344	104.5	8.2	46386	8.15	196.7	0	0.16	1.48	24.427
Week 1	06-05-2024	11:36:37	18.344	104.5	8.2	46386	8.15	196.7	0	0.17	1.54	24.624
Week 1	06-05-2024	11:36:38	18.344	104.5	8.2	46387	8.15	196.7	0	0.16	1.49	24.626

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 1	06-05-2024	11:36:39	18.345	104.5	8.2	46387	8.15	196.7	0	0.18	1.55	24.652
Week 1	06-05-2024	11:36:40	18.345	104.5	8.2	46387	8.15	196.7	0	0.18	1.58	24.843
Week 1	06-05-2024	11:36:41	18.345	104.4	8.2	46387	8.15	196.7	0	0.18	1.57	25.017
Week 1	06-05-2024	11:36:42	18.345	104.4	8.2	46387	8.15	196.7	0	0.19	1.62	25.901
Week 1	06-05-2024	11:36:43	18.346	104.4	8.2	46387	8.15	196.7	0	0.2	1.65	25.959
Week 1	06-05-2024	11:36:44	18.346	104.4	8.2	46387	8.15	196.7	0	0.24	1.78	26.075
Week 1	06-05-2024	11:36:45	18.347	104.4	8.2	46387	8.15	196.7	0	0.28	1.92	26.099
Week 1	06-05-2024	11:36:46	18.347	104.4	8.2	46387	8.15	196.7	0	0.31	2.05	26.098
Week 1	06-05-2024	11:36:47	18.348	104.4	8.2	46387	8.15	196.7	0	0.35	2.17	26.095
Week 1	06-05-2024	11:36:48	18.348	104.4	8.19	46387	8.15	196.7	0	0.34	2.16	26.085
Week 1	06-05-2024	11:36:49	18.349	104.4	8.19	46387	8.15	196.7	0	0.39	2.34	26.072
Week 1	06-05-2024	11:36:50	18.349	104.4	8.19	46387	8.15	196.7	0.04	0.43	2.47	26.062
Week 1	06-05-2024	11:36:51	18.35	104.4	8.19	46387	8.15	196.6	0.1	0.52	2.79	26.047
Week 1	06-05-2024	11:36:52	18.35	104.4	8.19	46387	8.15	196.6	0.09	0.51	2.77	26.003
Week 1	06-05-2024	11:36:53	18.35	104.4	8.19	46387	8.15	196.6	0.1	0.5	2.75	24.6
Week 1	06-05-2024	11:36:54	18.35	104.4	8.19	46387	8.15	196.6	0.1	0.51	2.76	24.399
Week 1	06-05-2024	11:36:55	18.35	104.4	8.19	46387	8.15	196.6	0.1	0.45	2.54	24.258
Week 1	06-05-2024	11:36:56	18.35	104.4	8.2	46387	8.15	196.6	0.11	0.43	2.48	24.125
Week 1	06-05-2024	11:36:57	18.349	104.4	8.2	46387	8.15	196.6	0.11	0.36	2.21	23.87
Week 1	06-05-2024	11:36:58	18.349	104.4	8.2	46387	8.15	196.6	0.11	0.34	2.17	23.637
Week 1	06-05-2024	11:36:59	18.348	104.4	8.2	46387	8.15	196.6	0.11	0.34	2.14	23.478
Week 1	06-05-2024	11:37:00	18.348	104.4	8.2	46387	8.15	196.6	0.1	0.3	2.02	23.366
Week 1	06-05-2024	11:37:01	18.347	104.4	8.2	46387	8.15	196.6	0.11	0.29	1.98	22.395
Week 1	06-05-2024	11:37:02	18.347	104.4	8.2	46387	8.15	196.6	0.1	0.25	1.83	21.602
Week 1	06-05-2024	11:37:03	18.346	104.4	8.2	46387	8.15	196.6	0.06	0.25	1.84	21.137
Week 1	06-05-2024	11:37:04	18.346	104.5	8.2	46387	8.15	196.6	0	0.25	1.83	21.028
Week 1	06-05-2024	11:37:05	18.345	104.5	8.2	46387	8.15	196.6	0	0.24	1.79	20.708
Week 1	06-05-2024	11:37:06	18.345	104.5	8.2	46387	8.15	196.6	0	0.24	1.78	19.535
Week 1	06-05-2024	11:37:07	18.345	104.5	8.2	46387	8.15	196.6	0	0.23	1.77	18.925
Week 1	06-05-2024	11:37:08	18.345	104.5	8.2	46386	8.15	196.6	0	0.24	1.78	18.769
Week 1	06-05-2024	11:37:09	18.344	104.5	8.21	46386	8.15	196.6	0	0.23	1.75	18.305
Week 1	06-05-2024	11:37:10	18.344	104.5	8.21	46385	8.15	196.6	0	0.22	1.73	18.092
Week 1	06-05-2024	11:37:11	18.344	104.6	8.21	46385	8.15	196.6	0	0.23	1.77	17.754
Week 1	06-05-2024	11:37:12	18.344	104.6	8.21	46384	8.15	196.6	0	0.23	1.73	16.552
Week 1	06-05-2024	11:37:13	18.345	104.6	8.21	46384	8.15	196.6	0	0.24	1.77	16.117
Week 1	06-05-2024	11:37:14	18.345	104.7	8.22	46384	8.15	196.5	0	0.23	1.74	15.38
Week 1	06-05-2024	11:37:15	18.345	104.7	8.22	46383	8.15	196.5	0	0.22	1.73	15.076
Week 1	06-05-2024	11:37:16	18.345	104.7	8.22	46383	8.15	196.5	0	0.23	1.74	14.814
Week 1	06-05-2024	11:37:17	18.345	104.8	8.23	46383	8.15	196.5	0	0.23	1.74	14.524
Week 1	06-05-2024	11:37:18	18.345	104.8	8.23	46382	8.15	196.5	0	0.24	1.78	13.27
Week 1	06-05-2024	11:37:19	18.345	104.9	8.23	46382	8.15	196.5	0	0.25	1.83	12.485
Week 1	06-05-2024	11:37:20	18.346	104.9	8.23	46381	8.15	196.5	0	0.26	1.85	11.861
Week 1	06-05-2024	11:37:21	18.346	104.9	8.24	46381	8.15	196.5	0	0.26	1.88	11.498
Week 1	06-05-2024	11:37:22	18.346	105	8.24	46381	8.15	196.5	0	0.27	1.9	11.166
Week 1	06-05-2024	11:37:23	18.346	105	8.24	46381	8.15	196.5	0	0.27	1.91	9.663
Week 1	06-05-2024	11:37:24	18.346	105	8.24	46380	8.15	196.5	0	0.27	1.89	9.126
Week 1	06-05-2024	11:37:25	18.347	105.1	8.25	46380	8.15	196.5	0	0.29	1.97	8.482
Week 1	06-05-2024	11:37:26	18.347	105.1	8.25	46380	8.15	196.5	0	0.28	1.95	8.367
Week 1	06-05-2024	11:37:27	18.347	105.1	8.25	46379	8.15	196.6	0	0.29	1.98	8.137
Week 1	06-05-2024	11:37:28	18.348	105.1	8.25	46378	8.15	196.6	0	0.29	1.96	6.863
Week 1	06-05-2024	11:37:29	18.348	105.1	8.25	46378	8.15	196.6	0	0.28	1.92	6.152
Week 1	06-05-2024	11:37:30	18.349	105.2	8.26	46377	8.15	196.6	0	0.26	1.86	5.577
Week 1	06-05-2024	11:37:31	18.35	105.2	8.26	46376	8.15	196.6	0	0.24	1.8	5.001
Week 1	06-05-2024	11:37:32	18.351	105.2	8.26	46376	8.15	196.6	0	0.24	1.78	4.692
Week 1	06-05-2024	11:37:33	18.352	105.3	8.26	46375	8.15	196.6	0	0.22	1.71	3.417
Week 1	06-05-2024	11:37:34	18.354	105.3	8.26	46374	8.15	196.6	0	0.23	1.75	2.684
Week 1	06-05-2024	11:37:35	18.355	105.3	8.27	46374	8.15	196.6	0	0.23	1.75	2.261
Week 1	06-05-2024	11:37:36	18.357	105.4	8.27	46373	8.15	196.7	0	0.21	1.67	1.862
Week 1	06-05-2024	11:37:37	18.36	105.4	8.27	46372	8.15	196.7	0	0.21	1.67	1.527
Week 1	06-05-2024	11:37:38	18.362	105.4	8.27	46371	8.15	196.7	0	0.2	1.65	1.219
Week 1	06-05-2024	11:37:39	18.365	105.4	8.28	46370	8.15	196.7	0	0.19	1.61	0.99
Week 1	06-05-2024	11:37:40	18.368	105.5	8.28	46370	8.15	196.7	0	0.18	1.57	0.835
Week 2	13-05-2024	10:22:02	17.874	104.7	9.99	53371	7.78	226.3	0.7	0.51	2.76	0.22
Week 2	13-05-2024	10:22:03	17.859	103.8	7.98	53471	7.84	224.6	0.67	0.49	2.69	0.221
Week 2	13-05-2024	10:22:04	17.859	103.7	7.96	53584	7.88	222.5	0.61	0.44	2.51	0.232
Week 2	13-05-2024	10:22:05	17.862	103.5	7.95	53631	7.91	220.3	0.51	0.4	2.36	0.249
Week 2	13-05-2024	10:22:06	17.862	103.4	7.94	53644	7.93	219.7	0.46	0.37	2.26	0.266
Week 2	13-05-2024	10:22:07	17.864	103.3	7.93	53655	7.95	218.4	0.42	0.31	2.04	0.975
Week 2	13-05-2024	10:22:08	17.865	103.2	7.92	53665	7.96	217.6	0.32	0.27	1.89	1.041
Week 2	13-05-2024	10:22:09	17.867	103.1	7.91	53681	7.97	216.9	0.29	0.26	1.86	1.259
Week 2	13-05-2024	10:22:10	17.868	103	7.9	53693	7.98	216.1	0.18	0.26	1.85	1.311
Week 2	13-05-2024	10:22:11	17.87	102.9	7.89	53701	7.98	215.8	0.11	0.24	1.78	1.398
Week 2	13-05-2024	10:22:12	17.872	102.8	7.89	53709	7.98	215.2	0.08	0.24	1.79	1.523

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 2	13-05-2024	10:22:13	17.875	102.7	7.88	53717	7.99	214.5	-0.02	0.25	1.82	1.651
Week 2	13-05-2024	10:22:14	17.877	102.7	7.87	53722	7.99	214.3	-0.06	0.25	1.81	1.787
Week 2	13-05-2024	10:22:15	17.878	102.6	7.87	53727	8	213.6	-0.1	0.26	1.85	1.898
Week 2	13-05-2024	10:22:16	17.88	102.5	7.86	53731	8	213.4	-0.1	0.27	1.88	2.74
Week 2	13-05-2024	10:22:17	17.882	102.4	7.85	53735	8	213	-0.1	0.26	1.86	2.91
Week 2	13-05-2024	10:22:18	17.884	102.2	7.84	53736	8.01	212.3	-0.11	0.27	1.88	3.158
Week 2	13-05-2024	10:22:19	17.887	102.1	7.83	53745	8.01	212.2	-0.11	0.28	1.94	3.259
Week 2	13-05-2024	10:22:20	17.89	102	7.82	53752	8.01	211.6	-0.12	0.29	1.98	3.406
Week 2	13-05-2024	10:22:21	17.892	101.8	7.8	53759	8.01	211.5	-0.12	0.28	1.95	3.602
Week 2	13-05-2024	10:22:22	17.894	101.7	7.79	53763	8.02	211	-0.13	0.28	1.93	3.808
Week 2	13-05-2024	10:22:23	17.895	101.5	7.78	53766	8.02	210.3	-0.12	0.26	1.88	3.96
Week 2	13-05-2024	10:22:24	17.896	101.4	7.77	53769	8.12	210.2	-0.12	0.26	1.87	4.087
Week 2	13-05-2024	10:22:25	17.896	101.3	7.77	53770	8.15	199	-0.12	0.29	1.96	4.202
Week 2	13-05-2024	10:22:26	17.896	101.2	7.76	53771	8.17	196.9	-0.12	0.28	1.93	4.981
Week 2	13-05-2024	10:22:27	17.895	101.1	7.75	53772	8.18	196.6	-0.12	0.28	1.92	5.169
Week 2	13-05-2024	10:22:28	17.895	101	7.74	53772	8.18	196.3	-0.12	0.27	1.91	5.266
Week 2	13-05-2024	10:22:29	17.894	100.9	7.73	53773	8.18	196.2	-0.12	0.26	1.87	5.315
Week 2	13-05-2024	10:22:30	17.894	100.8	7.72	53774	8.19	196	-0.11	0.26	1.84	5.451
Week 2	13-05-2024	10:22:31	17.894	100.7	7.72	53774	8.19	195.7	-0.1	0.25	1.83	5.629
Week 2	13-05-2024	10:22:32	17.894	100.6	7.71	53775	8.19	195.6	-0.11	0.24	1.8	5.742
Week 2	13-05-2024	10:22:33	17.894	100.5	7.71	53776	8.19	195.5	-0.11	0.25	1.83	5.858
Week 2	13-05-2024	10:22:34	17.894	100.5	7.7	53776	8.19	195.3	-0.11	0.26	1.86	5.968
Week 2	13-05-2024	10:22:35	17.893	100.4	7.7	53776	8.19	195.2	-0.11	0.25	1.82	6.078
Week 2	13-05-2024	10:22:36	17.894	100.3	7.69	53776	8.19	195	-0.11	0.23	1.76	7.081
Week 2	13-05-2024	10:22:37	17.894	100.3	7.69	53776	8.19	194.9	-0.11	0.24	1.78	7.387
Week 2	13-05-2024	10:22:38	17.894	100.2	7.68	53777	8.19	194.8	-0.12	0.24	1.79	7.646
Week 2	13-05-2024	10:22:39	17.894	100.2	7.68	53777	8.19	194.7	-0.13	0.24	1.79	7.748
Week 2	13-05-2024	10:22:40	17.895	100.1	7.67	53777	8.19	194.6	-0.13	0.26	1.84	7.85
Week 2	13-05-2024	10:22:41	17.895	100.1	7.67	53776	8.19	194.4	-0.13	0.26	1.87	7.964
Week 2	13-05-2024	10:22:42	17.896	100	7.67	53776	8.19	194.4	-0.12	0.26	1.85	8.073
Week 2	13-05-2024	10:22:43	17.895	100	7.66	53776	8.19	194.3	-0.12	0.28	1.92	8.169
Week 2	13-05-2024	10:22:44	17.895	99.9	7.66	53776	8.19	194.1	-0.13	0.27	1.91	8.287
Week 2	13-05-2024	10:22:45	17.895	99.9	7.66	53775	8.19	194.1	-0.13	0.27	1.89	9.122
Week 2	13-05-2024	10:22:46	17.895	99.8	7.65	53775	8.19	193.9	-0.13	0.28	1.93	9.381
Week 2	13-05-2024	10:22:47	17.895	99.8	7.65	53776	8.19	193.8	-0.13	0.28	1.93	9.733
Week 2	13-05-2024	10:22:48	17.894	99.8	7.65	53775	8.19	193.8	-0.13	0.28	1.92	9.825
Week 2	13-05-2024	10:22:49	17.894	99.7	7.64	53776	8.19	193.6	-0.13	0.28	1.93	10.005
Week 2	13-05-2024	10:22:50	17.893	99.7	7.64	53777	8.19	193.6	-0.12	0.28	1.95	10.146
Week 2	13-05-2024	10:22:51	17.893	99.7	7.64	53777	8.19	193.4	-0.12	0.28	1.92	10.313
Week 2	13-05-2024	10:22:52	17.892	99.6	7.64	53777	8.2	193.1	-0.11	0.26	1.87	11.273
Week 2	13-05-2024	10:22:53	17.891	99.6	7.63	53778	8.2	193	-0.11	0.27	1.91	11.5
Week 2	13-05-2024	10:22:54	17.891	99.5	7.63	53778	8.2	192.8	-0.1	0.28	1.92	11.791
Week 2	13-05-2024	10:22:55	17.889	99.5	7.63	53779	8.2	192.6	-0.1	0.27	1.91	12.139
Week 2	13-05-2024	10:22:56	17.888	99.5	7.63	53780	8.2	192.5	-0.1	0.28	1.95	12.238
Week 2	13-05-2024	10:22:57	17.885	99.4	7.62	53780	8.2	192.2	-0.1	0.29	1.96	12.61
Week 2	13-05-2024	10:22:58	17.881	99.4	7.62	53781	8.2	192.1	-0.1	0.29	1.97	13.735
Week 2	13-05-2024	10:22:59	17.874	99.4	7.62	53782	8.2	192	-0.09	0.3	2	14.225
Week 2	13-05-2024	10:23:00	17.865	99.3	7.61	53783	8.2	191.8	-0.09	0.29	1.96	14.752
Week 2	13-05-2024	10:23:01	17.853	99.2	7.61	53786	8.2	191.7	-0.09	0.27	1.91	15.04
Week 2	13-05-2024	10:23:02	17.841	99.2	7.61	53787	8.2	191.5	-0.09	0.27	1.9	15.224
Week 2	13-05-2024	10:23:03	17.828	99.1	7.6	53787	8.2	191.4	-0.09	0.28	1.92	15.38
Week 2	13-05-2024	10:23:04	17.815	99.1	7.6	53788	8.2	191.3	-0.09	0.28	1.92	15.503
Week 2	13-05-2024	10:23:05	17.798	99	7.6	53789	8.2	191.2	-0.09	0.26	1.85	15.656
Week 2	13-05-2024	10:23:06	17.777	98.9	7.6	53791	8.2	191.1	-0.1	0.24	1.77	15.773
Week 2	13-05-2024	10:23:07	17.756	98.9	7.59	53795	8.2	190.9	-0.1	0.22	1.72	15.875
Week 2	13-05-2024	10:23:08	17.732	98.8	7.59	53797	8.2	190.8	-0.1	0.2	1.64	15.96
Week 2	13-05-2024	10:23:09	17.71	98.7	7.59	53798	8.2	190.6	-0.1	0.19	1.62	16.057
Week 2	13-05-2024	10:23:10	17.686	98.7	7.59	53799	8.2	190.6	-0.1	0.19	1.59	17.078
Week 2	13-05-2024	10:23:11	17.666	98.6	7.59	53800	8.2	190.5	-0.1	0.19	1.61	17.24
Week 2	13-05-2024	10:23:12	17.641	98.6	7.59	53801	8.2	190.4	-0.1	0.2	1.63	17.556
Week 2	13-05-2024	10:23:13	17.62	98.6	7.59	53801	8.2	190.2	-0.1	0.2	1.63	17.597
Week 2	13-05-2024	10:23:14	17.598	98.5	7.59	53801	8.2	190.1	-0.1	0.19	1.62	17.672
Week 2	13-05-2024	10:23:15	17.578	98.5	7.59	53803	8.2	190.1	-0.1	0.18	1.56	17.765
Week 2	13-05-2024	10:23:16	17.556	98.5	7.59	53804	8.2	190	-0.1	0.17	1.53	17.852
Week 2	13-05-2024	10:23:17	17.538	98.5	7.59	53806	8.2	189.9	-0.11	0.17	1.55	17.957
Week 2	13-05-2024	10:23:18	17.518	98.4	7.6	53807	8.2	189.8	-0.1	0.18	1.56	19.02
Week 2	13-05-2024	10:23:19	17.502	98.4	7.6	53808	8.2	189.7	-0.1	0.19	1.62	19.268
Week 2	13-05-2024	10:23:20	17.486	98.4	7.6	53807	8.2	189.6	-0.1	0.19	1.6	19.564
Week 2	13-05-2024	10:23:21	17.473	98.4	7.6	53808	8.2	189.5	-0.09	0.19	1.59	19.658
Week 2	13-05-2024	10:23:22	17.459	98.4	7.6	53808	8.2	189.5	-0.09	0.19	1.6	19.923
Week 2	13-05-2024	10:23:23	17.447	98.4	7.6	53810	8.2	189.4	-0.09	0.2	1.65	20.14
Week 2	13-05-2024	10:23:24	17.434	98.3	7.6	53811	8.2	189.3	-0.08	0.22	1.7	20.312
Week 2	13-05-2024	10:23:25	17.426	98.3	7.6	53813	8.2	189.3	-0.08	0.23	1.75	20.446

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 2	13-05-2024	10:23:26	17.418	98.3	7.6	53813	8.2	189.2	-0.08	0.25	1.82	20.574
Week 2	13-05-2024	10:23:27	17.41	98.3	7.6	53813	8.2	189.1	-0.06	0.27	1.89	21.336
Week 2	13-05-2024	10:23:28	17.403	98.3	7.6	53813	8.2	189	-0.05	0.28	1.92	21.338
Week 2	13-05-2024	10:23:29	17.396	98.3	7.6	53814	8.2	188.9	-0.04	0.27	1.89	21.392
Week 2	13-05-2024	10:23:30	17.39	98.2	7.6	53814	8.2	188.9	-0.04	0.26	1.87	21.447
Week 2	13-05-2024	10:23:31	17.385	98.2	7.6	53812	8.2	188.8	-0.04	0.27	1.88	21.561
Week 2	13-05-2024	10:23:32	17.382	98.2	7.6	53812	8.2	188.7	-0.04	0.27	1.91	21.656
Week 2	13-05-2024	10:23:33	17.378	98.2	7.6	53812	8.2	188.7	-0.04	0.25	1.83	21.753
Week 2	13-05-2024	10:23:34	17.375	98.2	7.6	53812	8.2	188.6	-0.05	0.21	1.67	21.875
Week 2	13-05-2024	10:23:35	17.371	98.2	7.6	53812	8.2	188.6	-0.05	0.21	1.68	22.024
Week 2	13-05-2024	10:23:36	17.369	98.2	7.6	53811	8.2	188.5	-0.06	0.2	1.66	22.945
Week 2	13-05-2024	10:23:37	17.366	98.2	7.6	53811	8.2	188.5	-0.05	0.19	1.61	23.025
Week 2	13-05-2024	10:23:38	17.364	98.1	7.6	53811	8.2	188.4	-0.05	0.18	1.56	23.11
Week 2	13-05-2024	10:23:39	17.362	98.1	7.6	53810	8.2	188.3	-0.05	0.18	1.55	23.098
Week 2	13-05-2024	10:23:40	17.361	98.1	7.6	53811	8.2	188.3	-0.04	0.17	1.54	23.232
Week 2	13-05-2024	10:23:41	17.359	98.1	7.6	53811	8.2	188.2	-0.05	0.16	1.51	23.393
Week 2	13-05-2024	10:23:42	17.358	98.1	7.6	53811	8.2	188.1	-0.05	0.15	1.45	23.556
Week 2	13-05-2024	10:23:43	17.356	98.1	7.6	53811	8.2	188.1	-0.06	0.15	1.46	23.662
Week 2	13-05-2024	10:23:44	17.354	98.1	7.6	53811	8.2	188.1	-0.07	0.17	1.52	23.663
Week 2	13-05-2024	10:23:45	17.352	98.1	7.59	53811	8.2	188	-0.07	0.18	1.55	23.608
Week 2	13-05-2024	10:23:46	17.351	98.1	7.59	53810	8.2	187.9	-0.06	0.18	1.55	23.533
Week 2	13-05-2024	10:23:47	17.351	98.1	7.59	53811	8.2	187.9	-0.06	0.18	1.55	22.292
Week 2	13-05-2024	10:23:48	17.35	98.1	7.59	53811	8.2	187.8	-0.06	0.18	1.56	21.89
Week 2	13-05-2024	10:23:49	17.35	98	7.59	53810	8.2	187.8	-0.05	0.18	1.57	21.6
Week 2	13-05-2024	10:23:50	17.349	98	7.59	53809	8.2	187.7	-0.06	0.18	1.58	21.565
Week 2	13-05-2024	10:23:51	17.349	98	7.59	53809	8.2	187.7	-0.06	0.18	1.57	21.378
Week 2	13-05-2024	10:23:52	17.35	98	7.59	53809	8.2	187.6	-0.05	0.18	1.55	21.16
Week 2	13-05-2024	10:23:53	17.35	98	7.59	53808	8.2	187.6	-0.06	0.18	1.59	19.874
Week 2	13-05-2024	10:23:54	17.351	98.1	7.59	53807	8.2	187.5	-0.06	0.2	1.65	19.646
Week 2	13-05-2024	10:23:55	17.352	98.1	7.59	53807	8.2	187.5	-0.07	0.2	1.64	19.359
Week 2	13-05-2024	10:23:56	17.354	98.1	7.59	53807	8.2	187.4	-0.06	0.19	1.62	19.265
Week 2	13-05-2024	10:23:57	17.357	98.1	7.6	53808	8.2	187.4	-0.07	0.2	1.63	18.928
Week 2	13-05-2024	10:23:58	17.362	98.1	7.6	53807	8.2	187.3	-0.08	0.19	1.62	18.696
Week 2	13-05-2024	10:23:59	17.367	98.1	7.6	53806	8.2	187.3	-0.07	0.22	1.7	17.811
Week 2	13-05-2024	10:24:00	17.373	98.2	7.6	53804	8.2	187.2	-0.07	0.23	1.73	17.321
Week 2	13-05-2024	10:24:01	17.379	98.2	7.6	53804	8.2	187.2	-0.09	0.23	1.75	17.101
Week 2	13-05-2024	10:24:02	17.388	98.2	7.6	53804	8.2	187.1	-0.08	0.23	1.76	16.93
Week 2	13-05-2024	10:24:03	17.399	98.3	7.61	53804	8.2	187.1	-0.09	0.24	1.8	16.593
Week 2	13-05-2024	10:24:04	17.414	98.3	7.61	53803	8.2	187	-0.09	0.25	1.82	16.338
Week 2	13-05-2024	10:24:05	17.43	98.4	7.61	53802	8.2	187	-0.09	0.26	1.85	16.117
Week 2	13-05-2024	10:24:06	17.452	98.5	7.61	53801	8.2	186.9	-0.09	0.25	1.84	15.952
Week 2	13-05-2024	10:24:07	17.473	98.6	7.62	53799	8.2	186.9	-0.09	0.26	1.84	14.899
Week 2	13-05-2024	10:24:08	17.501	98.6	7.62	53797	8.2	186.8	-0.1	0.26	1.84	14.748
Week 2	13-05-2024	10:24:09	17.525	98.7	7.62	53794	8.2	186.8	-0.11	0.25	1.82	14.235
Week 2	13-05-2024	10:24:10	17.552	98.8	7.63	53791	8.2	186.7	-0.11	0.24	1.8	14.058
Week 2	13-05-2024	10:24:11	17.576	98.9	7.63	53789	8.2	186.6	-0.11	0.25	1.83	13.863
Week 2	13-05-2024	10:24:12	17.606	99	7.63	53788	8.2	186.6	-0.11	0.24	1.78	13.526
Week 2	13-05-2024	10:24:13	17.634	99.1	7.63	53786	8.2	186.6	-0.11	0.23	1.77	12.326
Week 2	13-05-2024	10:24:14	17.667	99.1	7.64	53784	8.2	186.5	-0.11	0.24	1.8	11.951
Week 2	13-05-2024	10:24:15	17.695	99.2	7.64	53781	8.2	186.5	-0.11	0.23	1.75	11.611
Week 2	13-05-2024	10:24:16	17.724	99.3	7.64	53780	8.2	186.4	-0.12	0.23	1.74	11.57
Week 2	13-05-2024	10:24:17	17.748	99.3	7.64	53777	8.2	186.4	-0.12	0.24	1.8	11.283
Week 2	13-05-2024	10:24:18	17.773	99.4	7.64	53775	8.2	186.3	-0.12	0.23	1.76	11.022
Week 2	13-05-2024	10:24:19	17.791	99.4	7.64	53773	8.2	186.3	-0.12	0.24	1.78	9.906
Week 2	13-05-2024	10:24:20	17.809	99.4	7.63	53772	8.2	186.2	-0.12	0.24	1.8	9.497
Week 2	13-05-2024	10:24:21	17.824	99.4	7.63	53771	8.2	186.2	-0.12	0.24	1.8	9.197
Week 2	13-05-2024	10:24:22	17.837	99.4	7.63	53770	8.2	186.2	-0.12	0.23	1.75	9.094
Week 2	13-05-2024	10:24:23	17.851	99.4	7.63	53770	8.2	186.1	-0.12	0.23	1.77	8.733
Week 2	13-05-2024	10:24:24	17.862	99.4	7.63	53769	8.2	186.1	-0.11	0.23	1.75	8.492
Week 2	13-05-2024	10:24:25	17.871	99.4	7.63	53767	8.2	186	-0.11	0.23	1.74	8.301
Week 2	13-05-2024	10:24:26	17.876	99.4	7.62	53767	8.2	186	-0.11	0.22	1.72	7.327
Week 2	13-05-2024	10:24:27	17.88	99.4	7.62	53766	8.2	186	-0.12	0.22	1.71	6.559
Week 2	13-05-2024	10:24:28	17.883	99.4	7.62	53765	8.2	185.9	-0.12	0.19	1.62	6.253
Week 2	13-05-2024	10:24:29	17.887	99.4	7.62	53765	8.2	185.9	-0.11	0.21	1.66	6.093
Week 2	13-05-2024	10:24:30	17.888	99.3	7.62	53764	8.2	185.9	-0.11	0.2	1.66	5.747
Week 2	13-05-2024	10:24:31	17.89	99.3	7.62	53764	8.2	185.8	-0.11	0.2	1.63	4.517
Week 2	13-05-2024	10:24:32	17.892	99.3	7.61	53763	8.2	185.8	-0.12	0.19	1.6	4.286
Week 2	13-05-2024	10:24:33	17.894	99.3	7.61	53763	8.2	185.7	-0.12	0.19	1.59	3.779
Week 2	13-05-2024	10:24:34	17.896	99.3	7.61	53762	8.2	185.7	-0.12	0.19	1.62	3.615
Week 2	13-05-2024	10:24:35	17.898	99.3	7.61	53761	8.2	185.7	-0.12	0.21	1.67	3.52
Week 2	13-05-2024	10:24:36	17.899	99.3	7.61	53760	8.2	185.6	-0.11	0.2	1.63	3.322
Week 2	13-05-2024	10:24:37	17.901	99.3	7.61	53759	8.2	185.6	-0.11	0.21	1.66	2.309
Week 2	13-05-2024	10:24:38	17.903	99.3	7.61	53759	8.2	185.6	-0.11	0.21	1.66	1.806

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 2	13-05-2024	10:24:39	17.905	99.3	7.61	53758	8.2	185.6	-0.11	0.21	1.68	1.574
Week 2	13-05-2024	10:24:40	17.907	99.3	7.61	53758	8.2	185.5	-0.12	0.2	1.66	1.275
Week 2	13-05-2024	10:24:41	17.909	99.3	7.61	53757	8.2	185.5	-0.11	0.22	1.7	1.151
Week 2	13-05-2024	10:24:42	17.91	99.3	7.61	53756	8.2	185.5	-0.1	0.23	1.76	0.938
Week 3	22-05-2024	10:33:43	17.525	99.2	9.51	53438	7.44	257.5	0.15	0.18	1.58	0.013
Week 3	22-05-2024	10:33:44	17.524	98.9	7.65	53477	7.76	243.7	0.06	0.26	1.87	0.014
Week 3	22-05-2024	10:33:46	17.547	98.9	9.03	53638	7.98	236.9	0.03	0.25	1.82	0.014
Week 3	22-05-2024	10:33:47	17.551	98.8	7.63	53640	8.01	236.1	0.02	0.24	1.78	0.014
Week 3	22-05-2024	10:33:48	17.552	98.8	7.62	53631	8.03	234.9	0.01	0.24	1.79	0.013
Week 3	22-05-2024	10:33:49	17.553	98.7	7.62	53628	8.04	233.7	-0.01	0.24	1.79	0.014
Week 3	22-05-2024	10:33:50	17.554	98.6	7.61	53632	8.04	232.6	-0.01	0.24	1.78	0.015
Week 3	22-05-2024	10:33:51	17.555	98.6	7.61	53636	8.05	231.7	-0.02	0.24	1.79	0.019
Week 3	22-05-2024	10:33:52	17.555	98.5	7.61	53640	8.06	231	-0.03	0.23	1.76	0.026
Week 3	22-05-2024	10:33:53	17.555	98.5	7.6	53643	8.06	230.4	-0.04	0.24	1.79	0.033
Week 3	22-05-2024	10:33:54	17.556	98.4	7.6	53645	8.06	229.8	-0.04	0.23	1.77	0.041
Week 3	22-05-2024	10:33:55	17.556	98.4	7.59	53647	8.07	229.3	-0.02	0.24	1.78	0.05
Week 3	22-05-2024	10:33:56	17.556	98.3	7.59	53648	8.07	228.8	-0.02	0.24	1.79	0.064
Week 3	22-05-2024	10:33:57	17.556	98.3	7.59	53650	8.07	228.3	-0.03	0.24	1.79	0.078
Week 3	22-05-2024	10:33:58	17.556	98.2	7.58	53651	8.07	228	-0.04	0.25	1.82	0.093
Week 3	22-05-2024	10:33:59	17.556	98.1	7.58	53651	8.07	227.7	-0.05	0.25	1.81	0.109
Week 3	22-05-2024	10:34:00	17.556	98.1	7.57	53652	8.08	227.4	-0.07	0.24	1.77	0.13
Week 3	22-05-2024	10:34:01	17.557	98	7.56	53653	8.08	227.1	-0.07	0.24	1.77	0.148
Week 3	22-05-2024	10:34:02	17.557	97.9	7.56	53657	8.08	226.8	-0.08	0.24	1.78	0.902
Week 3	22-05-2024	10:34:03	17.557	97.8	7.55	53659	8.08	226.5	-0.08	0.25	1.82	1.001
Week 3	22-05-2024	10:34:04	17.557	97.8	7.55	53660	8.08	226.2	-0.08	0.23	1.77	1.036
Week 3	22-05-2024	10:34:05	17.558	97.7	7.54	53662	8.08	225.9	-0.08	0.24	1.79	1.03
Week 3	22-05-2024	10:34:06	17.558	97.6	7.54	53663	8.08	225.6	-0.08	0.23	1.74	1.098
Week 3	22-05-2024	10:34:07	17.558	97.6	7.53	53664	8.08	225.3	-0.08	0.23	1.74	1.129
Week 3	22-05-2024	10:34:08	17.559	97.5	7.53	53666	8.09	225.1	-0.07	0.22	1.72	1.171
Week 3	22-05-2024	10:34:09	17.559	97.5	7.52	53667	8.09	224.8	-0.09	0.21	1.67	1.199
Week 3	22-05-2024	10:34:10	17.56	97.4	7.52	53668	8.09	224.2	-0.09	0.2	1.66	1.243
Week 3	22-05-2024	10:34:11	17.56	97.4	7.52	53669	8.09	223.6	-0.08	0.21	1.66	1.286
Week 3	22-05-2024	10:34:12	17.561	97.4	7.51	53670	8.09	223	-0.08	0.22	1.7	1.323
Week 3	22-05-2024	10:34:13	17.561	97.3	7.51	53672	8.09	222.5	-0.08	0.22	1.72	1.362
Week 3	22-05-2024	10:34:14	17.561	97.3	7.51	53673	8.09	222	-0.08	0.22	1.7	1.415
Week 3	22-05-2024	10:34:15	17.561	97.2	7.5	53674	8.09	221.5	-0.08	0.21	1.67	1.441
Week 3	22-05-2024	10:34:16	17.562	97.2	7.5	53674	8.1	221.1	-0.08	0.21	1.67	1.473
Week 3	22-05-2024	10:34:17	17.562	97.2	7.5	53676	8.1	220.7	-0.07	0.22	1.7	1.523
Week 3	22-05-2024	10:34:18	17.562	97.1	7.5	53676	8.1	220.2	-0.07	0.21	1.67	1.559
Week 3	22-05-2024	10:34:19	17.562	97.1	7.49	53677	8.1	219.8	-0.07	0.22	1.71	2.299
Week 3	22-05-2024	10:34:20	17.562	97.1	7.49	53677	8.1	219.3	-0.07	0.22	1.73	2.438
Week 3	22-05-2024	10:34:21	17.562	97	7.49	53677	8.1	218.9	-0.06	0.22	1.71	2.521
Week 3	22-05-2024	10:34:22	17.562	97	7.49	53677	8.1	218.5	-0.06	0.24	1.79	2.656
Week 3	22-05-2024	10:34:23	17.561	97	7.49	53677	8.1	218.1	-0.07	0.24	1.78	2.727
Week 3	22-05-2024	10:34:24	17.561	97	7.48	53678	8.1	217.7	-0.07	0.24	1.78	2.817
Week 3	22-05-2024	10:34:25	17.561	97	7.48	53677	8.1	217.4	-0.07	0.24	1.79	2.863
Week 3	22-05-2024	10:34:26	17.56	96.9	7.48	53678	8.1	217	-0.07	0.25	1.82	2.929
Week 3	22-05-2024	10:34:27	17.56	96.9	7.48	53677	8.11	216.7	-0.08	0.25	1.82	2.988
Week 3	22-05-2024	10:34:28	17.56	96.9	7.48	53678	8.11	216.3	-0.08	0.26	1.86	3.049
Week 3	22-05-2024	10:34:29	17.559	96.9	7.48	53677	8.11	216	-0.08	0.27	1.89	3.113
Week 3	22-05-2024	10:34:30	17.559	96.8	7.47	53677	8.11	215.7	-0.08	0.27	1.9	3.174
Week 3	22-05-2024	10:34:31	17.559	96.8	7.47	53676	8.11	215.4	-0.09	0.27	1.9	3.219
Week 3	22-05-2024	10:34:32	17.558	96.8	7.47	53676	8.11	215.1	-0.09	0.29	1.98	3.258
Week 3	22-05-2024	10:34:33	17.558	96.8	7.47	53676	8.11	214.8	-0.08	0.29	1.96	3.297
Week 3	22-05-2024	10:34:34	17.558	96.8	7.47	53676	8.11	214.5	-0.09	0.29	1.96	3.339
Week 3	22-05-2024	10:34:35	17.558	96.8	7.47	53675	8.11	214.2	-0.09	0.27	1.89	4.271
Week 3	22-05-2024	10:34:36	17.558	96.8	7.47	53675	8.11	213.8	-0.11	0.28	1.93	3.879
Week 3	22-05-2024	10:34:37	17.558	96.8	7.47	53675	8.11	213.6	-0.1	0.27	1.91	4.073
Week 3	22-05-2024	10:34:38	17.559	96.7	7.47	53675	8.11	213.3	-0.1	0.29	1.97	4.56
Week 3	22-05-2024	10:34:39	17.559	96.7	7.46	53675	8.11	213	-0.1	0.28	1.94	4.595
Week 3	22-05-2024	10:34:40	17.559	96.7	7.46	53675	8.11	212.7	-0.1	0.28	1.92	4.618
Week 3	22-05-2024	10:34:41	17.559	96.7	7.46	53675	8.11	212.4	-0.11	0.29	1.95	4.734
Week 3	22-05-2024	10:34:42	17.559	96.7	7.46	53675	8.11	212.1	-0.1	0.29	1.96	4.817
Week 3	22-05-2024	10:34:43	17.559	96.7	7.46	53675	8.11	211.8	-0.1	0.28	1.93	4.907
Week 3	22-05-2024	10:34:44	17.56	96.7	7.46	53675	8.11	211.6	-0.09	0.28	1.93	4.996
Week 3	22-05-2024	10:34:45	17.56	96.7	7.46	53675	8.11	211.3	-0.09	0.29	1.96	5.052
Week 3	22-05-2024	10:34:46	17.56	96.6	7.46	53675	8.11	211	-0.09	0.3	1.99	5.873
Week 3	22-05-2024	10:34:47	17.56	96.6	7.46	53675	8.11	210.8	-0.09	0.3	2.02	5.724
Week 3	22-05-2024	10:34:48	17.56	96.6	7.46	53675	8.11	210.5	-0.1	0.31	2.05	6.114
Week 3	22-05-2024	10:34:49	17.56	96.6	7.45	53675	8.11	210.2	-0.1	0.31	2.06	6.217
Week 3	22-05-2024	10:34:50	17.56	96.6	7.45	53675	8.11	210	-0.1	0.32	2.08	6.251
Week 3	22-05-2024	10:34:51	17.56	96.6	7.45	53675	8.11	209.7	-0.09	0.33	2.12	6.437
Week 3	22-05-2024	10:34:52	17.56	96.6	7.45	53675	8.11	209.5	-0.09	0.33	2.1	6.586

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 3	22-05-2024	10:34:53	17.559	96.5	7.45	53675	8.11	209.2	-0.09	0.32	2.09	6.672
Week 3	22-05-2024	10:34:54	17.559	96.5	7.45	53675	8.11	209	-0.09	0.33	2.12	6.775
Week 3	22-05-2024	10:34:55	17.559	96.5	7.45	53675	8.11	208.8	-0.09	0.35	2.17	6.856
Week 3	22-05-2024	10:34:56	17.559	96.5	7.45	53675	8.11	208.5	-0.09	0.34	2.14	6.942
Week 3	22-05-2024	10:34:57	17.559	96.5	7.45	53675	8.11	208.3	-0.09	0.35	2.17	7.805
Week 3	22-05-2024	10:34:58	17.56	96.5	7.45	53674	8.11	208.1	-0.1	0.34	2.15	7.551
Week 3	22-05-2024	10:34:59	17.56	96.5	7.44	53674	8.11	207.9	-0.1	0.34	2.15	8.065
Week 3	22-05-2024	10:35:00	17.56	96.5	7.44	53674	8.11	207.7	-0.1	0.34	2.16	8.151
Week 3	22-05-2024	10:35:01	17.56	96.5	7.44	53674	8.11	207.5	-0.1	0.35	2.18	8.041
Week 3	22-05-2024	10:35:02	17.56	96.4	7.44	53674	8.11	207.3	-0.09	0.36	2.21	8.09
Week 3	22-05-2024	10:35:03	17.56	96.4	7.44	53674	8.11	207.1	-0.09	0.36	2.21	8.12
Week 3	22-05-2024	10:35:04	17.561	96.4	7.44	53674	8.11	206.9	-0.09	0.36	2.22	8.174
Week 3	22-05-2024	10:35:05	17.561	96.4	7.44	53673	8.11	206.7	-0.09	0.35	2.2	8.221
Week 3	22-05-2024	10:35:06	17.561	96.4	7.44	53674	8.11	206.5	-0.09	0.33	2.12	8.25
Week 3	22-05-2024	10:35:07	17.561	96.4	7.44	53673	8.11	206.2	-0.09	0.34	2.15	8.298
Week 3	22-05-2024	10:35:08	17.561	96.4	7.44	53673	8.12	205.9	-0.09	0.34	2.15	8.343
Week 3	22-05-2024	10:35:09	17.561	96.4	7.44	53673	8.12	205.6	-0.08	0.33	2.13	8.416
Week 3	22-05-2024	10:35:10	17.561	96.4	7.44	53673	8.12	205.3	-0.08	0.33	2.1	8.479
Week 3	22-05-2024	10:35:11	17.561	96.4	7.44	53673	8.12	204.9	-0.08	0.33	2.11	9.273
Week 3	22-05-2024	10:35:12	17.561	96.4	7.44	53673	8.13	204.5	-0.08	0.32	2.07	9.333
Week 3	22-05-2024	10:35:13	17.56	96.3	7.44	53673	8.13	204.2	-0.09	0.31	2.03	9.472
Week 3	22-05-2024	10:35:14	17.56	96.3	7.43	53673	8.13	203.8	-0.08	0.3	2.02	9.649
Week 3	22-05-2024	10:35:15	17.56	96.3	7.43	53673	8.14	203.4	-0.08	0.3	1.99	9.765
Week 3	22-05-2024	10:35:16	17.559	96.3	7.43	53672	8.14	203	-0.09	0.3	1.99	9.809
Week 3	22-05-2024	10:35:17	17.559	96.3	7.43	53672	8.15	202.7	-0.09	0.31	2.03	9.875
Week 3	22-05-2024	10:35:18	17.558	96.3	7.43	53672	8.15	202.3	-0.1	0.31	2.05	9.922
Week 3	22-05-2024	10:35:19	17.558	96.3	7.43	53672	8.15	201.9	-0.09	0.32	2.07	10.01
Week 3	22-05-2024	10:35:20	17.558	96.3	7.43	53672	8.16	201.5	-0.09	0.33	2.1	10.08
Week 3	22-05-2024	10:35:21	17.557	96.3	7.43	53672	8.16	201.1	-0.09	0.35	2.19	10.868
Week 3	22-05-2024	10:35:22	17.556	96.3	7.43	53672	8.17	200.7	-0.1	0.35	2.17	10.732
Week 3	22-05-2024	10:35:23	17.556	96.3	7.43	53672	8.17	200.3	-0.1	0.35	2.19	11.138
Week 3	22-05-2024	10:35:24	17.555	96.2	7.43	53672	8.17	199.9	-0.1	0.37	2.27	11.204
Week 3	22-05-2024	10:35:25	17.555	96.2	7.43	53673	8.18	199.5	-0.11	0.38	2.28	11.211
Week 3	22-05-2024	10:35:26	17.555	96.2	7.43	53673	8.18	199.1	-0.11	0.39	2.32	11.305
Week 3	22-05-2024	10:35:27	17.554	96.2	7.43	53673	8.19	198.7	-0.11	0.4	2.37	11.402
Week 3	22-05-2024	10:35:28	17.554	96.2	7.43	53673	8.19	198.3	-0.1	0.39	2.34	11.503
Week 3	22-05-2024	10:35:29	17.554	96.2	7.42	53673	8.19	198	-0.1	0.39	2.33	11.566
Week 3	22-05-2024	10:35:30	17.554	96.2	7.42	53674	8.2	197.7	-0.11	0.38	2.31	11.614
Week 3	22-05-2024	10:35:31	17.553	96.2	7.42	53673	8.2	197.5	-0.11	0.38	2.31	11.839
Week 3	22-05-2024	10:35:32	17.553	96.1	7.42	53674	8.2	197.3	-0.1	0.37	2.27	12.026
Week 3	22-05-2024	10:35:33	17.552	96.1	7.42	53674	8.2	197.1	-0.11	0.38	2.29	12.46
Week 3	22-05-2024	10:35:34	17.552	96.1	7.42	53674	8.2	196.9	-0.1	0.38	2.28	12.184
Week 3	22-05-2024	10:35:35	17.552	96.1	7.42	53674	8.2	196.7	-0.1	0.37	2.28	12.254
Week 3	22-05-2024	10:35:36	17.552	96.1	7.42	53674	8.2	196.5	-0.09	0.38	2.31	12.401
Week 3	22-05-2024	10:35:37	17.552	96.1	7.42	53674	8.2	196.4	-0.09	0.38	2.29	12.445
Week 3	22-05-2024	10:35:38	17.551	96.1	7.42	53674	8.2	196.2	-0.08	0.37	2.26	12.489
Week 3	22-05-2024	10:35:39	17.551	96.1	7.41	53674	8.2	196	-0.09	0.39	2.34	12.529
Week 3	22-05-2024	10:35:40	17.551	96	7.41	53674	8.2	195.9	-0.09	0.39	2.32	12.567
Week 3	22-05-2024	10:35:41	17.55	96	7.41	53674	8.2	195.7	-0.09	0.4	2.35	12.606
Week 3	22-05-2024	10:35:42	17.55	96	7.41	53674	8.2	195.6	-0.08	0.38	2.31	12.664
Week 3	22-05-2024	10:35:43	17.55	96	7.41	53674	8.2	195.4	-0.07	0.39	2.31	12.719
Week 3	22-05-2024	10:35:44	17.55	96	7.41	53673	8.2	195.2	-0.07	0.37	2.27	12.788
Week 3	22-05-2024	10:35:45	17.549	96	7.41	53673	8.2	195.1	-0.07	0.37	2.28	13.642
Week 3	22-05-2024	10:35:46	17.549	96	7.41	53673	8.2	194.9	-0.07	0.37	2.25	13.989
Week 3	22-05-2024	10:35:47	17.549	96	7.41	53673	8.2	194.8	-0.07	0.37	2.25	14.167
Week 3	22-05-2024	10:35:48	17.549	96	7.41	53673	8.2	194.6	-0.07	0.37	2.25	14.371
Week 3	22-05-2024	10:35:49	17.549	95.9	7.41	53673	8.2	194.5	-0.08	0.39	2.31	14.573
Week 3	22-05-2024	10:35:50	17.549	95.9	7.41	53673	8.2	194.3	-0.08	0.38	2.3	14.767
Week 3	22-05-2024	10:35:51	17.549	95.9	7.4	53673	8.2	194.2	-0.08	0.39	2.31	14.838
Week 3	22-05-2024	10:35:52	17.549	95.9	7.4	53673	8.2	194.1	-0.08	0.38	2.28	14.918
Week 3	22-05-2024	10:35:53	17.549	95.9	7.4	53673	8.2	193.9	-0.08	0.39	2.33	15.026
Week 3	22-05-2024	10:35:54	17.549	95.9	7.4	53673	8.2	193.8	-0.07	0.39	2.33	15.108
Week 3	22-05-2024	10:35:55	17.549	95.9	7.4	53673	8.2	193.7	-0.07	0.4	2.38	15.989
Week 3	22-05-2024	10:35:56	17.549	95.9	7.4	53674	8.2	193.5	-0.07	0.4	2.38	16.143
Week 3	22-05-2024	10:35:57	17.549	95.8	7.4	53674	8.2	193.4	-0.08	0.41	2.42	16.292
Week 3	22-05-2024	10:35:58	17.549	95.8	7.4	53674	8.2	193.3	-0.08	0.41	2.42	16.373
Week 3	22-05-2024	10:35:59	17.549	95.8	7.4	53675	8.2	193.1	-0.08	0.43	2.46	16.523
Week 3	22-05-2024	10:36:00	17.549	95.8	7.4	53674	8.21	193	-0.08	0.42	2.44	16.787
Week 3	22-05-2024	10:36:01	17.549	95.8	7.39	53674	8.21	192.9	-0.09	0.42	2.45	16.904
Week 3	22-05-2024	10:36:02	17.549	95.8	7.39	53674	8.21	192.8	-0.09	0.41	2.42	17.004
Week 3	22-05-2024	10:36:03	17.549	95.8	7.39	53675	8.21	192.6	-0.08	0.43	2.47	17.31
Week 3	22-05-2024	10:36:04	17.549	95.8	7.39	53675	8.21	192.5	-0.07	0.43	2.49	17.708
Week 3	22-05-2024	10:36:05	17.549	95.7	7.39	53675	8.21	192.4	-0.06	0.44	2.51	17.631

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 3	22-05-2024	10:36:06	17.549	95.7	7.39	53675	8.21	192.3	-0.07	0.46	2.58	17.624
Week 3	22-05-2024	10:36:07	17.549	95.7	7.39	53675	8.21	192.2	-0.07	0.46	2.6	17.736
Week 3	22-05-2024	10:36:08	17.549	95.7	7.39	53675	8.21	192	-0.06	0.46	2.58	17.949
Week 3	22-05-2024	10:36:09	17.549	95.7	7.39	53675	8.21	191.9	-0.07	0.45	2.55	18.168
Week 3	22-05-2024	10:36:10	17.549	95.7	7.39	53675	8.21	191.8	-0.06	0.44	2.53	18.296
Week 3	22-05-2024	10:36:11	17.549	95.7	7.39	53675	8.21	191.7	-0.06	0.44	2.49	18.4
Week 3	22-05-2024	10:36:12	17.549	95.7	7.39	53675	8.21	191.5	-0.06	0.44	2.49	18.493
Week 3	22-05-2024	10:36:13	17.549	95.7	7.39	53676	8.21	191.4	-0.07	0.44	2.51	19.316
Week 3	22-05-2024	10:36:14	17.549	95.7	7.38	53676	8.21	191.3	-0.08	0.44	2.51	19.283
Week 3	22-05-2024	10:36:15	17.549	95.7	7.38	53676	8.21	191.2	-0.08	0.43	2.49	19.663
Week 3	22-05-2024	10:36:16	17.549	95.7	7.38	53676	8.21	191.1	-0.07	0.42	2.46	19.693
Week 3	22-05-2024	10:36:17	17.549	95.6	7.38	53676	8.21	191	-0.07	0.41	2.41	19.713
Week 3	22-05-2024	10:36:18	17.549	95.6	7.38	53676	8.21	190.9	-0.07	0.41	2.41	20.026
Week 3	22-05-2024	10:36:19	17.549	95.6	7.38	53676	8.21	190.8	-0.08	0.41	2.4	20.226
Week 3	22-05-2024	10:36:20	17.549	95.6	7.38	53676	8.21	190.7	-0.09	0.41	2.4	20.32
Week 3	22-05-2024	10:36:21	17.549	95.6	7.38	53676	8.21	190.6	-0.06	0.43	2.46	20.389
Week 3	22-05-2024	10:36:22	17.549	95.6	7.38	53677	8.21	190.5	-0.06	0.42	2.42	20.45
Week 3	22-05-2024	10:36:23	17.549	95.6	7.38	53677	8.21	190.4	-0.09	0.41	2.41	21.13
Week 3	22-05-2024	10:36:24	17.548	95.6	7.38	53677	8.21	190.3	-0.09	0.42	2.43	21.534
Week 3	22-05-2024	10:36:25	17.548	95.6	7.38	53677	8.21	190.2	-0.09	0.41	2.42	21.926
Week 3	22-05-2024	10:36:26	17.548	95.6	7.38	53677	8.21	190.1	-0.1	0.42	2.43	21.939
Week 3	22-05-2024	10:36:27	17.547	95.5	7.38	53677	8.21	190	-0.09	0.42	2.45	22.07
Week 3	22-05-2024	10:36:28	17.547	95.5	7.37	53677	8.21	189.9	-0.09	0.42	2.43	22.282
Week 3	22-05-2024	10:36:29	17.546	95.5	7.37	53677	8.21	189.8	-0.08	0.4	2.37	22.42
Week 3	22-05-2024	10:36:30	17.546	95.5	7.37	53677	8.21	189.7	-0.09	0.39	2.35	23.153
Week 3	22-05-2024	10:36:31	17.546	95.5	7.37	53678	8.21	189.6	-0.09	0.39	2.33	23.047
Week 3	22-05-2024	10:36:32	17.546	95.5	7.37	53678	8.21	189.5	-0.08	0.37	2.27	23.589
Week 3	22-05-2024	10:36:33	17.545	95.5	7.37	53678	8.21	189.4	-0.09	0.36	2.22	23.622
Week 3	22-05-2024	10:36:34	17.545	95.4	7.37	53678	8.21	189.3	-0.09	0.35	2.18	23.636
Week 3	22-05-2024	10:36:35	17.545	95.4	7.37	53678	8.21	189.2	-0.09	0.35	2.2	23.829
Week 3	22-05-2024	10:36:36	17.545	95.4	7.37	53679	8.21	189.1	-0.11	0.34	2.17	23.947
Week 3	22-05-2024	10:36:37	17.545	95.4	7.36	53679	8.21	189	-0.11	0.34	2.15	24.035
Week 3	22-05-2024	10:36:38	17.545	95.4	7.36	53679	8.21	188.9	-0.1	0.34	2.15	24.142
Week 3	22-05-2024	10:36:39	17.545	95.4	7.36	53679	8.21	188.8	-0.1	0.34	2.14	24.259
Week 3	22-05-2024	10:36:40	17.545	95.4	7.36	53680	8.21	188.7	-0.1	0.36	2.22	24.371
Week 3	22-05-2024	10:36:41	17.545	95.3	7.36	53680	8.21	188.6	-0.08	0.36	2.22	25.362
Week 3	22-05-2024	10:36:42	17.545	95.3	7.36	53680	8.21	188.6	-0.08	0.35	2.18	25.262
Week 3	22-05-2024	10:36:43	17.545	95.3	7.36	53680	8.21	188.5	-0.01	0.35	2.18	25.332
Week 3	22-05-2024	10:36:44	17.545	95.3	7.36	53681	8.21	188.4	0.11	0.35	2.2	25.347
Week 3	22-05-2024	10:36:45	17.546	95.3	7.36	53681	8.21	188.3	0.36	0.36	2.21	25.341
Week 3	22-05-2024	10:36:46	17.546	95.3	7.36	53681	8.21	188.2	0.86	0.36	2.24	25.339
Week 3	22-05-2024	10:36:47	17.546	95.3	7.36	53681	8.21	188.1	1.15	0.41	2.41	25.353
Week 3	22-05-2024	10:36:48	17.546	95.3	7.36	53681	8.21	188	1.66	0.46	2.58	25.363
Week 3	22-05-2024	10:36:49	17.547	95.3	7.36	53681	8.21	188	2.21	0.54	2.87	25.384
Week 3	22-05-2024	10:36:50	17.547	95.3	7.36	53681	8.21	187.9	2.44	0.64	3.23	25.404
Week 3	22-05-2024	10:36:51	17.547	95.3	7.36	53680	8.21	187.8	2.63	0.7	3.47	25.419
Week 3	22-05-2024	10:36:52	17.547	95.3	7.36	53681	8.21	187.7	3.15	0.78	3.75	25.429
Week 3	22-05-2024	10:36:53	17.548	95.3	7.36	53680	8.21	187.6	4.6	0.88	4.12	25.432
Week 3	22-05-2024	10:36:54	17.548	95.3	7.36	53680	8.21	187.6	6.51	1.01	4.59	25.431
Week 3	22-05-2024	10:36:55	17.548	95.3	7.36	53679	8.21	187.5	7.15	0.56	2.96	25.424
Week 3	22-05-2024	10:36:56	17.548	95.3	7.36	53678	8.21	187.4	7.17	0.45	2.54	25.403
Week 3	22-05-2024	10:36:57	17.548	95.3	7.36	53678	8.21	187.3	7.18	0.39	2.33	24.148
Week 3	22-05-2024	10:36:58	17.548	95.3	7.36	53678	8.21	187.2	6.98	0.49	2.7	23.877
Week 3	22-05-2024	10:36:59	17.548	95.3	7.35	53678	8.21	187.1	6.79	0.49	2.68	23.316
Week 3	22-05-2024	10:37:00	17.547	95.3	7.36	53678	8.21	187	6.4	0.39	2.35	23.209
Week 3	22-05-2024	10:37:01	17.547	95.3	7.36	53678	8.21	187	5.86	0.34	2.15	23.061
Week 3	22-05-2024	10:37:02	17.547	95.3	7.36	53678	8.21	186.9	5.46	0.33	2.1	22.985
Week 3	22-05-2024	10:37:03	17.547	95.3	7.36	53678	8.21	186.8	4.44	0.32	2.09	22.836
Week 3	22-05-2024	10:37:04	17.547	95.3	7.36	53678	8.21	186.7	4.19	0.33	2.11	22.7
Week 3	22-05-2024	10:37:05	17.546	95.3	7.36	53677	8.21	186.6	4	0.35	2.18	21.717
Week 3	22-05-2024	10:37:06	17.546	95.3	7.36	53677	8.21	186.6	3.79	0.36	2.24	21.332
Week 3	22-05-2024	10:37:07	17.546	95.3	7.36	53677	8.21	186.5	2.81	0.38	2.28	21.185
Week 3	22-05-2024	10:37:08	17.546	95.3	7.36	53678	8.21	186.4	1.27	0.38	2.3	21.18
Week 3	22-05-2024	10:37:09	17.546	95.3	7.36	53678	8.21	186.3	0.23	0.39	2.33	21.084
Week 3	22-05-2024	10:37:10	17.546	95.3	7.36	53678	8.21	186.2	-0.05	0.39	2.33	20.903
Week 3	22-05-2024	10:37:11	17.546	95.4	7.36	53678	8.21	186.1	-0.05	0.41	2.41	20.805
Week 3	22-05-2024	10:37:12	17.546	95.4	7.36	53677	8.21	186.1	-0.06	0.42	2.46	20.732
Week 3	22-05-2024	10:37:13	17.546	95.4	7.36	53677	8.21	186	-0.06	0.42	2.43	19.716
Week 3	22-05-2024	10:37:14	17.547	95.4	7.36	53677	8.21	185.9	-0.06	0.43	2.49	19.54
Week 3	22-05-2024	10:37:15	17.547	95.4	7.36	53677	8.21	185.8	-0.07	0.43	2.49	19.253
Week 3	22-05-2024	10:37:16	17.547	95.4	7.37	53677	8.21	185.7	-0.08	0.44	2.52	19.334
Week 3	22-05-2024	10:37:17	17.547	95.4	7.37	53676	8.21	185.6	-0.08	0.45	2.53	19.517
Week 3	22-05-2024	10:37:18	17.547	95.4	7.37	53676	8.21	185.6	-0.09	0.45	2.54	19.437

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 3	22-05-2024	10:37:19	17.547	95.4	7.37	53676	8.21	185.5	-0.1	0.45	2.54	19.287
Week 3	22-05-2024	10:37:20	17.547	95.4	7.37	53676	8.21	185.4	-0.1	0.44	2.52	18.129
Week 3	22-05-2024	10:37:21	17.548	95.5	7.37	53676	8.21	185.3	-0.1	0.46	2.58	18.153
Week 3	22-05-2024	10:37:22	17.548	95.5	7.37	53676	8.21	185.2	-0.11	0.46	2.59	17.789
Week 3	22-05-2024	10:37:23	17.548	95.5	7.37	53676	8.21	185.2	-0.11	0.47	2.61	17.734
Week 3	22-05-2024	10:37:24	17.548	95.5	7.37	53676	8.21	185.1	-0.12	0.47	2.61	17.688
Week 3	22-05-2024	10:37:25	17.548	95.5	7.37	53676	8.21	185	-0.12	0.47	2.62	17.546
Week 3	22-05-2024	10:37:26	17.549	95.5	7.37	53675	8.21	184.9	-0.12	0.47	2.64	17.467
Week 3	22-05-2024	10:37:27	17.549	95.5	7.37	53675	8.21	184.8	-0.12	0.46	2.59	17.392
Week 3	22-05-2024	10:37:28	17.549	95.5	7.37	53675	8.21	184.8	-0.13	0.45	2.56	17.287
Week 3	22-05-2024	10:37:29	17.549	95.5	7.37	53675	8.21	184.7	-0.13	0.45	2.53	17.213
Week 3	22-05-2024	10:37:30	17.55	95.6	7.38	53675	8.21	184.6	-0.12	0.45	2.56	17.152
Week 3	22-05-2024	10:37:31	17.55	95.6	7.38	53675	8.21	184.6	-0.12	0.46	2.59	17.087
Week 3	22-05-2024	10:37:32	17.55	95.6	7.38	53674	8.21	184.5	-0.12	0.46	2.58	16.127
Week 3	22-05-2024	10:37:33	17.55	95.6	7.38	53674	8.22	184.4	-0.12	0.46	2.58	15.941
Week 3	22-05-2024	10:37:34	17.551	95.6	7.38	53674	8.22	184.3	-0.12	0.45	2.57	15.657
Week 3	22-05-2024	10:37:35	17.551	95.6	7.38	53674	8.22	184.3	-0.12	0.48	2.64	15.746
Week 3	22-05-2024	10:37:36	17.552	95.6	7.38	53673	8.22	184.2	-0.12	0.47	2.63	15.67
Week 3	22-05-2024	10:37:37	17.552	95.6	7.38	53673	8.22	184.1	-0.11	0.48	2.64	15.522
Week 3	22-05-2024	10:37:38	17.552	95.7	7.38	53673	8.22	184.1	-0.11	0.49	2.68	15.423
Week 3	22-05-2024	10:37:39	17.553	95.7	7.39	53673	8.22	184	-0.1	0.49	2.69	15.326
Week 3	22-05-2024	10:37:40	17.554	95.7	7.39	53673	8.22	183.9	-0.1	0.49	2.69	15.252
Week 3	22-05-2024	10:37:41	17.555	95.7	7.39	53672	8.22	183.8	-0.11	0.49	2.69	14.216
Week 3	22-05-2024	10:37:42	17.555	95.7	7.39	53672	8.22	183.8	-0.1	0.49	2.7	14.494
Week 3	22-05-2024	10:37:43	17.556	95.7	7.39	53672	8.22	183.7	-0.11	0.48	2.67	14.171
Week 3	22-05-2024	10:37:44	17.556	95.8	7.39	53671	8.22	183.7	-0.11	0.49	2.68	14.269
Week 3	22-05-2024	10:37:45	17.557	95.8	7.39	53671	8.22	183.6	-0.09	0.49	2.68	14.293
Week 3	22-05-2024	10:37:46	17.557	95.8	7.39	53671	8.22	183.5	-0.09	0.48	2.66	14.17
Week 3	22-05-2024	10:37:47	17.557	95.8	7.39	53671	8.22	183.5	-0.09	0.47	2.61	14.017
Week 3	22-05-2024	10:37:48	17.557	95.8	7.4	53671	8.22	183.4	-0.08	0.48	2.65	13.913
Week 3	22-05-2024	10:37:49	17.558	95.8	7.4	53671	8.22	183.3	-0.08	0.47	2.61	13.824
Week 3	22-05-2024	10:37:50	17.558	95.9	7.4	53671	8.22	183.3	-0.08	0.46	2.6	13.732
Week 3	22-05-2024	10:37:51	17.558	95.9	7.4	53671	8.22	183.2	-0.08	0.47	2.64	13.663
Week 3	22-05-2024	10:37:52	17.559	95.9	7.4	53671	8.22	183.2	-0.09	0.47	2.63	12.629
Week 3	22-05-2024	10:37:53	17.559	95.9	7.4	53671	8.22	183.1	-0.09	0.46	2.59	12.799
Week 3	22-05-2024	10:37:54	17.559	95.9	7.4	53671	8.22	183	-0.09	0.47	2.64	12.418
Week 3	22-05-2024	10:37:55	17.559	95.9	7.4	53670	8.22	183	-0.09	0.48	2.66	12.328
Week 3	22-05-2024	10:37:56	17.559	95.9	7.4	53670	8.22	182.9	-0.09	0.47	2.64	12.392
Week 3	22-05-2024	10:37:57	17.56	95.9	7.4	53670	8.22	182.9	-0.09	0.47	2.61	12.281
Week 3	22-05-2024	10:37:58	17.56	96	7.41	53670	8.22	182.8	-0.08	0.47	2.61	12.169
Week 3	22-05-2024	10:37:59	17.561	96	7.41	53670	8.22	182.7	-0.09	0.44	2.49	12.066
Week 3	22-05-2024	10:38:00	17.561	96	7.41	53670	8.22	182.7	-0.09	0.43	2.47	11.164
Week 3	22-05-2024	10:38:01	17.561	96	7.41	53670	8.22	182.6	-0.1	0.43	2.49	11.263
Week 3	22-05-2024	10:38:02	17.562	96	7.41	53670	8.22	182.6	-0.1	0.42	2.45	10.814
Week 3	22-05-2024	10:38:03	17.562	96	7.41	53669	8.22	182.5	-0.1	0.41	2.4	10.775
Week 3	22-05-2024	10:38:04	17.562	96	7.41	53669	8.22	182.4	-0.1	0.41	2.39	10.711
Week 3	22-05-2024	10:38:05	17.562	96	7.41	53669	8.22	182.4	-0.11	0.39	2.33	10.589
Week 3	22-05-2024	10:38:06	17.562	96.1	7.41	53669	8.22	182.3	-0.11	0.38	2.31	10.387
Week 3	22-05-2024	10:38:07	17.562	96.1	7.41	53669	8.22	182.3	-0.11	0.37	2.27	10.299
Week 3	22-05-2024	10:38:08	17.562	96.1	7.42	53669	8.22	182.2	-0.11	0.37	2.27	9.368
Week 3	22-05-2024	10:38:09	17.562	96.1	7.42	53669	8.22	182.2	-0.12	0.37	2.26	9.563
Week 3	22-05-2024	10:38:10	17.562	96.1	7.42	53669	8.22	182.1	-0.12	0.38	2.29	9.132
Week 3	22-05-2024	10:38:11	17.562	96.1	7.42	53669	8.22	182.1	-0.12	0.39	2.32	9.003
Week 3	22-05-2024	10:38:12	17.561	96.1	7.42	53668	8.22	182	-0.13	0.38	2.31	9.033
Week 3	22-05-2024	10:38:13	17.561	96.1	7.42	53668	8.22	182	-0.12	0.39	2.32	8.93
Week 3	22-05-2024	10:38:14	17.56	96.1	7.42	53668	8.22	181.9	-0.12	0.38	2.3	8.814
Week 3	22-05-2024	10:38:15	17.56	96.2	7.42	53668	8.22	181.9	-0.12	0.39	2.32	7.94
Week 3	22-05-2024	10:38:16	17.56	96.2	7.42	53667	8.22	181.8	-0.11	0.38	2.3	8.074
Week 3	22-05-2024	10:38:17	17.56	96.2	7.42	53668	8.22	181.7	-0.11	0.36	2.22	7.723
Week 3	22-05-2024	10:38:18	17.56	96.2	7.42	53667	8.22	181.7	-0.11	0.36	2.23	7.379
Week 3	22-05-2024	10:38:19	17.56	96.2	7.42	53667	8.22	181.7	-0.1	0.35	2.17	7.391
Week 3	22-05-2024	10:38:20	17.56	96.2	7.42	53667	8.22	181.6	-0.09	0.35	2.17	7.308
Week 3	22-05-2024	10:38:21	17.559	96.2	7.42	53666	8.22	181.6	-0.09	0.35	2.18	7.215
Week 3	22-05-2024	10:38:22	17.56	96.2	7.43	53666	8.22	181.5	-0.07	0.35	2.17	7.122
Week 3	22-05-2024	10:38:23	17.56	96.2	7.43	53666	8.22	181.5	-0.07	0.34	2.14	7
Week 3	22-05-2024	10:38:24	17.56	96.2	7.43	53666	8.22	181.4	-0.07	0.34	2.14	6.926
Week 3	22-05-2024	10:38:25	17.56	96.2	7.43	53666	8.22	181.3	-0.07	0.34	2.16	5.963
Week 3	22-05-2024	10:38:26	17.561	96.2	7.43	53666	8.22	181.3	-0.06	0.34	2.13	6.101
Week 3	22-05-2024	10:38:27	17.561	96.3	7.43	53666	8.22	181.3	-0.07	0.33	2.13	5.535
Week 3	22-05-2024	10:38:28	17.562	96.3	7.43	53665	8.22	181.2	-0.06	0.35	2.17	5.399
Week 3	22-05-2024	10:38:29	17.562	96.3	7.43	53664	8.22	181.2	-0.06	0.33	2.12	5.405
Week 3	22-05-2024	10:38:30	17.562	96.3	7.43	53664	8.22	181.1	-0.07	0.34	2.15	5.264
Week 3	22-05-2024	10:38:31	17.562	96.3	7.43	53664	8.22	181.1	-0.07	0.34	2.15	5.147

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 3	22-05-2024	10:38:32	17.562	96.3	7.43	53664	8.22	181	-0.08	0.33	2.11	5.037
Week 3	22-05-2024	10:38:33	17.563	96.3	7.43	53663	8.22	181	-0.08	0.32	2.08	4.909
Week 3	22-05-2024	10:38:34	17.563	96.3	7.43	53663	8.22	181	-0.09	0.31	2.04	3.873
Week 3	22-05-2024	10:38:35	17.563	96.3	7.43	53663	8.22	180.9	-0.09	0.3	2.02	3.691
Week 3	22-05-2024	10:38:36	17.563	96.3	7.43	53663	8.22	180.9	-0.09	0.31	2.04	3.397
Week 3	22-05-2024	10:38:37	17.563	96.3	7.44	53662	8.22	180.8	-0.09	0.3	2.01	3.277
Week 3	22-05-2024	10:38:38	17.563	96.4	7.44	53662	8.22	180.8	-0.08	0.32	2.06	3.072
Week 3	22-05-2024	10:38:39	17.563	96.4	7.44	53661	8.22	180.8	-0.07	0.31	2.05	2.962
Week 3	22-05-2024	10:38:40	17.563	96.4	7.44	53661	8.22	180.7	-0.08	0.32	2.08	2.829
Week 3	22-05-2024	10:38:41	17.563	96.4	7.44	53661	8.22	180.7	-0.07	0.32	2.08	2.727
Week 3	22-05-2024	10:38:42	17.563	96.4	7.44	53661	8.22	180.6	-0.07	0.31	2.06	2.604
Week 3	22-05-2024	10:38:43	17.563	96.4	7.44	53661	8.22	180.6	-0.07	0.33	2.1	1.681
Week 3	22-05-2024	10:38:44	17.564	96.4	7.44	53661	8.22	180.6	-0.07	0.32	2.09	1.411
Week 3	22-05-2024	10:38:45	17.564	96.4	7.44	53660	8.22	180.5	-0.07	0.31	2.05	1.159
Week 3	22-05-2024	10:38:46	17.565	96.5	7.44	53660	8.22	180.5	-0.07	0.31	2.03	1.063
Week 3	22-05-2024	10:38:47	17.565	96.5	7.45	53659	8.22	180.5	-0.06	0.3	2	0.892
Week 3	22-05-2024	10:38:48	17.566	96.5	7.45	53659	8.22	180.5	-0.06	0.29	1.97	0.748
Week 3	22-05-2024	10:38:49	17.566	96.5	7.45	53659	8.22	180.4	-0.06	0.27	1.91	0.647
Week 3	22-05-2024	10:38:50	17.567	96.5	7.45	53658	8.22	180.4	-0.05	0.26	1.87	0.529
Week 4	27-05-2024	10:26:45	17.353	100.6	9.67	52693	7.74	182.5	4.72	0.5	2.74	0.09
Week 4	27-05-2024	10:26:46	17.398	100.6	7.83	53365	7.91	179	4.39	0.48	2.66	0.093
Week 4	27-05-2024	10:26:47	17.401	100.3	7.78	53455	7.94	176.8	4.02	0.44	2.52	0.095
Week 4	27-05-2024	10:26:48	17.406	100	7.75	53495	7.97	174.3	3.66	0.4	2.37	0.099
Week 4	27-05-2024	10:26:49	17.413	99.8	7.73	53506	7.99	172.4	3.27	0.36	2.22	0.103
Week 4	27-05-2024	10:26:50	17.418	99.6	7.72	53536	8.01	170.9	2.91	0.33	2.13	0.109
Week 4	27-05-2024	10:26:51	17.422	99.5	7.7	53548	8.02	169.6	2.57	0.22	1.71	0.118
Week 4	27-05-2024	10:26:52	17.424	99.3	7.68	53556	8.03	168.6	2.22	0.12	1.35	0.131
Week 4	27-05-2024	10:26:53	17.427	99.1	7.67	53562	8.04	167.6	1.86	0.1	1.26	0.144
Week 4	27-05-2024	10:26:54	17.429	98.9	7.66	53568	8.05	166.7	1.46	0.05	1.1	1.08
Week 4	27-05-2024	10:26:55	17.431	98.8	7.65	53574	8.05	165.9	1.1	0.03	1.03	1.145
Week 4	27-05-2024	10:26:56	17.433	98.6	7.63	53574	8.06	157.9	0.75	0.04	1.06	1.31
Week 4	27-05-2024	10:26:57	17.434	98.5	7.62	53580	8.06	157	0.41	0.05	1.09	1.22
Week 4	27-05-2024	10:26:58	17.436	98.3	7.61	53587	8.06	156.2	0	0.06	1.14	1.246
Week 4	27-05-2024	10:26:59	17.437	98.2	7.6	53592	8.07	155.5	-0.04	0.06	1.12	1.303
Week 4	27-05-2024	10:27:00	17.44	97.9	7.57	53594	8.07	155.3	-0.06	0.06	1.13	1.381
Week 4	27-05-2024	10:27:01	17.444	97.6	7.55	53600	8.07	154.9	-0.06	0.05	1.09	1.527
Week 4	27-05-2024	10:27:02	17.446	97.3	7.53	53611	8.07	154.5	-0.07	0.06	1.13	2.311
Week 4	27-05-2024	10:27:03	17.448	97.1	7.51	53618	8.07	154.2	-0.06	0.06	1.14	2.353
Week 4	27-05-2024	10:27:04	17.45	96.8	7.49	53626	8.08	153.9	-0.06	0.06	1.14	2.522
Week 4	27-05-2024	10:27:05	17.451	96.6	7.47	53633	8.08	153.5	-0.06	0.08	1.19	2.392
Week 4	27-05-2024	10:27:06	17.452	96.3	7.45	53639	8.08	153.3	-0.06	0.09	1.23	2.411
Week 4	27-05-2024	10:27:07	17.453	96.1	7.44	53645	8.08	153	-0.06	0.09	1.23	2.434
Week 4	27-05-2024	10:27:08	17.454	95.9	7.42	53650	8.08	152.7	-0.06	0.09	1.26	2.455
Week 4	27-05-2024	10:27:09	17.455	95.7	7.4	53655	8.08	152.5	-0.06	0.1	1.29	2.552
Week 4	27-05-2024	10:27:10	17.456	95.6	7.39	53658	8.09	152.2	-0.06	0.12	1.36	3.447
Week 4	27-05-2024	10:27:11	17.457	95.4	7.38	53661	8.09	152	-0.07	0.13	1.4	3.66
Week 4	27-05-2024	10:27:12	17.458	95.2	7.36	53663	8.1	151.7	-0.06	0.16	1.48	3.694
Week 4	27-05-2024	10:27:13	17.459	95.1	7.35	53665	8.1	151.5	-0.06	0.14	1.43	3.678
Week 4	27-05-2024	10:27:14	17.46	94.9	7.34	53666	8.1	151.3	-0.06	0.15	1.45	3.693
Week 4	27-05-2024	10:27:15	17.46	94.8	7.33	53667	8.1	151.1	-0.06	0.13	1.41	3.696
Week 4	27-05-2024	10:27:16	17.46	94.7	7.32	53668	8.1	150.8	-0.06	0.14	1.42	3.691
Week 4	27-05-2024	10:27:17	17.461	94.6	7.31	53669	8.1	150.6	-0.06	0.14	1.44	3.68
Week 4	27-05-2024	10:27:18	17.461	94.5	7.3	53670	8.1	150.4	-0.06	0.14	1.41	3.669
Week 4	27-05-2024	10:27:19	17.462	94.4	7.3	53670	8.11	150.2	-0.06	0.13	1.4	3.664
Week 4	27-05-2024	10:27:20	17.462	94.3	7.29	53670	8.11	150	-0.07	0.11	1.32	3.659
Week 4	27-05-2024	10:27:21	17.462	94.2	7.28	53670	8.11	149.8	-0.08	0.1	1.28	3.672
Week 4	27-05-2024	10:27:22	17.463	94.1	7.28	53671	8.11	149.6	-0.08	0.11	1.31	3.721
Week 4	27-05-2024	10:27:23	17.463	94	7.27	53671	8.11	149.2	-0.07	0.09	1.25	3.78
Week 4	27-05-2024	10:27:24	17.463	94	7.26	53671	8.11	148.7	-0.07	0.1	1.28	3.834
Week 4	27-05-2024	10:27:25	17.463	93.9	7.26	53671	8.11	148.3	-0.07	0.09	1.26	4.771
Week 4	27-05-2024	10:27:26	17.463	93.8	7.25	53672	8.11	148	-0.08	0.09	1.26	5.006
Week 4	27-05-2024	10:27:27	17.463	93.8	7.25	53673	8.11	147.5	-0.08	0.1	1.26	5.081
Week 4	27-05-2024	10:27:28	17.463	93.7	7.24	53673	8.11	147.2	-0.08	0.08	1.21	5.108
Week 4	27-05-2024	10:27:29	17.463	93.6	7.24	53674	8.11	146.9	-0.08	0.09	1.24	5.132
Week 4	27-05-2024	10:27:30	17.463	93.6	7.23	53674	8.11	146.5	-0.08	0.1	1.26	5.193
Week 4	27-05-2024	10:27:31	17.464	93.5	7.23	53674	8.11	146.2	-0.08	0.09	1.26	5.255
Week 4	27-05-2024	10:27:32	17.464	93.4	7.23	53675	8.11	145.9	-0.08	0.08	1.22	6.092
Week 4	27-05-2024	10:27:33	17.464	93.4	7.22	53675	8.11	145.6	-0.08	0.07	1.18	6.268
Week 4	27-05-2024	10:27:34	17.464	93.3	7.22	53676	8.11	145.4	-0.08	0.08	1.21	6.312
Week 4	27-05-2024	10:27:35	17.464	93.3	7.21	53676	8.11	145.1	-0.08	0.08	1.21	6.203
Week 4	27-05-2024	10:27:36	17.464	93.2	7.21	53676	8.11	144.8	-0.07	0.09	1.23	6.25
Week 4	27-05-2024	10:27:37	17.464	93.2	7.2	53676	8.11	144.6	-0.07	0.09	1.25	6.245
Week 4	27-05-2024	10:27:38	17.464	93.1	7.2	53676	8.12	144.3	-0.07	0.08	1.22	6.28

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 4	27-05-2024	10:27:39	17.464	93.1	7.2	53677	8.12	144.1	-0.07	0.08	1.22	6.331
Week 4	27-05-2024	10:27:40	17.464	93.1	7.2	53677	8.12	143.9	-0.07	0.09	1.24	7.16
Week 4	27-05-2024	10:27:41	17.465	93	7.19	53677	8.12	143.6	-0.07	0.08	1.2	7.435
Week 4	27-05-2024	10:27:42	17.465	93	7.19	53678	8.12	143.4	-0.06	0.1	1.26	7.439
Week 4	27-05-2024	10:27:43	17.465	93	7.19	53678	8.12	143.2	-0.06	0.11	1.32	7.7
Week 4	27-05-2024	10:27:44	17.465	92.9	7.18	53678	8.12	143	-0.06	0.12	1.35	7.714
Week 4	27-05-2024	10:27:45	17.465	92.9	7.18	53679	8.12	142.8	-0.07	0.13	1.37	7.741
Week 4	27-05-2024	10:27:46	17.465	92.9	7.18	53679	8.12	142.6	-0.07	0.14	1.41	7.792
Week 4	27-05-2024	10:27:47	17.465	92.8	7.18	53679	8.12	142.4	-0.06	0.14	1.43	7.866
Week 4	27-05-2024	10:27:48	17.465	92.8	7.17	53680	8.12	142.3	-0.06	0.14	1.43	9.055
Week 4	27-05-2024	10:27:49	17.465	92.8	7.17	53681	8.12	142	-0.06	0.16	1.48	9.252
Week 4	27-05-2024	10:27:50	17.465	92.7	7.17	53681	8.12	141.9	-0.07	0.16	1.49	9.454
Week 4	27-05-2024	10:27:51	17.465	92.7	7.17	53681	8.12	141.7	-0.06	0.15	1.45	9.446
Week 4	27-05-2024	10:27:52	17.465	92.7	7.17	53681	8.12	141.5	-0.05	0.14	1.44	9.473
Week 4	27-05-2024	10:27:53	17.465	92.7	7.16	53681	8.12	141.4	-0.05	0.15	1.45	9.539
Week 4	27-05-2024	10:27:54	17.465	92.6	7.16	53682	8.12	141.2	-0.05	0.14	1.43	9.579
Week 4	27-05-2024	10:27:55	17.465	92.6	7.16	53682	8.12	141	-0.05	0.16	1.5	10.357
Week 4	27-05-2024	10:27:56	17.465	92.6	7.16	53682	8.12	140.8	-0.05	0.14	1.43	10.621
Week 4	27-05-2024	10:27:57	17.465	92.5	7.15	53682	8.12	140.6	-0.06	0.13	1.39	10.903
Week 4	27-05-2024	10:27:58	17.465	92.5	7.15	53682	8.12	140.3	-0.06	0.12	1.34	10.91
Week 4	27-05-2024	10:27:59	17.465	92.5	7.15	53682	8.12	140.1	-0.05	0.12	1.37	10.856
Week 4	27-05-2024	10:28:00	17.465	92.5	7.15	53683	8.13	139.8	-0.04	0.11	1.31	10.868
Week 4	27-05-2024	10:28:01	17.465	92.5	7.15	53683	8.13	139.6	-0.04	0.12	1.35	10.925
Week 4	27-05-2024	10:28:02	17.465	92.4	7.15	53683	8.13	139.3	-0.05	0.14	1.41	11.952
Week 4	27-05-2024	10:28:03	17.465	92.4	7.14	53683	8.13	139	-0.05	0.16	1.48	12.224
Week 4	27-05-2024	10:28:04	17.465	92.4	7.14	53683	8.14	138.7	-0.05	0.16	1.5	12.31
Week 4	27-05-2024	10:28:05	17.466	92.4	7.14	53683	8.14	138.4	-0.05	0.18	1.55	12.135
Week 4	27-05-2024	10:28:06	17.466	92.3	7.14	53683	8.14	138.1	-0.05	0.17	1.52	12.31
Week 4	27-05-2024	10:28:07	17.466	92.3	7.14	53683	8.15	137.8	-0.06	0.18	1.56	12.433
Week 4	27-05-2024	10:28:08	17.465	92.3	7.14	53683	8.15	137.5	-0.07	0.18	1.57	12.554
Week 4	27-05-2024	10:28:09	17.465	92.3	7.13	53683	8.15	137.2	-0.07	0.19	1.61	12.654
Week 4	27-05-2024	10:28:10	17.464	92.3	7.13	53683	8.16	136.9	-0.07	0.19	1.61	12.759
Week 4	27-05-2024	10:28:11	17.463	92.3	7.13	53683	8.16	136.6	-0.08	0.21	1.66	12.815
Week 4	27-05-2024	10:28:12	17.463	92.3	7.13	53683	8.16	136.2	-0.07	0.2	1.65	12.862
Week 4	27-05-2024	10:28:13	17.462	92.2	7.13	53683	8.17	135.9	-0.06	0.2	1.62	12.895
Week 4	27-05-2024	10:28:14	17.461	92.2	7.13	53684	8.17	135.6	-0.06	0.18	1.57	12.94
Week 4	27-05-2024	10:28:15	17.461	92.2	7.13	53684	8.17	135.3	-0.04	0.17	1.52	12.993
Week 4	27-05-2024	10:28:16	17.46	92.2	7.13	53684	8.18	135	-0.05	0.16	1.48	13.851
Week 4	27-05-2024	10:28:17	17.459	92.2	7.13	53684	8.18	134.8	-0.05	0.15	1.45	14.29
Week 4	27-05-2024	10:28:18	17.458	92.2	7.13	53685	8.18	134.5	-0.04	0.16	1.51	14.351
Week 4	27-05-2024	10:28:19	17.457	92.3	7.13	53685	8.19	134.3	-0.04	0.17	1.55	14.647
Week 4	27-05-2024	10:28:20	17.457	92.3	7.13	53686	8.19	134.1	-0.05	0.18	1.58	14.723
Week 4	27-05-2024	10:28:21	17.456	92.3	7.14	53686	8.19	133.8	-0.04	0.18	1.56	14.78
Week 4	27-05-2024	10:28:22	17.456	92.3	7.14	53686	8.19	133.6	-0.03	0.16	1.51	14.86
Week 4	27-05-2024	10:28:23	17.456	92.3	7.14	53687	8.2	133.5	-0.03	0.17	1.52	15.82
Week 4	27-05-2024	10:28:24	17.455	92.4	7.14	53687	8.2	133.3	-0.04	0.17	1.51	16.093
Week 4	27-05-2024	10:28:25	17.455	92.4	7.14	53687	8.2	133.1	-0.04	0.18	1.57	16.214
Week 4	27-05-2024	10:28:26	17.454	92.4	7.15	53688	8.2	132.9	-0.04	0.19	1.61	16.254
Week 4	27-05-2024	10:28:27	17.453	92.5	7.15	53689	8.2	132.8	-0.05	0.21	1.69	16.344
Week 4	27-05-2024	10:28:28	17.452	92.5	7.15	53690	8.2	132.7	-0.07	0.22	1.7	16.446
Week 4	27-05-2024	10:28:29	17.451	92.5	7.15	53690	8.21	132.5	-0.07	0.19	1.6	16.598
Week 4	27-05-2024	10:28:30	17.45	92.6	7.16	53690	8.21	132.4	-0.09	0.18	1.55	16.717
Week 4	27-05-2024	10:28:31	17.448	92.6	7.16	53691	8.21	132.3	-0.1	0.16	1.51	16.849
Week 4	27-05-2024	10:28:32	17.446	92.6	7.16	53691	8.21	132.1	-0.1	0.17	1.55	16.934
Week 4	27-05-2024	10:28:33	17.444	92.7	7.17	53691	8.21	132	-0.1	0.2	1.63	17.023
Week 4	27-05-2024	10:28:34	17.442	92.7	7.17	53691	8.21	131.8	-0.09	0.21	1.67	17.1
Week 4	27-05-2024	10:28:35	17.439	92.7	7.17	53692	8.21	131.7	-0.09	0.2	1.65	17.168
Week 4	27-05-2024	10:28:36	17.437	92.8	7.18	53692	8.21	131.5	-0.09	0.19	1.59	17.234
Week 4	27-05-2024	10:28:37	17.434	92.8	7.18	53692	8.22	131.4	-0.09	0.19	1.59	17.288
Week 4	27-05-2024	10:28:38	17.432	92.9	7.18	53692	8.22	131.3	-0.09	0.17	1.55	17.334
Week 4	27-05-2024	10:28:39	17.429	92.9	7.19	53692	8.22	131.2	-0.08	0.18	1.57	17.382
Week 4	27-05-2024	10:28:40	17.427	92.9	7.19	53691	8.22	131.1	-0.08	0.19	1.59	18.507
Week 4	27-05-2024	10:28:41	17.423	93	7.19	53692	8.22	131	-0.08	0.18	1.58	18.841
Week 4	27-05-2024	10:28:42	17.419	93	7.2	53692	8.22	130.9	-0.07	0.17	1.55	19.067
Week 4	27-05-2024	10:28:43	17.415	93	7.2	53692	8.22	130.8	-0.08	0.17	1.52	19.116
Week 4	27-05-2024	10:28:44	17.411	93.1	7.2	53693	8.22	130.7	-0.08	0.15	1.46	19.232
Week 4	27-05-2024	10:28:45	17.407	93.1	7.2	53693	8.22	130.7	-0.08	0.14	1.43	19.287
Week 4	27-05-2024	10:28:46	17.403	93.1	7.21	53693	8.22	130.6	-0.09	0.14	1.43	19.312
Week 4	27-05-2024	10:28:47	17.398	93.1	7.21	53692	8.22	130.5	-0.09	0.15	1.45	19.339
Week 4	27-05-2024	10:28:48	17.394	93.1	7.21	53691	8.22	130.5	-0.1	0.14	1.43	19.36
Week 4	27-05-2024	10:28:49	17.389	93.2	7.21	53691	8.22	130.4	-0.11	0.14	1.43	19.388
Week 4	27-05-2024	10:28:50	17.385	93.2	7.22	53690	8.22	130.3	-0.11	0.13	1.4	19.392
Week 4	27-05-2024	10:28:51	17.381	93.2	7.22	53690	8.22	130.3	-0.11	0.15	1.46	19.4

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 4	27-05-2024	10:28:52	17.377	93.2	7.22	53690	8.22	130.2	-0.12	0.16	1.49	19.406
Week 4	27-05-2024	10:28:53	17.374	93.3	7.22	53689	8.22	130.2	-0.12	0.17	1.53	19.418
Week 4	27-05-2024	10:28:54	17.371	93.3	7.22	53688	8.22	130.1	-0.12	0.16	1.51	19.427
Week 4	27-05-2024	10:28:55	17.369	93.3	7.23	53688	8.22	130	-0.12	0.15	1.47	19.432
Week 4	27-05-2024	10:28:56	17.367	93.3	7.23	53687	8.22	130	-0.12	0.15	1.46	19.439
Week 4	27-05-2024	10:28:57	17.366	93.4	7.23	53685	8.22	129.9	-0.12	0.15	1.46	19.466
Week 4	27-05-2024	10:28:58	17.364	93.4	7.23	53685	8.22	129.9	-0.13	0.16	1.49	20.335
Week 4	27-05-2024	10:28:59	17.362	93.4	7.23	53685	8.22	129.8	-0.13	0.16	1.5	20.538
Week 4	27-05-2024	10:29:00	17.36	93.4	7.24	53685	8.23	129.8	-0.12	0.16	1.5	20.472
Week 4	27-05-2024	10:29:01	17.357	93.4	7.24	53685	8.23	129.7	-0.11	0.17	1.53	20.48
Week 4	27-05-2024	10:29:02	17.354	93.4	7.24	53685	8.23	129.7	-0.12	0.16	1.48	20.644
Week 4	27-05-2024	10:29:03	17.351	93.4	7.24	53685	8.23	129.6	-0.11	0.14	1.43	20.844
Week 4	27-05-2024	10:29:04	17.347	93.4	7.24	53684	8.23	129.6	-0.11	0.16	1.48	20.952
Week 4	27-05-2024	10:29:05	17.343	93.5	7.24	53684	8.23	129.5	-0.11	0.17	1.52	21.038
Week 4	27-05-2024	10:29:06	17.337	93.5	7.24	53683	8.23	129.5	-0.11	0.17	1.54	21.117
Week 4	27-05-2024	10:29:07	17.332	93.5	7.24	53683	8.23	129.5	-0.11	0.19	1.59	21.185
Week 4	27-05-2024	10:29:08	17.326	93.5	7.24	53682	8.23	129.4	-0.11	0.19	1.61	21.27
Week 4	27-05-2024	10:29:09	17.321	93.5	7.25	53682	8.23	129.4	-0.1	0.19	1.62	21.348
Week 4	27-05-2024	10:29:10	17.315	93.5	7.25	53681	8.23	129.3	-0.1	0.19	1.61	22.331
Week 4	27-05-2024	10:29:11	17.31	93.5	7.25	53680	8.23	129.3	-0.1	0.21	1.68	22.454
Week 4	27-05-2024	10:29:12	17.305	93.5	7.25	53679	8.23	129.3	-0.1	0.2	1.63	22.741
Week 4	27-05-2024	10:29:13	17.301	93.5	7.25	53678	8.23	129.2	-0.1	0.2	1.65	22.958
Week 4	27-05-2024	10:29:14	17.297	93.5	7.25	53677	8.23	129.1	-0.1	0.21	1.67	23.081
Week 4	27-05-2024	10:29:15	17.293	93.5	7.25	53677	8.23	129.1	-0.1	0.21	1.68	23.169
Week 4	27-05-2024	10:29:16	17.29	93.5	7.26	53676	8.23	129.1	-0.1	0.21	1.69	23.278
Week 4	27-05-2024	10:29:17	17.288	93.6	7.26	53676	8.23	129	-0.1	0.21	1.68	23.373
Week 4	27-05-2024	10:29:18	17.286	93.6	7.26	53675	8.23	129	-0.1	0.2	1.63	23.467
Week 4	27-05-2024	10:29:19	17.285	93.6	7.26	53675	8.23	129	-0.1	0.2	1.63	23.537
Week 4	27-05-2024	10:29:20	17.283	93.6	7.26	53674	8.23	128.9	-0.11	0.19	1.6	23.583
Week 4	27-05-2024	10:29:21	17.282	93.6	7.27	53674	8.23	128.9	-0.1	0.19	1.61	23.627
Week 4	27-05-2024	10:29:22	17.281	93.7	7.27	53674	8.23	128.9	-0.1	0.18	1.57	23.681
Week 4	27-05-2024	10:29:23	17.28	93.7	7.27	53674	8.23	128.8	-0.1	0.19	1.6	23.739
Week 4	27-05-2024	10:29:24	17.279	93.7	7.27	53674	8.23	128.8	-0.1	0.19	1.6	23.787
Week 4	27-05-2024	10:29:25	17.279	93.7	7.27	53675	8.23	128.8	-0.1	0.19	1.6	23.825
Week 4	27-05-2024	10:29:26	17.278	93.7	7.27	53675	8.23	128.7	-0.08	0.17	1.54	24.859
Week 4	27-05-2024	10:29:27	17.278	93.7	7.27	53674	8.23	128.7	-0.08	0.16	1.51	25.097
Week 4	27-05-2024	10:29:28	17.277	93.8	7.28	53674	8.23	128.7	-0.08	0.16	1.5	25.348
Week 4	27-05-2024	10:29:29	17.277	93.8	7.28	53674	8.23	128.6	-0.08	0.16	1.49	25.282
Week 4	27-05-2024	10:29:30	17.277	93.8	7.28	53674	8.23	128.6	-0.08	0.16	1.5	25.385
Week 4	27-05-2024	10:29:31	17.276	93.8	7.28	53674	8.23	128.6	-0.08	0.16	1.5	25.563
Week 4	27-05-2024	10:29:32	17.276	93.8	7.28	53674	8.23	128.5	-0.08	0.16	1.5	25.719
Week 4	27-05-2024	10:29:33	17.276	93.8	7.28	53674	8.23	128.5	-0.08	0.17	1.53	26.52
Week 4	27-05-2024	10:29:34	17.276	93.8	7.28	53674	8.23	128.5	-0.08	0.16	1.51	26.849
Week 4	27-05-2024	10:29:35	17.276	93.8	7.28	53674	8.23	128.4	-0.08	0.17	1.54	26.997
Week 4	27-05-2024	10:29:36	17.276	93.8	7.28	53674	8.23	128.4	-0.09	0.17	1.53	27.007
Week 4	27-05-2024	10:29:37	17.275	93.8	7.28	53674	8.23	128.4	-0.09	0.17	1.55	27.102
Week 4	27-05-2024	10:29:38	17.275	93.8	7.28	53674	8.23	128.4	-0.09	0.18	1.57	27.228
Week 4	27-05-2024	10:29:39	17.275	93.8	7.28	53674	8.23	128.4	-0.09	0.2	1.63	27.294
Week 4	27-05-2024	10:29:40	17.274	93.8	7.28	53674	8.23	128.3	-0.08	0.2	1.63	27.416
Week 4	27-05-2024	10:29:41	17.274	93.8	7.28	53674	8.23	128.3	-0.09	0.18	1.56	27.507
Week 4	27-05-2024	10:29:42	17.274	93.8	7.28	53675	8.23	128.3	-0.09	0.18	1.58	27.602
Week 4	27-05-2024	10:29:43	17.273	93.8	7.28	53675	8.23	128.3	-0.09	0.17	1.54	27.686
Week 4	27-05-2024	10:29:44	17.273	93.8	7.28	53675	8.23	128.2	-0.09	0.15	1.47	28.395
Week 4	27-05-2024	10:29:45	17.273	93.8	7.28	53675	8.23	128.2	-0.08	0.16	1.48	28.278
Week 4	27-05-2024	10:29:46	17.273	93.8	7.28	53675	8.23	128.2	-0.08	0.14	1.41	28.001
Week 4	27-05-2024	10:29:47	17.273	93.8	7.28	53675	8.23	128.2	-0.09	0.13	1.4	27.888
Week 4	27-05-2024	10:29:48	17.273	93.8	7.28	53675	8.23	128.1	-0.08	0.12	1.36	27.74
Week 4	27-05-2024	10:29:49	17.273	93.8	7.28	53675	8.23	128.1	-0.06	0.11	1.32	27.574
Week 4	27-05-2024	10:29:50	17.273	93.9	7.28	53675	8.23	128.1	-0.07	0.1	1.27	27.441
Week 4	27-05-2024	10:29:51	17.272	93.9	7.28	53676	8.23	128.1	-0.06	0.1	1.29	26.485
Week 4	27-05-2024	10:29:52	17.272	93.9	7.28	53676	8.23	128.1	-0.06	0.1	1.29	26.307
Week 4	27-05-2024	10:29:53	17.272	93.9	7.29	53675	8.23	128.1	-0.06	0.1	1.26	26.052
Week 4	27-05-2024	10:29:54	17.272	93.9	7.29	53675	8.23	128	-0.06	0.1	1.26	26.055
Week 4	27-05-2024	10:29:55	17.272	93.9	7.29	53675	8.23	128	-0.05	0.1	1.28	25.952
Week 4	27-05-2024	10:29:56	17.272	93.9	7.29	53675	8.23	128	-0.05	0.1	1.28	25.738
Week 4	27-05-2024	10:29:57	17.272	93.9	7.29	53675	8.23	128	-0.06	0.09	1.25	25.545
Week 4	27-05-2024	10:29:58	17.272	93.9	7.29	53675	8.23	128	-0.06	0.09	1.24	25.428
Week 4	27-05-2024	10:29:59	17.272	93.9	7.29	53675	8.23	127.9	-0.07	0.09	1.25	25.319
Week 4	27-05-2024	10:30:00	17.273	94	7.29	53675	8.23	127.9	-0.07	0.1	1.27	25.229
Week 4	27-05-2024	10:30:01	17.273	94	7.29	53675	8.23	127.9	-0.07	0.1	1.26	25.152
Week 4	27-05-2024	10:30:02	17.273	94	7.29	53675	8.23	127.9	-0.06	0.09	1.26	25.089
Week 4	27-05-2024	10:30:03	17.273	94	7.29	53675	8.23	127.9	-0.07	0.1	1.27	25.044
Week 4	27-05-2024	10:30:04	17.273	94	7.29	53674	8.23	127.8	-0.08	0.11	1.31	24.999

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 4	27-05-2024	10:30:05	17.274	94	7.3	53674	8.23	127.8	-0.09	0.12	1.34	24.959
Week 4	27-05-2024	10:30:06	17.274	94	7.3	53674	8.23	127.8	-0.09	0.12	1.36	24.916
Week 4	27-05-2024	10:30:07	17.274	94	7.3	53673	8.23	127.8	-0.1	0.14	1.41	24.882
Week 4	27-05-2024	10:30:08	17.274	94	7.3	53673	8.23	127.8	-0.09	0.15	1.44	24.851
Week 4	27-05-2024	10:30:09	17.275	94	7.3	53674	8.23	127.7	-0.1	0.15	1.47	24.822
Week 4	27-05-2024	10:30:10	17.275	94	7.3	53674	8.23	127.7	-0.12	0.16	1.5	24.793
Week 4	27-05-2024	10:30:11	17.275	94	7.3	53673	8.23	127.7	-0.12	0.16	1.5	24.768
Week 4	27-05-2024	10:30:12	17.276	94	7.3	53674	8.23	127.7	-0.11	0.18	1.56	24.745
Week 4	27-05-2024	10:30:13	17.276	94	7.3	53673	8.23	127.6	-0.12	0.18	1.56	24.728
Week 4	27-05-2024	10:30:14	17.276	94.1	7.3	53673	8.23	127.6	-0.11	0.17	1.53	24.714
Week 4	27-05-2024	10:30:15	17.277	94.1	7.3	53673	8.23	127.6	-0.11	0.16	1.48	24.708
Week 4	27-05-2024	10:30:16	17.277	94.1	7.3	53673	8.23	127.6	-0.12	0.16	1.49	24.703
Week 4	27-05-2024	10:30:17	17.277	94.1	7.3	53674	8.23	127.6	-0.12	0.15	1.45	24.696
Week 4	27-05-2024	10:30:18	17.277	94.1	7.3	53673	8.23	127.6	-0.13	0.13	1.39	24.687
Week 4	27-05-2024	10:30:19	17.277	94.1	7.3	53674	8.23	127.5	-0.14	0.13	1.38	24.673
Week 4	27-05-2024	10:30:20	17.277	94.1	7.3	53674	8.23	127.5	-0.13	0.13	1.4	24.659
Week 4	27-05-2024	10:30:21	17.277	94.1	7.3	53674	8.23	127.5	-0.13	0.13	1.4	24.646
Week 4	27-05-2024	10:30:22	17.277	94.1	7.3	53674	8.23	127.5	-0.11	0.13	1.38	24.633
Week 4	27-05-2024	10:30:23	17.277	94.1	7.3	53674	8.23	127.5	-0.12	0.12	1.33	24.621
Week 4	27-05-2024	10:30:24	17.277	94.1	7.3	53674	8.23	127.5	-0.12	0.12	1.35	24.611
Week 4	27-05-2024	10:30:25	17.277	94.1	7.3	53674	8.23	127.5	-0.11	0.13	1.4	24.606
Week 4	27-05-2024	10:30:26	17.277	94.1	7.3	53674	8.23	127.5	-0.1	0.13	1.4	24.596
Week 4	27-05-2024	10:30:27	17.277	94.1	7.3	53674	8.23	127.4	-0.1	0.15	1.46	24.582
Week 4	27-05-2024	10:30:28	17.277	94.1	7.3	53674	8.23	127.4	-0.1	0.17	1.52	24.568
Week 4	27-05-2024	10:30:29	17.277	94.1	7.3	53675	8.23	127.4	-0.1	0.18	1.56	23.9
Week 4	27-05-2024	10:30:30	17.277	94.1	7.3	53675	8.23	127.4	-0.1	0.19	1.6	23.545
Week 4	27-05-2024	10:30:31	17.278	94.1	7.3	53674	8.23	127.4	-0.09	0.18	1.57	23.542
Week 4	27-05-2024	10:30:32	17.279	94.1	7.3	53674	8.23	127.4	-0.09	0.18	1.58	23.538
Week 4	27-05-2024	10:30:33	17.28	94.1	7.3	53674	8.23	127.4	-0.09	0.2	1.63	23.451
Week 4	27-05-2024	10:30:34	17.28	94.1	7.3	53674	8.23	127.4	-0.08	0.21	1.67	23.298
Week 4	27-05-2024	10:30:35	17.281	94.1	7.3	53673	8.23	127.4	-0.08	0.22	1.7	23.123
Week 4	27-05-2024	10:30:36	17.282	94.1	7.3	53673	8.23	127.4	-0.09	0.2	1.66	22.293
Week 4	27-05-2024	10:30:37	17.282	94.1	7.3	53673	8.23	127.4	-0.09	0.21	1.66	21.894
Week 4	27-05-2024	10:30:38	17.283	94.1	7.3	53673	8.23	127.4	-0.09	0.19	1.6	21.738
Week 4	27-05-2024	10:30:39	17.283	94.1	7.3	53673	8.23	127.3	-0.08	0.17	1.54	21.696
Week 4	27-05-2024	10:30:40	17.284	94.1	7.3	53672	8.23	127.3	-0.09	0.17	1.51	21.631
Week 4	27-05-2024	10:30:41	17.284	94.1	7.3	53672	8.23	127.3	-0.09	0.17	1.53	21.496
Week 4	27-05-2024	10:30:42	17.285	94.1	7.3	53672	8.23	127.3	-0.09	0.17	1.52	21.351
Week 4	27-05-2024	10:30:43	17.286	94.1	7.3	53672	8.23	127.3	-0.09	0.16	1.51	21.197
Week 4	27-05-2024	10:30:44	17.287	94.1	7.3	53672	8.23	127.3	-0.09	0.16	1.5	21.051
Week 4	27-05-2024	10:30:45	17.288	94.2	7.3	53672	8.23	127.3	-0.09	0.15	1.46	20.256
Week 4	27-05-2024	10:30:46	17.291	94.2	7.31	53672	8.23	127.3	-0.09	0.14	1.41	19.971
Week 4	27-05-2024	10:30:47	17.294	94.2	7.31	53672	8.23	127.3	-0.09	0.14	1.44	19.676
Week 4	27-05-2024	10:30:48	17.3	94.2	7.31	53673	8.23	127.3	-0.09	0.15	1.45	19.571
Week 4	27-05-2024	10:30:49	17.305	94.2	7.31	53674	8.23	127.3	-0.09	0.17	1.54	19.499
Week 4	27-05-2024	10:30:50	17.311	94.2	7.31	53675	8.23	127.3	-0.09	0.19	1.59	19.46
Week 4	27-05-2024	10:30:51	17.316	94.2	7.31	53676	8.23	127.3	-0.09	0.18	1.58	19.462
Week 4	27-05-2024	10:30:52	17.323	94.2	7.31	53676	8.23	127.2	-0.08	0.17	1.54	19.435
Week 4	27-05-2024	10:30:53	17.329	94.3	7.31	53676	8.23	127.2	-0.08	0.18	1.55	19.361
Week 4	27-05-2024	10:30:54	17.337	94.3	7.31	53677	8.23	127.2	-0.09	0.18	1.56	19.288
Week 4	27-05-2024	10:30:55	17.343	94.3	7.31	53677	8.23	127.2	-0.1	0.18	1.58	19.229
Week 4	27-05-2024	10:30:56	17.35	94.3	7.31	53678	8.23	127.2	-0.09	0.19	1.59	19.207
Week 4	27-05-2024	10:30:57	17.355	94.3	7.3	53679	8.23	127.2	-0.1	0.2	1.64	19.191
Week 4	27-05-2024	10:30:58	17.361	94.3	7.3	53679	8.23	127.2	-0.1	0.2	1.64	19.189
Week 4	27-05-2024	10:30:59	17.365	94.3	7.3	53680	8.23	127.2	-0.1	0.2	1.63	19.178
Week 4	27-05-2024	10:31:00	17.367	94.2	7.3	53680	8.23	127.2	-0.1	0.19	1.6	19.166
Week 4	27-05-2024	10:31:01	17.369	94.2	7.3	53681	8.23	127.2	-0.1	0.19	1.62	19.159
Week 4	27-05-2024	10:31:02	17.37	94.2	7.3	53681	8.23	127.2	-0.1	0.2	1.63	19.173
Week 4	27-05-2024	10:31:03	17.371	94.2	7.29	53680	8.23	127.2	-0.1	0.2	1.65	19.189
Week 4	27-05-2024	10:31:04	17.371	94.1	7.29	53680	8.23	127.2	-0.1	0.21	1.69	19.211
Week 4	27-05-2024	10:31:05	17.371	94.1	7.29	53680	8.23	127.2	-0.1	0.23	1.77	19.239
Week 4	27-05-2024	10:31:06	17.37	94.1	7.29	53681	8.23	127.2	-0.11	0.23	1.75	19.268
Week 4	27-05-2024	10:31:07	17.369	94.1	7.29	53681	8.23	127.2	-0.11	0.23	1.76	19.289
Week 4	27-05-2024	10:31:08	17.367	94	7.28	53681	8.23	127.2	-0.11	0.25	1.81	19.3
Week 4	27-05-2024	10:31:09	17.366	94	7.28	53681	8.23	127.2	-0.1	0.24	1.79	19.308
Week 4	27-05-2024	10:31:10	17.365	94	7.28	53681	8.23	127.2	-0.09	0.25	1.81	19.312
Week 4	27-05-2024	10:31:11	17.364	94	7.28	53681	8.23	127.2	-0.09	0.26	1.87	19.31
Week 4	27-05-2024	10:31:12	17.363	94	7.28	53681	8.23	127.2	-0.08	0.28	1.91	19.306
Week 4	27-05-2024	10:31:13	17.363	94	7.28	53681	8.23	127.2	-0.07	0.27	1.9	19.303
Week 4	27-05-2024	10:31:14	17.362	94	7.28	53681	8.23	127.1	-0.07	0.27	1.88	19.302
Week 4	27-05-2024	10:31:15	17.362	94	7.28	53682	8.23	127.1	-0.08	0.27	1.9	19.301
Week 4	27-05-2024	10:31:16	17.362	93.9	7.28	53681	8.23	127.1	-0.08	0.26	1.85	19.296
Week 4	27-05-2024	10:31:17	17.362	93.9	7.28	53682	8.23	127.1	-0.08	0.27	1.89	19.284

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 4	27-05-2024	10:31:18	17.363	93.9	7.28	53682	8.23	127.1	-0.08	0.26	1.84	19.271
Week 4	27-05-2024	10:31:19	17.365	93.9	7.28	53682	8.23	127.1	-0.08	0.25	1.84	18.549
Week 4	27-05-2024	10:31:20	17.367	94	7.28	53682	8.23	127.1	-0.09	0.24	1.78	18.368
Week 4	27-05-2024	10:31:21	17.37	94	7.28	53682	8.23	127.1	-0.09	0.25	1.83	18.322
Week 4	27-05-2024	10:31:22	17.373	94	7.28	53683	8.23	127.1	-0.09	0.25	1.81	18.214
Week 4	27-05-2024	10:31:23	17.377	94	7.28	53683	8.23	127.1	-0.08	0.22	1.71	18.04
Week 4	27-05-2024	10:31:24	17.381	94	7.28	53683	8.23	127.1	-0.08	0.2	1.65	17.908
Week 4	27-05-2024	10:31:25	17.387	94	7.28	53684	8.23	127.1	-0.08	0.2	1.65	17.815
Week 4	27-05-2024	10:31:26	17.392	94	7.28	53685	8.23	127.1	-0.08	0.18	1.58	17.772
Week 4	27-05-2024	10:31:27	17.397	94	7.28	53685	8.23	127.1	-0.08	0.18	1.56	17.733
Week 4	27-05-2024	10:31:28	17.403	94	7.28	53685	8.23	127.1	-0.09	0.18	1.58	17.693
Week 4	27-05-2024	10:31:29	17.407	94	7.28	53685	8.23	127.1	-0.08	0.18	1.57	17.644
Week 4	27-05-2024	10:31:30	17.413	94	7.28	53686	8.23	127.1	-0.08	0.18	1.57	17.602
Week 4	27-05-2024	10:31:31	17.417	94	7.27	53686	8.23	127.1	-0.07	0.18	1.57	17.559
Week 4	27-05-2024	10:31:32	17.422	94	7.27	53687	8.23	127.1	-0.08	0.16	1.48	17.517
Week 4	27-05-2024	10:31:33	17.426	94	7.27	53687	8.23	127.1	-0.07	0.13	1.39	17.479
Week 4	27-05-2024	10:31:34	17.43	94	7.27	53686	8.23	127.1	-0.07	0.14	1.44	17.449
Week 4	27-05-2024	10:31:35	17.433	93.9	7.27	53686	8.23	127.1	-0.07	0.15	1.45	17.417
Week 4	27-05-2024	10:31:36	17.435	93.9	7.27	53686	8.23	127.1	-0.05	0.16	1.49	17.376
Week 4	27-05-2024	10:31:37	17.436	93.9	7.26	53686	8.23	127.1	-0.06	0.17	1.54	17.335
Week 4	27-05-2024	10:31:38	17.437	93.9	7.26	53686	8.23	127.1	-0.07	0.17	1.53	17.295
Week 4	27-05-2024	10:31:39	17.437	93.8	7.26	53686	8.23	127.1	-0.07	0.15	1.46	16.359
Week 4	27-05-2024	10:31:40	17.438	93.8	7.26	53686	8.23	127.1	-0.06	0.15	1.45	16.264
Week 4	27-05-2024	10:31:41	17.438	93.8	7.25	53686	8.23	127.1	-0.06	0.15	1.45	16.172
Week 4	27-05-2024	10:31:42	17.439	93.7	7.25	53686	8.23	127.1	-0.05	0.15	1.46	16.168
Week 4	27-05-2024	10:31:43	17.439	93.7	7.25	53686	8.23	127.1	-0.06	0.17	1.52	16.127
Week 4	27-05-2024	10:31:44	17.44	93.7	7.25	53686	8.23	127.1	-0.07	0.17	1.55	16.018
Week 4	27-05-2024	10:31:45	17.44	93.7	7.25	53686	8.23	127.1	-0.08	0.18	1.58	15.896
Week 4	27-05-2024	10:31:46	17.441	93.7	7.25	53685	8.23	127.1	-0.07	0.18	1.58	15.788
Week 4	27-05-2024	10:31:47	17.442	93.7	7.24	53685	8.23	127.1	-0.07	0.18	1.58	15.69
Week 4	27-05-2024	10:31:48	17.442	93.6	7.24	53685	8.23	127.1	-0.08	0.17	1.53	15.601
Week 4	27-05-2024	10:31:49	17.443	93.6	7.24	53685	8.23	127.1	-0.08	0.19	1.59	15.502
Week 4	27-05-2024	10:31:50	17.444	93.6	7.24	53685	8.23	127.1	-0.08	0.19	1.61	15.43
Week 4	27-05-2024	10:31:51	17.445	93.6	7.24	53684	8.23	127.1	-0.07	0.2	1.63	14.534
Week 4	27-05-2024	10:31:52	17.447	93.6	7.24	53684	8.23	127.1	-0.08	0.19	1.61	14.288
Week 4	27-05-2024	10:31:53	17.448	93.6	7.24	53683	8.23	127.1	-0.09	0.2	1.64	14.19
Week 4	27-05-2024	10:31:54	17.449	93.5	7.23	53683	8.23	127.1	-0.09	0.2	1.65	13.838
Week 4	27-05-2024	10:31:55	17.45	93.5	7.23	53682	8.23	127.1	-0.09	0.2	1.65	13.837
Week 4	27-05-2024	10:31:56	17.451	93.5	7.23	53682	8.23	127.1	-0.1	0.2	1.63	13.774
Week 4	27-05-2024	10:31:57	17.452	93.4	7.23	53681	8.23	127.1	-0.09	0.2	1.66	13.626
Week 4	27-05-2024	10:31:58	17.452	93.4	7.22	53680	8.23	127.1	-0.08	0.21	1.69	13.531
Week 4	27-05-2024	10:31:59	17.453	93.4	7.22	53680	8.23	127.1	-0.08	0.22	1.7	13.425
Week 4	27-05-2024	10:32:00	17.453	93.3	7.22	53680	8.23	127.1	-0.09	0.22	1.7	12.532
Week 4	27-05-2024	10:32:01	17.454	93.3	7.21	53679	8.23	127.2	-0.09	0.21	1.66	12.257
Week 4	27-05-2024	10:32:02	17.454	93.2	7.21	53679	8.23	127.2	-0.09	0.2	1.65	12.02
Week 4	27-05-2024	10:32:03	17.454	93.2	7.21	53679	8.23	127.2	-0.08	0.21	1.66	11.955
Week 4	27-05-2024	10:32:04	17.455	93.1	7.2	53678	8.23	127.2	-0.09	0.19	1.61	11.854
Week 4	27-05-2024	10:32:05	17.455	93.1	7.2	53678	8.23	127.2	-0.1	0.19	1.61	11.709
Week 4	27-05-2024	10:32:06	17.455	93	7.19	53677	8.23	127.2	-0.09	0.18	1.55	11.532
Week 4	27-05-2024	10:32:07	17.455	93	7.19	53676	8.23	127.2	-0.09	0.17	1.54	11.417
Week 4	27-05-2024	10:32:08	17.455	92.9	7.18	53676	8.23	127.2	-0.09	0.17	1.52	11.317
Week 4	27-05-2024	10:32:09	17.456	92.9	7.18	53676	8.23	127.2	-0.09	0.16	1.48	10.401
Week 4	27-05-2024	10:32:10	17.456	92.8	7.18	53676	8.23	127.2	-0.09	0.16	1.5	10.125
Week 4	27-05-2024	10:32:11	17.457	92.8	7.18	53676	8.22	127.2	-0.1	0.15	1.46	9.842
Week 4	27-05-2024	10:32:12	17.458	92.8	7.17	53675	8.22	127.2	-0.1	0.15	1.46	9.735
Week 4	27-05-2024	10:32:13	17.458	92.7	7.17	53675	8.22	127.2	-0.1	0.15	1.47	9.563
Week 4	27-05-2024	10:32:14	17.459	92.7	7.17	53674	8.22	127.2	-0.1	0.14	1.44	9.43
Week 4	27-05-2024	10:32:15	17.46	92.6	7.16	53674	8.22	127.2	-0.1	0.14	1.42	9.232
Week 4	27-05-2024	10:32:16	17.46	92.6	7.16	53674	8.22	127.2	-0.1	0.15	1.45	9.093
Week 4	27-05-2024	10:32:17	17.461	92.6	7.16	53673	8.22	127.2	-0.1	0.15	1.47	8.972
Week 4	27-05-2024	10:32:18	17.461	92.6	7.16	53673	8.22	127.2	-0.1	0.15	1.45	8.865
Week 4	27-05-2024	10:32:19	17.462	92.5	7.15	53673	8.22	127.2	-0.09	0.14	1.44	7.927
Week 4	27-05-2024	10:32:20	17.463	92.5	7.15	53673	8.22	127.2	-0.09	0.14	1.44	7.591
Week 4	27-05-2024	10:32:21	17.463	92.5	7.15	53673	8.22	127.2	-0.09	0.14	1.44	7.484
Week 4	27-05-2024	10:32:22	17.464	92.4	7.15	53672	8.22	127.2	-0.09	0.14	1.41	7.393
Week 4	27-05-2024	10:32:23	17.464	92.4	7.15	53672	8.22	127.2	-0.09	0.14	1.41	7.25
Week 4	27-05-2024	10:32:24	17.464	92.4	7.14	53672	8.22	127.2	-0.09	0.13	1.39	7.127
Week 4	27-05-2024	10:32:25	17.464	92.4	7.14	53672	8.22	127.2	-0.09	0.15	1.44	6.966
Week 4	27-05-2024	10:32:26	17.464	92.3	7.14	53672	8.22	127.2	-0.09	0.15	1.45	6.837
Week 4	27-05-2024	10:32:27	17.464	92.3	7.14	53671	8.22	127.2	-0.09	0.15	1.45	6.733
Week 4	27-05-2024	10:32:28	17.464	92.3	7.14	53671	8.22	127.2	-0.09	0.15	1.45	6.609
Week 4	27-05-2024	10:32:29	17.465	92.3	7.14	53671	8.22	127.2	-0.09	0.15	1.47	6.522
Week 4	27-05-2024	10:32:30	17.465	92.3	7.13	53671	8.22	127.2	-0.08	0.16	1.49	5.736

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 4	27-05-2024	10:32:31	17.465	92.3	7.13	53671	8.22	127.2	-0.08	0.17	1.52	5.701
Week 4	27-05-2024	10:32:32	17.465	92.2	7.13	53671	8.22	127.2	-0.08	0.17	1.52	5.453
Week 4	27-05-2024	10:32:33	17.466	92.2	7.13	53671	8.22	127.2	-0.07	0.18	1.56	5.425
Week 4	27-05-2024	10:32:34	17.466	92.2	7.13	53670	8.22	127.2	-0.07	0.17	1.54	5.314
Week 4	27-05-2024	10:32:35	17.466	92.2	7.13	53670	8.22	127.2	-0.06	0.17	1.54	5.159
Week 4	27-05-2024	10:32:36	17.466	92.2	7.13	53670	8.22	127.2	-0.07	0.18	1.55	5.053
Week 4	27-05-2024	10:32:37	17.466	92.2	7.13	53670	8.22	127.2	-0.07	0.16	1.5	4.93
Week 4	27-05-2024	10:32:38	17.466	92.2	7.13	53670	8.22	127.2	-0.07	0.15	1.45	4.815
Week 4	27-05-2024	10:32:39	17.466	92.2	7.13	53670	8.22	127.2	-0.08	0.14	1.44	4.707
Week 4	27-05-2024	10:32:40	17.466	92.1	7.12	53669	8.22	127.2	-0.08	0.15	1.47	3.879
Week 4	27-05-2024	10:32:41	17.466	92.1	7.12	53669	8.22	127.2	-0.08	0.15	1.45	3.62
Week 4	27-05-2024	10:32:42	17.465	92.1	7.12	53669	8.22	127.2	-0.08	0.14	1.41	3.403
Week 4	27-05-2024	10:32:43	17.465	92.1	7.12	53669	8.22	127.2	-0.09	0.13	1.38	3.445
Week 4	27-05-2024	10:32:44	17.464	92.1	7.12	53668	8.22	127.2	-0.09	0.11	1.32	3.353
Week 4	27-05-2024	10:32:45	17.464	92.1	7.12	53668	8.22	127.2	-0.08	0.1	1.3	3.188
Week 4	27-05-2024	10:32:46	17.463	92.1	7.12	53668	8.22	127.2	-0.09	0.12	1.36	3.11
Week 4	27-05-2024	10:32:47	17.463	92.1	7.12	53668	8.22	127.2	-0.09	0.12	1.36	3.073
Week 4	27-05-2024	10:32:48	17.463	92.1	7.12	53668	8.22	127.2	-0.09	0.13	1.4	3.047
Week 4	27-05-2024	10:32:49	17.463	92.1	7.12	53668	8.22	127.2	-0.1	0.13	1.37	3.006
Week 4	27-05-2024	10:32:50	17.463	92.1	7.12	53668	8.22	127.2	-0.11	0.12	1.36	2.98
Week 4	27-05-2024	10:32:51	17.463	92.1	7.12	53668	8.22	127.2	-0.1	0.12	1.36	2.958
Week 4	27-05-2024	10:32:52	17.463	92.1	7.12	53668	8.22	127.2	-0.1	0.12	1.36	2.929
Week 4	27-05-2024	10:32:53	17.463	92	7.12	53668	8.22	127.2	-0.09	0.13	1.37	2.9
Week 4	27-05-2024	10:32:54	17.463	92	7.12	53668	8.22	127.2	-0.1	0.12	1.36	2.882
Week 4	27-05-2024	10:32:55	17.463	92	7.12	53669	8.22	127.2	-0.11	0.12	1.36	2.873
Week 4	27-05-2024	10:32:56	17.463	92	7.11	53668	8.22	127.2	-0.09	0.12	1.37	2.854
Week 4	27-05-2024	10:32:57	17.463	92	7.11	53669	8.22	127.2	-0.09	0.11	1.32	2.821
Week 4	27-05-2024	10:32:58	17.463	92	7.11	53669	8.22	127.2	-0.08	0.1	1.27	1.819
Week 4	27-05-2024	10:32:59	17.464	92	7.11	53668	8.22	127.2	-0.08	0.1	1.29	1.657
Week 4	27-05-2024	10:33:00	17.464	92	7.11	53668	8.22	127.2	-0.08	0.1	1.29	1.661
Week 4	27-05-2024	10:33:01	17.464	92	7.11	53668	8.22	127.2	-0.08	0.11	1.32	1.456
Week 4	27-05-2024	10:33:02	17.464	92	7.11	53668	8.22	127.2	-0.08	0.11	1.31	1.347
Week 4	27-05-2024	10:33:03	17.463	92	7.11	53668	8.22	127.2	-0.08	0.12	1.35	1.175
Week 4	27-05-2024	10:33:04	17.463	92	7.11	53667	8.22	127.2	-0.08	0.12	1.34	1.012
Week 4	27-05-2024	10:33:05	17.463	92	7.11	53667	8.22	127.2	-0.08	0.12	1.36	0.854
Week 5	04-06-2024	10:20:44	16.135	102.1	10.05	54500	7.93	184.7	0.9	0.07	1.16	0.266
Week 5	04-06-2024	10:20:45	16.198	101.9	8.05	54420	7.94	184.6	0.83	0.07	1.15	0.265
Week 5	04-06-2024	10:20:46	16.254	101.8	8.04	54362	7.94	184.3	0.76	0.06	1.14	0.266
Week 5	04-06-2024	10:20:47	16.32	101.6	8.02	54280	7.94	184.1	0.71	0.06	1.13	0.269
Week 5	04-06-2024	10:20:48	16.386	101.5	8	54210	7.94	183.9	0.63	0.07	1.17	1.133
Week 5	04-06-2024	10:20:49	16.443	101.3	7.98	54129	7.94	183.6	0.59	0.08	1.2	1.427
Week 5	04-06-2024	10:20:50	16.509	101.1	7.96	54060	7.94	183.3	0.52	0.09	1.23	1.531
Week 5	04-06-2024	10:20:51	16.566	101	7.94	53982	7.94	183	0.44	0.07	1.18	1.535
Week 5	04-06-2024	10:20:52	16.632	100.8	7.92	53913	7.94	182.6	0.36	0.09	1.23	1.564
Week 5	04-06-2024	10:20:53	16.691	100.7	7.9	53834	7.94	182.3	0.29	0.1	1.29	1.6
Week 5	04-06-2024	10:20:54	16.758	100.6	7.89	53764	7.94	181.9	0.21	0.11	1.33	1.63
Week 5	04-06-2024	10:20:55	16.819	100.5	7.87	53680	7.94	181.5	0.14	0.15	1.45	1.65
Week 5	04-06-2024	10:20:56	16.853	100.3	7.85	53641	7.94	181.1	0.08	0.17	1.54	1.673
Week 5	04-06-2024	10:20:57	16.855	100.2	7.84	53639	7.94	180.7	0.02	0.18	1.58	1.686
Week 5	04-06-2024	10:20:58	16.856	100.1	7.83	53638	7.94	180.2	0.01	0.19	1.6	1.702
Week 5	04-06-2024	10:20:59	16.857	99.8	7.81	53637	7.94	179.8	0.01	0.2	1.64	1.708
Week 5	04-06-2024	10:21:00	16.857	99.6	7.79	53639	7.94	179.4	0.02	0.21	1.66	1.718
Week 5	04-06-2024	10:21:01	16.857	99.4	7.78	53640	7.94	179	0.02	0.2	1.65	1.741
Week 5	04-06-2024	10:21:02	16.857	99.2	7.76	53641	7.94	178.6	0.02	0.22	1.7	1.753
Week 5	04-06-2024	10:21:03	16.857	99	7.75	53642	7.94	178.2	0.02	0.22	1.7	1.756
Week 5	04-06-2024	10:21:04	16.858	98.9	7.74	53643	7.94	177.8	0.01	0.21	1.68	1.762
Week 5	04-06-2024	10:21:05	16.858	98.7	7.72	53643	7.94	177.3	0.01	0.2	1.63	1.767
Week 5	04-06-2024	10:21:06	16.858	98.6	7.71	53643	7.94	176.9	0.01	0.18	1.56	1.771
Week 5	04-06-2024	10:21:07	16.859	98.5	7.7	53642	7.94	176.6	0.01	0.16	1.51	1.774
Week 5	04-06-2024	10:21:08	16.859	98.4	7.69	53642	7.94	176.2	0.01	0.17	1.53	1.77
Week 5	04-06-2024	10:21:09	16.86	98.3	7.69	53643	7.94	175.9	0.01	0.18	1.55	1.767
Week 5	04-06-2024	10:21:10	16.86	98.2	7.68	53643	7.94	175.7	0.02	0.16	1.5	1.754
Week 5	04-06-2024	10:21:11	16.861	98.1	7.68	53643	7.94	175.4	0	0.15	1.47	1.732
Week 5	04-06-2024	10:21:12	16.861	98.1	7.67	53644	7.94	175.1	0	0.14	1.43	1.712
Week 5	04-06-2024	10:21:13	16.862	98	7.67	53644	7.94	174.8	0	0.13	1.39	1.702
Week 5	04-06-2024	10:21:14	16.862	97.9	7.66	53644	7.94	174.6	0.01	0.13	1.38	1.704
Week 5	04-06-2024	10:21:15	16.862	97.9	7.66	53644	7.94	174.3	0	0.13	1.37	1.71
Week 5	04-06-2024	10:21:16	16.863	97.8	7.65	53645	7.94	174	0	0.14	1.43	1.722
Week 5	04-06-2024	10:21:17	16.863	97.8	7.65	53645	7.94	173.8	0	0.13	1.38	1.739
Week 5	04-06-2024	10:21:18	16.863	97.7	7.64	53646	7.94	173.5	0	0.13	1.39	2.541
Week 5	04-06-2024	10:21:19	16.863	97.7	7.64	53646	7.94	173.3	0	0.14	1.42	2.955
Week 5	04-06-2024	10:21:20	16.863	97.6	7.64	53647	7.94	173	0.01	0.12	1.36	3.443
Week 5	04-06-2024	10:21:21	16.863	97.6	7.63	53647	7.94	172.8	0	0.14	1.43	3.55

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 5	04-06-2024	10:21:22	16.863	97.5	7.63	53647	7.94	172.6	0	0.15	1.45	3.581
Week 5	04-06-2024	10:21:23	16.863	97.5	7.63	53647	7.94	172.3	-0.01	0.15	1.47	3.628
Week 5	04-06-2024	10:21:24	16.862	97.5	7.62	53648	7.94	172.1	-0.01	0.17	1.52	3.746
Week 5	04-06-2024	10:21:25	16.862	97.4	7.62	53648	7.94	171.8	-0.01	0.17	1.54	3.845
Week 5	04-06-2024	10:21:26	16.862	97.4	7.62	53649	7.94	171.6	0	0.17	1.53	3.911
Week 5	04-06-2024	10:21:27	16.862	97.3	7.61	53649	7.94	171.4	0	0.15	1.47	3.989
Week 5	04-06-2024	10:21:28	16.862	97.3	7.61	53650	7.94	171.1	0	0.16	1.5	4.073
Week 5	04-06-2024	10:21:29	16.862	97.3	7.61	53650	7.94	170.9	0	0.15	1.44	4.132
Week 5	04-06-2024	10:21:30	16.862	97.2	7.6	53650	7.94	170.6	-0.01	0.13	1.4	4.193
Week 5	04-06-2024	10:21:31	16.861	97.2	7.6	53650	7.94	170.4	0	0.15	1.45	4.257
Week 5	04-06-2024	10:21:32	16.861	97.2	7.6	53650	7.94	170.2	-0.01	0.14	1.41	4.319
Week 5	04-06-2024	10:21:33	16.861	97.1	7.6	53651	7.94	170	0	0.14	1.43	4.369
Week 5	04-06-2024	10:21:34	16.861	97.1	7.6	53651	7.94	169.8	-0.01	0.15	1.47	5.197
Week 5	04-06-2024	10:21:35	16.86	97.1	7.59	53651	7.94	169.6	-0.01	0.15	1.46	5.262
Week 5	04-06-2024	10:21:36	16.86	97	7.59	53651	7.94	169.4	0	0.16	1.49	5.448
Week 5	04-06-2024	10:21:37	16.86	97	7.59	53651	7.94	169.2	-0.01	0.17	1.55	5.492
Week 5	04-06-2024	10:21:38	16.859	97	7.59	53651	7.94	169	0	0.19	1.61	5.535
Week 5	04-06-2024	10:21:39	16.859	97	7.59	53652	7.94	168.8	0.01	0.19	1.61	5.593
Week 5	04-06-2024	10:21:40	16.858	97	7.58	53652	7.94	168.6	0.01	0.19	1.6	5.675
Week 5	04-06-2024	10:21:41	16.858	96.9	7.58	53651	7.94	168.4	0.01	0.19	1.61	5.716
Week 5	04-06-2024	10:21:42	16.858	96.9	7.58	53651	7.94	168.2	0.01	0.18	1.58	5.765
Week 5	04-06-2024	10:21:43	16.857	96.9	7.58	53650	7.94	168.1	0	0.19	1.6	5.81
Week 5	04-06-2024	10:21:44	16.857	96.9	7.58	53648	7.94	167.9	-0.01	0.19	1.61	5.862
Week 5	04-06-2024	10:21:45	16.857	96.9	7.58	53647	7.94	167.7	0	0.19	1.62	5.904
Week 5	04-06-2024	10:21:46	16.857	96.8	7.58	53646	7.94	167.5	-0.01	0.2	1.65	5.946
Week 5	04-06-2024	10:21:47	16.857	96.8	7.57	53645	7.94	167.4	0	0.19	1.62	5.993
Week 5	04-06-2024	10:21:48	16.857	96.8	7.57	53644	7.94	167.2	0	0.19	1.59	6.031
Week 5	04-06-2024	10:21:49	16.857	96.8	7.57	53643	7.94	167	0	0.19	1.62	6.079
Week 5	04-06-2024	10:21:50	16.857	96.8	7.57	53643	7.94	166.9	-0.01	0.21	1.69	6.926
Week 5	04-06-2024	10:21:51	16.857	96.7	7.57	53642	7.94	166.7	-0.01	0.22	1.72	6.972
Week 5	04-06-2024	10:21:52	16.857	96.7	7.57	53641	7.94	166.5	-0.02	0.21	1.68	7.361
Week 5	04-06-2024	10:21:53	16.857	96.7	7.57	53640	7.94	166.3	-0.02	0.23	1.76	7.361
Week 5	04-06-2024	10:21:54	16.857	96.7	7.56	53638	7.94	166.2	-0.01	0.24	1.79	7.414
Week 5	04-06-2024	10:21:55	16.857	96.7	7.56	53638	7.94	166	-0.01	0.24	1.8	7.453
Week 5	04-06-2024	10:21:56	16.857	96.6	7.56	53638	7.94	165.9	-0.01	0.25	1.82	7.487
Week 5	04-06-2024	10:21:57	16.857	96.6	7.56	53638	7.94	165.7	-0.01	0.24	1.77	7.566
Week 5	04-06-2024	10:21:58	16.858	96.6	7.56	53639	7.94	165.6	-0.01	0.25	1.82	7.636
Week 5	04-06-2024	10:21:59	16.858	96.6	7.56	53639	7.94	165.4	0	0.24	1.78	7.697
Week 5	04-06-2024	10:22:00	16.858	96.6	7.56	53639	7.94	165.3	0	0.23	1.73	7.774
Week 5	04-06-2024	10:22:01	16.858	96.6	7.55	53640	7.94	165.1	0.01	0.22	1.7	7.837
Week 5	04-06-2024	10:22:02	16.858	96.6	7.55	53640	7.94	165	0.01	0.22	1.73	7.903
Week 5	04-06-2024	10:22:03	16.858	96.5	7.55	53639	7.94	164.9	0.01	0.23	1.75	8.575
Week 5	04-06-2024	10:22:04	16.857	96.5	7.55	53639	7.94	164.7	0.01	0.21	1.66	8.661
Week 5	04-06-2024	10:22:05	16.858	96.5	7.55	53639	7.94	164.6	0.01	0.2	1.64	8.85
Week 5	04-06-2024	10:22:06	16.858	96.5	7.55	53639	7.94	164.4	0.01	0.2	1.65	8.953
Week 5	04-06-2024	10:22:07	16.858	96.5	7.55	53640	7.94	164.3	0.01	0.2	1.65	9.062
Week 5	04-06-2024	10:22:08	16.858	96.5	7.55	53641	7.94	164.2	0.01	0.2	1.65	9.137
Week 5	04-06-2024	10:22:09	16.858	96.5	7.55	53641	7.94	164	0	0.19	1.59	9.179
Week 5	04-06-2024	10:22:10	16.858	96.4	7.55	53642	7.94	163.9	0	0.2	1.65	9.248
Week 5	04-06-2024	10:22:11	16.858	96.4	7.54	53643	7.94	163.8	0	0.2	1.63	9.302
Week 5	04-06-2024	10:22:12	16.858	96.4	7.54	53643	7.94	163.6	0	0.2	1.62	9.331
Week 5	04-06-2024	10:22:13	16.858	96.4	7.54	53643	7.94	163.5	0	0.2	1.63	9.366
Week 5	04-06-2024	10:22:14	16.858	96.4	7.54	53644	7.94	163.4	0.01	0.19	1.61	9.397
Week 5	04-06-2024	10:22:15	16.858	96.4	7.54	53645	7.94	163.2	0	0.2	1.63	9.422
Week 5	04-06-2024	10:22:16	16.859	96.4	7.54	53646	7.94	163.1	0	0.19	1.6	9.449
Week 5	04-06-2024	10:22:17	16.859	96.4	7.54	53646	7.94	163	0	0.21	1.67	9.48
Week 5	04-06-2024	10:22:18	16.859	96.4	7.54	53647	7.94	162.8	0	0.18	1.58	9.507
Week 5	04-06-2024	10:22:19	16.859	96.4	7.54	53647	7.94	162.7	0	0.19	1.61	9.521
Week 5	04-06-2024	10:22:20	16.859	96.3	7.54	53648	7.94	162.5	0.01	0.19	1.6	9.543
Week 5	04-06-2024	10:22:21	16.859	96.3	7.54	53649	7.94	162.4	0.01	0.19	1.59	9.569
Week 5	04-06-2024	10:22:22	16.859	96.3	7.54	53649	7.94	162.3	0.01	0.19	1.61	9.589
Week 5	04-06-2024	10:22:23	16.859	96.3	7.53	53650	7.94	162.1	0.01	0.19	1.62	9.62
Week 5	04-06-2024	10:22:24	16.859	96.3	7.53	53650	7.94	162	0.01	0.19	1.6	10.516
Week 5	04-06-2024	10:22:25	16.859	96.3	7.53	53651	7.95	161.8	0.01	0.19	1.6	10.668
Week 5	04-06-2024	10:22:26	16.859	96.3	7.53	53651	7.95	161.7	0	0.2	1.65	10.556
Week 5	04-06-2024	10:22:27	16.859	96.3	7.53	53651	7.95	161.6	0	0.21	1.66	10.789
Week 5	04-06-2024	10:22:28	16.859	96.3	7.53	53651	7.95	161.4	0	0.18	1.57	10.859
Week 5	04-06-2024	10:22:29	16.859	96.3	7.53	53651	7.95	161.3	0	0.19	1.61	10.873
Week 5	04-06-2024	10:22:30	16.859	96.3	7.53	53651	7.95	161.1	0	0.19	1.59	10.908
Week 5	04-06-2024	10:22:31	16.859	96.3	7.53	53652	7.95	161	0	0.19	1.59	11.015
Week 5	04-06-2024	10:22:32	16.859	96.3	7.53	53653	7.95	160.8	0	0.19	1.6	11.1
Week 5	04-06-2024	10:22:33	16.859	96.2	7.53	53653	7.95	160.7	0	0.19	1.62	11.167
Week 5	04-06-2024	10:22:34	16.859	96.2	7.53	53654	7.95	160.5	0	0.19	1.61	11.228

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 5	04-06-2024	10:22:35	16.859	96.2	7.53	53655	7.96	160.3	-0.01	0.21	1.66	11.285
Week 5	04-06-2024	10:22:36	16.859	96.2	7.53	53655	7.96	160.1	0	0.22	1.73	11.327
Week 5	04-06-2024	10:22:37	16.859	96.2	7.53	53656	7.96	159.9	0	0.22	1.7	11.35
Week 5	04-06-2024	10:22:38	16.86	96.2	7.53	53656	7.96	159.8	0.01	0.23	1.76	11.371
Week 5	04-06-2024	10:22:39	16.86	96.2	7.52	53657	7.96	159.6	0.01	0.24	1.8	11.376
Week 5	04-06-2024	10:22:40	16.86	96.2	7.52	53657	7.96	159.4	0.01	0.25	1.83	11.379
Week 5	04-06-2024	10:22:41	16.86	96.2	7.52	53658	7.97	159.2	0.02	0.26	1.86	11.393
Week 5	04-06-2024	10:22:42	16.86	96.2	7.52	53659	7.97	159	0.02	0.27	1.89	11.402
Week 5	04-06-2024	10:22:43	16.86	96.2	7.52	53660	7.97	158.8	0.02	0.26	1.87	11.41
Week 5	04-06-2024	10:22:44	16.86	96.2	7.52	53660	7.97	158.6	0.03	0.25	1.83	11.415
Week 5	04-06-2024	10:22:45	16.86	96.2	7.52	53660	7.97	158.4	0.04	0.25	1.83	11.409
Week 5	04-06-2024	10:22:46	16.86	96.2	7.52	53660	7.98	158.2	0.03	0.25	1.81	11.412
Week 5	04-06-2024	10:22:47	16.86	96.2	7.52	53660	7.98	158	0.04	0.23	1.74	11.411
Week 5	04-06-2024	10:22:48	16.86	96.2	7.52	53660	7.98	157.8	0.03	0.22	1.7	11.406
Week 5	04-06-2024	10:22:49	16.86	96.2	7.52	53661	7.98	157.5	0.02	0.19	1.61	11.402
Week 5	04-06-2024	10:22:50	16.86	96.2	7.52	53661	7.99	157.3	0.02	0.19	1.6	11.413
Week 5	04-06-2024	10:22:51	16.86	96.2	7.52	53661	7.99	157.1	0.01	0.18	1.55	11.425
Week 5	04-06-2024	10:22:52	16.861	96.2	7.52	53661	7.99	156.9	0	0.17	1.53	11.442
Week 5	04-06-2024	10:22:53	16.861	96.1	7.52	53661	7.99	156.7	-0.01	0.16	1.5	12.317
Week 5	04-06-2024	10:22:54	16.861	96.1	7.52	53661	8	156.5	-0.01	0.16	1.49	12.862
Week 5	04-06-2024	10:22:55	16.861	96.1	7.52	53661	8	156.3	-0.01	0.15	1.47	12.876
Week 5	04-06-2024	10:22:56	16.861	96.1	7.52	53661	8	156.1	-0.01	0.15	1.46	12.92
Week 5	04-06-2024	10:22:57	16.861	96.1	7.52	53662	8	155.9	-0.01	0.15	1.47	13.251
Week 5	04-06-2024	10:22:58	16.861	96.1	7.52	53662	8	155.7	-0.02	0.15	1.46	13.399
Week 5	04-06-2024	10:22:59	16.861	96.1	7.52	53662	8	155.5	-0.02	0.16	1.5	13.488
Week 5	04-06-2024	10:23:00	16.861	96.1	7.52	53663	8	155.4	-0.03	0.18	1.56	13.579
Week 5	04-06-2024	10:23:01	16.861	96.1	7.52	53663	8.01	155.2	-0.02	0.19	1.6	13.667
Week 5	04-06-2024	10:23:02	16.861	96.1	7.51	53664	8.01	155.1	-0.02	0.2	1.65	13.762
Week 5	04-06-2024	10:23:03	16.861	96.1	7.51	53664	8.01	154.9	-0.02	0.2	1.64	13.82
Week 5	04-06-2024	10:23:04	16.861	96.1	7.51	53665	8.01	154.8	-0.01	0.22	1.7	13.875
Week 5	04-06-2024	10:23:05	16.861	96.1	7.51	53665	8.01	154.7	-0.01	0.24	1.79	13.919
Week 5	04-06-2024	10:23:06	16.861	96	7.51	53665	8.01	154.6	-0.01	0.26	1.84	13.943
Week 5	04-06-2024	10:23:07	16.861	96	7.51	53666	8.01	154.5	-0.01	0.26	1.85	13.937
Week 5	04-06-2024	10:23:08	16.862	96	7.51	53666	8.01	154.3	-0.01	0.27	1.89	13.928
Week 5	04-06-2024	10:23:09	16.862	96	7.51	53666	8.01	154.3	-0.02	0.28	1.93	13.914
Week 5	04-06-2024	10:23:10	16.862	96	7.51	53666	8.01	154.2	-0.02	0.28	1.95	13.9
Week 5	04-06-2024	10:23:11	16.862	96	7.51	53666	8.01	154.1	-0.02	0.28	1.93	13.904
Week 5	04-06-2024	10:23:12	16.862	96	7.51	53666	8.01	154	-0.02	0.27	1.88	13.917
Week 5	04-06-2024	10:23:13	16.862	96	7.51	53666	8.01	153.9	-0.02	0.26	1.87	13.925
Week 5	04-06-2024	10:23:14	16.862	96	7.51	53666	8.01	153.8	-0.02	0.27	1.89	13.938
Week 5	04-06-2024	10:23:15	16.862	96	7.51	53667	8.01	153.8	-0.02	0.25	1.83	13.967
Week 5	04-06-2024	10:23:16	16.862	96	7.51	53666	8.01	153.7	-0.02	0.23	1.75	14.658
Week 5	04-06-2024	10:23:17	16.862	96	7.51	53667	8.01	153.6	-0.03	0.21	1.69	14.95
Week 5	04-06-2024	10:23:18	16.862	96	7.51	53667	8.01	153.5	-0.03	0.21	1.67	15.3
Week 5	04-06-2024	10:23:19	16.862	96	7.51	53667	8.01	153.4	-0.03	0.2	1.66	15.367
Week 5	04-06-2024	10:23:20	16.862	96	7.51	53667	8.01	153.3	-0.03	0.21	1.69	15.397
Week 5	04-06-2024	10:23:21	16.862	96	7.51	53667	8.01	153.2	-0.03	0.23	1.74	15.466
Week 5	04-06-2024	10:23:22	16.862	96	7.51	53668	8.01	153.1	-0.02	0.23	1.74	15.639
Week 5	04-06-2024	10:23:23	16.862	96	7.51	53668	8.01	153	-0.02	0.23	1.76	15.805
Week 5	04-06-2024	10:23:24	16.863	96	7.51	53668	8.01	152.9	-0.01	0.22	1.72	15.907
Week 5	04-06-2024	10:23:25	16.863	96	7.51	53668	8.01	152.8	0	0.22	1.72	16.009
Week 5	04-06-2024	10:23:26	16.863	95.9	7.51	53668	8.02	152.7	0	0.22	1.71	16.778
Week 5	04-06-2024	10:23:27	16.863	95.9	7.5	53669	8.02	152.6	0	0.24	1.78	17.039
Week 5	04-06-2024	10:23:28	16.863	95.9	7.5	53669	8.02	152.6	0	0.24	1.79	17.226
Week 5	04-06-2024	10:23:29	16.863	95.9	7.5	53669	8.02	152.5	0	0.25	1.84	17.297
Week 5	04-06-2024	10:23:30	16.863	95.9	7.5	53669	8.02	152.4	0	0.25	1.83	17.339
Week 5	04-06-2024	10:23:31	16.863	95.9	7.5	53670	8.02	152.3	0	0.25	1.84	17.407
Week 5	04-06-2024	10:23:32	16.863	95.9	7.5	53670	8.02	152.2	0.01	0.25	1.81	17.535
Week 5	04-06-2024	10:23:33	16.863	95.9	7.5	53670	8.02	152.1	0	0.24	1.8	17.612
Week 5	04-06-2024	10:23:34	16.863	95.9	7.5	53671	8.02	152	0	0.23	1.75	17.69
Week 5	04-06-2024	10:23:35	16.863	95.9	7.5	53671	8.02	151.9	0	0.23	1.75	17.78
Week 5	04-06-2024	10:23:36	16.864	95.9	7.5	53671	8.02	151.8	0	0.23	1.75	17.871
Week 5	04-06-2024	10:23:37	16.864	95.9	7.5	53671	8.02	151.8	0	0.24	1.77	17.942
Week 5	04-06-2024	10:23:38	16.864	95.9	7.5	53672	8.02	151.7	-0.01	0.25	1.83	18.714
Week 5	04-06-2024	10:23:39	16.864	95.9	7.5	53672	8.02	151.6	-0.01	0.26	1.86	18.694
Week 5	04-06-2024	10:23:40	16.864	95.9	7.5	53672	8.02	151.5	-0.01	0.26	1.85	18.929
Week 5	04-06-2024	10:23:41	16.864	95.9	7.5	53672	8.02	151.4	-0.01	0.24	1.8	18.766
Week 5	04-06-2024	10:23:42	16.864	95.9	7.5	53672	8.02	151.3	-0.01	0.21	1.69	18.846
Week 5	04-06-2024	10:23:43	16.864	95.8	7.5	53672	8.02	151.2	-0.01	0.21	1.67	18.92
Week 5	04-06-2024	10:23:44	16.863	95.8	7.5	53672	8.02	151.1	-0.01	0.2	1.63	18.961
Week 5	04-06-2024	10:23:45	16.863	95.8	7.5	53672	8.02	151.1	0	0.21	1.68	19.048
Week 5	04-06-2024	10:23:46	16.863	95.8	7.5	53672	8.02	151	-0.01	0.2	1.64	19.078
Week 5	04-06-2024	10:23:47	16.863	95.8	7.49	53671	8.02	150.9	0	0.2	1.62	19.111

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 5	04-06-2024	10:23:48	16.863	95.8	7.49	53671	8.02	150.8	-0.01	0.19	1.6	19.163
Week 5	04-06-2024	10:23:49	16.863	95.8	7.49	53671	8.02	150.7	-0.01	0.17	1.52	19.171
Week 5	04-06-2024	10:23:50	16.863	95.8	7.49	53671	8.02	150.7	0	0.17	1.54	19.182
Week 5	04-06-2024	10:23:51	16.863	95.8	7.49	53671	8.02	150.6	0	0.18	1.56	19.215
Week 5	04-06-2024	10:23:52	16.862	95.8	7.49	53670	8.02	150.5	0.01	0.19	1.59	19.235
Week 5	04-06-2024	10:23:53	16.862	95.8	7.49	53671	8.02	150.4	0	0.22	1.7	19.239
Week 5	04-06-2024	10:23:54	16.862	95.8	7.49	53671	8.02	150.4	0.01	0.21	1.69	19.266
Week 5	04-06-2024	10:23:55	16.862	95.8	7.49	53671	8.02	150.3	0.01	0.22	1.72	19.276
Week 5	04-06-2024	10:23:56	16.862	95.8	7.49	53671	8.02	150.2	0.01	0.22	1.7	19.289
Week 5	04-06-2024	10:23:57	16.862	95.8	7.49	53670	8.02	150.1	0.01	0.23	1.73	19.304
Week 5	04-06-2024	10:23:58	16.862	95.8	7.49	53671	8.02	150.1	0.01	0.22	1.71	19.329
Week 5	04-06-2024	10:23:59	16.863	95.8	7.49	53670	8.02	150	0.01	0.21	1.68	19.335
Week 5	04-06-2024	10:24:00	16.863	95.8	7.49	53670	8.02	149.9	0.01	0.21	1.69	19.342
Week 5	04-06-2024	10:24:01	16.863	95.8	7.49	53670	8.03	149.9	0.01	0.2	1.64	19.365
Week 5	04-06-2024	10:24:02	16.863	95.8	7.49	53670	8.03	149.8	0.01	0.18	1.58	19.392
Week 5	04-06-2024	10:24:03	16.863	95.8	7.49	53670	8.03	149.7	0.01	0.17	1.54	20.177
Week 5	04-06-2024	10:24:04	16.863	95.8	7.49	53670	8.03	149.7	0.02	0.16	1.49	20.112
Week 5	04-06-2024	10:24:05	16.863	95.8	7.49	53670	8.03	149.6	0.02	0.15	1.47	20.384
Week 5	04-06-2024	10:24:06	16.863	95.8	7.49	53670	8.03	149.5	0.02	0.15	1.47	20.353
Week 5	04-06-2024	10:24:07	16.863	95.8	7.49	53669	8.03	149.5	0.02	0.16	1.48	20.229
Week 5	04-06-2024	10:24:08	16.863	95.8	7.49	53669	8.03	149.4	0.02	0.16	1.49	20.263
Week 5	04-06-2024	10:24:09	16.863	95.8	7.49	53669	8.03	149.3	0.02	0.17	1.55	20.268
Week 5	04-06-2024	10:24:10	16.863	95.8	7.49	53669	8.03	149.3	0.02	0.18	1.59	20.248
Week 5	04-06-2024	10:24:11	16.863	95.8	7.49	53669	8.03	149.2	0.02	0.2	1.62	20.236
Week 5	04-06-2024	10:24:12	16.863	95.8	7.49	53669	8.03	149.2	0.01	0.19	1.62	20.262
Week 5	04-06-2024	10:24:13	16.863	95.7	7.49	53669	8.03	149.1	0.02	0.19	1.62	20.292
Week 5	04-06-2024	10:24:14	16.863	95.7	7.49	53669	8.03	149.1	0.01	0.2	1.66	20.303
Week 5	04-06-2024	10:24:15	16.863	95.7	7.49	53669	8.03	149	0.02	0.21	1.69	20.304
Week 5	04-06-2024	10:24:16	16.863	95.7	7.49	53669	8.03	148.9	0.01	0.21	1.67	20.305
Week 5	04-06-2024	10:24:17	16.863	95.7	7.49	53669	8.03	148.9	0.01	0.21	1.68	20.305
Week 5	04-06-2024	10:24:18	16.864	95.7	7.49	53669	8.03	148.8	0.01	0.21	1.68	20.297
Week 5	04-06-2024	10:24:19	16.864	95.7	7.49	53668	8.03	148.8	0	0.22	1.7	20.289
Week 5	04-06-2024	10:24:20	16.864	95.7	7.49	53669	8.03	148.7	-0.01	0.21	1.69	20.274
Week 5	04-06-2024	10:24:21	16.864	95.7	7.49	53669	8.03	148.7	0	0.21	1.69	20.264
Week 5	04-06-2024	10:24:22	16.864	95.7	7.49	53668	8.03	148.6	0	0.21	1.69	20.251
Week 5	04-06-2024	10:24:23	16.864	95.7	7.49	53668	8.03	148.6	0	0.22	1.71	20.231
Week 5	04-06-2024	10:24:24	16.864	95.7	7.49	53668	8.03	148.5	0.01	0.22	1.71	20.206
Week 5	04-06-2024	10:24:25	16.864	95.7	7.49	53668	8.03	148.5	0.01	0.22	1.73	20.183
Week 5	04-06-2024	10:24:26	16.864	95.7	7.49	53668	8.03	148.4	0	0.23	1.77	19.276
Week 5	04-06-2024	10:24:27	16.864	95.7	7.49	53668	8.03	148.4	0	0.25	1.83	19.349
Week 5	04-06-2024	10:24:28	16.864	95.7	7.49	53668	8.03	148.3	0	0.25	1.81	19.056
Week 5	04-06-2024	10:24:29	16.864	95.8	7.49	53668	8.03	148.2	0.01	0.25	1.81	19.092
Week 5	04-06-2024	10:24:30	16.864	95.8	7.49	53668	8.03	148.2	0	0.25	1.82	18.903
Week 5	04-06-2024	10:24:31	16.864	95.8	7.49	53668	8.03	148.1	0.01	0.25	1.81	18.753
Week 5	04-06-2024	10:24:32	16.864	95.8	7.49	53668	8.03	148.1	0.01	0.24	1.79	18.707
Week 5	04-06-2024	10:24:33	16.864	95.8	7.49	53667	8.03	148	0.01	0.23	1.75	18.64
Week 5	04-06-2024	10:24:34	16.864	95.8	7.49	53667	8.03	148	0.01	0.24	1.77	18.569
Week 5	04-06-2024	10:24:35	16.863	95.8	7.49	53667	8.03	147.9	0.01	0.24	1.78	18.512
Week 5	04-06-2024	10:24:36	16.864	95.8	7.49	53667	8.03	147.9	0	0.23	1.76	18.467
Week 5	04-06-2024	10:24:37	16.864	95.8	7.49	53667	8.03	147.8	0	0.22	1.71	18.39
Week 5	04-06-2024	10:24:38	16.864	95.8	7.49	53667	8.03	147.7	0	0.2	1.64	18.331
Week 5	04-06-2024	10:24:39	16.863	95.8	7.49	53667	8.03	147.7	-0.01	0.22	1.7	18.291
Week 5	04-06-2024	10:24:40	16.863	95.8	7.49	53666	8.03	147.6	0	0.21	1.67	18.249
Week 5	04-06-2024	10:24:41	16.863	95.8	7.49	53666	8.03	147.6	-0.01	0.21	1.67	17.41
Week 5	04-06-2024	10:24:42	16.863	95.8	7.49	53666	8.03	147.5	0.01	0.21	1.68	17.376
Week 5	04-06-2024	10:24:43	16.863	95.8	7.49	53666	8.03	147.5	0	0.22	1.71	17.272
Week 5	04-06-2024	10:24:44	16.863	95.8	7.49	53666	8.03	147.4	-0.01	0.23	1.76	17.127
Week 5	04-06-2024	10:24:45	16.863	95.8	7.49	53666	8.03	147.3	-0.01	0.22	1.71	16.87
Week 5	04-06-2024	10:24:46	16.863	95.8	7.49	53666	8.03	147.3	-0.01	0.21	1.69	16.785
Week 5	04-06-2024	10:24:47	16.863	95.8	7.49	53666	8.03	147.2	-0.02	0.22	1.72	16.733
Week 5	04-06-2024	10:24:48	16.863	95.8	7.49	53666	8.03	147.2	-0.01	0.23	1.77	16.631
Week 5	04-06-2024	10:24:49	16.863	95.8	7.5	53666	8.03	147.1	-0.01	0.25	1.81	16.516
Week 5	04-06-2024	10:24:50	16.862	95.8	7.5	53665	8.03	147.1	0	0.23	1.76	16.386
Week 5	04-06-2024	10:24:51	16.862	95.8	7.5	53665	8.03	147	-0.01	0.24	1.8	15.336
Week 5	04-06-2024	10:24:52	16.862	95.8	7.5	53665	8.03	147	-0.01	0.23	1.76	15.224
Week 5	04-06-2024	10:24:53	16.862	95.9	7.5	53665	8.03	146.9	-0.01	0.24	1.77	15.202
Week 5	04-06-2024	10:24:54	16.862	95.9	7.5	53664	8.03	146.9	-0.02	0.23	1.75	15.163
Week 5	04-06-2024	10:24:55	16.862	95.9	7.5	53664	8.03	146.8	-0.02	0.23	1.77	14.97
Week 5	04-06-2024	10:24:56	16.862	95.9	7.5	53664	8.03	146.8	-0.02	0.25	1.82	14.939
Week 5	04-06-2024	10:24:57	16.862	95.9	7.5	53664	8.03	146.7	-0.02	0.27	1.89	14.88
Week 5	04-06-2024	10:24:58	16.862	95.9	7.5	53664	8.03	146.7	-0.01	0.26	1.86	14.824
Week 5	04-06-2024	10:24:59	16.862	95.9	7.5	53664	8.03	146.6	-0.01	0.25	1.82	14.798
Week 5	04-06-2024	10:25:00	16.862	95.9	7.5	53663	8.03	146.6	-0.01	0.25	1.84	14.759

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 5	04-06-2024	10:25:01	16.862	95.9	7.5	53664	8.03	146.5	-0.01	0.26	1.87	14.713
Week 5	04-06-2024	10:25:02	16.862	95.9	7.5	53663	8.03	146.5	-0.02	0.26	1.87	14.68
Week 5	04-06-2024	10:25:03	16.862	95.9	7.5	53663	8.03	146.4	-0.02	0.28	1.91	14.63
Week 5	04-06-2024	10:25:04	16.862	95.9	7.5	53663	8.03	146.4	-0.02	0.28	1.95	14.586
Week 5	04-06-2024	10:25:05	16.862	95.9	7.5	53663	8.03	146.4	-0.02	0.29	1.97	14.552
Week 5	04-06-2024	10:25:06	16.862	95.9	7.5	53663	8.03	146.3	-0.02	0.29	1.99	14.518
Week 5	04-06-2024	10:25:07	16.862	95.9	7.5	53664	8.03	146.3	-0.01	0.3	1.99	14.463
Week 5	04-06-2024	10:25:08	16.861	95.9	7.5	53663	8.03	146.2	0	0.29	1.98	14.419
Week 5	04-06-2024	10:25:09	16.861	95.9	7.5	53663	8.03	146.2	0.01	0.3	2	13.506
Week 5	04-06-2024	10:25:10	16.861	95.9	7.5	53663	8.03	146.1	0.01	0.3	1.99	13.418
Week 5	04-06-2024	10:25:11	16.861	95.9	7.5	53663	8.03	146.1	0.02	0.28	1.93	13.146
Week 5	04-06-2024	10:25:12	16.861	95.9	7.5	53663	8.03	146	0.03	0.28	1.93	13.14
Week 5	04-06-2024	10:25:13	16.861	95.9	7.5	53663	8.03	146	0.03	0.28	1.93	13.141
Week 5	04-06-2024	10:25:14	16.861	95.9	7.5	53663	8.03	145.9	0.02	0.28	1.92	13.095
Week 5	04-06-2024	10:25:15	16.861	95.9	7.5	53663	8.03	145.9	0.02	0.26	1.85	12.999
Week 5	04-06-2024	10:25:16	16.861	95.9	7.5	53663	8.03	145.9	0.01	0.25	1.84	12.933
Week 5	04-06-2024	10:25:17	16.861	95.9	7.5	53663	8.03	145.8	0.02	0.23	1.76	12.876
Week 5	04-06-2024	10:25:18	16.861	95.9	7.5	53663	8.03	145.8	0.03	0.23	1.76	12.806
Week 5	04-06-2024	10:25:19	16.861	95.9	7.5	53663	8.03	145.7	0.03	0.23	1.75	12.716
Week 5	04-06-2024	10:25:20	16.861	95.9	7.5	53663	8.03	145.7	0.04	0.22	1.72	12.643
Week 5	04-06-2024	10:25:21	16.861	95.9	7.5	53662	8.03	145.7	0.04	0.21	1.69	11.699
Week 5	04-06-2024	10:25:22	16.861	95.9	7.5	53662	8.03	145.6	0.04	0.22	1.71	11.519
Week 5	04-06-2024	10:25:23	16.861	95.9	7.5	53662	8.03	145.6	0.03	0.21	1.68	11.444
Week 5	04-06-2024	10:25:24	16.861	96	7.51	53662	8.03	145.5	0.03	0.21	1.69	11.352
Week 5	04-06-2024	10:25:25	16.861	96	7.51	53662	8.03	145.5	0.02	0.21	1.68	11.196
Week 5	04-06-2024	10:25:26	16.861	96	7.51	53661	8.03	145.5	0.01	0.21	1.69	11.119
Week 5	04-06-2024	10:25:27	16.861	96	7.51	53661	8.03	145.4	0.01	0.23	1.73	11.053
Week 5	04-06-2024	10:25:28	16.861	96	7.51	53661	8.03	145.4	0.01	0.23	1.77	10.948
Week 5	04-06-2024	10:25:29	16.861	96	7.51	53660	8.03	145.3	0.01	0.25	1.82	10.875
Week 5	04-06-2024	10:25:30	16.861	96	7.51	53658	8.03	145.3	0.01	0.23	1.76	10.798
Week 5	04-06-2024	10:25:31	16.861	96	7.51	53657	8.03	145.3	0.01	0.24	1.79	10.719
Week 5	04-06-2024	10:25:32	16.861	96	7.51	53655	8.03	145.2	0.01	0.24	1.8	10.648
Week 5	04-06-2024	10:25:33	16.86	96	7.51	53654	8.03	145.2	0	0.25	1.81	10.574
Week 5	04-06-2024	10:25:34	16.86	96	7.51	53652	8.03	145.1	0	0.26	1.86	9.748
Week 5	04-06-2024	10:25:35	16.86	96	7.51	53651	8.03	145.1	-0.01	0.26	1.85	9.929
Week 5	04-06-2024	10:25:36	16.86	96	7.51	53650	8.03	145.1	-0.02	0.24	1.8	9.791
Week 5	04-06-2024	10:25:37	16.86	96	7.51	53649	8.03	145	-0.01	0.26	1.84	9.614
Week 5	04-06-2024	10:25:38	16.86	96	7.51	53648	8.03	145	-0.02	0.25	1.82	9.593
Week 5	04-06-2024	10:25:39	16.86	96	7.51	53648	8.03	145	-0.03	0.25	1.81	9.516
Week 5	04-06-2024	10:25:40	16.86	96	7.51	53648	8.03	144.9	-0.03	0.25	1.81	9.444
Week 5	04-06-2024	10:25:41	16.86	96	7.51	53647	8.03	144.9	-0.03	0.26	1.85	9.334
Week 5	04-06-2024	10:25:42	16.86	96	7.51	53647	8.03	144.8	-0.03	0.27	1.88	9.264
Week 5	04-06-2024	10:25:43	16.86	96	7.51	53648	8.03	144.8	-0.03	0.28	1.93	9.203
Week 5	04-06-2024	10:25:44	16.861	96.1	7.51	53649	8.03	144.8	-0.04	0.28	1.95	9.14
Week 5	04-06-2024	10:25:45	16.861	96.1	7.51	53650	8.03	144.7	-0.03	0.29	1.95	9.072
Week 5	04-06-2024	10:25:46	16.861	96.1	7.51	53651	8.03	144.7	-0.03	0.29	1.97	9.012
Week 5	04-06-2024	10:25:47	16.861	96.1	7.51	53653	8.03	144.7	-0.04	0.3	2.02	8.357
Week 5	04-06-2024	10:25:48	16.862	96.1	7.52	53654	8.03	144.6	-0.03	0.29	1.97	8.13
Week 5	04-06-2024	10:25:49	16.862	96.1	7.52	53654	8.03	144.6	-0.03	0.29	1.95	8.042
Week 5	04-06-2024	10:25:50	16.862	96.1	7.52	53655	8.03	144.5	-0.02	0.29	1.97	7.921
Week 5	04-06-2024	10:25:51	16.862	96.1	7.52	53655	8.03	144.5	-0.03	0.28	1.92	7.778
Week 5	04-06-2024	10:25:52	16.863	96.1	7.52	53655	8.03	144.5	-0.02	0.27	1.88	7.703
Week 5	04-06-2024	10:25:53	16.863	96.1	7.52	53655	8.03	144.4	-0.02	0.26	1.86	7.588
Week 5	04-06-2024	10:25:54	16.863	96.1	7.52	53655	8.03	144.4	-0.02	0.25	1.82	7.492
Week 5	04-06-2024	10:25:55	16.863	96.1	7.52	53655	8.03	144.4	-0.02	0.24	1.78	7.411
Week 5	04-06-2024	10:25:56	16.863	96.1	7.52	53655	8.03	144.3	-0.02	0.23	1.74	7.322
Week 5	04-06-2024	10:25:57	16.863	96.1	7.52	53655	8.03	144.3	-0.02	0.23	1.73	7.248
Week 5	04-06-2024	10:25:58	16.863	96.1	7.52	53655	8.03	144.2	-0.01	0.22	1.72	6.353
Week 5	04-06-2024	10:25:59	16.863	96.1	7.52	53654	8.03	144.2	0	0.23	1.76	6.224
Week 5	04-06-2024	10:26:00	16.863	96.1	7.52	53653	8.03	144.2	-0.01	0.24	1.79	5.946
Week 5	04-06-2024	10:26:01	16.863	96.1	7.52	53651	8.03	144.1	0	0.24	1.77	5.905
Week 5	04-06-2024	10:26:02	16.863	96.2	7.52	53650	8.03	144.1	0	0.23	1.75	5.82
Week 5	04-06-2024	10:26:03	16.863	96.2	7.52	53649	8.03	144.1	-0.01	0.22	1.73	5.684
Week 5	04-06-2024	10:26:04	16.863	96.2	7.52	53648	8.03	144	0	0.22	1.7	5.575
Week 5	04-06-2024	10:26:05	16.863	96.2	7.52	53647	8.03	144	0	0.21	1.69	5.465
Week 5	04-06-2024	10:26:06	16.863	96.2	7.53	53647	8.03	143.9	0	0.22	1.7	5.361
Week 5	04-06-2024	10:26:07	16.863	96.2	7.53	53648	8.03	143.9	-0.01	0.22	1.7	4.439
Week 5	04-06-2024	10:26:08	16.863	96.2	7.53	53649	8.03	143.9	0	0.21	1.69	4.173
Week 5	04-06-2024	10:26:09	16.862	96.2	7.53	53650	8.03	143.8	0	0.22	1.72	4.073
Week 5	04-06-2024	10:26:10	16.862	96.2	7.53	53650	8.03	143.8	0	0.22	1.72	3.907
Week 5	04-06-2024	10:26:11	16.862	96.2	7.53	53650	8.03	143.8	0	0.21	1.69	3.793
Week 5	04-06-2024	10:26:12	16.862	96.2	7.53	53652	8.03	143.7	0	0.21	1.69	3.661
Week 5	04-06-2024	10:26:13	16.862	96.2	7.53	53653	8.03	143.7	-0.01	0.21	1.69	3.569

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 5	04-06-2024	10:26:14	16.862	96.3	7.53	53654	8.03	143.7	-0.01	0.22	1.72	3.505
Week 5	04-06-2024	10:26:15	16.862	96.3	7.53	53655	8.03	143.6	-0.01	0.22	1.73	3.436
Week 5	04-06-2024	10:26:16	16.862	96.3	7.53	53656	8.03	143.6	-0.02	0.24	1.77	3.373
Week 5	04-06-2024	10:26:17	16.862	96.3	7.53	53657	8.03	143.6	-0.01	0.24	1.78	3.33
Week 5	04-06-2024	10:26:18	16.861	96.3	7.53	53659	8.03	143.5	-0.01	0.24	1.78	3.275
Week 5	04-06-2024	10:26:19	16.861	96.3	7.53	53659	8.03	143.5	-0.01	0.23	1.77	3.218
Week 5	04-06-2024	10:26:20	16.861	96.3	7.53	53659	8.03	143.5	-0.01	0.24	1.77	3.154
Week 5	04-06-2024	10:26:21	16.861	96.3	7.53	53657	8.03	143.4	0	0.24	1.8	2.275
Week 5	04-06-2024	10:26:22	16.86	96.3	7.53	53656	8.03	143.4	0	0.24	1.78	2.29
Week 5	04-06-2024	10:26:23	16.86	96.3	7.53	53656	8.04	143.4	-0.01	0.24	1.79	2.099
Week 5	04-06-2024	10:26:24	16.86	96.3	7.53	53656	8.04	143.3	-0.01	0.24	1.8	1.964
Week 5	04-06-2024	10:26:25	16.86	96.3	7.53	53656	8.04	143.3	0	0.25	1.81	1.921
Week 5	04-06-2024	10:26:26	16.86	96.3	7.53	53656	8.04	143.3	0	0.25	1.81	1.888
Week 5	04-06-2024	10:26:27	16.86	96.3	7.53	53655	8.04	143.2	-0.01	0.24	1.78	1.859
Week 5	04-06-2024	10:26:28	16.86	96.3	7.53	53655	8.04	143.2	0	0.23	1.75	1.822
Week 5	04-06-2024	10:26:29	16.86	96.3	7.53	53655	8.04	143.2	-0.01	0.23	1.75	1.782
Week 5	04-06-2024	10:26:30	16.861	96.3	7.53	53655	8.04	143.1	0	0.22	1.72	1.74
Week 5	04-06-2024	10:26:31	16.861	96.3	7.53	53654	8.04	143.1	-0.01	0.22	1.73	1.692
Week 5	04-06-2024	10:26:32	16.862	96.3	7.53	53654	8.04	143	-0.01	0.22	1.71	1.629
Week 5	04-06-2024	10:26:33	16.862	96.3	7.54	53654	8.04	143	-0.02	0.21	1.67	0.789
Week 5	04-06-2024	10:26:34	16.862	96.3	7.54	53653	8.04	143	-0.02	0.21	1.69	0.638
Week 5	04-06-2024	10:26:35	16.863	96.3	7.54	53653	8.04	142.9	-0.02	0.21	1.7	0.638
Week 5	04-06-2024	10:26:36	16.864	96.4	7.54	53652	8.04	142.9	-0.02	0.22	1.72	0.525
Week 5	04-06-2024	10:26:37	16.864	96.4	7.54	53652	8.04	142.9	-0.02	0.22	1.7	0.525
Week 5	04-06-2024	10:26:38	16.864	96.4	7.54	53651	8.04	142.8	-0.03	0.23	1.75	0.481
Week 5	04-06-2024	10:26:39	16.864	96.4	7.54	53651	8.04	142.8	0.37	0.25	1.81	0.375
Week 6	12-06-2024	10:03:27	16.8	104.2	10.1	53446	7.77	225.1	1.5	0.57	3	0.097
Week 6	12-06-2024	10:03:28	16.812	104.1	8.16	53453	7.81	222.9	1.48	0.56	2.96	0.106
Week 6	12-06-2024	10:03:29	16.811	103.9	8.14	53445	7.83	221.4	1.47	0.56	2.94	0.114
Week 6	12-06-2024	10:03:30	16.813	103.8	8.13	53517	7.84	220.2	1.51	0.56	2.94	0.123
Week 6	12-06-2024	10:03:31	16.817	103.7	8.12	53503	7.85	219.2	1.49	0.53	2.84	0.131
Week 6	12-06-2024	10:03:32	16.82	103.6	8.12	53479	7.86	218.4	1.47	0.54	2.89	0.141
Week 6	12-06-2024	10:03:33	16.822	103.5	8.11	53468	7.87	217.7	1.44	0.53	2.84	0.154
Week 6	12-06-2024	10:03:34	16.824	103.5	8.11	53479	7.88	217.1	1.43	0.53	2.83	0.977
Week 6	12-06-2024	10:03:35	16.825	103.4	8.1	53483	7.88	216.6	1.39	0.52	2.79	1.102
Week 6	12-06-2024	10:03:36	16.827	103.4	8.1	53488	7.88	216.1	1.32	0.52	2.8	1.264
Week 6	12-06-2024	10:03:37	16.829	103.3	8.09	53492	7.89	215.6	1.24	0.5	2.74	1.29
Week 6	12-06-2024	10:03:38	16.83	103.2	8.09	53496	7.89	215.2	1.16	0.49	2.68	1.385
Week 6	12-06-2024	10:03:39	16.831	103.2	8.08	53501	7.89	214.9	0.99	0.48	2.67	1.461
Week 6	12-06-2024	10:03:40	16.831	103.1	8.08	53507	7.9	214.6	0.76	0.49	2.71	1.514
Week 6	12-06-2024	10:03:41	16.832	103	8.07	53511	7.9	214.2	0.65	0.49	2.69	1.555
Week 6	12-06-2024	10:03:42	16.835	102.9	8.06	53514	7.9	214	0.51	0.49	2.7	1.628
Week 6	12-06-2024	10:03:43	16.837	102.9	8.05	53517	7.9	213.7	0.46	0.5	2.71	1.709
Week 6	12-06-2024	10:03:44	16.839	102.8	8.05	53523	7.9	213.4	0.34	0.5	2.72	2.42
Week 6	12-06-2024	10:03:45	16.84	102.7	8.04	53533	7.91	213.2	0.3	0.49	2.7	2.51
Week 6	12-06-2024	10:03:46	16.841	102.6	8.03	53542	7.91	213	0.25	0.52	2.81	2.709
Week 6	12-06-2024	10:03:47	16.843	102.5	8.03	53546	7.91	212.8	0.17	0.51	2.75	2.849
Week 6	12-06-2024	10:03:48	16.844	102.5	8.02	53551	7.91	211.8	0.12	0.53	2.82	2.892
Week 6	12-06-2024	10:03:49	16.844	102.4	8.02	53557	7.91	211.2	0.08	0.51	2.78	2.942
Week 6	12-06-2024	10:03:50	16.845	102.4	8.01	53561	7.91	210.7	0.05	0.54	2.87	2.983
Week 6	12-06-2024	10:03:51	16.846	102.3	8.01	53566	7.92	210.2	0.06	0.54	2.87	3.04
Week 6	12-06-2024	10:03:52	16.846	102.3	8.01	53569	7.92	209.9	0.05	0.55	2.91	3.068
Week 6	12-06-2024	10:03:53	16.848	102.3	8	53572	7.92	209.6	0.04	0.54	2.89	3.096
Week 6	12-06-2024	10:03:54	16.849	102.2	8	53574	7.93	209.3	0.04	0.53	2.85	3.142
Week 6	12-06-2024	10:03:55	16.85	102.2	8	53576	7.93	209	0.04	0.53	2.85	3.883
Week 6	12-06-2024	10:03:56	16.851	102.2	7.99	53578	7.93	208.8	0.03	0.54	2.89	4.038
Week 6	12-06-2024	10:03:57	16.852	102.1	7.99	53581	7.93	208.6	0.02	0.53	2.85	4.161
Week 6	12-06-2024	10:03:58	16.854	102.1	7.99	53584	7.93	208.4	0.02	0.55	2.92	3.93
Week 6	12-06-2024	10:03:59	16.855	102.1	7.99	53587	7.93	208.2	0.03	0.53	2.82	3.942
Week 6	12-06-2024	10:04:00	16.856	102.1	7.99	53590	7.93	208	0.03	0.53	2.85	4.078
Week 6	12-06-2024	10:04:01	16.857	102.1	7.99	53593	7.93	207.8	0.03	0.52	2.81	4.159
Week 6	12-06-2024	10:04:02	16.858	102	7.98	53595	7.93	207.7	0.04	0.52	2.82	4.169
Week 6	12-06-2024	10:04:03	16.859	102	7.98	53597	7.94	207.5	0.04	0.54	2.86	4.187
Week 6	12-06-2024	10:04:04	16.86	102	7.98	53599	7.94	207.3	0.04	0.55	2.9	4.22
Week 6	12-06-2024	10:04:05	16.861	102	7.98	53601	7.94	207.2	0.04	0.56	2.96	4.218
Week 6	12-06-2024	10:04:06	16.863	102	7.98	53604	7.94	207	0.04	0.57	2.99	4.24
Week 6	12-06-2024	10:04:07	16.863	101.9	7.98	53606	7.94	206.8	0.04	0.58	3.01	4.277
Week 6	12-06-2024	10:04:08	16.864	101.9	7.97	53607	7.94	206.7	0.04	0.57	2.99	4.335
Week 6	12-06-2024	10:04:09	16.865	101.9	7.97	53609	7.94	206.5	0.04	0.57	2.97	4.388
Week 6	12-06-2024	10:04:10	16.866	101.9	7.97	53610	7.94	206.4	0.04	0.6	3.07	5.234
Week 6	12-06-2024	10:04:11	16.867	101.9	7.97	53612	7.94	206.2	0.04	0.62	3.16	4.955
Week 6	12-06-2024	10:04:12	16.868	101.8	7.97	53614	7.94	206.1	0.04	0.66	3.3	5.39
Week 6	12-06-2024	10:04:13	16.869	101.8	7.96	53615	7.94	206	0.04	0.66	3.29	5.527

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 6	12-06-2024	10:04:14	16.87	101.8	7.96	53617	7.94	205.9	0.03	0.63	3.22	5.646
Week 6	12-06-2024	10:04:15	16.871	101.7	7.96	53618	7.94	205.7	0.03	0.65	3.28	5.862
Week 6	12-06-2024	10:04:16	16.872	101.7	7.96	53619	7.94	205.6	0.03	0.64	3.23	6.058
Week 6	12-06-2024	10:04:17	16.872	101.7	7.95	53620	7.94	205.4	0.04	0.65	3.26	7.012
Week 6	12-06-2024	10:04:18	16.872	101.7	7.95	53622	7.94	205.3	0.04	0.65	3.28	7.177
Week 6	12-06-2024	10:04:19	16.87	101.7	7.95	53623	7.94	205.2	0.04	0.68	3.4	7.442
Week 6	12-06-2024	10:04:20	16.869	101.6	7.95	53626	7.94	205.1	0.05	0.71	3.49	7.476
Week 6	12-06-2024	10:04:21	16.868	101.6	7.95	53628	7.94	205	0.05	0.72	3.52	7.689
Week 6	12-06-2024	10:04:22	16.867	101.6	7.95	53630	7.93	205	0.05	0.71	3.51	7.967
Week 6	12-06-2024	10:04:23	16.866	101.6	7.95	53632	7.93	204.9	0.04	0.66	3.31	8.219
Week 6	12-06-2024	10:04:24	16.865	101.6	7.95	53634	7.93	204.9	0.04	0.66	3.31	8.38
Week 6	12-06-2024	10:04:25	16.864	101.6	7.95	53636	7.93	204.9	0.05	0.69	3.43	8.516
Week 6	12-06-2024	10:04:26	16.863	101.6	7.95	53639	7.93	204.9	0.04	0.68	3.37	9.395
Week 6	12-06-2024	10:04:27	16.862	101.6	7.95	53641	7.93	204.8	0.05	0.71	3.49	9.349
Week 6	12-06-2024	10:04:28	16.861	101.6	7.95	53643	7.92	204.7	0.04	0.71	3.5	9.489
Week 6	12-06-2024	10:04:29	16.859	101.6	7.95	53646	7.92	204.7	0.05	0.69	3.4	9.613
Week 6	12-06-2024	10:04:30	16.858	101.6	7.95	53649	7.92	204.6	0.05	0.68	3.37	9.622
Week 6	12-06-2024	10:04:31	16.858	101.6	7.95	53650	7.92	204.4	0.05	0.67	3.36	9.701
Week 6	12-06-2024	10:04:32	16.858	101.6	7.94	53651	7.92	204.3	0.05	0.66	3.3	9.784
Week 6	12-06-2024	10:04:33	16.859	101.5	7.94	53651	7.92	204	0.05	0.65	3.27	9.889
Week 6	12-06-2024	10:04:34	16.859	101.5	7.94	53650	7.93	203.8	0.04	0.66	3.31	9.958
Week 6	12-06-2024	10:04:35	16.859	101.5	7.94	53651	7.93	203.5	0.03	0.67	3.33	10.049
Week 6	12-06-2024	10:04:36	16.859	101.5	7.94	53651	7.93	203.3	0.03	0.65	3.26	10.963
Week 6	12-06-2024	10:04:37	16.859	101.5	7.94	53650	7.93	203	0.04	0.66	3.3	11.185
Week 6	12-06-2024	10:04:38	16.859	101.5	7.94	53650	7.93	202.7	0.04	0.66	3.29	11.601
Week 6	12-06-2024	10:04:39	16.859	101.4	7.94	53649	7.94	202.4	0.04	0.64	3.25	11.476
Week 6	12-06-2024	10:04:40	16.86	101.4	7.93	53649	7.94	202.2	0.04	0.65	3.27	11.552
Week 6	12-06-2024	10:04:41	16.86	101.4	7.93	53648	7.94	201.9	0.04	0.66	3.31	11.639
Week 6	12-06-2024	10:04:42	16.86	101.4	7.93	53648	7.95	201.5	0.04	0.65	3.27	11.767
Week 6	12-06-2024	10:04:43	16.859	101.3	7.93	53648	7.95	201.2	0.03	0.68	3.39	11.928
Week 6	12-06-2024	10:04:44	16.856	101.3	7.92	53648	7.95	200.9	0.03	0.69	3.41	12.044
Week 6	12-06-2024	10:04:45	16.853	101.3	7.92	53647	7.96	200.5	0.03	0.73	3.57	12.967
Week 6	12-06-2024	10:04:46	16.848	101.2	7.92	53647	7.96	200.2	0.02	0.79	3.78	13.116
Week 6	12-06-2024	10:04:47	16.845	101.2	7.92	53647	7.97	199.8	0.02	0.82	3.88	13.36
Week 6	12-06-2024	10:04:48	16.841	101.2	7.92	53647	7.97	199.4	0.02	0.82	3.89	13.42
Week 6	12-06-2024	10:04:49	16.837	101.1	7.91	53647	7.98	199.1	0.03	0.86	4.03	13.386
Week 6	12-06-2024	10:04:50	16.832	101.1	7.91	53646	7.98	198.7	0.03	0.9	4.16	13.479
Week 6	12-06-2024	10:04:51	16.828	101.1	7.91	53646	7.98	198.3	0.02	0.93	4.29	13.646
Week 6	12-06-2024	10:04:52	16.823	101.1	7.91	53646	7.99	198	0.02	0.91	4.2	13.778
Week 6	12-06-2024	10:04:53	16.819	101.1	7.91	53644	7.99	197.7	0.02	0.91	4.22	14.588
Week 6	12-06-2024	10:04:54	16.815	101.1	7.91	53643	7.99	197.4	0.02	0.88	4.12	14.801
Week 6	12-06-2024	10:04:55	16.812	101.1	7.91	53642	8	197.2	0.03	0.91	4.22	14.83
Week 6	12-06-2024	10:04:56	16.809	101.1	7.91	53641	8	196.9	0.03	0.9	4.19	15.07
Week 6	12-06-2024	10:04:57	16.808	101.1	7.92	53640	8	196.7	0.03	0.88	4.09	15.264
Week 6	12-06-2024	10:04:58	16.806	101.1	7.92	53640	8	196.5	0.03	0.89	4.16	15.452
Week 6	12-06-2024	10:04:59	16.805	101.1	7.92	53639	8	196.4	0.04	0.93	4.3	15.58
Week 6	12-06-2024	10:05:00	16.801	101.1	7.92	53638	8.01	196.2	0.04	0.91	4.23	15.71
Week 6	12-06-2024	10:05:01	16.798	101.1	7.92	53637	8.01	196	0.05	0.93	4.28	15.796
Week 6	12-06-2024	10:05:02	16.795	101.1	7.92	53636	8.01	195.8	0.05	0.93	4.3	15.867
Week 6	12-06-2024	10:05:03	16.792	101.1	7.92	53636	8.01	195.6	0.06	0.93	4.3	16.795
Week 6	12-06-2024	10:05:04	16.79	101.1	7.92	53635	8.01	195.4	0.07	0.95	4.37	16.949
Week 6	12-06-2024	10:05:05	16.787	101.1	7.92	53633	8.01	195.2	0.07	1	4.55	17.311
Week 6	12-06-2024	10:05:06	16.784	101.1	7.92	53632	8.02	195.1	0.08	1.02	4.63	17.204
Week 6	12-06-2024	10:05:07	16.779	101.1	7.92	53632	8.02	194.9	0.09	0.98	4.48	17.212
Week 6	12-06-2024	10:05:08	16.776	101.1	7.92	53631	8.02	194.7	0.09	0.99	4.52	17.212
Week 6	12-06-2024	10:05:09	16.772	101.1	7.92	53631	8.02	194.5	0.09	0.97	4.43	17.305
Week 6	12-06-2024	10:05:10	16.769	101.1	7.92	53630	8.02	194.3	0.1	0.95	4.35	17.42
Week 6	12-06-2024	10:05:11	16.767	101.1	7.93	53629	8.02	194.2	0.1	0.98	4.46	17.532
Week 6	12-06-2024	10:05:12	16.766	101.1	7.93	53629	8.02	194	0.11	0.99	4.5	18.35
Week 6	12-06-2024	10:05:13	16.765	101.2	7.93	53629	8.02	193.9	0.08	0.99	4.5	18.232
Week 6	12-06-2024	10:05:14	16.764	101.2	7.93	53628	8.03	193.7	0.09	1.01	4.59	18.279
Week 6	12-06-2024	10:05:15	16.763	101.2	7.93	53629	8.03	193.6	0.08	1.05	4.74	18.312
Week 6	12-06-2024	10:05:16	16.762	101.2	7.93	53629	8.03	193.5	0.08	1.03	4.67	18.43
Week 6	12-06-2024	10:05:17	16.761	101.2	7.93	53629	8.03	193.3	0.07	1.06	4.77	18.596
Week 6	12-06-2024	10:05:18	16.761	101.2	7.93	53630	8.03	193.2	0.07	1.11	4.94	18.742
Week 6	12-06-2024	10:05:19	16.761	101.2	7.93	53630	8.03	193	0.07	1.1	4.9	19.519
Week 6	12-06-2024	10:05:20	16.761	101.2	7.93	53629	8.03	192.9	0.07	1.11	4.93	19.524
Week 6	12-06-2024	10:05:21	16.76	101.2	7.93	53629	8.03	192.8	0.07	1.11	4.95	19.713
Week 6	12-06-2024	10:05:22	16.759	101.2	7.93	53628	8.03	192.7	0.08	1.08	4.82	19.842
Week 6	12-06-2024	10:05:23	16.758	101.2	7.93	53628	8.03	192.6	0.07	1.06	4.77	19.918
Week 6	12-06-2024	10:05:24	16.758	101.2	7.93	53628	8.03	192.4	0.06	1.05	4.72	19.968
Week 6	12-06-2024	10:05:25	16.757	101.2	7.93	53628	8.04	192.3	0.06	1.03	4.66	20.082
Week 6	12-06-2024	10:05:26	16.756	101.2	7.93	53629	8.04	192.2	0.05	1.01	4.58	20.921

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 6	12-06-2024	10:05:27	16.755	101.2	7.93	53630	8.04	192.1	0.05	1	4.56	20.963
Week 6	12-06-2024	10:05:28	16.755	101.2	7.93	53630	8.04	192	0.05	0.96	4.4	21.111
Week 6	12-06-2024	10:05:29	16.755	101.2	7.93	53631	8.04	191.8	0.05	0.97	4.44	21.154
Week 6	12-06-2024	10:05:30	16.756	101.2	7.93	53632	8.04	191.7	0.06	0.99	4.52	21.282
Week 6	12-06-2024	10:05:31	16.755	101.2	7.93	53633	8.04	191.6	0.06	1	4.55	21.398
Week 6	12-06-2024	10:05:32	16.754	101.2	7.93	53635	8.04	191.5	0.06	0.99	4.52	22.271
Week 6	12-06-2024	10:05:33	16.754	101.2	7.93	53637	8.04	191.4	0.06	0.99	4.51	22.113
Week 6	12-06-2024	10:05:34	16.753	101.2	7.93	53638	8.04	191.3	0.06	1.01	4.56	22.254
Week 6	12-06-2024	10:05:35	16.753	101.2	7.93	53640	8.04	191.2	0.06	1.03	4.64	22.333
Week 6	12-06-2024	10:05:36	16.752	101.2	7.93	53641	8.04	191.1	0.06	1.06	4.77	22.376
Week 6	12-06-2024	10:05:37	16.751	101.2	7.93	53642	8.04	191	0.05	1.1	4.92	22.433
Week 6	12-06-2024	10:05:38	16.75	101.2	7.93	53643	8.04	190.8	0.06	1.13	5.02	22.57
Week 6	12-06-2024	10:05:39	16.749	101.2	7.93	53644	8.05	190.7	0.07	1.12	4.96	22.702
Week 6	12-06-2024	10:05:40	16.748	101.2	7.93	53645	8.05	190.6	0.12	1.07	4.81	22.802
Week 6	12-06-2024	10:05:41	16.748	101.2	7.93	53645	8.05	190.5	0.12	1.09	4.86	22.883
Week 6	12-06-2024	10:05:42	16.746	101.2	7.93	53645	8.05	190.4	0.12	1.09	4.86	23.884
Week 6	12-06-2024	10:05:43	16.745	101.2	7.93	53645	8.05	190.3	0.09	0.52	2.8	23.83
Week 6	12-06-2024	10:05:44	16.745	101.1	7.93	53645	8.05	190.2	0.1	1.17	5.17	24.13
Week 6	12-06-2024	10:05:45	16.744	101.1	7.93	53645	8.05	190.1	0.1	0.76	3.68	24.262
Week 6	12-06-2024	10:05:46	16.744	101.1	7.93	53645	8.05	190	0.09	1.21	5.3	24.376
Week 6	12-06-2024	10:05:47	16.744	101.1	7.93	53645	8.05	189.9	0.09	1.21	5.3	24.491
Week 6	12-06-2024	10:05:48	16.744	101.1	7.93	53645	8.05	189.8	0.1	1.19	5.25	24.58
Week 6	12-06-2024	10:05:49	16.744	101.1	7.93	53645	8.05	189.7	0.09	1.12	4.96	24.678
Week 6	12-06-2024	10:05:50	16.744	101.1	7.93	53646	8.05	189.6	0.09	1.07	4.81	24.761
Week 6	12-06-2024	10:05:51	16.744	101.1	7.93	53646	8.05	189.5	0.09	1.02	4.63	24.819
Week 6	12-06-2024	10:05:52	16.744	101.1	7.93	53646	8.05	189.4	0.09	0.98	4.47	24.77
Week 6	12-06-2024	10:05:53	16.744	101.1	7.93	53646	8.05	189.3	0.08	0.96	4.4	23.765
Week 6	12-06-2024	10:05:54	16.744	101.1	7.93	53646	8.05	189.3	0.08	0.95	4.35	23.76
Week 6	12-06-2024	10:05:55	16.745	101.1	7.93	53646	8.05	189.2	0.06	0.95	4.35	23.643
Week 6	12-06-2024	10:05:56	16.745	101.1	7.93	53645	8.05	189.1	0.06	0.93	4.31	23.183
Week 6	12-06-2024	10:05:57	16.745	101.1	7.93	53645	8.05	189	0.06	0.95	4.35	23.088
Week 6	12-06-2024	10:05:58	16.745	101.1	7.93	53645	8.05	188.9	0.05	0.93	4.31	22.901
Week 6	12-06-2024	10:05:59	16.745	101.2	7.93	53645	8.05	188.8	0.06	0.93	4.29	22.063
Week 6	12-06-2024	10:06:00	16.745	101.2	7.93	53644	8.05	188.7	0.05	0.95	4.35	21.909
Week 6	12-06-2024	10:06:01	16.745	101.2	7.93	53643	8.06	188.6	0.06	0.95	4.37	21.902
Week 6	12-06-2024	10:06:02	16.745	101.2	7.93	53643	8.06	188.5	0.06	0.95	4.37	21.893
Week 6	12-06-2024	10:06:03	16.746	101.2	7.93	53642	8.06	188.4	0.06	0.97	4.43	21.768
Week 6	12-06-2024	10:06:04	16.746	101.2	7.93	53642	8.06	188.4	0.06	1	4.54	21.561
Week 6	12-06-2024	10:06:05	16.747	101.2	7.94	53642	8.06	188.3	0.05	1.02	4.6	21.467
Week 6	12-06-2024	10:06:06	16.748	101.2	7.94	53642	8.06	188.2	0.05	1.01	4.58	21.347
Week 6	12-06-2024	10:06:07	16.748	101.2	7.94	53642	8.06	188.1	0.05	1.04	4.71	21.244
Week 6	12-06-2024	10:06:08	16.749	101.2	7.94	53643	8.06	188	0.06	1.04	4.7	20.576
Week 6	12-06-2024	10:06:09	16.75	101.3	7.94	53644	8.06	187.9	0.06	1.01	4.59	20.697
Week 6	12-06-2024	10:06:10	16.751	101.3	7.94	53645	8.06	187.9	0.06	1.01	4.57	20.275
Week 6	12-06-2024	10:06:11	16.752	101.3	7.94	53646	8.06	187.8	0.07	1.04	4.69	20.127
Week 6	12-06-2024	10:06:12	16.753	101.3	7.94	53647	8.06	187.7	0.06	1	4.55	20.128
Week 6	12-06-2024	10:06:13	16.755	101.3	7.94	53649	8.06	187.6	0.06	1.02	4.61	20.036
Week 6	12-06-2024	10:06:14	16.756	101.3	7.94	53650	8.06	187.5	0.06	1.01	4.56	19.864
Week 6	12-06-2024	10:06:15	16.757	101.3	7.94	53652	8.06	187.5	0.07	0.99	4.52	19.748
Week 6	12-06-2024	10:06:16	16.758	101.3	7.94	53654	8.06	187.4	0.06	0.98	4.48	19.651
Week 6	12-06-2024	10:06:17	16.759	101.3	7.94	53655	8.06	187.3	0.05	0.97	4.45	18.939
Week 6	12-06-2024	10:06:18	16.76	101.3	7.94	53656	8.06	187.2	0.05	0.94	4.33	18.82
Week 6	12-06-2024	10:06:19	16.761	101.4	7.94	53657	8.06	187.2	0.06	0.9	4.18	19.114
Week 6	12-06-2024	10:06:20	16.762	101.4	7.94	53658	8.06	187.1	0.06	0.93	4.27	19.061
Week 6	12-06-2024	10:06:21	16.763	101.4	7.94	53659	8.06	187	0.07	0.96	4.42	18.884
Week 6	12-06-2024	10:06:22	16.763	101.4	7.94	53659	8.06	186.9	0.06	0.95	4.37	18.71
Week 6	12-06-2024	10:06:23	16.764	101.4	7.94	53660	8.06	186.9	0.07	0.99	4.49	18.592
Week 6	12-06-2024	10:06:24	16.765	101.4	7.95	53660	8.06	186.8	0.07	0.98	4.45	18.48
Week 6	12-06-2024	10:06:25	16.766	101.4	7.95	53661	8.06	186.7	0.07	1.01	4.57	18.425
Week 6	12-06-2024	10:06:26	16.767	101.4	7.94	53661	8.06	186.6	0.06	0.99	4.5	18.386
Week 6	12-06-2024	10:06:27	16.767	101.4	7.95	53661	8.06	186.6	0.06	0.98	4.46	18.318
Week 6	12-06-2024	10:06:28	16.768	101.4	7.95	53661	8.06	186.5	0.06	1	4.54	18.255
Week 6	12-06-2024	10:06:29	16.769	101.4	7.95	53660	8.06	186.4	0.06	1.03	4.65	17.372
Week 6	12-06-2024	10:06:30	16.769	101.4	7.95	53660	8.06	186.4	0.06	1.05	4.73	17.261
Week 6	12-06-2024	10:06:31	16.769	101.4	7.95	53661	8.06	186.3	0.06	1.03	4.67	17.17
Week 6	12-06-2024	10:06:32	16.769	101.4	7.95	53661	8.06	186.3	0.06	1.02	4.62	16.987
Week 6	12-06-2024	10:06:33	16.77	101.4	7.95	53662	8.06	186.2	0.06	0.97	4.42	16.902
Week 6	12-06-2024	10:06:34	16.77	101.4	7.95	53662	8.06	186.1	0.06	0.94	4.32	16.783
Week 6	12-06-2024	10:06:35	16.771	101.4	7.95	53662	8.06	186.1	0.06	0.92	4.27	16.671
Week 6	12-06-2024	10:06:36	16.773	101.4	7.95	53663	8.06	186	0.05	0.88	4.09	16.639
Week 6	12-06-2024	10:06:37	16.774	101.4	7.95	53663	8.06	186	0.05	0.89	4.13	16.582
Week 6	12-06-2024	10:06:38	16.775	101.4	7.95	53664	8.06	185.9	0.04	0.89	4.16	16.497
Week 6	12-06-2024	10:06:39	16.776	101.4	7.95	53664	8.06	185.8	0.04	0.89	4.15	16.411

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 6	12-06-2024	10:06:40	16.778	101.4	7.95	53665	8.06	185.8	0.04	0.89	4.14	16.33
Week 6	12-06-2024	10:06:41	16.779	101.4	7.94	53665	8.06	185.7	0.03	0.87	4.09	16.264
Week 6	12-06-2024	10:06:42	16.781	101.4	7.95	53666	8.06	185.7	0.03	0.86	4.02	15.387
Week 6	12-06-2024	10:06:43	16.783	101.4	7.94	53667	8.06	185.6	0.03	0.83	3.92	15.175
Week 6	12-06-2024	10:06:44	16.784	101.4	7.94	53667	8.06	185.6	0.03	0.84	3.96	14.981
Week 6	12-06-2024	10:06:45	16.786	101.4	7.94	53667	8.06	185.5	0.03	0.85	3.99	14.949
Week 6	12-06-2024	10:06:46	16.787	101.4	7.94	53667	8.06	185.5	0.03	0.85	4	14.882
Week 6	12-06-2024	10:06:47	16.788	101.4	7.94	53667	8.06	185.4	0.03	0.86	4.02	14.827
Week 6	12-06-2024	10:06:48	16.788	101.4	7.94	53667	8.06	185.4	0.03	0.83	3.93	14.731
Week 6	12-06-2024	10:06:49	16.788	101.4	7.94	53668	8.06	185.3	0.02	0.83	3.94	14.634
Week 6	12-06-2024	10:06:50	16.789	101.4	7.94	53667	8.06	185.3	0.02	0.78	3.73	13.861
Week 6	12-06-2024	10:06:51	16.79	101.4	7.94	53667	8.06	185.2	0.02	0.74	3.61	13.828
Week 6	12-06-2024	10:06:52	16.791	101.4	7.94	53667	8.06	185.2	0.02	0.74	3.59	13.567
Week 6	12-06-2024	10:06:53	16.792	101.4	7.94	53667	8.06	185.1	0.02	0.73	3.56	13.471
Week 6	12-06-2024	10:06:54	16.793	101.4	7.94	53666	8.06	185.1	0.02	0.72	3.53	13.33
Week 6	12-06-2024	10:06:55	16.795	101.4	7.94	53666	8.06	185	0.03	0.68	3.39	13.191
Week 6	12-06-2024	10:06:56	16.797	101.4	7.94	53666	8.06	185	0.02	0.66	3.31	13.015
Week 6	12-06-2024	10:06:57	16.8	101.4	7.94	53666	8.06	184.9	0.03	0.65	3.29	12.923
Week 6	12-06-2024	10:06:58	16.803	101.4	7.94	53667	8.06	184.9	0.03	0.66	3.31	12.847
Week 6	12-06-2024	10:06:59	16.808	101.4	7.94	53667	8.06	184.8	0.03	0.65	3.26	12.805
Week 6	12-06-2024	10:07:00	16.812	101.4	7.94	53668	8.06	184.8	0.03	0.66	3.32	12.772
Week 6	12-06-2024	10:07:01	16.817	101.4	7.94	53668	8.06	184.7	0.03	0.7	3.47	12.739
Week 6	12-06-2024	10:07:02	16.82	101.3	7.93	53667	8.06	184.7	0.03	0.7	3.47	12.706
Week 6	12-06-2024	10:07:03	16.825	101.3	7.93	53668	8.06	184.6	0.03	0.72	3.51	12.658
Week 6	12-06-2024	10:07:04	16.828	101.3	7.93	53668	8.06	184.6	0.03	0.73	3.58	12.61
Week 6	12-06-2024	10:07:05	16.832	101.3	7.93	53668	8.06	184.5	0.04	0.72	3.53	12.57
Week 6	12-06-2024	10:07:06	16.835	101.3	7.93	53668	8.06	184.5	0.04	0.76	3.66	12.544
Week 6	12-06-2024	10:07:07	16.838	101.2	7.92	53667	8.06	184.4	0.04	0.77	3.69	12.517
Week 6	12-06-2024	10:07:08	16.84	101.2	7.92	53666	8.06	184.4	0.05	0.76	3.67	12.49
Week 6	12-06-2024	10:07:09	16.842	101.2	7.92	53666	8.06	184.3	0.05	0.75	3.62	12.447
Week 6	12-06-2024	10:07:10	16.843	101.1	7.91	53665	8.06	184.3	0.05	0.74	3.61	11.419
Week 6	12-06-2024	10:07:11	16.844	101.1	7.91	53664	8.06	184.2	0.05	0.72	3.52	11.064
Week 6	12-06-2024	10:07:12	16.845	101.1	7.91	53663	8.06	184.2	0.06	0.68	3.37	11.059
Week 6	12-06-2024	10:07:13	16.846	101	7.91	53662	8.06	184.1	0.06	0.66	3.3	11.304
Week 6	12-06-2024	10:07:14	16.846	101	7.9	53661	8.06	184.1	0.06	0.64	3.23	11.171
Week 6	12-06-2024	10:07:15	16.847	101	7.9	53661	8.06	184	0.06	0.62	3.17	11.022
Week 6	12-06-2024	10:07:16	16.848	101	7.9	53662	8.06	184	0.06	0.61	3.14	10.831
Week 6	12-06-2024	10:07:17	16.849	100.9	7.9	53662	8.06	183.9	0.06	0.59	3.07	10.649
Week 6	12-06-2024	10:07:18	16.85	100.9	7.9	53662	8.06	183.9	0.07	0.57	2.99	9.616
Week 6	12-06-2024	10:07:19	16.851	100.9	7.9	53661	8.06	183.9	0.06	0.58	3.02	9.569
Week 6	12-06-2024	10:07:20	16.852	100.9	7.89	53660	8.06	183.8	0.06	0.56	2.96	9.368
Week 6	12-06-2024	10:07:21	16.853	100.9	7.89	53660	8.06	183.8	0.06	0.59	3.07	9.284
Week 6	12-06-2024	10:07:22	16.854	100.9	7.89	53660	8.06	183.7	0.05	0.62	3.15	9.32
Week 6	12-06-2024	10:07:23	16.855	100.9	7.89	53661	8.06	183.7	0.04	0.64	3.24	9.246
Week 6	12-06-2024	10:07:24	16.856	100.9	7.89	53661	8.06	183.6	0.04	0.65	3.27	9.131
Week 6	12-06-2024	10:07:25	16.857	100.9	7.89	53664	8.06	183.6	0.03	0.66	3.3	9.01
Week 6	12-06-2024	10:07:26	16.858	100.8	7.89	53667	8.06	183.5	0.04	0.68	3.4	8.912
Week 6	12-06-2024	10:07:27	16.858	100.8	7.89	53671	8.06	183.5	0.03	0.69	3.43	8.876
Week 6	12-06-2024	10:07:28	16.859	100.8	7.89	53674	8.06	183.5	0.04	0.7	3.47	8.816
Week 6	12-06-2024	10:07:29	16.859	100.8	7.89	53676	8.06	183.4	0.03	0.72	3.51	7.766
Week 6	12-06-2024	10:07:30	16.86	100.8	7.89	53677	8.06	183.4	0.03	0.72	3.52	7.652
Week 6	12-06-2024	10:07:31	16.86	100.8	7.88	53678	8.06	183.3	0.03	0.73	3.57	7.578
Week 6	12-06-2024	10:07:32	16.861	100.8	7.88	53679	8.06	183.3	0.02	0.7	3.46	7.511
Week 6	12-06-2024	10:07:33	16.862	100.8	7.88	53679	8.06	183.2	0.02	0.69	3.42	7.352
Week 6	12-06-2024	10:07:34	16.863	100.8	7.88	53678	8.06	183.2	0.02	0.69	3.41	7.171
Week 6	12-06-2024	10:07:35	16.864	100.8	7.88	53676	8.06	183.2	0.02	0.69	3.42	6.302
Week 6	12-06-2024	10:07:36	16.865	100.8	7.88	53674	8.06	183.1	0.03	0.69	3.41	6.25
Week 6	12-06-2024	10:07:37	16.866	100.8	7.88	53672	8.06	183.1	0.04	0.65	3.29	6.151
Week 6	12-06-2024	10:07:38	16.867	100.8	7.88	53667	8.06	183	0.04	0.66	3.32	5.954
Week 6	12-06-2024	10:07:39	16.868	100.8	7.88	53661	8.06	183	0.05	0.67	3.36	5.871
Week 6	12-06-2024	10:07:40	16.869	100.8	7.88	53655	8.06	182.9	0.05	0.7	3.46	5.798
Week 6	12-06-2024	10:07:41	16.87	100.8	7.88	53648	8.06	182.9	0.04	0.72	3.51	5.719
Week 6	12-06-2024	10:07:42	16.871	100.8	7.88	53642	8.06	182.9	0.04	0.71	3.5	5.645
Week 6	12-06-2024	10:07:43	16.872	100.8	7.88	53636	8.06	182.8	0.03	0.7	3.45	5.531
Week 6	12-06-2024	10:07:44	16.873	100.8	7.88	53633	8.06	182.8	0.03	0.67	3.34	5.423
Week 6	12-06-2024	10:07:45	16.873	100.8	7.88	53630	8.06	182.7	0.03	0.66	3.29	5.34
Week 6	12-06-2024	10:07:46	16.874	100.8	7.88	53628	8.06	182.7	0.03	0.65	3.27	5.271
Week 6	12-06-2024	10:07:47	16.874	100.8	7.88	53627	8.06	182.6	0.03	0.65	3.26	4.399
Week 6	12-06-2024	10:07:48	16.873	100.8	7.88	53627	8.06	182.6	0.03	0.66	3.3	4.089
Week 6	12-06-2024	10:07:49	16.873	100.8	7.88	53627	8.06	182.6	0.03	0.64	3.24	4.038
Week 6	12-06-2024	10:07:50	16.873	100.8	7.88	53627	8.06	182.5	0.02	0.63	3.2	3.982
Week 6	12-06-2024	10:07:51	16.873	100.8	7.88	53627	8.06	182.5	0.02	0.61	3.12	3.969
Week 6	12-06-2024	10:07:52	16.873	100.8	7.88	53629	8.06	182.4	0.01	0.57	2.97	3.916

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 6	12-06-2024	10:07:53	16.873	100.8	7.88	53633	8.06	182.4	0.01	0.55	2.93	3.839
Week 6	12-06-2024	10:07:54	16.873	100.8	7.88	53638	8.06	182.3	0	0.57	2.99	3.756
Week 6	12-06-2024	10:07:55	16.872	100.8	7.88	53643	8.06	182.3	0	0.58	3.04	3.658
Week 6	12-06-2024	10:07:56	16.872	100.8	7.88	53646	8.06	182.2	0.01	0.59	3.04	3.574
Week 6	12-06-2024	10:07:57	16.872	100.8	7.88	53648	8.06	182.2	0.01	0.58	3.02	3.502
Week 6	12-06-2024	10:07:58	16.872	100.8	7.88	53650	8.06	182.2	0.02	0.57	2.98	3.449
Week 6	12-06-2024	10:07:59	16.872	100.8	7.88	53650	8.06	182.1	0.02	0.55	2.92	3.4
Week 6	12-06-2024	10:08:00	16.872	100.8	7.88	53651	8.06	182.1	0.02	0.54	2.87	3.351
Week 6	12-06-2024	10:08:01	16.872	100.8	7.88	53651	8.06	182	0.02	0.53	2.82	2.574
Week 6	12-06-2024	10:08:02	16.872	100.8	7.88	53651	8.06	182	0.03	0.51	2.76	2.421
Week 6	12-06-2024	10:08:03	16.872	100.8	7.88	53651	8.06	181.9	0.03	0.51	2.78	2.274
Week 6	12-06-2024	10:08:04	16.872	100.8	7.88	53650	8.06	181.9	0.02	0.52	2.82	2.332
Week 6	12-06-2024	10:08:05	16.871	100.8	7.88	53649	8.06	181.9	0.02	0.5	2.74	2.344
Week 6	12-06-2024	10:08:06	16.871	100.8	7.88	53645	8.06	181.8	0.02	0.49	2.69	2.302
Week 6	12-06-2024	10:08:07	16.871	100.8	7.88	53640	8.06	181.8	0.03	0.48	2.64	2.213
Week 6	12-06-2024	10:08:08	16.871	100.8	7.89	53635	8.06	181.7	0.03	0.47	2.61	2.139
Week 6	12-06-2024	10:08:09	16.87	100.8	7.89	53632	8.06	181.7	0.03	0.47	2.62	2.059
Week 6	12-06-2024	10:08:10	16.87	100.8	7.89	53630	8.06	181.7	0.03	0.46	2.58	1.946
Week 6	12-06-2024	10:08:11	16.87	100.8	7.89	53628	8.06	181.6	0.03	0.46	2.57	1.867
Week 6	12-06-2024	10:08:12	16.87	100.9	7.89	53627	8.06	181.6	0.03	0.44	2.5	1.8
Week 6	12-06-2024	10:08:13	16.871	100.9	7.89	53626	8.06	181.6	0.02	0.43	2.47	1.727
Week 6	12-06-2024	10:08:14	16.871	100.9	7.89	53625	8.06	181.5	0.02	0.42	2.45	0.886
Week 6	12-06-2024	10:08:15	16.871	100.9	7.89	53625	8.06	181.5	0.02	0.41	2.41	0.643
Week 6	12-06-2024	10:08:16	16.871	100.9	7.89	53624	8.06	181.4	0.03	0.42	2.44	0.495
Week 6	12-06-2024	10:08:17	16.872	100.9	7.89	53624	8.06	181.4	0.02	0.42	2.42	0.34
Week 7	17-06-2024	10:09:52	15.798	98	9.72	53862	7.68	171.9	7.66	0.68	3.38	0.013
Week 7	17-06-2024	10:09:53	15.861	98.1	7.83	53766	7.8	169.3	6.94	0.62	3.17	0.015
Week 7	17-06-2024	10:09:54	15.916	98.3	7.84	53790	7.82	168.3	6.24	0.58	3	0.018
Week 7	17-06-2024	10:09:55	15.979	98.4	7.84	53722	7.83	167.4	5.58	0.56	2.95	0.021
Week 7	17-06-2024	10:09:56	16.041	98.6	7.84	53655	7.84	166.5	4.9	0.52	2.79	0.029
Week 7	17-06-2024	10:09:57	16.094	98.7	7.84	53593	7.85	165.7	4.33	0.45	2.56	0.041
Week 7	17-06-2024	10:09:58	16.153	98.7	7.84	53524	7.86	165.2	3.79	0.42	2.43	0.846
Week 7	17-06-2024	10:09:59	16.204	98.8	7.84	53456	7.86	164.7	3.26	0.39	2.32	1.177
Week 7	17-06-2024	10:10:00	16.261	98.8	7.83	53398	7.87	164.2	2.76	0.23	1.76	1.163
Week 7	17-06-2024	10:10:01	16.31	98.8	7.83	53331	7.87	163.7	2.25	0.18	1.56	1.257
Week 7	17-06-2024	10:10:02	16.365	98.8	7.82	53273	7.87	163.4	1.81	0.17	1.55	1.314
Week 7	17-06-2024	10:10:03	16.416	98.7	7.81	53206	7.88	163	1.41	0.17	1.54	1.532
Week 7	17-06-2024	10:10:04	16.438	98.5	7.79	53182	7.88	162.7	1.04	0.19	1.6	1.704
Week 7	17-06-2024	10:10:05	16.438	98.3	7.77	53182	7.88	162.4	0.23	0.19	1.62	1.8
Week 7	17-06-2024	10:10:06	16.438	98.1	7.75	53183	7.88	162.2	0.04	0.18	1.57	1.875
Week 7	17-06-2024	10:10:07	16.438	97.8	7.73	53184	7.89	162	0.02	0.18	1.59	1.91
Week 7	17-06-2024	10:10:08	16.438	97.6	7.71	53186	7.89	161.8	0.01	0.19	1.6	1.955
Week 7	17-06-2024	10:10:09	16.438	97.4	7.7	53190	7.89	161.6	0.01	0.19	1.61	2.013
Week 7	17-06-2024	10:10:10	16.439	97.2	7.68	53192	7.89	161.4	0.02	0.18	1.57	2.084
Week 7	17-06-2024	10:10:11	16.439	97.1	7.67	53196	7.89	161.2	0.01	0.19	1.6	2.124
Week 7	17-06-2024	10:10:12	16.439	96.9	7.66	53199	7.89	161.1	0.03	0.19	1.62	2.166
Week 7	17-06-2024	10:10:13	16.439	96.8	7.65	53201	7.89	160.9	0.03	0.2	1.65	2.201
Week 7	17-06-2024	10:10:14	16.439	96.7	7.64	53203	7.9	160.9	0.03	0.21	1.66	2.228
Week 7	17-06-2024	10:10:15	16.44	96.6	7.63	53206	7.9	160.9	0.04	0.2	1.62	2.263
Week 7	17-06-2024	10:10:16	16.44	96.4	7.62	53208	7.9	160.9	0.04	0.18	1.58	2.3
Week 7	17-06-2024	10:10:17	16.44	96.4	7.61	53210	7.91	160.6	0.04	0.18	1.57	3.057
Week 7	17-06-2024	10:10:18	16.44	96.3	7.61	53212	7.91	160.4	0.04	0.17	1.51	3.279
Week 7	17-06-2024	10:10:19	16.44	96.2	7.6	53214	7.91	160.2	0.04	0.17	1.52	3.523
Week 7	17-06-2024	10:10:20	16.44	96.1	7.6	53216	7.91	160	0.05	0.18	1.58	3.569
Week 7	17-06-2024	10:10:21	16.44	96.1	7.59	53217	7.91	159.8	0.05	0.2	1.63	3.612
Week 7	17-06-2024	10:10:22	16.441	96	7.59	53219	7.91	159.7	0.05	0.2	1.63	3.633
Week 7	17-06-2024	10:10:23	16.441	95.9	7.58	53221	7.92	159.6	0.04	0.2	1.63	3.687
Week 7	17-06-2024	10:10:24	16.441	95.9	7.58	53224	7.92	159.5	0.04	0.19	1.61	3.747
Week 7	17-06-2024	10:10:25	16.443	95.8	7.57	53227	7.92	159.4	0.04	0.19	1.6	3.831
Week 7	17-06-2024	10:10:26	16.446	95.8	7.57	53233	7.92	159.4	0.04	0.21	1.67	3.9
Week 7	17-06-2024	10:10:27	16.45	95.8	7.57	53239	7.92	159.3	0.04	0.22	1.71	3.977
Week 7	17-06-2024	10:10:28	16.453	95.7	7.56	53247	7.92	159.3	0.03	0.22	1.71	4.03
Week 7	17-06-2024	10:10:29	16.46	95.7	7.56	53255	7.92	159.2	0.03	0.23	1.77	4.09
Week 7	17-06-2024	10:10:30	16.466	95.7	7.55	53268	7.92	159.2	0.02	0.24	1.78	4.139
Week 7	17-06-2024	10:10:31	16.478	95.6	7.55	53282	7.92	159.1	0.02	0.24	1.78	4.946
Week 7	17-06-2024	10:10:32	16.491	95.6	7.55	53304	7.92	159.1	0.01	0.22	1.71	4.951
Week 7	17-06-2024	10:10:33	16.508	95.6	7.54	53323	7.92	159.1	0.02	0.21	1.67	4.749
Week 7	17-06-2024	10:10:34	16.524	95.6	7.54	53347	7.92	159.1	0.01	0.21	1.68	4.747
Week 7	17-06-2024	10:10:35	16.541	95.5	7.53	53366	7.92	159	0.01	0.2	1.65	4.778
Week 7	17-06-2024	10:10:36	16.557	95.5	7.52	53390	7.92	159	0.01	0.2	1.62	4.775
Week 7	17-06-2024	10:10:37	16.574	95.4	7.52	53409	7.92	158.8	0.01	0.19	1.62	4.837
Week 7	17-06-2024	10:10:38	16.591	95.4	7.51	53431	7.92	158.7	0.01	0.19	1.6	4.876
Week 7	17-06-2024	10:10:39	16.606	95.3	7.5	53448	7.92	158.5	0.01	0.19	1.6	4.942

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 7	17-06-2024	10:10:40	16.621	95.2	7.49	53468	7.92	158.3	0.02	0.2	1.64	4.997
Week 7	17-06-2024	10:10:41	16.637	95.1	7.48	53485	7.92	158.2	0.01	0.2	1.63	5.046
Week 7	17-06-2024	10:10:42	16.65	95.1	7.47	53504	7.92	158.1	0.01	0.19	1.59	5.093
Week 7	17-06-2024	10:10:43	16.664	95	7.46	53517	7.92	157.9	0	0.2	1.65	5.128
Week 7	17-06-2024	10:10:44	16.672	94.9	7.45	53530	7.92	157.8	0.01	0.2	1.65	5.152
Week 7	17-06-2024	10:10:45	16.679	94.7	7.44	53536	7.92	157.6	0.01	0.21	1.67	5.185
Week 7	17-06-2024	10:10:46	16.683	94.6	7.43	53545	7.92	157.5	0.01	0.22	1.7	5.211
Week 7	17-06-2024	10:10:47	16.689	94.5	7.42	53551	7.92	157.3	0.01	0.23	1.73	5.237
Week 7	17-06-2024	10:10:48	16.694	94.4	7.41	53559	7.92	157.2	0.01	0.23	1.75	5.269
Week 7	17-06-2024	10:10:49	16.699	94.3	7.41	53565	7.92	157.1	0.01	0.24	1.77	6.166
Week 7	17-06-2024	10:10:50	16.703	94.2	7.4	53572	7.92	156.9	0.01	0.25	1.81	5.877
Week 7	17-06-2024	10:10:51	16.707	94.1	7.39	53577	7.92	156.8	0	0.24	1.77	6.484
Week 7	17-06-2024	10:10:52	16.71	94.1	7.38	53581	7.92	156.7	0	0.24	1.78	6.474
Week 7	17-06-2024	10:10:53	16.713	94	7.37	53586	7.92	156.6	0	0.23	1.77	6.512
Week 7	17-06-2024	10:10:54	16.715	93.9	7.37	53590	7.92	156.5	0	0.23	1.74	6.625
Week 7	17-06-2024	10:10:55	16.717	93.8	7.36	53594	7.92	156.4	0	0.23	1.75	6.64
Week 7	17-06-2024	10:10:56	16.718	93.7	7.36	53597	7.92	156.3	0.01	0.23	1.75	6.704
Week 7	17-06-2024	10:10:57	16.719	93.7	7.35	53599	7.91	156.2	0.01	0.23	1.74	6.769
Week 7	17-06-2024	10:10:58	16.72	93.6	7.34	53601	7.91	156.1	0	0.23	1.75	6.847
Week 7	17-06-2024	10:10:59	16.721	93.5	7.34	53602	7.91	156	0	0.22	1.73	6.911
Week 7	17-06-2024	10:11:00	16.721	93.5	7.33	53603	7.91	156	0	0.22	1.72	7.717
Week 7	17-06-2024	10:11:01	16.722	93.4	7.33	53605	7.91	155.9	0	0.21	1.67	7.858
Week 7	17-06-2024	10:11:02	16.722	93.3	7.32	53606	7.91	155.8	0	0.2	1.65	7.785
Week 7	17-06-2024	10:11:03	16.722	93.3	7.32	53607	7.91	155.8	0	0.2	1.63	7.834
Week 7	17-06-2024	10:11:04	16.722	93.2	7.31	53608	7.91	155.7	0	0.21	1.66	7.889
Week 7	17-06-2024	10:11:05	16.722	93.1	7.31	53610	7.91	155.7	0	0.2	1.65	7.931
Week 7	17-06-2024	10:11:06	16.723	93.1	7.3	53611	7.91	155.6	0	0.2	1.64	7.968
Week 7	17-06-2024	10:11:07	16.723	93	7.3	53613	7.91	155.6	0	0.19	1.62	8.012
Week 7	17-06-2024	10:11:08	16.723	93	7.29	53614	7.91	155.5	0.01	0.2	1.65	8.032
Week 7	17-06-2024	10:11:09	16.723	92.9	7.29	53616	7.91	155.4	0	0.19	1.61	8.061
Week 7	17-06-2024	10:11:10	16.723	92.9	7.29	53618	7.91	155.4	0.01	0.19	1.61	8.119
Week 7	17-06-2024	10:11:11	16.723	92.8	7.28	53619	7.91	155.3	0.01	0.19	1.62	8.76
Week 7	17-06-2024	10:11:12	16.723	92.8	7.28	53621	7.91	155.3	0.01	0.21	1.67	8.603
Week 7	17-06-2024	10:11:13	16.723	92.7	7.27	53623	7.91	155.2	0.03	0.2	1.64	9.002
Week 7	17-06-2024	10:11:14	16.723	92.7	7.27	53624	7.91	155.1	0.02	0.19	1.61	9.122
Week 7	17-06-2024	10:11:15	16.723	92.6	7.27	53625	7.91	155	0.02	0.19	1.59	9.119
Week 7	17-06-2024	10:11:16	16.723	92.6	7.26	53627	7.91	154.9	0.02	0.19	1.61	9.085
Week 7	17-06-2024	10:11:17	16.723	92.6	7.26	53628	7.91	154.8	0.05	0.19	1.61	9.041
Week 7	17-06-2024	10:11:18	16.723	92.5	7.26	53629	7.91	154.7	0.05	0.19	1.62	8.997
Week 7	17-06-2024	10:11:19	16.723	92.5	7.25	53630	7.91	154.6	0.05	0.18	1.56	9.02
Week 7	17-06-2024	10:11:20	16.722	92.4	7.25	53631	7.91	154.4	0.05	0.19	1.59	9.065
Week 7	17-06-2024	10:11:21	16.722	92.4	7.25	53632	7.91	154.3	0.06	0.17	1.54	9.121
Week 7	17-06-2024	10:11:22	16.722	92.4	7.25	53633	7.91	154.2	0.06	0.18	1.57	9.133
Week 7	17-06-2024	10:11:23	16.722	92.4	7.24	53634	7.91	154	0.06	0.17	1.53	9.157
Week 7	17-06-2024	10:11:24	16.722	92.3	7.24	53634	7.92	153.9	0.06	0.18	1.56	9.172
Week 7	17-06-2024	10:11:25	16.722	92.3	7.24	53635	7.92	153.7	0.06	0.19	1.61	9.203
Week 7	17-06-2024	10:11:26	16.722	92.3	7.24	53635	7.92	153.6	0.05	0.18	1.57	9.224
Week 7	17-06-2024	10:11:27	16.722	92.3	7.24	53635	7.92	153.4	0.05	0.17	1.54	9.24
Week 7	17-06-2024	10:11:28	16.722	92.2	7.24	53635	7.92	153.2	0.04	0.17	1.53	9.267
Week 7	17-06-2024	10:11:29	16.722	92.2	7.23	53635	7.93	153	0.05	0.16	1.49	9.294
Week 7	17-06-2024	10:11:30	16.722	92.2	7.23	53636	7.93	152.7	0.06	0.16	1.51	9.953
Week 7	17-06-2024	10:11:31	16.722	92.2	7.23	53636	7.93	152.5	0.05	0.16	1.49	9.955
Week 7	17-06-2024	10:11:32	16.722	92.2	7.23	53636	7.93	152.3	0.03	0.19	1.59	10.149
Week 7	17-06-2024	10:11:33	16.722	92.1	7.23	53637	7.94	152.1	0.03	0.18	1.58	10.231
Week 7	17-06-2024	10:11:34	16.722	92.1	7.23	53637	7.94	151.9	0.02	0.18	1.57	10.159
Week 7	17-06-2024	10:11:35	16.722	92.1	7.23	53637	7.94	151.7	0.02	0.19	1.6	10.209
Week 7	17-06-2024	10:11:36	16.722	92.1	7.22	53636	7.94	151.5	0.02	0.19	1.6	10.241
Week 7	17-06-2024	10:11:37	16.722	92.1	7.22	53636	7.95	151.3	0.02	0.2	1.64	10.234
Week 7	17-06-2024	10:11:38	16.722	92.1	7.22	53637	7.95	151	0.03	0.21	1.67	10.205
Week 7	17-06-2024	10:11:39	16.722	92.1	7.22	53637	7.95	150.8	0.02	0.22	1.71	10.225
Week 7	17-06-2024	10:11:40	16.722	92	7.22	53638	7.96	150.6	0.03	0.23	1.76	10.246
Week 7	17-06-2024	10:11:41	16.722	92	7.22	53638	7.96	150.4	0.03	0.24	1.78	10.256
Week 7	17-06-2024	10:11:42	16.722	92	7.22	53637	7.96	150.2	0.04	0.25	1.82	10.245
Week 7	17-06-2024	10:11:43	16.722	92	7.22	53638	7.96	150	0.04	0.22	1.72	10.261
Week 7	17-06-2024	10:11:44	16.722	92	7.22	53638	7.97	149.8	0.03	0.21	1.69	10.275
Week 7	17-06-2024	10:11:45	16.722	92	7.21	53638	7.97	149.6	0.04	0.2	1.65	10.299
Week 7	17-06-2024	10:11:46	16.722	92	7.21	53638	7.97	149.4	0.04	0.19	1.59	10.319
Week 7	17-06-2024	10:11:47	16.722	92	7.21	53638	7.97	149.3	0.04	0.19	1.6	10.342
Week 7	17-06-2024	10:11:48	16.722	91.9	7.21	53639	7.98	149.1	0.03	0.2	1.65	10.37
Week 7	17-06-2024	10:11:49	16.722	91.9	7.21	53639	7.98	148.9	0.03	0.21	1.69	10.401
Week 7	17-06-2024	10:11:50	16.722	91.9	7.21	53640	7.98	148.8	0.03	0.21	1.68	10.429
Week 7	17-06-2024	10:11:51	16.722	91.9	7.21	53640	7.98	148.7	0.03	0.22	1.7	10.457
Week 7	17-06-2024	10:11:52	16.721	91.9	7.21	53641	7.98	148.5	0.04	0.21	1.69	10.489

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 7	17-06-2024	10:11:53	16.721	91.9	7.21	53641	7.99	148.4	0.03	0.21	1.66	10.516
Week 7	17-06-2024	10:11:54	16.721	91.9	7.21	53641	7.99	148.3	0.04	0.22	1.72	10.549
Week 7	17-06-2024	10:11:55	16.721	91.9	7.21	53641	7.99	148.2	0.03	0.23	1.75	11.239
Week 7	17-06-2024	10:11:56	16.721	91.9	7.2	53641	7.99	148.1	0.04	0.25	1.83	11.313
Week 7	17-06-2024	10:11:57	16.721	91.8	7.2	53641	7.99	148	0.04	0.26	1.87	11.451
Week 7	17-06-2024	10:11:58	16.721	91.8	7.2	53641	7.99	147.9	0.03	0.26	1.85	11.541
Week 7	17-06-2024	10:11:59	16.72	91.8	7.2	53641	7.99	147.8	0.03	0.25	1.81	11.641
Week 7	17-06-2024	10:12:00	16.72	91.8	7.2	53640	7.99	147.7	0.04	0.23	1.76	11.691
Week 7	17-06-2024	10:12:01	16.72	91.8	7.2	53640	7.99	147.7	0.05	0.23	1.75	11.805
Week 7	17-06-2024	10:12:02	16.72	91.8	7.2	53639	7.99	147.6	0.05	0.22	1.73	11.887
Week 7	17-06-2024	10:12:03	16.719	91.8	7.2	53639	7.99	147.5	0.06	0.21	1.69	11.952
Week 7	17-06-2024	10:12:04	16.719	91.8	7.2	53639	7.99	147.5	0.06	0.22	1.7	11.994
Week 7	17-06-2024	10:12:05	16.719	91.8	7.2	53639	7.99	147.4	0.06	0.21	1.69	12.024
Week 7	17-06-2024	10:12:06	16.719	91.7	7.2	53639	8	147.4	0.06	0.22	1.73	12.067
Week 7	17-06-2024	10:12:07	16.719	91.7	7.2	53638	8	147.3	0.06	0.23	1.74	12.946
Week 7	17-06-2024	10:12:08	16.718	91.7	7.2	53639	8	147.2	0.05	0.23	1.74	12.879
Week 7	17-06-2024	10:12:09	16.718	91.7	7.2	53639	8	147.2	0.05	0.24	1.77	12.89
Week 7	17-06-2024	10:12:10	16.718	91.7	7.19	53640	8	147.1	0.05	0.24	1.8	12.95
Week 7	17-06-2024	10:12:11	16.718	91.7	7.19	53640	8	147.1	0.04	0.27	1.89	13.011
Week 7	17-06-2024	10:12:12	16.717	91.7	7.19	53640	8	147	0.03	0.27	1.89	13.08
Week 7	17-06-2024	10:12:13	16.717	91.7	7.19	53640	8	146.9	0.02	0.28	1.93	13.167
Week 7	17-06-2024	10:12:14	16.717	91.7	7.19	53641	8	146.9	0.01	0.29	1.96	13.238
Week 7	17-06-2024	10:12:15	16.717	91.7	7.19	53641	8	146.8	0.01	0.3	2.01	13.227
Week 7	17-06-2024	10:12:16	16.717	91.7	7.19	53641	8	146.7	0	0.31	2.04	13.189
Week 7	17-06-2024	10:12:17	16.716	91.7	7.19	53641	8	146.7	0	0.29	1.97	13.203
Week 7	17-06-2024	10:12:18	16.716	91.7	7.19	53640	8	146.6	-0.01	0.29	1.96	13.227
Week 7	17-06-2024	10:12:19	16.716	91.7	7.19	53640	8	146.5	0	0.29	1.97	13.26
Week 7	17-06-2024	10:12:20	16.715	91.7	7.19	53640	8	146.5	0	0.29	1.97	13.294
Week 7	17-06-2024	10:12:21	16.715	91.6	7.19	53640	8	146.4	-0.01	0.28	1.94	13.312
Week 7	17-06-2024	10:12:22	16.715	91.6	7.19	53640	8	146.4	0	0.26	1.87	13.329
Week 7	17-06-2024	10:12:23	16.715	91.6	7.19	53640	8	146.3	0	0.28	1.91	13.32
Week 7	17-06-2024	10:12:24	16.715	91.6	7.19	53640	8	146.2	0	0.27	1.89	13.332
Week 7	17-06-2024	10:12:25	16.715	91.6	7.19	53640	8	146.2	0.01	0.27	1.9	13.344
Week 7	17-06-2024	10:12:26	16.715	91.6	7.19	53641	8	146.1	0.02	0.27	1.9	13.359
Week 7	17-06-2024	10:12:27	16.715	91.6	7.19	53641	8	146.1	0.02	0.26	1.87	13.375
Week 7	17-06-2024	10:12:28	16.714	91.6	7.19	53642	8.01	146	0.03	0.26	1.86	13.403
Week 7	17-06-2024	10:12:29	16.714	91.6	7.19	53642	8.01	146	0.03	0.26	1.86	13.426
Week 7	17-06-2024	10:12:30	16.714	91.6	7.19	53643	8.01	145.9	0.02	0.26	1.87	14.063
Week 7	17-06-2024	10:12:31	16.714	91.6	7.19	53643	8.01	145.9	0.03	0.27	1.9	14.145
Week 7	17-06-2024	10:12:32	16.713	91.6	7.18	53644	8.01	145.8	0.03	0.27	1.9	14.391
Week 7	17-06-2024	10:12:33	16.713	91.6	7.18	53643	8.01	145.8	0.03	0.29	1.96	14.298
Week 7	17-06-2024	10:12:34	16.712	91.6	7.18	53643	8.01	145.8	0.04	0.29	1.95	14.218
Week 7	17-06-2024	10:12:35	16.712	91.6	7.18	53643	8.01	145.7	0.03	0.29	1.98	14.289
Week 7	17-06-2024	10:12:36	16.711	91.5	7.18	53643	8.01	145.7	0.03	0.29	1.97	14.383
Week 7	17-06-2024	10:12:37	16.711	91.5	7.18	53643	8.01	145.6	0.03	0.29	1.97	15.235
Week 7	17-06-2024	10:12:38	16.71	91.5	7.18	53643	8.01	145.6	0.03	0.29	1.98	15.304
Week 7	17-06-2024	10:12:39	16.71	91.5	7.18	53643	8.01	145.6	0.03	0.3	2	15.397
Week 7	17-06-2024	10:12:40	16.709	91.5	7.18	53642	8.01	145.5	0.03	0.3	1.99	15.44
Week 7	17-06-2024	10:12:41	16.709	91.5	7.18	53642	8.01	145.5	0.04	0.28	1.93	15.441
Week 7	17-06-2024	10:12:42	16.708	91.5	7.18	53641	8.01	145.4	0.04	0.28	1.93	15.473
Week 7	17-06-2024	10:12:43	16.708	91.5	7.18	53641	8.01	145.4	0.04	0.29	1.96	15.461
Week 7	17-06-2024	10:12:44	16.707	91.5	7.18	53641	8.01	145.3	0.04	0.28	1.94	15.498
Week 7	17-06-2024	10:12:45	16.707	91.5	7.18	53641	8.01	145.3	0.04	0.28	1.93	16.625
Week 7	17-06-2024	10:12:46	16.707	91.4	7.17	53641	8.01	145.3	0.05	0.28	1.93	16.95
Week 7	17-06-2024	10:12:47	16.707	91.4	7.17	53641	8.01	145.2	0.04	0.28	1.92	16.847
Week 7	17-06-2024	10:12:48	16.706	91.4	7.17	53641	8.01	145.2	0.04	0.27	1.9	16.687
Week 7	17-06-2024	10:12:49	16.706	91.4	7.17	53642	8.01	145.1	0.04	0.27	1.88	16.629
Week 7	17-06-2024	10:12:50	16.706	91.4	7.17	53642	8.01	145.1	0.04	0.27	1.89	16.686
Week 7	17-06-2024	10:12:51	16.705	91.4	7.17	53642	8.01	145	0.04	0.28	1.92	16.829
Week 7	17-06-2024	10:12:52	16.705	91.4	7.17	53642	8.01	145	0.04	0.28	1.94	16.969
Week 7	17-06-2024	10:12:53	16.705	91.4	7.17	53643	8.01	145	0.05	0.28	1.91	17.076
Week 7	17-06-2024	10:12:54	16.705	91.4	7.17	53643	8.01	144.9	0.05	0.27	1.9	17.147
Week 7	17-06-2024	10:12:55	16.704	91.4	7.17	53644	8.01	144.9	0.03	0.28	1.92	17.155
Week 7	17-06-2024	10:12:56	16.704	91.4	7.17	53644	8.01	144.8	0.03	0.28	1.93	17.142
Week 7	17-06-2024	10:12:57	16.704	91.4	7.17	53644	8.01	144.8	0.03	0.27	1.9	17.096
Week 7	17-06-2024	10:12:58	16.703	91.3	7.17	53644	8.01	144.8	0.03	0.28	1.95	17.077
Week 7	17-06-2024	10:12:59	16.703	91.3	7.17	53644	8.01	144.7	0.02	0.29	1.95	17.086
Week 7	17-06-2024	10:13:00	16.703	91.3	7.17	53644	8.01	144.7	0.03	0.29	1.95	17.103
Week 7	17-06-2024	10:13:01	16.703	91.3	7.17	53644	8.01	144.6	0.02	0.28	1.94	17.113
Week 7	17-06-2024	10:13:02	16.703	91.3	7.17	53644	8.02	144.6	0.01	0.29	1.95	17.104
Week 7	17-06-2024	10:13:03	16.702	91.3	7.17	53644	8.02	144.6	0.01	0.29	1.98	17.061
Week 7	17-06-2024	10:13:04	16.702	91.3	7.17	53644	8.02	144.5	0.01	0.29	1.95	16.257
Week 7	17-06-2024	10:13:05	16.702	91.3	7.17	53644	8.02	144.5	0	0.29	1.97	16.671

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 7	17-06-2024	10:13:06	16.702	91.3	7.17	53643	8.02	144.5	0	0.28	1.93	16.728
Week 7	17-06-2024	10:13:07	16.702	91.3	7.17	53643	8.02	144.4	0	0.28	1.95	16.602
Week 7	17-06-2024	10:13:08	16.702	91.3	7.16	53643	8.02	144.4	0	0.3	1.99	16.487
Week 7	17-06-2024	10:13:09	16.702	91.3	7.17	53643	8.02	144.4	0	0.3	2.01	16.371
Week 7	17-06-2024	10:13:10	16.702	91.3	7.16	53642	8.02	144.4	0	0.31	2.03	16.268
Week 7	17-06-2024	10:13:11	16.702	91.3	7.17	53642	8.02	144.3	0	0.32	2.09	16.181
Week 7	17-06-2024	10:13:12	16.702	91.3	7.17	53642	8.02	144.3	0	0.32	2.08	16.161
Week 7	17-06-2024	10:13:13	16.702	91.3	7.17	53642	8.02	144.3	0	0.31	2.06	16.123
Week 7	17-06-2024	10:13:14	16.702	91.3	7.17	53642	8.02	144.2	0	0.31	2.05	16.107
Week 7	17-06-2024	10:13:15	16.702	91.3	7.17	53643	8.02	144.2	0.01	0.32	2.08	16.111
Week 7	17-06-2024	10:13:16	16.702	91.3	7.16	53643	8.02	144.2	0.02	0.32	2.09	16.131
Week 7	17-06-2024	10:13:17	16.702	91.3	7.16	53643	8.02	144.2	0.02	0.32	2.09	16.136
Week 7	17-06-2024	10:13:18	16.702	91.3	7.16	53644	8.02	144.1	0.03	0.32	2.07	16.164
Week 7	17-06-2024	10:13:19	16.702	91.3	7.16	53644	8.02	144.1	0.03	0.3	2.02	16.193
Week 7	17-06-2024	10:13:20	16.702	91.3	7.16	53644	8.02	144.1	0.03	0.29	1.98	16.987
Week 7	17-06-2024	10:13:21	16.701	91.3	7.16	53645	8.02	144	0.04	0.29	1.96	16.954
Week 7	17-06-2024	10:13:22	16.701	91.3	7.16	53645	8.02	144	0.04	0.28	1.93	17.257
Week 7	17-06-2024	10:13:23	16.701	91.3	7.16	53646	8.02	144	0.04	0.29	1.98	16.961
Week 7	17-06-2024	10:13:24	16.7	91.3	7.16	53647	8.02	144	0.05	0.29	1.97	17.033
Week 7	17-06-2024	10:13:25	16.7	91.3	7.16	53648	8.02	143.9	0.06	0.29	1.98	17.106
Week 7	17-06-2024	10:13:26	16.7	91.3	7.16	53649	8.02	143.9	0.07	0.29	1.97	17.145
Week 7	17-06-2024	10:13:27	16.699	91.3	7.16	53649	8.02	143.9	0.07	0.29	1.95	17.203
Week 7	17-06-2024	10:13:28	16.699	91.3	7.16	53649	8.02	143.9	0.05	0.28	1.94	17.23
Week 7	17-06-2024	10:13:29	16.698	91.3	7.16	53650	8.02	143.8	0.05	0.28	1.92	17.22
Week 7	17-06-2024	10:13:30	16.698	91.3	7.16	53650	8.02	143.8	0.04	0.27	1.91	17.198
Week 7	17-06-2024	10:13:31	16.698	91.3	7.16	53650	8.02	143.8	0.04	0.28	1.93	17.226
Week 7	17-06-2024	10:13:32	16.697	91.2	7.16	53650	8.02	143.8	0.04	0.28	1.92	17.28
Week 7	17-06-2024	10:13:33	16.697	91.2	7.16	53650	8.02	143.8	0.04	0.29	1.96	17.766
Week 7	17-06-2024	10:13:34	16.697	91.2	7.16	53651	8.02	143.8	0.04	0.27	1.91	17.384
Week 7	17-06-2024	10:13:35	16.696	91.2	7.16	53651	8.02	143.8	0.04	0.28	1.91	17.614
Week 7	17-06-2024	10:13:36	16.696	91.2	7.16	53651	8.02	143.7	0.03	0.27	1.9	17.564
Week 7	17-06-2024	10:13:37	16.696	91.2	7.16	53650	8.02	143.7	0.04	0.28	1.94	17.506
Week 7	17-06-2024	10:13:38	16.696	91.2	7.16	53649	8.02	143.7	0.04	0.3	2	17.542
Week 7	17-06-2024	10:13:39	16.695	91.2	7.16	53649	8.02	143.7	0.03	0.3	2.01	17.563
Week 7	17-06-2024	10:13:40	16.695	91.2	7.16	53649	8.02	143.7	0.04	0.31	2.05	17.612
Week 7	17-06-2024	10:13:41	16.695	91.2	7.16	53649	8.02	143.7	0.03	0.31	2.03	17.638
Week 7	17-06-2024	10:13:42	16.695	91.2	7.16	53648	8.02	143.7	0.04	0.3	2.01	17.692
Week 7	17-06-2024	10:13:43	16.695	91.2	7.16	53648	8.02	143.6	0.04	0.3	2.02	18.545
Week 7	17-06-2024	10:13:44	16.694	91.2	7.16	53648	8.02	143.6	0.04	0.3	2.02	18.807
Week 7	17-06-2024	10:13:45	16.694	91.2	7.16	53648	8.02	143.6	0.05	0.32	2.06	19.128
Week 7	17-06-2024	10:13:46	16.694	91.2	7.16	53649	8.02	143.6	0.04	0.32	2.09	19.218
Week 7	17-06-2024	10:13:47	16.694	91.2	7.15	53649	8.02	143.6	0.04	0.33	2.12	19.333
Week 7	17-06-2024	10:13:48	16.694	91.2	7.15	53650	8.02	143.6	0.03	0.32	2.09	19.407
Week 7	17-06-2024	10:13:49	16.694	91.2	7.15	53650	8.02	143.5	0.03	0.32	2.06	19.371
Week 7	17-06-2024	10:13:50	16.694	91.2	7.15	53650	8.02	143.5	0.04	0.32	2.07	19.248
Week 7	17-06-2024	10:13:51	16.694	91.1	7.15	53650	8.02	143.5	0.03	0.31	2.04	18.304
Week 7	17-06-2024	10:13:52	16.694	91.1	7.15	53651	8.02	143.5	0.03	0.31	2.04	18.022
Week 7	17-06-2024	10:13:53	16.694	91.1	7.15	53652	8.02	143.5	0.03	0.3	2	18.124
Week 7	17-06-2024	10:13:54	16.694	91.1	7.15	53653	8.02	143.4	0.03	0.29	1.96	17.664
Week 7	17-06-2024	10:13:55	16.694	91.1	7.15	53653	8.02	143.4	0.03	0.28	1.93	17.468
Week 7	17-06-2024	10:13:56	16.694	91.1	7.15	53654	8.02	143.4	0.03	0.28	1.93	17.174
Week 7	17-06-2024	10:13:57	16.695	91.1	7.15	53655	8.02	143.4	0.03	0.27	1.91	16.924
Week 7	17-06-2024	10:13:58	16.695	91.2	7.15	53655	8.02	143.3	0.03	0.26	1.86	16.739
Week 7	17-06-2024	10:13:59	16.695	91.2	7.15	53655	8.02	143.3	0.03	0.26	1.85	15.801
Week 7	17-06-2024	10:14:00	16.696	91.2	7.15	53655	8.02	143.3	0.02	0.25	1.83	15.943
Week 7	17-06-2024	10:14:01	16.696	91.2	7.15	53655	8.02	143.3	0.02	0.25	1.81	16.141
Week 7	17-06-2024	10:14:02	16.696	91.2	7.16	53655	8.02	143.2	0.02	0.26	1.85	16.249
Week 7	17-06-2024	10:14:03	16.696	91.2	7.16	53655	8.02	143.2	0.01	0.27	1.88	16.163
Week 7	17-06-2024	10:14:04	16.697	91.2	7.16	53656	8.02	143.2	0.03	0.27	1.9	16.057
Week 7	17-06-2024	10:14:05	16.697	91.2	7.16	53656	8.02	143.2	0.02	0.29	1.96	16.009
Week 7	17-06-2024	10:14:06	16.697	91.2	7.16	53656	8.02	143.2	0.03	0.3	2	15.907
Week 7	17-06-2024	10:14:07	16.698	91.2	7.16	53656	8.02	143.1	0.03	0.29	1.97	15.758
Week 7	17-06-2024	10:14:08	16.698	91.2	7.16	53656	8.02	143.1	0.03	0.29	1.97	15.685
Week 7	17-06-2024	10:14:09	16.698	91.2	7.16	53656	8.02	143.1	0.03	0.3	1.99	15.657
Week 7	17-06-2024	10:14:10	16.699	91.2	7.16	53656	8.02	143.1	0.03	0.29	1.98	15.654
Week 7	17-06-2024	10:14:11	16.699	91.2	7.16	53656	8.02	143.1	0.03	0.28	1.95	15.622
Week 7	17-06-2024	10:14:12	16.699	91.2	7.16	53656	8.02	143	0.03	0.28	1.94	15.568
Week 7	17-06-2024	10:14:13	16.699	91.2	7.16	53656	8.02	143	0.03	0.27	1.9	15.545
Week 7	17-06-2024	10:14:14	16.699	91.2	7.16	53655	8.02	143	0.03	0.27	1.88	15.54
Week 7	17-06-2024	10:14:15	16.699	91.2	7.16	53655	8.02	143	0.04	0.26	1.87	15.538
Week 7	17-06-2024	10:14:16	16.699	91.2	7.16	53655	8.02	143	0.04	0.26	1.86	15.515
Week 7	17-06-2024	10:14:17	16.699	91.2	7.16	53655	8.02	143	0.04	0.26	1.85	15.495
Week 7	17-06-2024	10:14:18	16.699	91.3	7.16	53655	8.02	142.9	0.04	0.26	1.87	15.483

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 7	17-06-2024	10:14:19	16.699	91.3	7.16	53655	8.02	142.9	0.03	0.27	1.91	15.486
Week 7	17-06-2024	10:14:20	16.699	91.3	7.16	53655	8.02	142.9	0.03	0.29	1.97	15.489
Week 7	17-06-2024	10:14:21	16.699	91.3	7.16	53654	8.02	142.9	0.04	0.28	1.94	15.478
Week 7	17-06-2024	10:14:22	16.699	91.3	7.16	53654	8.02	142.9	0.03	0.29	1.95	15.461
Week 7	17-06-2024	10:14:23	16.699	91.3	7.16	53655	8.02	142.9	0.03	0.28	1.92	15.447
Week 7	17-06-2024	10:14:24	16.699	91.3	7.16	53655	8.02	142.9	0.04	0.29	1.96	15.441
Week 7	17-06-2024	10:14:25	16.699	91.3	7.16	53655	8.02	142.9	0.05	0.29	1.96	15.447
Week 7	17-06-2024	10:14:26	16.699	91.3	7.16	53655	8.02	142.8	0.04	0.29	1.98	15.463
Week 7	17-06-2024	10:14:27	16.699	91.3	7.16	53655	8.02	142.8	0.05	0.29	1.98	15.483
Week 7	17-06-2024	10:14:28	16.698	91.3	7.16	53655	8.02	142.8	0.04	0.3	2.02	15.992
Week 7	17-06-2024	10:14:29	16.698	91.3	7.16	53656	8.02	142.8	0.04	0.3	2.01	15.715
Week 7	17-06-2024	10:14:30	16.698	91.2	7.16	53656	8.02	142.8	0.04	0.28	1.94	15.683
Week 7	17-06-2024	10:14:31	16.698	91.3	7.16	53656	8.02	142.8	0.04	0.27	1.9	15.547
Week 7	17-06-2024	10:14:32	16.698	91.2	7.16	53656	8.02	142.8	0.05	0.28	1.93	15.694
Week 7	17-06-2024	10:14:33	16.698	91.2	7.16	53656	8.02	142.8	0.05	0.28	1.94	15.981
Week 7	17-06-2024	10:14:34	16.698	91.2	7.16	53656	8.02	142.8	0.05	0.29	1.95	16.098
Week 7	17-06-2024	10:14:35	16.698	91.2	7.16	53656	8.02	142.7	0.05	0.27	1.91	16.061
Week 7	17-06-2024	10:14:36	16.698	91.2	7.16	53656	8.02	142.7	0.04	0.28	1.91	15.97
Week 7	17-06-2024	10:14:37	16.698	91.2	7.16	53655	8.02	142.7	0.04	0.27	1.88	15.92
Week 7	17-06-2024	10:14:38	16.697	91.2	7.16	53655	8.02	142.7	0.04	0.26	1.86	15.883
Week 7	17-06-2024	10:14:39	16.697	91.2	7.16	53655	8.02	142.7	0.02	0.24	1.79	15.843
Week 7	17-06-2024	10:14:40	16.697	91.2	7.16	53655	8.02	142.7	0.02	0.23	1.74	15.794
Week 7	17-06-2024	10:14:41	16.697	91.2	7.16	53655	8.02	142.7	0.02	0.25	1.81	15.777
Week 7	17-06-2024	10:14:42	16.697	91.2	7.16	53655	8.02	142.7	0.02	0.25	1.81	15.726
Week 7	17-06-2024	10:14:43	16.697	91.2	7.16	53655	8.02	142.7	0.03	0.24	1.79	14.78
Week 7	17-06-2024	10:14:44	16.697	91.2	7.16	53655	8.02	142.6	0.03	0.23	1.73	14.875
Week 7	17-06-2024	10:14:45	16.697	91.2	7.16	53655	8.02	142.6	0.04	0.23	1.76	14.788
Week 7	17-06-2024	10:14:46	16.697	91.2	7.16	53656	8.02	142.6	0.03	0.24	1.78	14.612
Week 7	17-06-2024	10:14:47	16.697	91.2	7.16	53656	8.02	142.6	0.04	0.23	1.75	14.513
Week 7	17-06-2024	10:14:48	16.697	91.3	7.16	53656	8.02	142.6	0.03	0.24	1.77	14.535
Week 7	17-06-2024	10:14:49	16.697	91.3	7.16	53656	8.02	142.6	0.03	0.23	1.75	14.535
Week 7	17-06-2024	10:14:50	16.697	91.3	7.16	53656	8.02	142.6	0.03	0.24	1.78	14.413
Week 7	17-06-2024	10:14:51	16.698	91.3	7.16	53656	8.02	142.6	0.03	0.24	1.8	13.384
Week 7	17-06-2024	10:14:52	16.698	91.3	7.16	53656	8.02	142.6	0.03	0.22	1.73	13.788
Week 7	17-06-2024	10:14:53	16.698	91.3	7.16	53656	8.02	142.5	0.03	0.21	1.68	13.654
Week 7	17-06-2024	10:14:54	16.699	91.3	7.16	53657	8.02	142.5	0.04	0.22	1.7	13.55
Week 7	17-06-2024	10:14:55	16.699	91.3	7.16	53656	8.02	142.5	0.04	0.23	1.74	12.519
Week 7	17-06-2024	10:14:56	16.7	91.3	7.16	53657	8.02	142.5	0.04	0.23	1.75	12.362
Week 7	17-06-2024	10:14:57	16.7	91.3	7.16	53656	8.02	142.5	0.03	0.23	1.73	12.238
Week 7	17-06-2024	10:14:58	16.701	91.3	7.17	53656	8.02	142.5	0.03	0.21	1.68	11.953
Week 7	17-06-2024	10:14:59	16.702	91.3	7.17	53656	8.02	142.5	0.03	0.22	1.7	11.887
Week 7	17-06-2024	10:15:00	16.702	91.3	7.17	53657	8.02	142.5	0.03	0.22	1.7	11.711
Week 7	17-06-2024	10:15:01	16.703	91.4	7.17	53656	8.02	142.5	0.04	0.21	1.66	10.79
Week 7	17-06-2024	10:15:02	16.704	91.4	7.17	53656	8.02	142.4	0.04	0.19	1.6	10.991
Week 7	17-06-2024	10:15:03	16.704	91.4	7.17	53656	8.02	142.4	0.04	0.18	1.58	11.279
Week 7	17-06-2024	10:15:04	16.705	91.4	7.17	53656	8.02	142.4	0.04	0.19	1.59	11.208
Week 7	17-06-2024	10:15:05	16.705	91.4	7.17	53655	8.02	142.4	0.05	0.19	1.61	10.972
Week 7	17-06-2024	10:15:06	16.706	91.4	7.17	53654	8.02	142.4	0.05	0.19	1.61	10.685
Week 7	17-06-2024	10:15:07	16.707	91.4	7.17	53654	8.02	142.4	0.05	0.17	1.54	9.944
Week 7	17-06-2024	10:15:08	16.707	91.4	7.17	53652	8.03	142.4	0.05	0.17	1.53	9.774
Week 7	17-06-2024	10:15:09	16.708	91.5	7.18	53651	8.03	142.4	0.03	0.19	1.59	10.194
Week 7	17-06-2024	10:15:10	16.709	91.5	7.18	53650	8.03	142.3	0.04	0.16	1.51	10.142
Week 7	17-06-2024	10:15:11	16.709	91.5	7.18	53649	8.03	142.3	0.05	0.17	1.52	9.904
Week 7	17-06-2024	10:15:12	16.71	91.5	7.18	53648	8.03	142.3	0.04	0.17	1.54	9.657
Week 7	17-06-2024	10:15:13	16.711	91.5	7.18	53646	8.03	142.3	0.04	0.18	1.57	9.506
Week 7	17-06-2024	10:15:14	16.712	91.5	7.18	53645	8.03	142.3	0.03	0.19	1.59	9.467
Week 7	17-06-2024	10:15:15	16.712	91.5	7.18	53643	8.03	142.3	0.03	0.17	1.54	9.392
Week 7	17-06-2024	10:15:16	16.713	91.5	7.18	53641	8.03	142.3	0.02	0.16	1.5	9.311
Week 7	17-06-2024	10:15:17	16.713	91.5	7.18	53640	8.03	142.3	0.01	0.17	1.52	9.254
Week 7	17-06-2024	10:15:18	16.714	91.5	7.18	53639	8.03	142.2	0.02	0.17	1.52	9.21
Week 7	17-06-2024	10:15:19	16.715	91.6	7.18	53638	8.03	142.2	0.03	0.17	1.52	9.166
Week 7	17-06-2024	10:15:20	16.715	91.6	7.18	53637	8.03	142.2	0.02	0.16	1.48	9.123
Week 7	17-06-2024	10:15:21	16.716	91.6	7.18	53635	8.03	142.2	0.03	0.17	1.54	9.105
Week 7	17-06-2024	10:15:22	16.716	91.6	7.18	53634	8.03	142.2	0.04	0.17	1.55	9.099
Week 7	17-06-2024	10:15:23	16.717	91.6	7.18	53633	8.03	142.2	0.04	0.18	1.56	9.073
Week 7	17-06-2024	10:15:24	16.717	91.6	7.19	53631	8.03	142.2	0.05	0.17	1.53	9.038
Week 7	17-06-2024	10:15:25	16.717	91.6	7.19	53630	8.03	142.1	0.04	0.18	1.57	9.007
Week 7	17-06-2024	10:15:26	16.718	91.6	7.19	53629	8.03	142.1	0.04	0.2	1.62	7.862
Week 7	17-06-2024	10:15:27	16.718	91.6	7.19	53628	8.03	142.1	0.04	0.19	1.6	7.629
Week 7	17-06-2024	10:15:28	16.718	91.6	7.19	53627	8.03	142.1	0.04	0.19	1.62	7.516
Week 7	17-06-2024	10:15:29	16.719	91.6	7.19	53627	8.03	142.1	0.05	0.2	1.63	7.717
Week 7	17-06-2024	10:15:30	16.719	91.6	7.19	53626	8.03	142.1	0.04	0.2	1.64	7.848
Week 7	17-06-2024	10:15:31	16.719	91.6	7.19	53625	8.03	142.1	0.04	0.2	1.64	7.815

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 7	17-06-2024	10:15:32	16.72	91.6	7.19	53625	8.03	142.1	0.05	0.18	1.58	6.934
Week 7	17-06-2024	10:15:33	16.72	91.6	7.19	53624	8.03	142	0.03	0.17	1.55	6.585
Week 7	17-06-2024	10:15:34	16.72	91.6	7.19	53624	8.03	142	0.04	0.17	1.54	6.531
Week 7	17-06-2024	10:15:35	16.721	91.7	7.19	53625	8.03	142	0.04	0.17	1.53	6.871
Week 7	17-06-2024	10:15:36	16.721	91.7	7.19	53625	8.03	142	0.02	0.15	1.47	6.926
Week 7	17-06-2024	10:15:37	16.721	91.7	7.19	53625	8.03	142	0.02	0.15	1.46	6.905
Week 7	17-06-2024	10:15:38	16.722	91.7	7.19	53625	8.03	142	0.02	0.15	1.47	6.803
Week 7	17-06-2024	10:15:39	16.722	91.7	7.19	53625	8.03	142	0.01	0.13	1.4	6.639
Week 7	17-06-2024	10:15:40	16.722	91.7	7.19	53625	8.03	142	0.01	0.14	1.41	6.527
Week 7	17-06-2024	10:15:41	16.723	91.7	7.19	53624	8.03	142	0.01	0.13	1.39	5.498
Week 7	17-06-2024	10:15:42	16.723	91.7	7.19	53623	8.03	141.9	0.01	0.14	1.41	5.534
Week 7	17-06-2024	10:15:43	16.723	91.7	7.19	53623	8.03	141.9	0	0.15	1.45	5.483
Week 7	17-06-2024	10:15:44	16.723	91.7	7.2	53622	8.03	141.9	0	0.15	1.45	5.573
Week 7	17-06-2024	10:15:45	16.723	91.7	7.2	53622	8.03	141.9	0	0.14	1.41	5.489
Week 7	17-06-2024	10:15:46	16.723	91.8	7.2	53622	8.03	141.9	0	0.15	1.48	5.326
Week 7	17-06-2024	10:15:47	16.722	91.8	7.2	53620	8.03	141.9	0	0.18	1.55	5.177
Week 7	17-06-2024	10:15:48	16.72	91.8	7.2	53617	8.03	141.9	0	0.18	1.57	5.046
Week 7	17-06-2024	10:15:49	16.717	91.8	7.2	53612	8.03	141.9	0	0.18	1.58	4.958
Week 7	17-06-2024	10:15:50	16.714	91.8	7.2	53606	8.03	141.9	0	0.2	1.63	3.929
Week 7	17-06-2024	10:15:51	16.704	91.8	7.2	53589	8.03	141.9	0.01	0.21	1.67	3.854
Week 7	17-06-2024	10:15:52	16.692	91.8	7.2	53568	8.03	141.8	0.01	0.22	1.72	3.554
Week 7	17-06-2024	10:15:53	16.678	91.8	7.2	53549	8.03	141.8	0.02	0.23	1.73	3.584
Week 7	17-06-2024	10:15:54	16.659	91.8	7.21	53528	8.03	141.8	0.02	0.23	1.76	3.67
Week 7	17-06-2024	10:15:55	16.643	91.8	7.21	53504	8.03	141.8	0.02	0.24	1.78	3.684
Week 7	17-06-2024	10:15:56	16.624	91.8	7.22	53481	8.03	141.8	0.01	0.23	1.76	3.577
Week 7	17-06-2024	10:15:57	16.603	91.8	7.22	53453	8.03	141.8	0.01	0.24	1.79	2.664
Week 7	17-06-2024	10:15:58	16.584	91.9	7.23	53426	8.03	141.8	0.01	0.24	1.78	2.675
Week 7	17-06-2024	10:15:59	16.563	91.9	7.23	53400	8.03	141.8	0.01	0.23	1.76	2.494
Week 7	17-06-2024	10:16:00	16.544	91.9	7.24	53374	8.03	141.7	0.01	0.23	1.75	2.49
Week 7	17-06-2024	10:16:01	16.524	92	7.25	53351	8.03	141.7	0.01	0.24	1.77	2.472
Week 7	17-06-2024	10:16:02	16.507	92.1	7.26	53327	8.03	141.7	0.01	0.24	1.77	2.385
Week 7	17-06-2024	10:16:03	16.49	92.1	7.27	53310	8.03	141.7	0.01	0.23	1.74	2.242
Week 7	17-06-2024	10:16:04	16.479	92.2	7.28	53302	8.03	141.7	0	0.24	1.77	2.078
Week 7	17-06-2024	10:16:05	16.471	92.3	7.29	53297	8.03	141.7	0	0.24	1.78	1.98
Week 7	17-06-2024	10:16:06	16.466	92.5	7.3	53293	8.03	141.7	0	0.25	1.82	1.915
Week 7	17-06-2024	10:16:07	16.461	92.6	7.31	53289	8.03	141.7	0	0.25	1.84	1.859
Week 7	17-06-2024	10:16:08	16.457	92.7	7.32	53285	8.03	141.6	0.01	0.25	1.83	1.819
Week 7	17-06-2024	10:16:09	16.454	92.8	7.33	53283	8.03	141.6	0.01	0.25	1.82	1.775
Week 7	17-06-2024	10:16:10	16.453	92.9	7.34	53281	8.04	141.6	0.02	0.25	1.83	1.733
Week 7	17-06-2024	10:16:11	16.452	93	7.34	53279	8.04	141.6	0.02	0.26	1.85	1.692
Week 7	17-06-2024	10:16:12	16.451	93.1	7.35	53278	8.04	141.6	0.02	0.26	1.85	1.634
Week 7	17-06-2024	10:16:13	16.45	93.2	7.36	53276	8.04	141.6	0.03	0.26	1.85	1.586
Week 7	17-06-2024	10:16:14	16.45	93.3	7.37	53274	8.04	141.6	0.03	0.25	1.82	0.609
Week 7	17-06-2024	10:16:15	16.45	93.4	7.37	53273	8.04	141.6	0.02	0.24	1.78	0.552
Week 7	17-06-2024	10:16:16	16.449	93.4	7.38	53271	8.04	141.5	0.02	0.23	1.76	0.246
Week 7	17-06-2024	10:16:17	16.449	93.5	7.38	53268	8.04	141.5	0.01	0.24	1.8	0.307
Week 7	17-06-2024	10:16:18	16.45	93.6	7.39	53263	8.04	141.5	0.01	0.25	1.82	0.284
Week 7	17-06-2024	10:16:19	16.45	93.6	7.4	53261	8.04	141.5	0.57	0.27	1.89	0.179
Week 8	24-06-2024	10:06:15	15.838	102.7	10.18	52707	7.71	195	0.11	0.54	2.86	0.115
Week 8	24-06-2024	10:06:16	15.872	102.7	8.23	52991	7.79	183.5	0.13	0.49	2.7	0.113
Week 8	24-06-2024	10:06:17	15.861	102.6	8.21	53047	7.81	180.9	0.09	0.45	2.55	0.114
Week 8	24-06-2024	10:06:18	15.874	102.5	8.2	53085	7.82	178.5	0.08	0.41	2.41	0.116
Week 8	24-06-2024	10:06:19	15.869	102.4	8.19	53083	7.83	177.3	0.08	0.37	2.25	0.116
Week 8	24-06-2024	10:06:20	15.872	102.3	8.18	53105	7.84	176.5	0.06	0.31	2.04	0.119
Week 8	24-06-2024	10:06:21	15.874	102.3	8.18	53117	7.85	175.5	0.07	0.25	1.83	0.124
Week 8	24-06-2024	10:06:22	15.878	102.2	8.17	53125	7.85	174.7	0.07	0.23	1.75	0.132
Week 8	24-06-2024	10:06:23	15.882	102.1	8.16	53134	7.85	173.9	0.07	0.2	1.64	0.143
Week 8	24-06-2024	10:06:24	15.885	102.1	8.16	53139	7.86	173.3	0.07	0.19	1.59	0.154
Week 8	24-06-2024	10:06:25	15.886	102	8.15	53147	7.86	172.7	0.07	0.19	1.62	0.168
Week 8	24-06-2024	10:06:26	15.888	102	8.15	53153	7.86	172.2	0.07	0.2	1.63	0.188
Week 8	24-06-2024	10:06:27	15.89	101.9	8.14	53159	7.87	171.7	0.07	0.21	1.66	0.964
Week 8	24-06-2024	10:06:28	15.891	101.8	8.14	53163	7.87	171.2	0.06	0.2	1.64	1.097
Week 8	24-06-2024	10:06:29	15.893	101.8	8.13	53165	7.87	170.7	0.05	0.19	1.61	1.18
Week 8	24-06-2024	10:06:30	15.896	101.7	8.12	53166	7.87	170.3	0.04	0.19	1.59	1.235
Week 8	24-06-2024	10:06:31	15.898	101.6	8.12	53169	7.87	169.9	0.04	0.19	1.59	1.419
Week 8	24-06-2024	10:06:32	15.902	101.5	8.11	53179	7.88	169.5	0.04	0.17	1.55	1.548
Week 8	24-06-2024	10:06:33	15.905	101.4	8.1	53184	7.88	169.1	0.04	0.15	1.47	1.639
Week 8	24-06-2024	10:06:34	15.908	101.3	8.09	53191	7.88	168.8	0.04	0.15	1.44	1.721
Week 8	24-06-2024	10:06:35	15.909	101.2	8.08	53196	7.88	168.4	0.05	0.15	1.46	1.782
Week 8	24-06-2024	10:06:36	15.91	101.1	8.07	53201	7.88	168.1	0.04	0.15	1.45	1.83
Week 8	24-06-2024	10:06:37	15.912	101	8.07	53206	7.88	167.6	0.04	0.14	1.42	1.863
Week 8	24-06-2024	10:06:38	15.914	100.9	8.06	53209	7.88	167.5	0.04	0.15	1.48	1.896
Week 8	24-06-2024	10:06:39	15.916	100.8	8.05	53211	7.88	167.2	0.03	0.15	1.46	1.945

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 8	24-06-2024	10:06:40	15.917	100.8	8.04	53214	7.89	166.9	0.03	0.15	1.47	1.982
Week 8	24-06-2024	10:06:41	15.918	100.7	8.04	53218	7.89	166.3	0.02	0.15	1.46	2.013
Week 8	24-06-2024	10:06:42	15.919	100.6	8.03	53222	7.89	166.1	0.03	0.16	1.48	2.048
Week 8	24-06-2024	10:06:43	15.92	100.6	8.03	53224	7.9	165.4	0.03	0.16	1.49	2.09
Week 8	24-06-2024	10:06:44	15.92	100.5	8.02	53228	7.9	164.8	0.03	0.17	1.53	2.135
Week 8	24-06-2024	10:06:45	15.922	100.5	8.02	53230	7.9	164.2	0.03	0.17	1.52	2.909
Week 8	24-06-2024	10:06:46	15.923	100.4	8.01	53232	7.9	163.6	0.03	0.15	1.47	2.801
Week 8	24-06-2024	10:06:47	15.923	100.4	8.01	53234	7.9	163.2	0.03	0.16	1.49	2.708
Week 8	24-06-2024	10:06:48	15.925	100.3	8.01	53236	7.9	162.7	0.04	0.16	1.48	2.815
Week 8	24-06-2024	10:06:49	15.926	100.3	8	53237	7.9	162.3	0.03	0.15	1.45	2.884
Week 8	24-06-2024	10:06:50	15.927	100.2	8	53239	7.9	161.9	0.03	0.17	1.54	3.008
Week 8	24-06-2024	10:06:51	15.928	100.2	8	53240	7.91	161.5	0.03	0.18	1.57	3.119
Week 8	24-06-2024	10:06:52	15.928	100.2	7.99	53241	7.91	161.1	0.03	0.19	1.61	3.183
Week 8	24-06-2024	10:06:53	15.929	100.1	7.99	53243	7.91	160.8	0.03	0.19	1.59	3.22
Week 8	24-06-2024	10:06:54	15.93	100.1	7.99	53243	7.91	160.3	0.04	0.19	1.61	3.281
Week 8	24-06-2024	10:06:55	15.93	100.1	7.98	53245	7.91	160.1	0.04	0.18	1.56	3.339
Week 8	24-06-2024	10:06:56	15.931	100	7.98	53246	7.91	159.8	0.05	0.19	1.6	3.399
Week 8	24-06-2024	10:06:57	15.932	100	7.98	53247	7.91	159.5	0.04	0.19	1.6	3.465
Week 8	24-06-2024	10:06:58	15.932	100	7.98	53248	7.91	159.1	0.04	0.17	1.55	3.522
Week 8	24-06-2024	10:06:59	15.932	99.9	7.97	53250	7.91	159	0.04	0.19	1.61	3.568
Week 8	24-06-2024	10:07:00	15.933	99.9	7.97	53251	7.91	158.8	0.04	0.2	1.63	3.613
Week 8	24-06-2024	10:07:01	15.933	99.9	7.97	53251	7.91	158.5	0.04	0.18	1.57	3.671
Week 8	24-06-2024	10:07:02	15.933	99.9	7.97	53252	7.91	158.2	0.03	0.18	1.55	3.714
Week 8	24-06-2024	10:07:03	15.933	99.8	7.96	53253	7.91	158	0.04	0.16	1.49	4.541
Week 8	24-06-2024	10:07:04	15.933	99.8	7.96	53254	7.91	157.9	0.04	0.18	1.57	4.763
Week 8	24-06-2024	10:07:05	15.933	99.8	7.96	53256	7.91	157.6	0.04	0.2	1.62	4.748
Week 8	24-06-2024	10:07:06	15.933	99.8	7.96	53256	7.91	157.5	0.04	0.21	1.68	4.706
Week 8	24-06-2024	10:07:07	15.933	99.7	7.96	53257	7.91	157.3	0.05	0.23	1.76	4.745
Week 8	24-06-2024	10:07:08	15.934	99.7	7.96	53257	7.91	157.1	0.05	0.24	1.78	4.809
Week 8	24-06-2024	10:07:09	15.934	99.7	7.95	53258	7.91	156.9	0.04	0.25	1.83	4.938
Week 8	24-06-2024	10:07:10	15.934	99.7	7.95	53259	7.91	156.8	0.04	0.24	1.8	4.963
Week 8	24-06-2024	10:07:11	15.934	99.7	7.95	53260	7.91	156.7	0.04	0.25	1.81	4.964
Week 8	24-06-2024	10:07:12	15.934	99.6	7.95	53260	7.91	156.6	0.04	0.24	1.79	4.977
Week 8	24-06-2024	10:07:13	15.934	99.6	7.95	53261	7.91	156.4	0.04	0.25	1.83	5.023
Week 8	24-06-2024	10:07:14	15.934	99.6	7.95	53261	7.91	156.4	0.05	0.26	1.85	5.097
Week 8	24-06-2024	10:07:15	15.935	99.6	7.95	53263	7.91	156.3	0.04	0.25	1.81	5.154
Week 8	24-06-2024	10:07:16	15.935	99.6	7.94	53263	7.9	156.2	0.04	0.24	1.78	5.209
Week 8	24-06-2024	10:07:17	15.936	99.6	7.94	53263	7.9	156.1	0.06	0.22	1.7	5.266
Week 8	24-06-2024	10:07:18	15.936	99.5	7.94	53264	7.9	156	0.05	0.21	1.66	5.319
Week 8	24-06-2024	10:07:19	15.936	99.5	7.94	53265	7.9	156	0.05	0.2	1.63	5.36
Week 8	24-06-2024	10:07:20	15.936	99.5	7.94	53265	7.9	156	0.06	0.19	1.62	6.105
Week 8	24-06-2024	10:07:21	15.936	99.5	7.94	53266	7.9	155.9	0.06	0.19	1.62	6.241
Week 8	24-06-2024	10:07:22	15.936	99.5	7.94	53266	7.89	155.9	0.04	0.18	1.56	6.432
Week 8	24-06-2024	10:07:23	15.936	99.5	7.94	53266	7.89	155.8	0.03	0.18	1.57	6.484
Week 8	24-06-2024	10:07:24	15.936	99.4	7.93	53266	7.89	155.8	0.03	0.16	1.51	6.555
Week 8	24-06-2024	10:07:25	15.936	99.4	7.93	53266	7.89	155.7	0.04	0.16	1.51	6.623
Week 8	24-06-2024	10:07:26	15.936	99.4	7.93	53267	7.89	155.7	0.04	0.18	1.55	6.656
Week 8	24-06-2024	10:07:27	15.936	99.4	7.93	53267	7.89	155.6	0.05	0.18	1.56	6.658
Week 8	24-06-2024	10:07:28	15.936	99.4	7.93	53268	7.88	155.6	0.04	0.19	1.6	6.654
Week 8	24-06-2024	10:07:29	15.935	99.4	7.93	53268	7.88	155.6	0.04	0.19	1.61	6.648
Week 8	24-06-2024	10:07:30	15.935	99.4	7.93	53269	7.88	155.5	0.05	0.2	1.65	6.677
Week 8	24-06-2024	10:07:31	15.935	99.3	7.93	53269	7.88	155.5	0.04	0.19	1.61	6.724
Week 8	24-06-2024	10:07:32	15.935	99.3	7.93	53269	7.88	155.5	0.04	0.2	1.64	6.769
Week 8	24-06-2024	10:07:33	15.935	99.3	7.92	53270	7.88	155.4	0.04	0.22	1.73	6.809
Week 8	24-06-2024	10:07:34	15.935	99.3	7.92	53271	7.88	155.4	0.04	0.23	1.74	6.852
Week 8	24-06-2024	10:07:35	15.936	99.3	7.92	53271	7.88	155.3	0.04	0.23	1.75	7.581
Week 8	24-06-2024	10:07:36	15.936	99.3	7.92	53272	7.87	155.2	0.05	0.23	1.75	7.658
Week 8	24-06-2024	10:07:37	15.937	99.3	7.92	53272	7.87	155.2	0.05	0.22	1.71	7.469
Week 8	24-06-2024	10:07:38	15.937	99.3	7.92	53273	7.87	155.1	0.05	0.21	1.66	7.498
Week 8	24-06-2024	10:07:39	15.938	99.3	7.92	53273	7.87	154.9	0.04	0.21	1.68	7.742
Week 8	24-06-2024	10:07:40	15.938	99.3	7.92	53274	7.87	154.9	0.04	0.19	1.6	7.86
Week 8	24-06-2024	10:07:41	15.939	99.3	7.92	53274	7.87	154.8	0.03	0.18	1.58	7.879
Week 8	24-06-2024	10:07:42	15.94	99.3	7.92	53275	7.87	154.7	0.04	0.2	1.65	7.877
Week 8	24-06-2024	10:07:43	15.94	99.3	7.92	53275	7.88	154.6	0.04	0.2	1.64	7.9
Week 8	24-06-2024	10:07:44	15.941	99.3	7.92	53275	7.88	154.3	0.03	0.18	1.58	7.94
Week 8	24-06-2024	10:07:45	15.942	99.3	7.92	53275	7.88	154.3	0.03	0.19	1.6	7.995
Week 8	24-06-2024	10:07:46	15.942	99.3	7.92	53276	7.88	154.1	0.03	0.19	1.6	8.053
Week 8	24-06-2024	10:07:47	15.943	99.2	7.92	53276	7.88	153.9	0.03	0.19	1.59	8.118
Week 8	24-06-2024	10:07:48	15.943	99.2	7.92	53277	7.88	153.6	0.03	0.18	1.57	8.173
Week 8	24-06-2024	10:07:49	15.943	99.2	7.92	53277	7.89	153.5	0.02	0.19	1.61	8.215
Week 8	24-06-2024	10:07:50	15.943	99.2	7.91	53277	7.89	153.3	0.02	0.18	1.58	8.259
Week 8	24-06-2024	10:07:51	15.944	99.2	7.91	53277	7.89	153	0.02	0.2	1.64	9.18
Week 8	24-06-2024	10:07:52	15.944	99.2	7.91	53277	7.89	152.7	0.02	0.2	1.64	9.189

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 8	24-06-2024	10:07:53	15.944	99.2	7.91	53277	7.9	152.4	0.03	0.19	1.62	9.289
Week 8	24-06-2024	10:07:54	15.944	99.2	7.91	53277	7.9	152.1	0.03	0.19	1.59	9.28
Week 8	24-06-2024	10:07:55	15.944	99.2	7.91	53277	7.91	151.7	0.02	0.2	1.65	9.396
Week 8	24-06-2024	10:07:56	15.944	99.1	7.91	53277	7.91	151.2	0.02	0.2	1.63	9.531
Week 8	24-06-2024	10:07:57	15.944	99.1	7.91	53277	7.92	151	0.02	0.2	1.64	9.603
Week 8	24-06-2024	10:07:58	15.944	99.1	7.91	53277	7.92	150.6	0.02	0.2	1.66	9.61
Week 8	24-06-2024	10:07:59	15.944	99.1	7.91	53277	7.93	150.3	0.02	0.21	1.69	9.614
Week 8	24-06-2024	10:08:00	15.944	99.1	7.91	53276	7.93	149.9	0.03	0.22	1.71	9.639
Week 8	24-06-2024	10:08:01	15.944	99.1	7.9	53276	7.94	149.4	0.03	0.22	1.73	9.703
Week 8	24-06-2024	10:08:02	15.943	99.1	7.9	53275	7.94	149.2	0.03	0.22	1.73	10.523
Week 8	24-06-2024	10:08:03	15.943	99.1	7.9	53274	7.95	148.8	0.02	0.22	1.72	10.705
Week 8	24-06-2024	10:08:04	15.943	99.1	7.9	53274	7.95	148.4	0.03	0.21	1.69	10.398
Week 8	24-06-2024	10:08:05	15.942	99	7.9	53273	7.96	147.8	0.04	0.21	1.67	10.316
Week 8	24-06-2024	10:08:06	15.942	99	7.9	53273	7.96	147.4	0.04	0.2	1.65	10.355
Week 8	24-06-2024	10:08:07	15.942	99	7.9	53273	7.97	147.3	0.03	0.2	1.65	10.441
Week 8	24-06-2024	10:08:08	15.942	99	7.9	53273	7.97	147	0.04	0.19	1.61	10.588
Week 8	24-06-2024	10:08:09	15.941	99	7.9	53272	7.98	146.4	0.05	0.19	1.6	10.707
Week 8	24-06-2024	10:08:10	15.941	99	7.9	53272	7.98	146.1	0.05	0.18	1.57	10.811
Week 8	24-06-2024	10:08:11	15.941	99	7.9	53271	7.98	146	0.05	0.17	1.55	10.918
Week 8	24-06-2024	10:08:12	15.94	99	7.9	53271	7.99	145.7	0.05	0.16	1.49	10.995
Week 8	24-06-2024	10:08:13	15.94	99	7.9	53271	7.99	145.4	0.04	0.16	1.48	11.059
Week 8	24-06-2024	10:08:14	15.939	99	7.89	53270	8	145	0.05	0.16	1.49	11.124
Week 8	24-06-2024	10:08:15	15.94	99	7.89	53269	8	144.9	0.04	0.17	1.52	11.173
Week 8	24-06-2024	10:08:16	15.942	99	7.89	53271	8	144.7	0.04	0.18	1.56	11.883
Week 8	24-06-2024	10:08:17	15.945	99	7.89	53272	8	144.4	0.05	0.18	1.57	11.687
Week 8	24-06-2024	10:08:18	15.948	99	7.89	53273	8.01	144.2	0.05	0.2	1.63	12.027
Week 8	24-06-2024	10:08:19	15.956	99	7.89	53272	8.01	144	0.06	0.21	1.66	12.136
Week 8	24-06-2024	10:08:20	15.965	99	7.9	53274	8.01	143.9	0.05	0.21	1.67	12.148
Week 8	24-06-2024	10:08:21	15.978	99	7.9	53277	8.01	143.8	0.05	0.22	1.7	12.22
Week 8	24-06-2024	10:08:22	15.997	99.1	7.9	53284	8.01	143.5	0.05	0.22	1.71	12.308
Week 8	24-06-2024	10:08:23	16.013	99.1	7.9	53292	8.01	143.4	0.04	0.23	1.74	12.402
Week 8	24-06-2024	10:08:24	16.031	99.1	7.89	53302	8.01	143.3	0.04	0.22	1.73	12.454
Week 8	24-06-2024	10:08:25	16.05	99.1	7.89	53311	8.02	143.2	0.04	0.23	1.74	12.481
Week 8	24-06-2024	10:08:26	16.067	99.1	7.89	53321	8.02	143	0.04	0.21	1.69	12.474
Week 8	24-06-2024	10:08:27	16.087	99.1	7.89	53330	8.02	142.8	0.05	0.2	1.64	12.467
Week 8	24-06-2024	10:08:28	16.104	99.1	7.88	53341	8.02	142.8	0.04	0.17	1.53	12.481
Week 8	24-06-2024	10:08:29	16.123	99.1	7.88	53349	8.02	142.7	0.04	0.16	1.49	12.498
Week 8	24-06-2024	10:08:30	16.139	99.1	7.88	53359	8.02	142.5	0.04	0.17	1.52	12.515
Week 8	24-06-2024	10:08:31	16.158	99.1	7.87	53368	8.02	142.4	0.04	0.18	1.57	12.554
Week 8	24-06-2024	10:08:32	16.172	99.1	7.87	53383	8.02	142.3	0.02	0.15	1.46	12.604
Week 8	24-06-2024	10:08:33	16.188	99.1	7.86	53391	8.02	142.2	0.03	0.15	1.45	12.65
Week 8	24-06-2024	10:08:34	16.199	99	7.86	53402	8.02	142	0.03	0.14	1.41	12.688
Week 8	24-06-2024	10:08:35	16.209	99	7.85	53408	8.02	141.9	0.03	0.14	1.41	12.723
Week 8	24-06-2024	10:08:36	16.218	98.9	7.84	53416	8.02	141.8	0.03	0.13	1.39	12.76
Week 8	24-06-2024	10:08:37	16.23	98.9	7.84	53420	8.02	141.7	0.04	0.11	1.33	12.791
Week 8	24-06-2024	10:08:38	16.24	98.8	7.83	53428	8.02	141.6	0.04	0.12	1.34	13.568
Week 8	24-06-2024	10:08:39	16.251	98.8	7.83	53434	8.02	141.5	0.05	0.12	1.37	13.706
Week 8	24-06-2024	10:08:40	16.261	98.8	7.83	53442	8.03	141.3	0.05	0.12	1.36	13.912
Week 8	24-06-2024	10:08:41	16.273	98.7	7.82	53448	8.03	141.3	0.05	0.1	1.29	14.099
Week 8	24-06-2024	10:08:42	16.283	98.7	7.81	53456	8.03	141.2	0.05	0.11	1.33	14.117
Week 8	24-06-2024	10:08:43	16.294	98.6	7.81	53462	8.03	141	0.05	0.13	1.39	14.182
Week 8	24-06-2024	10:08:44	16.302	98.6	7.8	53468	8.03	140.9	0.05	0.13	1.37	14.205
Week 8	24-06-2024	10:08:45	16.309	98.5	7.8	53474	8.03	140.9	0.06	0.13	1.39	14.227
Week 8	24-06-2024	10:08:46	16.314	98.5	7.79	53476	8.03	140.8	0.06	0.13	1.38	14.231
Week 8	24-06-2024	10:08:47	16.318	98.4	7.79	53480	8.03	140.6	0.06	0.14	1.42	14.249
Week 8	24-06-2024	10:08:48	16.323	98.4	7.78	53483	8.03	140.5	0.06	0.15	1.44	14.277
Week 8	24-06-2024	10:08:49	16.327	98.3	7.78	53486	8.03	140.5	0.05	0.15	1.44	14.317
Week 8	24-06-2024	10:08:50	16.33	98.3	7.77	53490	8.03	140.4	0.05	0.16	1.49	15.127
Week 8	24-06-2024	10:08:51	16.333	98.2	7.77	53492	8.03	140.3	0.05	0.14	1.41	15.108
Week 8	24-06-2024	10:08:52	16.336	98.1	7.76	53495	8.03	140.2	0.04	0.14	1.44	14.816
Week 8	24-06-2024	10:08:53	16.338	98.1	7.76	53496	8.03	140.1	0.04	0.12	1.36	14.79
Week 8	24-06-2024	10:08:54	16.34	98	7.75	53498	8.03	140.1	0.02	0.12	1.34	14.751
Week 8	24-06-2024	10:08:55	16.341	98	7.75	53499	8.03	140	0.02	0.13	1.37	14.839
Week 8	24-06-2024	10:08:56	16.343	97.9	7.74	53502	8.03	139.8	0.03	0.12	1.35	14.992
Week 8	24-06-2024	10:08:57	16.345	97.9	7.74	53504	8.03	139.8	0.03	0.1	1.29	15.054
Week 8	24-06-2024	10:08:58	16.346	97.8	7.73	53506	8.03	139.7	0.03	0.1	1.29	15.082
Week 8	24-06-2024	10:08:59	16.348	97.8	7.73	53508	8.03	139.6	0.02	0.1	1.28	15.116
Week 8	24-06-2024	10:09:00	16.349	97.7	7.73	53510	8.03	139.6	0.02	0.12	1.33	15.144
Week 8	24-06-2024	10:09:01	16.351	97.7	7.72	53512	8.03	139.5	0.02	0.12	1.35	15.184
Week 8	24-06-2024	10:09:02	16.353	97.6	7.72	53514	8.03	139.4	0.03	0.13	1.39	15.966
Week 8	24-06-2024	10:09:03	16.354	97.6	7.72	53515	8.03	139.3	0.03	0.14	1.41	15.796
Week 8	24-06-2024	10:09:04	16.355	97.6	7.71	53517	8.03	139.3	0.02	0.14	1.42	15.705
Week 8	24-06-2024	10:09:05	16.356	97.5	7.71	53518	8.03	139.2	0.03	0.13	1.4	15.817

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 8	24-06-2024	10:09:06	16.358	97.5	7.71	53519	8.03	139.1	0.03	0.16	1.48	15.998
Week 8	24-06-2024	10:09:07	16.359	97.4	7.7	53520	8.03	139	0.03	0.16	1.48	16.137
Week 8	24-06-2024	10:09:08	16.36	97.4	7.7	53522	8.03	139	0.03	0.15	1.45	16.103
Week 8	24-06-2024	10:09:09	16.361	97.4	7.7	53522	8.03	138.9	0.03	0.17	1.52	16.058
Week 8	24-06-2024	10:09:10	16.361	97.3	7.69	53523	8.03	138.9	0.04	0.16	1.5	16.011
Week 8	24-06-2024	10:09:11	16.362	97.3	7.69	53524	8.03	138.8	0.03	0.14	1.42	16.028
Week 8	24-06-2024	10:09:12	16.363	97.3	7.69	53524	8.03	138.7	0.03	0.11	1.33	16.063
Week 8	24-06-2024	10:09:13	16.364	97.3	7.69	53525	8.03	138.7	0.02	0.12	1.36	16.13
Week 8	24-06-2024	10:09:14	16.364	97.2	7.68	53525	8.03	138.6	0.02	0.11	1.3	16.206
Week 8	24-06-2024	10:09:15	16.365	97.2	7.68	53525	8.03	138.6	0.02	0.1	1.27	16.259
Week 8	24-06-2024	10:09:16	16.365	97.2	7.68	53526	8.03	138.5	0.02	0.11	1.31	16.3
Week 8	24-06-2024	10:09:17	16.366	97.2	7.68	53526	8.03	138.4	0.03	0.09	1.24	16.342
Week 8	24-06-2024	10:09:18	16.366	97.1	7.68	53526	8.03	138.4	0.04	0.08	1.21	17.112
Week 8	24-06-2024	10:09:19	16.367	97.1	7.67	53526	8.03	138.3	0.03	0.09	1.25	17.134
Week 8	24-06-2024	10:09:20	16.368	97.1	7.67	53527	8.03	138.2	0.03	0.12	1.34	17.155
Week 8	24-06-2024	10:09:21	16.368	97	7.67	53526	8.03	138.2	0.04	0.11	1.32	17.228
Week 8	24-06-2024	10:09:22	16.369	97	7.67	53527	8.03	138.2	0.04	0.13	1.38	17.356
Week 8	24-06-2024	10:09:23	16.37	97	7.66	53526	8.03	138.1	0.03	0.13	1.4	17.547
Week 8	24-06-2024	10:09:24	16.371	97	7.66	53527	8.03	138	0.04	0.16	1.49	17.632
Week 8	24-06-2024	10:09:25	16.371	96.9	7.66	53527	8.04	138	0.03	0.16	1.49	17.659
Week 8	24-06-2024	10:09:26	16.372	96.9	7.66	53528	8.04	137.9	0.04	0.17	1.52	17.684
Week 8	24-06-2024	10:09:27	16.372	96.9	7.65	53529	8.04	137.9	0.06	0.17	1.52	17.691
Week 8	24-06-2024	10:09:28	16.373	96.8	7.65	53529	8.04	137.8	0.07	0.18	1.59	17.715
Week 8	24-06-2024	10:09:29	16.373	96.8	7.65	53530	8.04	137.8	0.07	0.19	1.62	17.754
Week 8	24-06-2024	10:09:30	16.373	96.8	7.65	53530	8.04	137.7	0.07	0.18	1.58	17.782
Week 8	24-06-2024	10:09:31	16.374	96.8	7.65	53531	8.04	137.7	0.07	0.16	1.51	18.622
Week 8	24-06-2024	10:09:32	16.374	96.7	7.64	53532	8.04	137.6	0.06	0.15	1.47	18.948
Week 8	24-06-2024	10:09:33	16.374	96.7	7.64	53532	8.04	137.6	0.06	0.16	1.48	18.819
Week 8	24-06-2024	10:09:34	16.374	96.7	7.64	53533	8.04	137.5	0.06	0.16	1.5	18.582
Week 8	24-06-2024	10:09:35	16.374	96.7	7.64	53534	8.04	137.5	0.05	0.14	1.43	18.583
Week 8	24-06-2024	10:09:36	16.374	96.6	7.64	53535	8.04	137.4	0.05	0.13	1.37	18.737
Week 8	24-06-2024	10:09:37	16.375	96.6	7.63	53535	8.04	137.4	0.06	0.12	1.35	18.868
Week 8	24-06-2024	10:09:38	16.375	96.6	7.63	53535	8.04	137.3	0.06	0.13	1.39	18.973
Week 8	24-06-2024	10:09:39	16.375	96.6	7.63	53535	8.04	137.3	0.05	0.12	1.37	19.056
Week 8	24-06-2024	10:09:40	16.375	96.6	7.63	53535	8.04	137.2	0.04	0.13	1.37	19.116
Week 8	24-06-2024	10:09:41	16.376	96.5	7.63	53535	8.04	137.2	0.04	0.14	1.42	19.159
Week 8	24-06-2024	10:09:42	16.376	96.5	7.63	53536	8.04	137.1	0.03	0.13	1.4	19.213
Week 8	24-06-2024	10:09:43	16.376	96.5	7.62	53536	8.04	137.1	0.02	0.15	1.44	20.099
Week 8	24-06-2024	10:09:44	16.376	96.5	7.62	53536	8.04	137	0.02	0.14	1.42	20.051
Week 8	24-06-2024	10:09:45	16.376	96.5	7.62	53536	8.04	137	0.03	0.15	1.48	19.889
Week 8	24-06-2024	10:09:46	16.376	96.5	7.62	53536	8.04	136.9	0.03	0.16	1.49	19.621
Week 8	24-06-2024	10:09:47	16.377	96.4	7.62	53536	8.04	136.9	0.03	0.16	1.51	19.569
Week 8	24-06-2024	10:09:48	16.377	96.4	7.62	53535	8.04	136.9	0.03	0.16	1.49	19.6
Week 8	24-06-2024	10:09:49	16.377	96.4	7.62	53535	8.04	136.8	0.03	0.14	1.42	19.727
Week 8	24-06-2024	10:09:50	16.377	96.4	7.61	53535	8.04	136.8	0.03	0.13	1.38	20.701
Week 8	24-06-2024	10:09:51	16.376	96.4	7.61	53536	8.04	136.7	0.04	0.11	1.31	20.791
Week 8	24-06-2024	10:09:52	16.377	96.4	7.61	53536	8.04	136.7	0.04	0.11	1.32	20.836
Week 8	24-06-2024	10:09:53	16.377	96.3	7.61	53537	8.04	136.7	0.03	0.12	1.34	20.971
Week 8	24-06-2024	10:09:54	16.377	96.3	7.61	53537	8.04	136.6	0.04	0.11	1.31	20.915
Week 8	24-06-2024	10:09:55	16.377	96.3	7.61	53537	8.04	136.6	0.03	0.11	1.33	20.918
Week 8	24-06-2024	10:09:56	16.377	96.3	7.61	53538	8.04	136.5	0.04	0.1	1.28	20.939
Week 8	24-06-2024	10:09:57	16.377	96.3	7.61	53538	8.04	136.5	0.04	0.1	1.28	20.93
Week 8	24-06-2024	10:09:58	16.377	96.3	7.61	53538	8.04	136.4	0.05	0.1	1.29	20.909
Week 8	24-06-2024	10:09:59	16.377	96.2	7.6	53538	8.04	136.4	0.06	0.11	1.3	20.924
Week 8	24-06-2024	10:10:00	16.377	96.2	7.6	53539	8.04	136.4	0.06	0.12	1.35	20.982
Week 8	24-06-2024	10:10:01	16.378	96.2	7.6	53539	8.04	136.3	0.06	0.12	1.37	21.921
Week 8	24-06-2024	10:10:02	16.378	96.2	7.6	53540	8.04	136.3	0.06	0.16	1.49	21.97
Week 8	24-06-2024	10:10:03	16.378	96.2	7.6	53540	8.04	136.3	0.06	0.15	1.44	21.98
Week 8	24-06-2024	10:10:04	16.378	96.2	7.6	53540	8.04	136.2	0.06	0.14	1.43	21.948
Week 8	24-06-2024	10:10:05	16.379	96.2	7.6	53540	8.04	136.2	0.07	0.15	1.45	21.745
Week 8	24-06-2024	10:10:06	16.379	96.2	7.6	53540	8.04	136.1	0.05	0.14	1.43	21.707
Week 8	24-06-2024	10:10:07	16.379	96.1	7.6	53540	8.04	136.1	0.05	0.15	1.46	21.776
Week 8	24-06-2024	10:10:08	16.379	96.1	7.59	53540	8.04	136.1	0.05	0.14	1.43	21.89
Week 8	24-06-2024	10:10:09	16.379	96.1	7.59	53540	8.04	136	0.06	0.14	1.41	22.004
Week 8	24-06-2024	10:10:10	16.379	96.1	7.59	53541	8.04	136	0.06	0.14	1.44	22.107
Week 8	24-06-2024	10:10:11	16.379	96.1	7.59	53540	8.04	136	0.07	0.14	1.42	22.145
Week 8	24-06-2024	10:10:12	16.379	96.1	7.59	53540	8.04	135.9	0.06	0.15	1.45	22.174
Week 8	24-06-2024	10:10:13	16.379	96.1	7.59	53539	8.04	135.9	0.04	0.14	1.41	22.217
Week 8	24-06-2024	10:10:14	16.379	96.1	7.59	53539	8.04	135.9	0.04	0.13	1.4	23.293
Week 8	24-06-2024	10:10:15	16.379	96	7.59	53539	8.04	135.8	0.05	0.13	1.37	23.406
Week 8	24-06-2024	10:10:16	16.379	96	7.59	53539	8.04	135.8	0.05	0.13	1.38	22.945
Week 8	24-06-2024	10:10:17	16.379	96	7.58	53539	8.04	135.7	0.05	0.13	1.4	22.83
Week 8	24-06-2024	10:10:18	16.379	96	7.58	53539	8.04	135.7	0.05	0.13	1.4	22.878

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 8	24-06-2024	10:10:19	16.38	96	7.58	53539	8.04	135.7	0.06	0.14	1.41	23.035
Week 8	24-06-2024	10:10:20	16.38	96	7.58	53539	8.04	135.6	0.07	0.13	1.38	23.239
Week 8	24-06-2024	10:10:21	16.379	96	7.58	53539	8.04	135.6	0.07	0.12	1.35	24.129
Week 8	24-06-2024	10:10:22	16.379	95.9	7.58	53539	8.04	135.6	0.07	0.11	1.32	24.046
Week 8	24-06-2024	10:10:23	16.379	95.9	7.58	53540	8.04	135.5	0.07	0.09	1.25	24.004
Week 8	24-06-2024	10:10:24	16.379	95.9	7.58	53540	8.04	135.5	0.09	0.09	1.24	23.869
Week 8	24-06-2024	10:10:25	16.379	95.9	7.58	53540	8.04	135.5	0.08	0.1	1.29	23.876
Week 8	24-06-2024	10:10:26	16.379	95.9	7.58	53540	8.04	135.4	0.09	0.11	1.32	23.934
Week 8	24-06-2024	10:10:27	16.379	95.9	7.58	53541	8.04	135.4	0.09	0.12	1.36	24.078
Week 8	24-06-2024	10:10:28	16.379	95.9	7.57	53541	8.04	135.4	0.09	0.13	1.4	24.158
Week 8	24-06-2024	10:10:29	16.379	95.9	7.57	53542	8.04	135.3	0.1	0.14	1.42	24.212
Week 8	24-06-2024	10:10:30	16.379	95.8	7.57	53542	8.04	135.3	0.09	0.16	1.5	24.251
Week 8	24-06-2024	10:10:31	16.38	95.8	7.57	53542	8.04	135.3	0.08	0.18	1.56	24.305
Week 8	24-06-2024	10:10:32	16.38	95.8	7.57	53543	8.04	135.2	0.09	0.19	1.59	24.384
Week 8	24-06-2024	10:10:33	16.38	95.8	7.57	53543	8.04	135.2	0.08	0.2	1.65	24.441
Week 8	24-06-2024	10:10:34	16.38	95.8	7.57	53543	8.04	135.2	0.07	0.21	1.67	24.48
Week 8	24-06-2024	10:10:35	16.38	95.8	7.57	53543	8.04	135.1	0.06	0.22	1.73	24.517
Week 8	24-06-2024	10:10:36	16.38	95.8	7.57	53544	8.04	135.1	0.06	0.22	1.73	24.547
Week 8	24-06-2024	10:10:37	16.38	95.8	7.57	53544	8.04	135.1	0.06	0.22	1.72	24.57
Week 8	24-06-2024	10:10:38	16.38	95.8	7.57	53544	8.04	135	0.05	0.22	1.7	25.308
Week 8	24-06-2024	10:10:39	16.38	95.8	7.56	53545	8.04	135	0.05	0.22	1.73	25.332
Week 8	24-06-2024	10:10:40	16.38	95.7	7.56	53546	8.04	135	0.05	0.21	1.67	25.45
Week 8	24-06-2024	10:10:41	16.38	95.7	7.56	53546	8.04	135	0.05	0.21	1.67	25.75
Week 8	24-06-2024	10:10:42	16.38	95.7	7.56	53547	8.04	134.9	0.05	0.18	1.58	25.743
Week 8	24-06-2024	10:10:43	16.38	95.7	7.56	53546	8.04	134.9	0.05	0.2	1.64	25.738
Week 8	24-06-2024	10:10:44	16.38	95.7	7.56	53547	8.04	134.9	0.05	0.19	1.61	25.774
Week 8	24-06-2024	10:10:45	16.38	95.7	7.56	53547	8.04	134.9	0.06	0.18	1.58	25.852
Week 8	24-06-2024	10:10:46	16.38	95.7	7.56	53547	8.04	134.8	0.07	0.17	1.55	25.904
Week 8	24-06-2024	10:10:47	16.38	95.7	7.56	53547	8.04	134.8	0.06	0.16	1.49	25.944
Week 8	24-06-2024	10:10:48	16.38	95.7	7.56	53547	8.04	134.7	0.07	0.16	1.49	25.99
Week 8	24-06-2024	10:10:49	16.38	95.7	7.56	53548	8.04	134.7	0.07	0.16	1.49	26.052
Week 8	24-06-2024	10:10:50	16.38	95.6	7.56	53548	8.04	134.7	0.07	0.16	1.51	26.076
Week 8	24-06-2024	10:10:51	16.38	95.6	7.56	53548	8.04	134.6	0.08	0.15	1.46	26.076
Week 8	24-06-2024	10:10:52	16.38	95.6	7.56	53548	8.04	134.6	0.07	0.15	1.45	26.065
Week 8	24-06-2024	10:10:53	16.381	95.6	7.55	53549	8.04	134.6	0.06	0.15	1.46	26.055
Week 8	24-06-2024	10:10:54	16.381	95.6	7.55	53548	8.04	134.6	0.06	0.14	1.43	26.037
Week 8	24-06-2024	10:10:55	16.381	95.6	7.55	53548	8.04	134.5	0.06	0.12	1.35	26.002
Week 8	24-06-2024	10:10:56	16.38	95.6	7.55	53548	8.04	134.5	0.05	0.11	1.32	25.964
Week 8	24-06-2024	10:10:57	16.38	95.6	7.55	53548	8.04	134.5	0.05	0.1	1.29	25.278
Week 8	24-06-2024	10:10:58	16.38	95.6	7.55	53548	8.04	134.4	0.05	0.1	1.27	25.324
Week 8	24-06-2024	10:10:59	16.38	95.6	7.55	53548	8.04	134.4	0.05	0.08	1.2	25.217
Week 8	24-06-2024	10:11:00	16.38	95.6	7.55	53548	8.04	134.4	0.04	0.08	1.2	25.192
Week 8	24-06-2024	10:11:01	16.38	95.6	7.55	53547	8.04	134.3	0.04	0.06	1.12	24.996
Week 8	24-06-2024	10:11:02	16.38	95.6	7.55	53547	8.04	134.3	0.04	0.06	1.12	24.853
Week 8	24-06-2024	10:11:03	16.38	95.6	7.55	53547	8.04	134.3	0.04	0.06	1.12	24.811
Week 8	24-06-2024	10:11:04	16.38	95.6	7.55	53547	8.04	134.3	0.04	0.04	1.05	24.825
Week 8	24-06-2024	10:11:05	16.38	95.6	7.55	53547	8.04	134.2	0.05	0.05	1.09	24.813
Week 8	24-06-2024	10:11:06	16.38	95.6	7.55	53547	8.04	134.2	0.05	0.06	1.13	24.792
Week 8	24-06-2024	10:11:07	16.38	95.6	7.55	53547	8.04	134.2	0.06	0.07	1.15	24.772
Week 8	24-06-2024	10:11:08	16.38	95.6	7.55	53547	8.04	134.1	0.07	0.08	1.19	24.748
Week 8	24-06-2024	10:11:09	16.38	95.6	7.55	53547	8.04	134.1	0.06	0.06	1.15	24.721
Week 8	24-06-2024	10:11:10	16.38	95.6	7.55	53547	8.04	134.1	0.06	0.07	1.17	24.698
Week 8	24-06-2024	10:11:11	16.38	95.6	7.55	53547	8.04	134.1	0.05	0.07	1.19	24.673
Week 8	24-06-2024	10:11:12	16.379	95.6	7.55	53548	8.04	134	0.06	0.06	1.15	24.646
Week 8	24-06-2024	10:11:13	16.379	95.6	7.55	53548	8.04	134	0.06	0.06	1.14	24.618
Week 8	24-06-2024	10:11:14	16.379	95.6	7.55	53548	8.04	134	0.06	0.07	1.18	24.591
Week 8	24-06-2024	10:11:15	16.38	95.6	7.55	53547	8.04	133.9	0.07	0.08	1.22	24.563
Week 8	24-06-2024	10:11:16	16.38	95.6	7.55	53547	8.04	133.9	0.07	0.09	1.24	24.536
Week 8	24-06-2024	10:11:17	16.379	95.6	7.55	53548	8.04	133.9	0.07	0.09	1.24	24.51
Week 8	24-06-2024	10:11:18	16.379	95.6	7.55	53548	8.04	133.9	0.07	0.09	1.24	24.49
Week 8	24-06-2024	10:11:19	16.38	95.6	7.55	53548	8.04	133.8	0.07	0.09	1.25	24.462
Week 8	24-06-2024	10:11:20	16.38	95.6	7.55	53547	8.04	133.8	0.07	0.1	1.28	23.675
Week 8	24-06-2024	10:11:21	16.38	95.6	7.55	53547	8.04	133.8	0.08	0.11	1.33	23.46
Week 8	24-06-2024	10:11:22	16.38	95.6	7.55	53547	8.04	133.8	0.08	0.12	1.36	23.361
Week 8	24-06-2024	10:11:23	16.38	95.6	7.55	53547	8.04	133.7	0.08	0.13	1.37	23.41
Week 8	24-06-2024	10:11:24	16.38	95.6	7.55	53547	8.04	133.7	0.09	0.14	1.44	23.401
Week 8	24-06-2024	10:11:25	16.38	95.6	7.55	53547	8.04	133.7	0.09	0.16	1.49	23.384
Week 8	24-06-2024	10:11:26	16.38	95.6	7.55	53547	8.04	133.7	0.09	0.16	1.49	23.37
Week 8	24-06-2024	10:11:27	16.38	95.6	7.55	53547	8.04	133.6	0.07	0.16	1.49	23.342
Week 8	24-06-2024	10:11:28	16.38	95.6	7.55	53548	8.04	133.6	0.07	0.16	1.5	23.273
Week 8	24-06-2024	10:11:29	16.379	95.6	7.55	53548	8.04	133.6	0.07	0.17	1.55	22.463
Week 8	24-06-2024	10:11:30	16.379	95.6	7.55	53548	8.04	133.6	0.06	0.17	1.52	22.743
Week 8	24-06-2024	10:11:31	16.379	95.6	7.55	53548	8.04	133.6	0.05	0.17	1.55	22.748

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 8	24-06-2024	10:11:32	16.379	95.6	7.55	53548	8.04	133.5	0.05	0.17	1.52	22.698
Week 8	24-06-2024	10:11:33	16.379	95.6	7.55	53549	8.04	133.5	0.05	0.17	1.54	22.495
Week 8	24-06-2024	10:11:34	16.379	95.6	7.55	53549	8.04	133.5	0.05	0.17	1.52	22.382
Week 8	24-06-2024	10:11:35	16.379	95.6	7.56	53549	8.04	133.5	0.04	0.16	1.5	22.388
Week 8	24-06-2024	10:11:36	16.379	95.6	7.55	53549	8.04	133.5	0.04	0.16	1.48	22.365
Week 8	24-06-2024	10:11:37	16.379	95.6	7.56	53549	8.04	133.5	0.03	0.15	1.47	22.316
Week 8	24-06-2024	10:11:38	16.379	95.7	7.56	53549	8.04	133.4	0.03	0.16	1.51	22.252
Week 8	24-06-2024	10:11:39	16.379	95.7	7.56	53549	8.04	133.4	0.02	0.16	1.5	22.205
Week 8	24-06-2024	10:11:40	16.379	95.7	7.56	53549	8.04	133.4	0.03	0.16	1.49	22.151
Week 8	24-06-2024	10:11:41	16.379	95.7	7.56	53549	8.04	133.4	0.03	0.17	1.52	22.09
Week 8	24-06-2024	10:11:42	16.379	95.7	7.56	53549	8.04	133.4	0.04	0.16	1.5	22.067
Week 8	24-06-2024	10:11:43	16.379	95.7	7.56	53549	8.04	133.3	0.04	0.15	1.47	22.033
Week 8	24-06-2024	10:11:44	16.379	95.7	7.56	53549	8.04	133.3	0.04	0.16	1.49	21.991
Week 8	24-06-2024	10:11:45	16.379	95.7	7.56	53549	8.04	133.3	0.04	0.17	1.52	20.887
Week 8	24-06-2024	10:11:46	16.379	95.7	7.56	53549	8.04	133.3	0.05	0.16	1.5	20.931
Week 8	24-06-2024	10:11:47	16.379	95.7	7.56	53548	8.04	133.3	0.06	0.15	1.46	20.926
Week 8	24-06-2024	10:11:48	16.379	95.7	7.56	53548	8.04	133.2	0.06	0.13	1.41	20.965
Week 8	24-06-2024	10:11:49	16.379	95.7	7.56	53548	8.04	133.2	0.07	0.12	1.35	20.955
Week 8	24-06-2024	10:11:50	16.379	95.7	7.56	53549	8.04	133.2	0.06	0.11	1.32	20.867
Week 8	24-06-2024	10:11:51	16.379	95.7	7.56	53548	8.04	133.2	0.05	0.12	1.35	20.808
Week 8	24-06-2024	10:11:52	16.379	95.7	7.56	53548	8.04	133.2	0.06	0.12	1.34	20.775
Week 8	24-06-2024	10:11:53	16.379	95.7	7.56	53547	8.04	133.1	0.06	0.12	1.35	20.72
Week 8	24-06-2024	10:11:54	16.379	95.7	7.56	53548	8.04	133.1	0.06	0.13	1.37	20.646
Week 8	24-06-2024	10:11:55	16.379	95.7	7.56	53547	8.04	133.1	0.06	0.11	1.33	19.782
Week 8	24-06-2024	10:11:56	16.379	95.7	7.56	53548	8.04	133.1	0.05	0.1	1.28	20.079
Week 8	24-06-2024	10:11:57	16.379	95.7	7.56	53548	8.04	133.1	0.04	0.1	1.26	20.34
Week 8	24-06-2024	10:11:58	16.379	95.7	7.56	53548	8.04	133.1	0.04	0.11	1.31	20.295
Week 8	24-06-2024	10:11:59	16.379	95.7	7.56	53548	8.04	133.1	0.04	0.11	1.32	20.147
Week 8	24-06-2024	10:12:00	16.379	95.8	7.56	53549	8.04	133.1	0.04	0.13	1.37	20.067
Week 8	24-06-2024	10:12:01	16.379	95.8	7.56	53550	8.04	133	0.03	0.13	1.38	19.984
Week 8	24-06-2024	10:12:02	16.379	95.8	7.57	53550	8.04	133	0.03	0.12	1.35	19.837
Week 8	24-06-2024	10:12:03	16.379	95.8	7.57	53550	8.04	133	0.03	0.11	1.3	19.72
Week 8	24-06-2024	10:12:04	16.379	95.8	7.57	53550	8.04	133	0.03	0.1	1.28	19.645
Week 8	24-06-2024	10:12:05	16.379	95.8	7.57	53551	8.04	133	0.03	0.09	1.23	19.619
Week 8	24-06-2024	10:12:06	16.379	95.8	7.57	53552	8.04	133	0.03	0.09	1.23	19.575
Week 8	24-06-2024	10:12:07	16.379	95.8	7.57	53552	8.04	133	0.04	0.08	1.22	19.535
Week 8	24-06-2024	10:12:08	16.379	95.8	7.57	53552	8.04	132.9	0.04	0.1	1.28	19.494
Week 8	24-06-2024	10:12:09	16.379	95.8	7.57	53552	8.04	132.9	0.03	0.1	1.26	19.451
Week 8	24-06-2024	10:12:10	16.379	95.8	7.57	53552	8.04	132.9	0.04	0.09	1.24	19.407
Week 8	24-06-2024	10:12:11	16.379	95.8	7.57	53552	8.04	132.9	0.07	0.08	1.22	19.354
Week 8	24-06-2024	10:12:12	16.379	95.8	7.57	53551	8.04	132.9	0.07	0.09	1.24	18.583
Week 8	24-06-2024	10:12:13	16.379	95.8	7.57	53550	8.04	132.9	0.04	0.1	1.27	18.345
Week 8	24-06-2024	10:12:14	16.379	95.8	7.57	53550	8.04	132.9	0.05	0.09	1.24	18.404
Week 8	24-06-2024	10:12:15	16.378	95.8	7.57	53550	8.04	132.9	0.05	0.09	1.25	18.459
Week 8	24-06-2024	10:12:16	16.378	95.8	7.57	53549	8.04	132.8	0.05	0.09	1.26	18.508
Week 8	24-06-2024	10:12:17	16.378	95.8	7.57	53549	8.04	132.8	0.05	0.1	1.28	18.503
Week 8	24-06-2024	10:12:18	16.378	95.8	7.57	53549	8.04	132.8	0.04	0.12	1.35	18.484
Week 8	24-06-2024	10:12:19	16.378	95.8	7.57	53548	8.04	132.8	0.05	0.11	1.33	18.436
Week 8	24-06-2024	10:12:20	16.378	95.9	7.57	53548	8.04	132.8	0.06	0.11	1.32	18.352
Week 8	24-06-2024	10:12:21	16.378	95.9	7.57	53548	8.04	132.8	0.05	0.12	1.36	18.289
Week 8	24-06-2024	10:12:22	16.378	95.9	7.57	53547	8.04	132.7	0.04	0.11	1.32	18.246
Week 8	24-06-2024	10:12:23	16.378	95.9	7.57	53547	8.04	132.7	0.04	0.11	1.3	18.215
Week 8	24-06-2024	10:12:24	16.378	95.9	7.57	53547	8.04	132.7	0.04	0.11	1.31	18.189
Week 8	24-06-2024	10:12:25	16.378	95.9	7.57	53547	8.04	132.7	0.03	0.11	1.32	18.153
Week 8	24-06-2024	10:12:26	16.378	95.9	7.57	53547	8.04	132.7	0.02	0.12	1.33	18.101
Week 8	24-06-2024	10:12:27	16.378	95.9	7.58	53547	8.04	132.6	0.02	0.12	1.33	17.093
Week 8	24-06-2024	10:12:28	16.378	95.9	7.58	53547	8.04	132.6	0.02	0.1	1.29	17.282
Week 8	24-06-2024	10:12:29	16.378	95.9	7.58	53546	8.04	132.6	0.02	0.1	1.27	17.362
Week 8	24-06-2024	10:12:30	16.378	95.9	7.58	53546	8.04	132.6	0.02	0.1	1.3	17.321
Week 8	24-06-2024	10:12:31	16.377	95.9	7.58	53546	8.04	132.6	0.02	0.11	1.32	17.275
Week 8	24-06-2024	10:12:32	16.377	95.9	7.58	53545	8.04	132.6	0.02	0.1	1.28	17.152
Week 8	24-06-2024	10:12:33	16.377	95.9	7.58	53545	8.04	132.5	0.02	0.12	1.34	17.022
Week 8	24-06-2024	10:12:34	16.377	95.9	7.58	53545	8.04	132.5	0.01	0.12	1.34	16.92
Week 8	24-06-2024	10:12:35	16.376	95.9	7.58	53545	8.04	132.5	0.01	0.11	1.31	16.846
Week 8	24-06-2024	10:12:36	16.376	95.9	7.58	53544	8.04	132.5	0.01	0.12	1.34	16.791
Week 8	24-06-2024	10:12:37	16.375	95.9	7.58	53544	8.04	132.5	0.01	0.12	1.37	16.735
Week 8	24-06-2024	10:12:38	16.375	96	7.58	53543	8.04	132.5	0.02	0.12	1.36	16.699
Week 8	24-06-2024	10:12:39	16.374	96	7.58	53543	8.04	132.4	0.02	0.13	1.39	16.668
Week 8	24-06-2024	10:12:40	16.374	96	7.58	53542	8.04	132.4	0.02	0.13	1.38	16.631
Week 8	24-06-2024	10:12:41	16.374	96	7.58	53542	8.04	132.4	0.03	0.11	1.32	16.582
Week 8	24-06-2024	10:12:42	16.373	96	7.58	53542	8.04	132.4	0.03	0.11	1.32	15.756
Week 8	24-06-2024	10:12:43	16.373	96	7.58	53542	8.04	132.4	0.03	0.11	1.3	15.389
Week 8	24-06-2024	10:12:44	16.372	96	7.58	53542	8.04	132.4	0.03	0.11	1.3	15.226

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 8	24-06-2024	10:12:45	16.372	96	7.59	53541	8.04	132.3	0.03	0.1	1.27	15.332
Week 8	24-06-2024	10:12:46	16.372	96	7.59	53541	8.04	132.3	0.03	0.11	1.3	15.519
Week 8	24-06-2024	10:12:47	16.371	96	7.59	53541	8.04	132.3	0.03	0.11	1.31	15.625
Week 8	24-06-2024	10:12:48	16.371	96	7.59	53541	8.04	132.3	0.04	0.1	1.28	15.59
Week 8	24-06-2024	10:12:49	16.371	96.1	7.59	53541	8.05	132.3	0.04	0.11	1.3	15.47
Week 8	24-06-2024	10:12:50	16.37	96.1	7.59	53541	8.05	132.3	0.04	0.1	1.26	15.358
Week 8	24-06-2024	10:12:51	16.37	96.1	7.59	53541	8.05	132.3	0.04	0.09	1.24	14.673
Week 8	24-06-2024	10:12:52	16.37	96.1	7.59	53540	8.05	132.2	0.04	0.11	1.33	14.742
Week 8	24-06-2024	10:12:53	16.37	96.1	7.59	53540	8.05	132.2	0.02	0.1	1.29	14.413
Week 8	24-06-2024	10:12:54	16.369	96.1	7.59	53539	8.05	132.2	0.03	0.1	1.29	14.396
Week 8	24-06-2024	10:12:55	16.369	96.1	7.59	53539	8.05	132.2	0.03	0.09	1.26	14.391
Week 8	24-06-2024	10:12:56	16.368	96.1	7.6	53538	8.05	132.2	0.02	0.09	1.25	14.416
Week 8	24-06-2024	10:12:57	16.368	96.1	7.6	53537	8.05	132.2	0.02	0.08	1.21	14.379
Week 8	24-06-2024	10:12:58	16.367	96.1	7.6	53536	8.05	132.2	0.02	0.08	1.2	13.468
Week 8	24-06-2024	10:12:59	16.366	96.2	7.6	53535	8.05	132.1	0.02	0.07	1.17	13.587
Week 8	24-06-2024	10:13:00	16.365	96.2	7.6	53533	8.05	132.1	0.02	0.07	1.17	13.7
Week 8	24-06-2024	10:13:01	16.364	96.2	7.6	53532	8.05	132.1	0.02	0.09	1.23	13.738
Week 8	24-06-2024	10:13:02	16.363	96.2	7.6	53531	8.05	132.1	0.03	0.09	1.23	13.72
Week 8	24-06-2024	10:13:03	16.362	96.2	7.6	53530	8.05	132.1	0.02	0.06	1.14	13.67
Week 8	24-06-2024	10:13:04	16.361	96.2	7.6	53529	8.05	132.1	0.02	0.07	1.18	13.609
Week 8	24-06-2024	10:13:05	16.36	96.2	7.6	53528	8.05	132.1	0.02	0.07	1.16	13.531
Week 8	24-06-2024	10:13:06	16.358	96.2	7.61	53527	8.05	132	0.03	0.09	1.25	13.395
Week 8	24-06-2024	10:13:07	16.356	96.3	7.61	53526	8.05	132	0.04	0.08	1.22	13.301
Week 8	24-06-2024	10:13:08	16.354	96.3	7.61	53524	8.05	132	0.04	0.08	1.22	13.237
Week 8	24-06-2024	10:13:09	16.353	96.3	7.61	53523	8.05	132	0.04	0.08	1.22	13.187
Week 8	24-06-2024	10:13:10	16.35	96.3	7.61	53520	8.05	132	0.04	0.09	1.24	12.138
Week 8	24-06-2024	10:13:11	16.348	96.3	7.61	53518	8.05	132	0.06	0.08	1.21	12.132
Week 8	24-06-2024	10:13:12	16.345	96.3	7.62	53517	8.05	132	0.06	0.08	1.22	12.269
Week 8	24-06-2024	10:13:13	16.343	96.4	7.62	53515	8.05	131.9	0.05	0.07	1.17	12.365
Week 8	24-06-2024	10:13:14	16.341	96.4	7.62	53513	8.05	131.9	0.05	0.07	1.16	12.322
Week 8	24-06-2024	10:13:15	16.337	96.4	7.62	53511	8.05	131.9	0.05	0.06	1.12	12.126
Week 8	24-06-2024	10:13:16	16.336	96.4	7.63	53510	8.05	131.9	0.05	0.05	1.1	11.986
Week 8	24-06-2024	10:13:17	16.333	96.5	7.63	53507	8.05	131.9	0.05	0.05	1.09	11.92
Week 8	24-06-2024	10:13:18	16.33	96.5	7.63	53505	8.05	131.9	0.05	0.05	1.1	11.872
Week 8	24-06-2024	10:13:19	16.327	96.5	7.63	53503	8.05	131.9	0.04	0.07	1.15	11.841
Week 8	24-06-2024	10:13:20	16.326	96.5	7.64	53502	8.05	131.8	0.04	0.05	1.11	11.815
Week 8	24-06-2024	10:13:21	16.324	96.6	7.64	53498	8.05	131.8	0.03	0.08	1.19	11.769
Week 8	24-06-2024	10:13:22	16.319	96.6	7.64	53496	8.05	131.8	0.02	0.08	1.21	10.911
Week 8	24-06-2024	10:13:23	16.31	96.6	7.64	53490	8.05	131.8	0.03	0.07	1.17	10.99
Week 8	24-06-2024	10:13:24	16.306	96.6	7.65	53487	8.05	131.8	0.02	0.07	1.18	11.334
Week 8	24-06-2024	10:13:25	16.299	96.6	7.65	53481	8.05	131.8	0.02	0.09	1.24	11.358
Week 8	24-06-2024	10:13:26	16.291	96.7	7.65	53476	8.05	131.7	0.01	0.1	1.27	11.178
Week 8	24-06-2024	10:13:27	16.279	96.7	7.65	53466	8.05	131.7	0.01	0.1	1.28	10.926
Week 8	24-06-2024	10:13:28	16.262	96.7	7.66	53457	8.06	131.7	0.01	0.1	1.27	10.794
Week 8	24-06-2024	10:13:29	16.247	96.7	7.66	53446	8.06	131.7	0.01	0.12	1.34	10.723
Week 8	24-06-2024	10:13:30	16.228	96.7	7.66	53433	8.06	131.7	0.01	0.1	1.28	10.651
Week 8	24-06-2024	10:13:31	16.209	96.7	7.66	53420	8.06	131.7	0.01	0.1	1.28	10.574
Week 8	24-06-2024	10:13:32	16.185	96.7	7.67	53408	8.06	131.6	0.01	0.09	1.24	10.528
Week 8	24-06-2024	10:13:33	16.164	96.7	7.67	53394	8.06	131.6	0.02	0.09	1.23	10.483
Week 8	24-06-2024	10:13:34	16.141	96.7	7.67	53383	8.06	131.6	0.02	0.09	1.24	10.437
Week 8	24-06-2024	10:13:35	16.112	96.7	7.68	53364	8.06	131.6	0.02	0.09	1.26	10.388
Week 8	24-06-2024	10:13:36	16.093	96.7	7.69	53354	8.06	131.6	0.02	0.1	1.28	10.339
Week 8	24-06-2024	10:13:37	16.084	96.8	7.69	53348	8.06	131.6	0.03	0.1	1.27	9.47
Week 8	24-06-2024	10:13:38	16.066	96.8	7.7	53339	8.06	131.6	0.03	0.11	1.32	9.415
Week 8	24-06-2024	10:13:39	16.049	96.8	7.7	53329	8.06	131.5	0.03	0.12	1.36	9.265
Week 8	24-06-2024	10:13:40	16.027	96.9	7.71	53319	8.06	131.5	0.03	0.11	1.33	9.241
Week 8	24-06-2024	10:13:41	16.022	96.9	7.72	53316	8.06	131.5	0.03	0.13	1.37	9.183
Week 8	24-06-2024	10:13:42	16.009	97	7.72	53312	8.06	131.5	0.02	0.13	1.38	9.134
Week 8	24-06-2024	10:13:43	15.998	97.1	7.73	53309	8.06	131.5	0.03	0.13	1.4	9.079
Week 8	24-06-2024	10:13:44	15.988	97.2	7.74	53303	8.06	131.5	0.04	0.14	1.43	9.039
Week 8	24-06-2024	10:13:45	15.982	97.2	7.75	53300	8.06	131.5	0.04	0.14	1.43	8.998
Week 8	24-06-2024	10:13:46	15.978	97.3	7.75	53298	8.07	131.4	0.04	0.16	1.5	8.925
Week 8	24-06-2024	10:13:47	15.97	97.3	7.76	53294	8.07	131.4	0.03	0.16	1.51	8.85
Week 8	24-06-2024	10:13:48	15.96	97.4	7.77	53289	8.07	131.4	0.04	0.18	1.55	8.794
Week 8	24-06-2024	10:13:49	15.955	97.5	7.77	53289	8.07	131.4	0.04	0.16	1.51	8.746
Week 8	24-06-2024	10:13:50	15.952	97.5	7.78	53287	8.07	131.4	0.05	0.17	1.54	8.692
Week 8	24-06-2024	10:13:51	15.948	97.6	7.78	53285	8.07	131.4	0.05	0.17	1.54	7.705
Week 8	24-06-2024	10:13:52	15.943	97.6	7.79	53283	8.07	131.4	0.04	0.16	1.51	7.674
Week 8	24-06-2024	10:13:53	15.941	97.7	7.79	53281	8.07	131.4	0.04	0.17	1.53	7.55
Week 8	24-06-2024	10:13:54	15.94	97.7	7.8	53280	8.07	131.4	0.05	0.17	1.51	7.612
Week 8	24-06-2024	10:13:55	15.938	97.8	7.8	53280	8.07	131.4	0.05	0.16	1.5	7.666
Week 8	24-06-2024	10:13:56	15.936	97.8	7.81	53279	8.07	131.4	0.06	0.16	1.5	7.634
Week 8	24-06-2024	10:13:57	15.935	97.9	7.81	53278	8.07	131.3	0.06	0.15	1.46	7.512

REFERENCE AREA 1: 8 WEEK SONDE DATA (log interval approx. 1m/sec).

Week 8	24-06-2024	10:13:58	15.934	97.9	7.81	53277	8.07	131.3	0.05	0.14	1.43	6.648
Week 8	24-06-2024	10:13:59	15.934	98	7.82	53277	8.07	131.3	0.05	0.13	1.39	6.655
Week 8	24-06-2024	10:14:00	15.934	98	7.82	53277	8.07	131.3	0.05	0.14	1.42	6.777
Week 8	24-06-2024	10:14:01	15.934	98	7.82	53277	8.07	131.3	0.06	0.12	1.37	6.891
Week 8	24-06-2024	10:14:02	15.934	98.1	7.83	53277	8.07	131.3	0.05	0.14	1.42	6.907
Week 8	24-06-2024	10:14:03	15.934	98.1	7.83	53277	8.07	131.3	0.04	0.15	1.45	6.798
Week 8	24-06-2024	10:14:04	15.934	98.2	7.83	53277	8.07	131.3	0.04	0.16	1.49	5.802
Week 8	24-06-2024	10:14:05	15.934	98.2	7.83	53277	8.07	131.3	0.03	0.16	1.51	5.694
Week 8	24-06-2024	10:14:06	15.933	98.2	7.84	53277	8.07	131.3	0.03	0.17	1.52	5.881
Week 8	24-06-2024	10:14:07	15.933	98.3	7.84	53277	8.07	131.3	0.03	0.17	1.52	5.994
Week 8	24-06-2024	10:14:08	15.934	98.3	7.84	53277	8.07	131.2	0.03	0.16	1.49	5.901
Week 8	24-06-2024	10:14:09	15.934	98.3	7.84	53277	8.07	131.2	0.03	0.17	1.55	5.709
Week 8	24-06-2024	10:14:10	15.934	98.3	7.85	53277	8.07	131.2	0.03	0.18	1.56	5.561
Week 8	24-06-2024	10:14:11	15.934	98.4	7.85	53276	8.07	131.2	0.03	0.16	1.51	5.458
Week 8	24-06-2024	10:14:12	15.934	98.4	7.85	53276	8.07	131.2	0.04	0.17	1.52	5.373
Week 8	24-06-2024	10:14:13	15.934	98.4	7.85	53275	8.07	131.2	0.04	0.15	1.46	5.294
Week 8	24-06-2024	10:14:14	15.934	98.4	7.85	53275	8.07	131.2	0.04	0.13	1.4	5.25
Week 8	24-06-2024	10:14:15	15.934	98.4	7.85	53275	8.07	131.2	0.04	0.13	1.39	5.206
Week 8	24-06-2024	10:14:16	15.934	98.5	7.86	53274	8.07	131.2	0.04	0.13	1.38	5.179
Week 8	24-06-2024	10:14:17	15.933	98.5	7.86	53274	8.07	131.2	0.04	0.12	1.36	5.142
Week 8	24-06-2024	10:14:18	15.933	98.5	7.86	53274	8.07	131.2	0.05	0.13	1.38	5.105
Week 8	24-06-2024	10:14:19	15.933	98.5	7.86	53273	8.07	131.2	0.05	0.14	1.44	4.102
Week 8	24-06-2024	10:14:20	15.933	98.5	7.86	53272	8.07	131.2	0.05	0.13	1.37	4.13
Week 8	24-06-2024	10:14:21	15.933	98.5	7.86	53272	8.07	131.2	0.05	0.12	1.37	4.134
Week 8	24-06-2024	10:14:22	15.933	98.6	7.86	53272	8.07	131.1	0.05	0.12	1.37	4.168
Week 8	24-06-2024	10:14:23	15.933	98.6	7.86	53272	8.07	131.1	0.05	0.12	1.33	4.187
Week 8	24-06-2024	10:14:24	15.933	98.6	7.87	53272	8.07	131.1	0.05	0.13	1.39	4.117
Week 8	24-06-2024	10:14:25	15.933	98.6	7.87	53272	8.07	131.1	0.06	0.13	1.4	4.009
Week 8	24-06-2024	10:14:26	15.933	98.6	7.87	53272	8.07	131.1	0.06	0.12	1.34	3.927
Week 8	24-06-2024	10:14:27	15.933	98.6	7.87	53272	8.07	131.1	0.06	0.12	1.36	3.844
Week 8	24-06-2024	10:14:28	15.933	98.6	7.87	53272	8.07	131.1	0.06	0.13	1.38	3.746
Week 8	24-06-2024	10:14:29	15.932	98.7	7.87	53272	8.07	131.1	0.06	0.13	1.37	3.697
Week 8	24-06-2024	10:14:30	15.932	98.7	7.87	53272	8.07	131.1	0.06	0.14	1.41	3.667
Week 8	24-06-2024	10:14:31	15.932	98.7	7.87	53272	8.07	131.1	0.06	0.13	1.4	3.623
Week 8	24-06-2024	10:14:32	15.932	98.7	7.87	53272	8.07	131.1	0.06	0.13	1.41	2.741
Week 8	24-06-2024	10:14:33	15.932	98.7	7.88	53272	8.07	131.1	0.06	0.13	1.4	2.591
Week 8	24-06-2024	10:14:34	15.932	98.7	7.88	53272	8.07	131	0.06	0.15	1.44	2.634
Week 8	24-06-2024	10:14:35	15.932	98.7	7.88	53272	8.07	131	0.06	0.14	1.41	2.62
Week 8	24-06-2024	10:14:36	15.932	98.8	7.88	53272	8.07	131	0.07	0.15	1.46	2.574
Week 8	24-06-2024	10:14:37	15.932	98.8	7.88	53272	8.07	131	0.06	0.15	1.47	2.521
Week 8	24-06-2024	10:14:38	15.932	98.8	7.88	53273	8.07	131	0.05	0.15	1.46	2.457
Week 8	24-06-2024	10:14:39	15.932	98.8	7.88	53273	8.07	131	0.05	0.15	1.44	2.385
Week 8	24-06-2024	10:14:40	15.932	98.8	7.88	53273	8.07	131	0.05	0.15	1.46	2.318
Week 8	24-06-2024	10:14:41	15.932	98.8	7.88	53273	8.07	131	0.04	0.14	1.42	2.256
Week 8	24-06-2024	10:14:42	15.932	98.8	7.88	53273	8.07	131	0.04	0.15	1.47	2.203
Week 8	24-06-2024	10:14:43	15.933	98.8	7.89	53273	8.07	131	0.04	0.16	1.48	2.142
Week 8	24-06-2024	10:14:44	15.933	98.8	7.89	53273	8.07	130.9	0.04	0.18	1.56	2.081
Week 8	24-06-2024	10:14:45	15.933	98.8	7.89	53273	8.07	130.9	0.04	0.19	1.59	2.025
Week 8	24-06-2024	10:14:46	15.933	98.9	7.89	53273	8.07	130.9	0.04	0.18	1.56	1.982
Week 8	24-06-2024	10:14:47	15.934	98.9	7.89	53272	8.07	130.9	0.04	0.18	1.55	1.941
Week 8	24-06-2024	10:14:48	15.934	98.9	7.89	53272	8.07	130.9	0.04	0.2	1.62	1.12
Week 8	24-06-2024	10:14:49	15.934	98.9	7.89	53272	8.07	130.9	0.03	0.19	1.61	0.937
Week 8	24-06-2024	10:14:50	15.934	98.9	7.89	53272	8.07	130.9	0.04	0.17	1.54	0.919
Week 8	24-06-2024	10:14:51	15.934	98.9	7.89	53271	8.07	130.9	0.04	0.16	1.51	0.826
Week 8	24-06-2024	10:14:52	15.934	98.9	7.89	53271	8.07	130.9	0.05	0.16	1.51	0.79
Week 8	24-06-2024	10:14:53	15.934	98.9	7.89	53270	8.07	130.9	0.05	0.16	1.49	0.733
Week 8	24-06-2024	10:14:54	15.934	98.9	7.89	53270	8.07	130.9	0.05	0.16	1.49	0.604
Week 8	24-06-2024	10:14:55	15.934	98.9	7.89	53269	8.07	130.9	0.05	0.15	1.45	0.513
Week 8	24-06-2024	10:14:56	15.934	98.9	7.89	53269	8.07	130.9	0.13	0.15	1.46	0.433

Appendix F Discrete water quality results and laboratory certificates

Te Ākau Bream Bay Sand Extraction

Water Quality Assessment of Environmental Effects

McCallum Group

SLR Project No.: 820.030379.00001

17 December 2025

APPLICATION AREA 2: 8 week discrete water quality laboratory results summary.

Parameter	Depth	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
		06-May-24	13-May-24	22-May-24	27-May-24	04-Jun-24	12-Jun-24	17-Jun-24	24-Jun-24
Turbidity (NTU)	S	< 0.05	< 0.05	0.07	< 0.05	< 0.05	< 0.05	< 0.05	0.09
	M	0.05	< 0.05	0.1	< 0.05	0.06	< 0.05	0.05	< 0.05
	B	< 0.05	< 0.05	0.06	0.09	0.07	< 0.05	< 0.05	< 0.05
pH	S	8.2	8.2	8.2	8.1	8.1	8.1	8.1	8.2
	M	8.2	8.2	8.2	8.1	8.1	8.1	8.1	8.1
	B	8.2	8.2	8.2	8.1	8.1	8.1	8.1	8.1
Electrical Conductivity (EC) mS/m	S	5320	5360	5310	5330	5330	5340	5310	5320
	M	5320	5350	5310	5340	5320	5350	5330	5350
	B	5330	5350	5320	5320	5310	5400	5330	5340
Salinity	S	36	36	36	36	36	36	36	36
	M	36	36	36	36	36	36	36	36
	B	36	36	36	36	36	36	36	36
Total Suspended Solids (g/m3)	S	4	3	< 3	< 3	< 3	< 3	< 3	< 3
	M	4	< 3	< 3	< 3	< 3	< 3	< 3	6
	B	< 3	< 3	< 3	< 3	< 3	5	< 3	6
Total Nitrogen (g/m3)	S	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
	M	< 0.3	< 0.3	< 0.3	0.3	0.2	< 0.3	< 0.3	< 0.3
	B	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Total Ammoniacal-N (g/m3)	S	0.019	0.01	0.013	0.008	0.013	0.01	0.009	0.013
	M	0.023	0.013	0.013	0.009	0.014	0.01	0.009	0.013
	B	0.016	0.01	0.013	0.009	0.016	0.01	0.008	0.013
Nitrate-N + Nitrite-N (g/m3)	S	< 0.0010	< 0.0010	0.0131	0.031	0.034	0.038	0.057	0.0172
	M	< 0.0010	< 0.0010	0.0131	0.031	0.033	0.039	0.059	0.0181
	B	< 0.0010	< 0.0010	0.0136	0.031	0.034	0.038	0.059	0.036
Total Kjeldahl Nitrogen (TKN) (g/m3)	S	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	M	< 0.2	< 0.2	< 0.2	0.2	< 0.2	< 0.2	< 0.2	< 0.2
	B	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dissolved Reactive Phosphorus	S	0.0065	0.0036	0.0049	0.0081	0.0082 #1	0.0089 #1	0.0114	0.0071
	M	0.0075	0.0041	0.0048	0.0081 #1	0.0083 #1	0.0087	0.0117	0.0074
	B	0.0051	0.0037	0.0051	0.0081 #1	0.0081 #1	0.0085 #1	0.0116	0.0098
Total Phosphorus (g/m3)	S	0.014	0.006	0.007	0.008	0.007 #1	0.008 #1	0.013	0.008
	M	0.016	0.005	0.007	0.008 #1	0.007 #1	0.009	0.013	0.008
	B	0.01	0.006	0.007	0.008 #1	0.007 #1	0.008 #1	0.014	0.011
Chlorophyll a (g/m3)	S	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	M	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	B	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003

REFERENCE AREA 1: 8 week discrete water quality laboratory results summary.

Parameter	Depth	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
		06-May-24	13-May-24	22-May-24	27-May-24	04-Jun-24	12-Jun-24	17-Jun-24	24-Jun-24
Turbidity (NTU)	S	0.72	< 0.05	0.07	0.09	0.43	0.17	< 0.05	0.1
	M	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.23	0.16	0.06
	B	< 0.05	< 0.05	0.17	< 0.05	< 0.05	0.13	< 0.05	0.07
pH	S	8.2	8.2	8.2	8.1	8.1	8.1	8.1	8.2
	M	8.2	8.2	8.2	8.1	8.1	8.1	8.1	8.2
	B	8.2	8.2	8.2	8.2	8.1	8.1	8.1	8.2
Electrical Conductivity (EC) mS/m	S	5340	5350	5270	5330	5340	5350	5320	5320
	M	5300	5340	5280	5330	5400	5340	5310	5310
	B	5290	5320	5300	5340	5350	5340	5310	5290
Salinity	S	35	36	36	36	36	36	35	36
	M	36	36	36	36	36	36	35	36
	B	36	36	36	36	36	36	36	36
Total Suspended Solids (g/m3)	S	< 3	< 3	< 3	< 3	< 3	3	< 3	< 3
	M	< 3	< 3	7	< 3	< 3	3	< 3	< 3
	B	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Total Nitrogen (g/m3)	S	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
	M	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
	B	< 0.3	< 0.3	< 0.3	< 0.3	0.2	< 0.3	< 0.3	< 0.3
Total Ammoniacal-N (g/m3)	S	0.015	0.011	0.021	0.009	0.009	0.008	0.009	0.012
	M	0.014	0.011	0.014	0.009	0.013	0.008	0.008	0.014
	B	0.013	0.012	0.012	0.01	0.011	0.008	0.008	0.012
Nitrate-N + Nitrite-N (g/m3)	S	< 0.0010	0.003	0.012	0.029	0.041	< 0.0010	0.054	0.0057
	M	< 0.0010	0.0025	0.0127	0.028	0.042	< 0.0010	0.057	0.0084
	B	0.0021	0.0013	0.0125	0.0175	0.041	0.0085	0.058	0.0065
Total Kjeldahl Nitrogen (TKN) (g/m3)	S	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	M	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	B	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dissolved Reactive Phosphorus	S	0.0034	0.0043	0.005	0.0078	0.0089 #1	0.0014	0.011	0.0053
	M	0.0049	0.0042	0.0048	0.0073	0.0089 #1	0.0015	0.0114	0.0056
	B	0.0047	0.0044	0.0051	0.0065	0.0090 #1	0.0034	0.0111	0.0056
Total Phosphorus (g/m3)	S	0.006	0.005	0.007	0.011	0.007 #1	0.006	0.013	0.006
	M	0.007	0.005	0.007	0.008	0.007 #1	0.006	0.013	0.007
	B	0.006	0.005	0.007	0.007	0.007 #1	0.007	0.013	0.006
Chlorophyll a (g/m3)	S	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	M	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.004	< 0.003	< 0.003
	B	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003

R J Hill Laboratories Limited
[redacted]
www.hill-labs.co.nz

Certificate of Analysis

Client:	SLR Holdings NZ Limited	**Lab No:**	3573489	SUPv1
Contact:	Claire Conwell [redacted]	**Date Received:**	08-May-2024	
		Date Reported:	13-May-2024	
		Quote No:	130421	
		Order No:		
		Client Reference:	820.030379.00001	
		Submitted By:	Pamela Kane-Sanderson	

Sample Type: Saline

Sample Name:		R1-Surface (S) 06-May-2024 11:08 am	R1-Mid (M) 06-May-2024 11:13 am	R1-Bottom (B) 06-May-2024 11:20 am	A2-Surface (S) 06-May-2024 12:32 pm
Lab Number:		3573489.1	3573489.2	3573489.3	3573489.4
Turbidity	NTU	0.723 ± 0.080	< 0.05 ± 0.034	< 0.05 ± 0.034	< 0.05 ± 0.034
pH	pH Units	8.2 ± 0.2	8.2 ± 0.2	8.2 ± 0.2	8.2 ± 0.2
Electrical Conductivity (EC)	mS/m	5,340 ± 110	5,300 ± 110	5,290 ± 110	5,320 ± 110
Salinity*		35.40 ± 0.45	35.70 ± 0.46	35.60 ± 0.45	35.70 ± 0.46
Total Suspended Solids	g/m³	< 3 ± 2.1	< 3 ± 2.1	< 3 ± 2.1	4.4 ± 2.1
Total Nitrogen*	g/m³	< 0.3 ± 0.064	< 0.3 ± 0.064	< 0.3 ± 0.064	< 0.3 ± 0.064
Total Ammoniacal-N	g/m³	0.0146 ± 0.0041	0.0141 ± 0.0041	0.0129 ± 0.0039	0.0194 ± 0.0046
Nitrate-N + Nitrite-N	g/m³	< 0.0010 ± 0.00067	< 0.0010 ± 0.00067	0.00208 ± 0.00071	< 0.0010 ± 0.00067
Total Kjeldahl Nitrogen (TKN)*	g/m³	< 0.2 ± 0.064	< 0.2 ± 0.064	< 0.2 ± 0.064	< 0.2 ± 0.064
Dissolved Reactive Phosphorus	g/m³	0.00342 ± 0.00073	0.00489 ± 0.00078	0.00468 ± 0.00078	0.00649 ± 0.00086
Total Phosphorus	g/m³	0.0061 ± 0.0017	0.0067 ± 0.0017	0.0064 ± 0.0017	0.0137 ± 0.0018
Chlorophyll a	g/m³	< 0.003 ± 0.0021	< 0.003 ± 0.0021	< 0.003 ± 0.0021	< 0.003 ± 0.0021

Sample Name:		A2-Mid (M) 06-May-2024 12:36 pm	A2-Bottom (B) 06-May-2024 12:40 pm
Lab Number:		3573489.5	3573489.6
Turbidity	NTU	0.054 ± 0.034	< 0.05 ± 0.034
pH	pH Units	8.2 ± 0.2	8.2 ± 0.2
Electrical Conductivity (EC)	mS/m	5,320 ± 110	5,330 ± 110
Salinity*		35.60 ± 0.45	35.60 ± 0.45
Total Suspended Solids	g/m³	4.4 ± 2.1	< 3 ± 2.1
Total Nitrogen*	g/m³	< 0.3 ± 0.064	< 0.3 ± 0.064
Total Ammoniacal-N	g/m³	0.0234 ± 0.0051	0.0161 ± 0.0043
Nitrate-N + Nitrite-N	g/m³	< 0.0010 ± 0.00067	< 0.0010 ± 0.00067
Total Kjeldahl Nitrogen (TKN)*	g/m³	< 0.2 ± 0.064	< 0.2 ± 0.064
Dissolved Reactive Phosphorus	g/m³	0.00750 ± 0.00092	0.00513 ± 0.00080
Total Phosphorus	g/m³	0.0160 ± 0.0018	0.0104 ± 0.0017
Chlorophyll a	g/m³	< 0.003 ± 0.0021	< 0.003 ± 0.0021

The reported uncertainty is an expanded uncertainty with a level of confidence of approximately 95 percent (i.e. two standard deviations, calculated using a coverage factor of 2). Reported uncertainties are calculated from the performance of typical matrices, and do not include variation due to sampling.

For further information on uncertainty of measurement at Hill Laboratories, refer to the technical note on our website: www.hill-laboratories.com/files/Intro_To_UOM.pdf, or contact the laboratory.

This Laboratory is accredited by International Accreditation New Zealand (IANZ), which represents New Zealand in the International Laboratory Accreditation Cooperation (ILAC). Through the ILAC Mutual Recognition Arrangement (ILAC-MRA) this accreditation is internationally recognised.
The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked * or any comments and interpretations, which are not accredited.

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Filtration, Unpreserved*	Sample filtration through 0.45µm membrane filter.	-	1-6
Turbidity	Analysis by Turbidity meter. APHA 2130 B (modified) : Online Edition.	0.05 NTU	1-6
pH	Saline water, pH meter. APHA 4500-H^+ B (modified) : Online Edition. Note: It is not possible to achieve the APHA Maximum Storage Recommendation for this test (15 min) when samples are analysed upon receipt at the laboratory, and not in the field. Samples and Standards are analysed at an equivalent laboratory temperature (typically 18 to 22 °C). Temperature compensation is used.	0.1 pH Units	1-6
Electrical Conductivity (EC)	Saline water, Conductivity meter, 25°C. APHA 2510 B : Online Edition.	0.10 mS/m	1-6
Salinity*	Conductivity Meter (WTW Cond 340i with nonlinear temperature compensation according to EN 27 888). APHA 2520 B : Online Edition.	0.2	1-6
Total Suspended Solids	Saline sample. Filtration using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) : Online Edition.	3 g/m^3	1-6
Total Nitrogen*	Calculation: TKN + Nitrate-N + Nitrite-N. Please note: The Default Detection Limit of 0.05 g/m^3 is only attainable when the TKN has been determined using a trace method utilising duplicate analyses. In cases where the Detection Limit for TKN is 0.10 g/m^3, the Default Detection Limit for Total Nitrogen will be 0.11 g/m^3. In-house calculation.	0.05 g/m^3	1-6
Total Ammoniacal-N	Saline sample. Phenol/hypochlorite colorimetry. Flow injection analyser. (NH_4-N = NH_4^+-N + NH_3-N). APHA 4500-NH_3 H : Online Edition.	0.005 g/m^3	1-6
Nitrate-N + Nitrite-N	Saline sample. Total oxidised nitrogen. Automated cadmium reduction, Flow injection analyser. APHA 4500-NO_3^- I (modified) : Online Edition.	0.0010 g/m^3	1-6
Total Kjeldahl Nitrogen (TKN)*	Total Kjeldahl digestion, phenol/hypochlorite colorimetry. Discrete Analyser. APHA 4500-N_{org} D (modified) 4500 NH_3 F (modified) : Online Edition.	0.10 g/m^3	1-6
Dissolved Reactive Phosphorus	Saline sample. Molybdenum blue colorimetry. Flow injection analyser. APHA 4500-P G : Online Edition.	0.0010 g/m^3	1-6
Total Phosphorus	Total phosphorus digestion, ascorbic acid colorimetry. Flow Injection Analyser. APHA 4500-P H (modified) : Online Edition.	0.004 g/m^3	1-6
Chlorophyll a	Acetone extraction. Spectroscopy. APHA 10200 H (modified) : Online Edition.	0.003 g/m^3	1-6

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed between 09-May-2024 and 13-May-2024. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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Ara Heron BSc (Tech)
Client Services Manager - Environmental

R J Hill Laboratories Limited
[redacted]
[redacted]
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Certificate of Analysis

Client:	SLR Holdings NZ Limited	**Lab No:**	3579775 SUPv1
Contact:	Claire Conwell [redacted]	**Date Received:**	14-May-2024
		Date Reported:	20-May-2024
		Quote No:	130421
		Order No:	
		Client Reference:	820.030379.00001
		Submitted By:	Pamela Kane-Sanderson

Sample Type: Saline

		Sample Name:	R1 - Surface (S) 13-May-2024 9:50 am	R1 - Mid (M) 13-May-2024 9:58 am	R1 - Bottom (B) 13-May-2024 10:10 am	A2 - Surface (S) 13-May-2024 10:48 am
		Lab Number:	3579775.1	3579775.2	3579775.3	3579775.4
Turbidity	NTU		< 0.05 ± 0.034	< 0.05 ± 0.034	< 0.05 ± 0.034	< 0.05 ± 0.034
pH	pH Units		8.2 ± 0.2	8.2 ± 0.2	8.2 ± 0.2	8.2 ± 0.2
Electrical Conductivity (EC)	mS/m		5,350 ± 110	5,340 ± 110	5,320 ± 110	5,360 ± 110
Salinity*			35.70 ± 0.46	35.70 ± 0.46	35.80 ± 0.46	35.90 ± 0.46
Total Suspended Solids	g/m³		< 3 ± 2.1	< 3 ± 2.1	< 3 ± 2.1	3.5 ± 2.1
Total Nitrogen*	g/m³		< 0.3 ± 0.064	< 0.3 ± 0.064	< 0.3 ± 0.064	< 0.3 ± 0.064
Total Ammoniacal-N	g/m³		0.0113 ± 0.0038	0.0113 ± 0.0038	0.0115 ± 0.0038	0.0100 ± 0.0037
Nitrate-N + Nitrite-N	g/m³		0.00298 ± 0.00077	0.00247 ± 0.00074	0.00130 ± 0.00068	< 0.0010 ± 0.00067
Total Kjeldahl Nitrogen (TKN)*	g/m³		< 0.2 ± 0.064	< 0.2 ± 0.064	< 0.2 ± 0.064	< 0.2 ± 0.064
Dissolved Reactive Phosphorus	g/m³		0.00427 ± 0.00076	0.00419 ± 0.00075	0.00437 ± 0.00076	0.00361 ± 0.00073
Total Phosphorus	g/m³		0.0050 ± 0.0017	0.0051 ± 0.0017	0.0046 ± 0.0017	0.0061 ± 0.0017
Chlorophyll a	g/m³		< 0.003 ± 0.0021	< 0.003 ± 0.0021	< 0.003 ± 0.0021	< 0.003 ± 0.0021

		Sample Name:	A2 - Mid (M) 13-May-2024 10:55 am	A2 - Bottom (B) 13-May-2024 11:02 am
		Lab Number:	3579775.5	3579775.6
Turbidity	NTU		< 0.05 ± 0.034	< 0.05 ± 0.034
pH	pH Units		8.2 ± 0.2	8.2 ± 0.2
Electrical Conductivity (EC)	mS/m		5,350 ± 110	5,350 ± 110
Salinity*			35.90 ± 0.46	35.70 ± 0.46
Total Suspended Solids	g/m³		< 3 ± 2.1	< 3 ± 2.1
Total Nitrogen*	g/m³		< 0.3 ± 0.064	< 0.3 ± 0.064
Total Ammoniacal-N	g/m³		0.0130 ± 0.0039	0.0104 ± 0.0037
Nitrate-N + Nitrite-N	g/m³		< 0.0010 ± 0.00067	< 0.0010 ± 0.00067
Total Kjeldahl Nitrogen (TKN)*	g/m³		< 0.2 ± 0.064	< 0.2 ± 0.064
Dissolved Reactive Phosphorus	g/m³		0.00410 ± 0.00075	0.00371 ± 0.00074
Total Phosphorus	g/m³		0.0049 ± 0.0017	0.0064 ± 0.0017
Chlorophyll a	g/m³		< 0.003 ± 0.0021	< 0.003 ± 0.0021

The reported uncertainty is an expanded uncertainty with a level of confidence of approximately 95 percent (i.e. two standard deviations, calculated using a coverage factor of 2). Reported uncertainties are calculated from the performance of typical matrices, and do not include variation due to sampling.

For further information on uncertainty of measurement at Hill Laboratories, refer to the technical note on our website: www.hill-laboratories.com/files/Intro_To_UOM.pdf, or contact the laboratory.

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The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked * or any comments and interpretations, which are not accredited.

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Filtration, Unpreserved*	Sample filtration through 0.45µm membrane filter.	-	1-6
Turbidity	Analysis by Turbidity meter. APHA 2130 B (modified) : Online Edition.	0.05 NTU	1-6
pH	Saline water, pH meter. APHA 4500-H^+ B (modified) : Online Edition. Note: It is not possible to achieve the APHA Maximum Storage Recommendation for this test (15 min) when samples are analysed upon receipt at the laboratory, and not in the field. Samples and Standards are analysed at an equivalent laboratory temperature (typically 18 to 22 °C). Temperature compensation is used.	0.1 pH Units	1-6
Electrical Conductivity (EC)	Saline water, Conductivity meter, 25°C. APHA 2510 B : Online Edition.	0.10 mS/m	1-6
Salinity*	Conductivity Meter (WTW Cond 340i with nonlinear temperature compensation according to EN 27 888). APHA 2520 B : Online Edition.	0.2	1-6
Total Suspended Solids	Saline sample. Filtration using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) : Online Edition.	3 g/m^3	1-6
Total Nitrogen*	Calculation: TKN + Nitrate-N + Nitrite-N. Please note: The Default Detection Limit of 0.05 g/m^3 is only attainable when the TKN has been determined using a trace method utilising duplicate analyses. In cases where the Detection Limit for TKN is 0.10 g/m^3, the Default Detection Limit for Total Nitrogen will be 0.11 g/m^3. In-house calculation.	0.05 g/m^3	1-6
Total Ammoniacal-N	Saline sample. Phenol/hypochlorite colorimetry. Flow injection analyser. (NH_4-N = NH_4^+-N + NH_3-N). APHA 4500-NH_3 H : Online Edition.	0.005 g/m^3	1-6
Nitrate-N + Nitrite-N	Saline sample. Total oxidised nitrogen. Automated cadmium reduction, Flow injection analyser. APHA 4500-NO_3^- I (modified) : Online Edition.	0.0010 g/m^3	1-6
Total Kjeldahl Nitrogen (TKN)*	Total Kjeldahl digestion, phenol/hypochlorite colorimetry. Discrete Analyser. APHA 4500-N_{org} D (modified) 4500 NH_3 F (modified) : Online Edition.	0.10 g/m^3	1-6
Dissolved Reactive Phosphorus	Saline sample. Molybdenum blue colorimetry. Flow injection analyser. APHA 4500-P G : Online Edition.	0.0010 g/m^3	1-6
Total Phosphorus	Total phosphorus digestion, ascorbic acid colorimetry. Flow Injection Analyser. APHA 4500-P H (modified) : Online Edition.	0.004 g/m^3	1-6
Chlorophyll a	Acetone extraction. Spectroscopy. APHA 10200 H (modified) : Online Edition.	0.003 g/m^3	1-6

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed between 14-May-2024 and 20-May-2024. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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Ara Heron BSc (Tech)
Client Services Manager - Environmental

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Certificate of Analysis

Client:	SLR Holdings NZ Limited	**Lab No:**	3589092 SUPv1
Contact:	Claire Conwell [redacted]	**Date Received:**	23-May-2024
		Date Reported:	30-May-2024
		Quote No:	130421
		Order No:	
		Client Reference:	820.030379.00001
		Submitted By:	Pamela Kane-Sanderson

Sample Type: Saline

Sample Name:		R1 - Surface (S) 22-May-2024 10:15 am	R1 - Mid (M) 22-May-2024 10:19 am	R1 - Bottom (B) 22-May-2024 10:23 am	A2 - Surface (S) 22-May-2024 11:15 am
Lab Number:		3589092.1	3589092.2	3589092.3	3589092.4
Turbidity	NTU	0.067 ± 0.034	< 0.05 ± 0.034	0.174 ± 0.038	0.074 ± 0.034
pH	pH Units	8.2 ± 0.2	8.2 ± 0.2	8.2 ± 0.2	8.2 ± 0.2
Electrical Conductivity (EC)	mS/m	5,270 ± 110	5,280 ± 110	5,300 ± 110	5,310 ± 110
Salinity*		35.80 ± 0.46	35.70 ± 0.46	35.80 ± 0.46	35.90 ± 0.46
Total Suspended Solids	g/m³	< 3 ± 2.1	6.7 ± 2.2	< 3 ± 2.1	< 3 ± 2.1
Total Nitrogen*	g/m³	< 0.3 ± 0.064	< 0.3 ± 0.064	< 0.3 ± 0.064	< 0.3 ± 0.064
Total Ammoniacal-N	g/m³	0.0211 ± 0.0048	0.0138 ± 0.0040	0.0123 ± 0.0039	0.0134 ± 0.0040
Nitrate-N + Nitrite-N	g/m³	0.0120 ± 0.0018	0.0127 ± 0.0019	0.0125 ± 0.0018	0.0131 ± 0.0019
Total Kjeldahl Nitrogen (TKN)*	g/m³	< 0.2 ± 0.064	< 0.2 ± 0.064	< 0.2 ± 0.064	< 0.2 ± 0.064
Dissolved Reactive Phosphorus	g/m³	0.00499 ± 0.00079	0.00477 ± 0.00078	0.00512 ± 0.00079	0.00487 ± 0.00078
Total Phosphorus	g/m³	0.0068 ± 0.0017	0.0068 ± 0.0017	0.0068 ± 0.0017	0.0073 ± 0.0017
Chlorophyll a	g/m³	< 0.003 ± 0.0021	< 0.003 ± 0.0021	< 0.003 ± 0.0021	< 0.003 ± 0.0021

Sample Name:		A2 - Mid (M) 22-May-2024 11:18 am	A2 - Bottom (B) 22-May-2024 11:24 am
Lab Number:		3589092.5	3589092.6
Turbidity	NTU	0.104 ± 0.035	0.056 ± 0.034
pH	pH Units	8.2 ± 0.2	8.2 ± 0.2
Electrical Conductivity (EC)	mS/m	5,310 ± 110	5,320 ± 110
Salinity*		36.00 ± 0.46	36.00 ± 0.46
Total Suspended Solids	g/m³	< 3 ± 2.1	< 3 ± 2.1
Total Nitrogen*	g/m³	< 0.3 ± 0.064	< 0.3 ± 0.064
Total Ammoniacal-N	g/m³	0.0128 ± 0.0039	0.0126 ± 0.0039
Nitrate-N + Nitrite-N	g/m³	0.0131 ± 0.0019	0.0136 ± 0.0020
Total Kjeldahl Nitrogen (TKN)*	g/m³	< 0.2 ± 0.064	< 0.2 ± 0.064
Dissolved Reactive Phosphorus	g/m³	0.00479 ± 0.00078	0.00507 ± 0.00079
Total Phosphorus	g/m³	0.0070 ± 0.0017	0.0070 ± 0.0017
Chlorophyll a	g/m³	< 0.003 ± 0.0021	< 0.003 ± 0.0021

The reported uncertainty is an expanded uncertainty with a level of confidence of approximately 95 percent (i.e. two standard deviations, calculated using a coverage factor of 2). Reported uncertainties are calculated from the performance of typical matrices, and do not include variation due to sampling.

For further information on uncertainty of measurement at Hill Laboratories, refer to the technical note on our website: www.hill-laboratories.com/files/Intro_To_UOM.pdf, or contact the laboratory.

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Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Filtration, Unpreserved*	Sample filtration through 0.45µm membrane filter.	-	1-6
Turbidity	Analysis by Turbidity meter. APHA 2130 B (modified) : Online Edition.	0.05 NTU	1-6
pH	Saline water, pH meter. APHA 4500-H^+ B (modified) : Online Edition. Note: It is not possible to achieve the APHA Maximum Storage Recommendation for this test (15 min) when samples are analysed upon receipt at the laboratory, and not in the field. Samples and Standards are analysed at an equivalent laboratory temperature (typically 18 to 22 °C). Temperature compensation is used.	0.1 pH Units	1-6
Electrical Conductivity (EC)	Saline water, Conductivity meter, 25°C. APHA 2510 B : Online Edition.	0.10 mS/m	1-6
Salinity*	Conductivity Meter (WTW Cond 340i with nonlinear temperature compensation according to EN 27 888). APHA 2520 B : Online Edition.	0.2	1-6
Total Suspended Solids	Saline sample. Filtration using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) : Online Edition.	3 g/m^3	1-6
Total Nitrogen*	Calculation: TKN + Nitrate-N + Nitrite-N. Please note: The Default Detection Limit of 0.05 g/m^3 is only attainable when the TKN has been determined using a trace method utilising duplicate analyses. In cases where the Detection Limit for TKN is 0.10 g/m^3, the Default Detection Limit for Total Nitrogen will be 0.11 g/m^3. In-house calculation.	0.05 g/m^3	1-6
Total Ammoniacal-N	Saline sample. Phenol/hypochlorite colorimetry. Flow injection analyser. (NH_4-N = NH_4^+-N + NH_3-N). APHA 4500-NH_3 H : Online Edition.	0.005 g/m^3	1-6
Nitrate-N + Nitrite-N	Saline sample. Total oxidised nitrogen. Automated cadmium reduction, Flow injection analyser. APHA 4500-NO_3^- I (modified) : Online Edition.	0.0010 g/m^3	1-6
Total Kjeldahl Nitrogen (TKN)*	Total Kjeldahl digestion, phenol/hypochlorite colorimetry. Discrete Analyser. APHA 4500-N_{org} D (modified) 4500 NH_3 F (modified) : Online Edition.	0.10 g/m^3	1-6
Dissolved Reactive Phosphorus	Saline sample. Molybdenum blue colorimetry. Flow injection analyser. APHA 4500-P G : Online Edition.	0.0010 g/m^3	1-6
Total Phosphorus	Total phosphorus digestion, ascorbic acid colorimetry. Flow Injection Analyser. APHA 4500-P H (modified) : Online Edition.	0.004 g/m^3	1-6
Chlorophyll a	Acetone extraction. Spectroscopy. APHA 10150 B (modified) : Online Edition.	0.003 g/m^3	1-6

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed between 24-May-2024 and 30-May-2024. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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Ara Heron BSc (Tech)
Client Services Manager - Environmental

R J Hill Laboratories Limited
[redacted]
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Certificate of Analysis

Client:	SLR Holdings NZ Limited	**Lab No:**	3592988	SUPv1
Contact:	Claire Conwell [redacted]	**Date Received:**	28-May-2024	
		Date Reported:	05-Jun-2024	
		Quote No:	130421	
		Order No:		
		Client Reference:	820.030379.00001	
		Submitted By:	Pamela Kane-Sanderson	

Sample Type: Saline

Sample Name:		R1 - Surface (S) 27-May-2024 10:06 am	R1 - Mid (M) 27-May-2024 10:11 am	R1 - Bottom (B) 27-May-2024 10:17 am	A2 - Surface (S) 27-May-2024 11:21 am
Lab Number:		3592988.1	3592988.2	3592988.3	3592988.4
Turbidity	NTU	0.088 ± 0.035	< 0.05 ± 0.034	< 0.05 ± 0.034	< 0.05 ± 0.034
pH	pH Units	8.1 ± 0.2	8.1 ± 0.2	8.2 ± 0.2	8.1 ± 0.2
Electrical Conductivity (EC)	mS/m	5,330 ± 110	5,330 ± 110	5,340 ± 110	5,330 ± 110
Salinity*		35.70 ± 0.46	35.70 ± 0.46	35.60 ± 0.45	35.70 ± 0.46
Total Suspended Solids	g/m³	< 3 ± 2.1	< 3 ± 2.1	< 3 ± 2.1	< 3 ± 2.1
Total Nitrogen*	g/m³	< 0.3 ± 0.064	< 0.3 ± 0.064	< 0.3 ± 0.064	< 0.3 ± 0.064
Total Ammoniacal-N	g/m³	0.0086 ± 0.0036	0.0087 ± 0.0036	0.0097 ± 0.0037	0.0085 ± 0.0036
Nitrate-N + Nitrite-N	g/m³	0.0295 ± 0.0040	0.0278 ± 0.0038	0.0175 ± 0.0025	0.0311 ± 0.0042
Total Kjeldahl Nitrogen (TKN)*	g/m³	< 0.2 ± 0.064	< 0.2 ± 0.064	< 0.2 ± 0.064	< 0.2 ± 0.064
Dissolved Reactive Phosphorus	g/m³	0.00784 ± 0.00094	0.00735 ± 0.00091	0.00645 ± 0.00086	0.00809 ± 0.00095
Total Phosphorus	g/m³	0.0105 ± 0.0017	0.0080 ± 0.0017	0.0069 ± 0.0017	0.0081 ± 0.0017
Chlorophyll a	g/m³	< 0.003 ± 0.0021	< 0.003 ± 0.0021	< 0.003 ± 0.0021	< 0.003 ± 0.0021

Sample Name:		A2 - Mid (M) 27-May-2024 11:26 am	A2 - Bottom (B) 27-May-2024 11:32 am
Lab Number:		3592988.5	3592988.6
Turbidity	NTU	< 0.05 ± 0.034	0.087 ± 0.035
pH	pH Units	8.1 ± 0.2	8.1 ± 0.2
Electrical Conductivity (EC)	mS/m	5,340 ± 110	5,320 ± 110
Salinity*		35.60 ± 0.45	35.70 ± 0.46
Total Suspended Solids	g/m³	< 3 ± 2.1	< 3 ± 2.1
Total Nitrogen*	g/m³	0.279 ± 0.066	< 0.3 ± 0.064
Total Ammoniacal-N	g/m³	0.0091 ± 0.0036	0.0092 ± 0.0036
Nitrate-N + Nitrite-N	g/m³	0.0313 ± 0.0043	0.0307 ± 0.0042
Total Kjeldahl Nitrogen (TKN)*	g/m³	0.247 ± 0.065	< 0.2 ± 0.064
Dissolved Reactive Phosphorus	g/m³	0.00814 ± 0.00096 #1	0.00812 ± 0.00096 #1
Total Phosphorus	g/m³	0.0080 ± 0.0017 #1	0.0081 ± 0.0017 #1
Chlorophyll a	g/m³	< 0.003 ± 0.0021	< 0.003 ± 0.0021

The reported uncertainty is an expanded uncertainty with a level of confidence of approximately 95 percent (i.e. two standard deviations, calculated using a coverage factor of 2). Reported uncertainties are calculated from the performance of typical matrices, and do not include variation due to sampling.

For further information on uncertainty of measurement at Hill Laboratories, refer to the technical note on our website: www.hill-laboratories.com/files/Intro_To_UOM.pdf, or contact the laboratory.

Analyst's Comments

#1 It has been noted that the result for Dissolved Reactive Phosphorus was greater than that for Total Phosphorus, but within the analytical variation of these methods.

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Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Filtration, Unpreserved*	Sample filtration through 0.45µm membrane filter.	-	1-6
Turbidity	Analysis by Turbidity meter. APHA 2130 B (modified) : Online Edition.	0.05 NTU	1-6
pH	Saline water, pH meter. APHA 4500-H^+ B (modified) : Online Edition. Note: It is not possible to achieve the APHA Maximum Storage Recommendation for this test (15 min) when samples are analysed upon receipt at the laboratory, and not in the field. Samples and Standards are analysed at an equivalent laboratory temperature (typically 18 to 22 °C). Temperature compensation is used.	0.1 pH Units	1-6
Electrical Conductivity (EC)	Saline water, Conductivity meter, 25°C. APHA 2510 B : Online Edition.	0.10 mS/m	1-6
Salinity*	Conductivity Meter (WTW Cond 340i with nonlinear temperature compensation according to EN 27 888). APHA 2520 B : Online Edition.	0.2	1-6
Total Suspended Solids	Saline sample. Filtration using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) : Online Edition.	3 g/m^3	1-6
Total Nitrogen*	Calculation: TKN + Nitrate-N + Nitrite-N. Please note: The Default Detection Limit of 0.05 g/m^3 is only attainable when the TKN has been determined using a trace method utilising duplicate analyses. In cases where the Detection Limit for TKN is 0.10 g/m^3, the Default Detection Limit for Total Nitrogen will be 0.11 g/m^3. In-house calculation.	0.05 g/m^3	1-6
Total Ammoniacal-N	Saline sample. Phenol/hypochlorite colorimetry. Flow injection analyser. (NH_4-N = NH_4^+-N + NH_3-N). APHA 4500-NH_3 H : Online Edition.	0.005 g/m^3	1-6
Nitrate-N + Nitrite-N	Saline sample. Total oxidised nitrogen. Automated cadmium reduction, Flow injection analyser. APHA 4500-NO_3^- I (modified) : Online Edition.	0.0010 g/m^3	1-6
Total Kjeldahl Nitrogen (TKN)*	Total Kjeldahl digestion, phenol/hypochlorite colorimetry. Discrete Analyser. APHA 4500-N_{org} D (modified) 4500 NH_3 F (modified) : Online Edition.	0.10 g/m^3	1-6
Dissolved Reactive Phosphorus	Saline sample. Molybdenum blue colorimetry. Flow injection analyser. APHA 4500-P G : Online Edition.	0.0010 g/m^3	1-6
Total Phosphorus	Total phosphorus digestion, ascorbic acid colorimetry. Flow Injection Analyser. APHA 4500-P H (modified) : Online Edition.	0.004 g/m^3	1-6
Chlorophyll a	Acetone extraction. Spectroscopy. APHA 10150 B (modified) : Online Edition.	0.003 g/m^3	1-6

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed between 29-May-2024 and 05-Jun-2024. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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Martin Cowell - BSc
Client Services Manager - Environmental

R J Hill Laboratories Limited
[redacted]
[redacted]
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Certificate of Analysis

Client:	SLR Holdings NZ Limited	**Lab No:**	3598753	SUPv1
Contact:	Claire Conwell	**Date Received:**	04-Jun-2024	
	[redacted]	**Date Reported:**	13-Jun-2024	
		Quote No:	130421	
		Order No:		
		Client Reference:	520.030379	
		Submitted By:	Daniel Ahern	

Sample Type: Saline

Sample Name:		R1 - S 04-Jun-2024 9:57 am	R1 - Mid 04-Jun-2024 10:02 am	R1 - B 04-Jun-2024 10:08 am	A2 - S 04-Jun-2024 10:45 am
Lab Number:		3598753.1	3598753.2	3598753.3	3598753.4
Turbidity	NTU	0.426 ± 0.054	< 0.05 ± 0.034	< 0.05 ± 0.034	< 0.05 ± 0.034
pH	pH Units	8.1 ± 0.2	8.1 ± 0.2	8.1 ± 0.2	8.1 ± 0.2
Electrical Conductivity (EC)	mS/m	5,340 ± 110	5,400 ± 110	5,350 ± 110	5,330 ± 110
Salinity*		35.60 ± 0.45	35.70 ± 0.46	35.90 ± 0.46	35.90 ± 0.46
Total Suspended Solids	g/m³	< 3 ± 2.1	< 3 ± 2.1	< 3 ± 2.1	< 3 ± 2.1
Total Nitrogen*	g/m³	< 0.3 ± 0.064	< 0.3 ± 0.064	0.237 ± 0.064	< 0.3 ± 0.064
Total Ammoniacal-N	g/m³	0.0094 ± 0.0036	0.0131 ± 0.0040	0.0109 ± 0.0038	0.0127 ± 0.0039
Nitrate-N + Nitrite-N	g/m³	0.0411 ± 0.0055	0.0422 ± 0.0057	0.0409 ± 0.0055	0.0337 ± 0.0046
Total Kjeldahl Nitrogen (TKN)*	g/m³	< 0.2 ± 0.064	< 0.2 ± 0.064	< 0.2 ± 0.064	< 0.2 ± 0.064
Dissolved Reactive Phosphorus	g/m³	0.00888 ± 0.0010 #1	0.0089 ± 0.0011 #1	0.0090 ± 0.0011 #1	0.00825 ± 0.00096 #1
Total Phosphorus	g/m³	0.0071 ± 0.0017 #1	0.0071 ± 0.0017 #1	0.0068 ± 0.0017 #1	0.0069 ± 0.0017 #1
Chlorophyll a	g/m³	< 0.003 ± 0.0021	< 0.003 ± 0.0021	< 0.003 ± 0.0021	< 0.003 ± 0.0021

Sample Name:		A2 - Mid 04-Jun-2024 10:51 am	A2 - B 04-Jun-2024 10:58 am
Lab Number:		3598753.5	3598753.6
Turbidity	NTU	0.056 ± 0.034	0.068 ± 0.034
pH	pH Units	8.1 ± 0.2	8.1 ± 0.2
Electrical Conductivity (EC)	mS/m	5,320 ± 110	5,310 ± 110
Salinity*		35.80 ± 0.46	35.80 ± 0.46
Total Suspended Solids	g/m³	< 3 ± 2.1	< 3 ± 2.1
Total Nitrogen*	g/m³	0.217 ± 0.064	< 0.3 ± 0.064
Total Ammoniacal-N	g/m³	0.0142 ± 0.0041	0.0155 ± 0.0042
Nitrate-N + Nitrite-N	g/m³	0.0334 ± 0.0045	0.0338 ± 0.0046
Total Kjeldahl Nitrogen (TKN)*	g/m³	< 0.2 ± 0.064	< 0.2 ± 0.064
Dissolved Reactive Phosphorus	g/m³	0.00826 ± 0.00096 #1	0.00811 ± 0.00095 #1
Total Phosphorus	g/m³	0.0070 ± 0.0017 #1	0.0068 ± 0.0017 #1
Chlorophyll a	g/m³	< 0.003 ± 0.0021	< 0.003 ± 0.0021

The reported uncertainty is an expanded uncertainty with a level of confidence of approximately 95 percent (i.e. two standard deviations, calculated using a coverage factor of 2). Reported uncertainties are calculated from the performance of typical matrices, and do not include variation due to sampling.

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Analyst's Comments

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Summary of Methods

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Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Filtration, Unpreserved*	Sample filtration through 0.45µm membrane filter.	-	1-6
Turbidity	Analysis by Turbidity meter. APHA 2130 B (modified) : Online Edition.	0.05 NTU	1-6
pH	Saline water, pH meter. APHA 4500-H^+ B (modified) : Online Edition. Note: It is not possible to achieve the APHA Maximum Storage Recommendation for this test (15 min) when samples are analysed upon receipt at the laboratory, and not in the field. Samples and Standards are analysed at an equivalent laboratory temperature (typically 18 to 22 °C). Temperature compensation is used.	0.1 pH Units	1-6
Electrical Conductivity (EC)	Saline water, Conductivity meter, 25°C. APHA 2510 B : Online Edition.	0.10 mS/m	1-6
Salinity*	Conductivity Meter (WTW Cond 340i with nonlinear temperature compensation according to EN 27 888). APHA 2520 B : Online Edition.	0.2	1-6
Total Suspended Solids	Saline sample. Filtration using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) : Online Edition.	3 g/m^3	1-6
Total Nitrogen*	Calculation: TKN + Nitrate-N + Nitrite-N. Please note: The Default Detection Limit of 0.05 g/m^3 is only attainable when the TKN has been determined using a trace method utilising duplicate analyses. In cases where the Detection Limit for TKN is 0.10 g/m^3, the Default Detection Limit for Total Nitrogen will be 0.11 g/m^3. In-house calculation.	0.05 g/m^3	1-6
Total Ammoniacal-N	Saline sample. Phenol/hypochlorite colorimetry. Flow injection analyser. (NH_4-N = NH_4^+-N + NH_3-N). APHA 4500-NH_3 H : Online Edition.	0.005 g/m^3	1-6
Nitrate-N + Nitrite-N	Saline sample. Total oxidised nitrogen. Automated cadmium reduction, Flow injection analyser. APHA 4500-NO_3^- I (modified) : Online Edition.	0.0010 g/m^3	1-6
Total Kjeldahl Nitrogen (TKN)*	Total Kjeldahl digestion, phenol/hypochlorite colorimetry. Discrete Analyser. APHA 4500-N_{org} D (modified) 4500 NH_3 F (modified) : Online Edition.	0.10 g/m^3	1-6
Dissolved Reactive Phosphorus	Saline sample. Molybdenum blue colorimetry. Flow injection analyser. APHA 4500-P G : Online Edition.	0.0010 g/m^3	1-6
Total Phosphorus	Total phosphorus digestion, ascorbic acid colorimetry. Flow Injection Analyser. APHA 4500-P H (modified) : Online Edition.	0.004 g/m^3	1-6
Chlorophyll a	Acetone extraction. Spectroscopy. APHA 10150 B (modified) : Online Edition.	0.003 g/m^3	1-6

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed between 06-Jun-2024 and 13-Jun-2024. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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Ara Heron BSc (Tech)
Client Services Manager - Environmental

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[redacted]
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Certificate of Analysis

Client:	SLR Holdings NZ Limited	**Lab No:**	3605170 SUPv1
Contact:	Claire Conwell	**Date Received:**	13-Jun-2024
	[redacted]	**Date Reported:**	20-Jun-2024
		Quote No:	130421
		Order No:	
		Client Reference:	8201030379.00001
		Submitted By:	Pamela Kane-Sanderson

Sample Type: Saline

Sample Name:		R1-Surface (s) 12-Jun-2024 9:39 am	R1-Mid (M) 12-Jun-2024 9:44 am	R1-Bottom (B) 12-Jun-2024 9:48 am	A2-Surface (S) 12-Jun-2024 10:40 am
Lab Number:		3605170.1	3605170.2	3605170.3	3605170.4
Turbidity	NTU	0.171 ± 0.038	0.230 ± 0.041	0.133 ± 0.036	< 0.05 ± 0.034
pH	pH Units	8.1 ± 0.2	8.1 ± 0.2	8.1 ± 0.2	8.1 ± 0.2
Electrical Conductivity (EC)	mS/m	5,350 ± 110	5,340 ± 110	5,340 ± 110	5,340 ± 110
Salinity*		35.90 ± 0.46	35.80 ± 0.46	35.80 ± 0.46	35.90 ± 0.46
Total Suspended Solids	g/m³	3.2 ± 2.1	3.4 ± 2.1	< 3 ± 2.1	< 3 ± 2.1
Total Nitrogen*	g/m³	< 0.3 ± 0.064	< 0.3 ± 0.064	< 0.3 ± 0.064	< 0.3 ± 0.064
Total Ammoniacal-N	g/m³	0.0076 ± 0.0035	0.0082 ± 0.0036	0.0080 ± 0.0035	0.0096 ± 0.0037
Nitrate-N + Nitrite-N	g/m³	< 0.0010 ± 0.00067	< 0.0010 ± 0.00067	0.0085 ± 0.0013	0.0382 ± 0.0052
Total Kjeldahl Nitrogen (TKN)*	g/m³	< 0.2 ± 0.064	< 0.2 ± 0.064	< 0.2 ± 0.064	< 0.2 ± 0.064
Dissolved Reactive Phosphorus	g/m³	0.00145 ± 0.00068	0.00145 ± 0.00068	0.00340 ± 0.00073	0.00887 ± 0.0010 #1
Total Phosphorus	g/m³	0.0059 ± 0.0017	0.0058 ± 0.0017	0.0074 ± 0.0017	0.0085 ± 0.0017 #1
Chlorophyll a	g/m³	< 0.003 ± 0.0021	0.0039 ± 0.0021	< 0.003 ± 0.0021	< 0.003 ± 0.0021

Sample Name:		A2-Mid (M) 12-Jun-2024 10:43 am	A3-Bottom (B) 12-Jun-2024 10:48 am
Lab Number:		3605170.5	3605170.6
Turbidity	NTU	< 0.05 ± 0.034	< 0.05 ± 0.034
pH	pH Units	8.1 ± 0.2	8.1 ± 0.2
Electrical Conductivity (EC)	mS/m	5,350 ± 110	5,400 ± 110
Salinity*		35.80 ± 0.46	36.00 ± 0.46
Total Suspended Solids	g/m³	< 3 ± 2.1	4.6 ± 2.1
Total Nitrogen*	g/m³	< 0.3 ± 0.064	< 0.3 ± 0.064
Total Ammoniacal-N	g/m³	0.0100 ± 0.0037	0.0099 ± 0.0037
Nitrate-N + Nitrite-N	g/m³	0.0386 ± 0.0052	0.0385 ± 0.0052
Total Kjeldahl Nitrogen (TKN)*	g/m³	< 0.2 ± 0.064	< 0.2 ± 0.064
Dissolved Reactive Phosphorus	g/m³	0.00868 ± 0.00099	0.00845 ± 0.00098 #1
Total Phosphorus	g/m³	0.0093 ± 0.0017	0.0082 ± 0.0017 #1
Chlorophyll a	g/m³	< 0.003 ± 0.0021	< 0.003 ± 0.0021

The reported uncertainty is an expanded uncertainty with a level of confidence of approximately 95 percent (i.e. two standard deviations, calculated using a coverage factor of 2). Reported uncertainties are calculated from the performance of typical matrices, and do not include variation due to sampling.

For further information on uncertainty of measurement at Hill Laboratories, refer to the technical note on our website: www.hill-laboratories.com/files/Intro_To_UOM.pdf, or contact the laboratory.

Analyst's Comments

#1 It has been noted that the result for Dissolved Reactive Phosphorus was greater than that for Total Phosphorus, but within the analytical variation of these methods.

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The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked * or any comments and interpretations, which are not accredited.

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Filtration, Unpreserved*	Sample filtration through 0.45µm membrane filter.	-	1-6
Turbidity	Analysis by Turbidity meter. APHA 2130 B (modified) : Online Edition.	0.05 NTU	1-6
pH	Saline water, pH meter. APHA 4500-H^+ B (modified) : Online Edition. Note: It is not possible to achieve the APHA Maximum Storage Recommendation for this test (15 min) when samples are analysed upon receipt at the laboratory, and not in the field. Samples and Standards are analysed at an equivalent laboratory temperature (typically 18 to 22 °C). Temperature compensation is used.	0.1 pH Units	1-6
Electrical Conductivity (EC)	Saline water, Conductivity meter, 25°C. APHA 2510 B : Online Edition.	0.10 mS/m	1-6
Salinity*	Conductivity Meter (WTW Cond 340i with nonlinear temperature compensation according to EN 27 888). APHA 2520 B : Online Edition.	0.2	1-6
Total Suspended Solids	Saline sample. Filtration using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) : Online Edition.	3 g/m^3	1-6
Total Nitrogen*	Calculation: TKN + Nitrate-N + Nitrite-N. Please note: The Default Detection Limit of 0.05 g/m^3 is only attainable when the TKN has been determined using a trace method utilising duplicate analyses. In cases where the Detection Limit for TKN is 0.10 g/m^3, the Default Detection Limit for Total Nitrogen will be 0.11 g/m^3. In-house calculation.	0.05 g/m^3	1-6
Total Ammoniacal-N	Saline sample. Phenol/hypochlorite colorimetry. Flow injection analyser. (NH_4-N = NH_4^+-N + NH_3-N). APHA 4500-NH_3 H : Online Edition.	0.005 g/m^3	1-6
Nitrate-N + Nitrite-N	Saline sample. Total oxidised nitrogen. Automated cadmium reduction, Flow injection analyser. APHA 4500-NO_3^- I (modified) : Online Edition.	0.0010 g/m^3	1-6
Total Kjeldahl Nitrogen (TKN)*	Total Kjeldahl digestion, phenol/hypochlorite colorimetry. Discrete Analyser. APHA 4500-N_{org} D (modified) 4500 NH_3 F (modified) : Online Edition.	0.10 g/m^3	1-6
Dissolved Reactive Phosphorus	Saline sample. Molybdenum blue colorimetry. Flow injection analyser. APHA 4500-P G : Online Edition.	0.0010 g/m^3	1-6
Total Phosphorus	Total phosphorus digestion, ascorbic acid colorimetry. Flow Injection Analyser. APHA 4500-P H (modified) : Online Edition.	0.004 g/m^3	1-6
Chlorophyll a	Acetone extraction. Spectroscopy. APHA 10150 B (modified) : Online Edition.	0.003 g/m^3	1-6

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed between 14-Jun-2024 and 20-Jun-2024. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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Ara Heron BSc (Tech)
Client Services Manager - Environmental

R J Hill Laboratories Limited
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[redacted]z
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Certificate of Analysis

Client:	SLR Holdings NZ Limited	**Lab No:**	3608222	SUPv1
Contact:	Claire Conwell	**Date Received:**	18-Jun-2024	
	[redacted]	**Date Reported:**	24-Jun-2024	
		Quote No:	130421	
		Order No:		
		Client Reference:	820.030379.00001	
		Submitted By:	Pamela Kane-Sanderson	

Sample Type: Saline

Sample Name:		R1-Surface (S) 17-Jun-2024 9:54 am	R1-Mid (M) 17-Jun-2024 9:58 am	R1-Bottom (B) 17-Jun-2024 10:03 am	A2- Surface (S) 17-Jun-2024 10:55 am
Lab Number:		3608222.1	3608222.2	3608222.3	3608222.4
Turbidity	NTU	< 0.05 ± 0.034	0.164 ± 0.037	< 0.05 ± 0.034	< 0.05 ± 0.034
pH	pH Units	8.1 ± 0.2	8.1 ± 0.2	8.1 ± 0.2	8.1 ± 0.2
Electrical Conductivity (EC)	mS/m	5,320 ± 110	5,310 ± 110	5,310 ± 110	5,310 ± 110
Salinity*		35.20 ± 0.45	35.40 ± 0.45	35.50 ± 0.45	35.50 ± 0.45
Total Suspended Solids	g/m³	< 3 ± 2.1	< 3 ± 2.1	< 3 ± 2.1	< 3 ± 2.1
Total Nitrogen*	g/m³	< 0.3 ± 0.064	< 0.3 ± 0.064	< 0.3 ± 0.064	< 0.3 ± 0.064
Total Ammoniacal-N	g/m³	0.0086 ± 0.0036	0.0083 ± 0.0036	0.0084 ± 0.0036	0.0093 ± 0.0036
Nitrate-N + Nitrite-N	g/m³	0.0540 ± 0.0072	0.0570 ± 0.0076	0.0577 ± 0.0077	0.0572 ± 0.0077
Total Kjeldahl Nitrogen (TKN)*	g/m³	< 0.2 ± 0.064	< 0.2 ± 0.064	< 0.2 ± 0.064	< 0.2 ± 0.064
Dissolved Reactive Phosphorus	g/m³	0.0110 ± 0.0012	0.0114 ± 0.0012	0.0111 ± 0.0012	0.0114 ± 0.0012
Total Phosphorus	g/m³	0.0126 ± 0.0017	0.0133 ± 0.0018	0.0130 ± 0.0017	0.0130 ± 0.0017
Chlorophyll a	g/m³	< 0.003 ± 0.0021	< 0.003 ± 0.0021	< 0.003 ± 0.0021	< 0.003 ± 0.0021

Sample Name:		A2- Mid (M) 17-Jun-2024 11:00 am	A2- Bottom (B) 17-Jun-2024 11:05 am
Lab Number:		3608222.5	3608222.6
Turbidity	NTU	0.051 ± 0.034	< 0.05 ± 0.034
pH	pH Units	8.1 ± 0.2	8.1 ± 0.2
Electrical Conductivity (EC)	mS/m	5,330 ± 110	5,330 ± 110
Salinity*		35.60 ± 0.45	35.50 ± 0.45
Total Suspended Solids	g/m³	< 3 ± 2.1	< 3 ± 2.1
Total Nitrogen*	g/m³	< 0.3 ± 0.064	< 0.3 ± 0.064
Total Ammoniacal-N	g/m³	0.0085 ± 0.0036	0.0084 ± 0.0036
Nitrate-N + Nitrite-N	g/m³	0.0588 ± 0.0079	0.0590 ± 0.0079
Total Kjeldahl Nitrogen (TKN)*	g/m³	< 0.2 ± 0.064	< 0.2 ± 0.064
Dissolved Reactive Phosphorus	g/m³	0.0117 ± 0.0012	0.0116 ± 0.0012
Total Phosphorus	g/m³	0.0132 ± 0.0018	0.0136 ± 0.0018
Chlorophyll a	g/m³	< 0.003 ± 0.0021	< 0.003 ± 0.0021

The reported uncertainty is an expanded uncertainty with a level of confidence of approximately 95 percent (i.e. two standard deviations, calculated using a coverage factor of 2). Reported uncertainties are calculated from the performance of typical matrices, and do not include variation due to sampling.

For further information on uncertainty of measurement at Hill Laboratories, refer to the technical note on our website: www.hill-laboratories.com/files/Intro_To_UOM.pdf, or contact the laboratory.

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The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked * or any comments and interpretations, which are not accredited.

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Filtration, Unpreserved*	Sample filtration through 0.45µm membrane filter.	-	1-6
Turbidity	Analysis by Turbidity meter. APHA 2130 B (modified) : Online Edition.	0.05 NTU	1-6
pH	Saline water, pH meter. APHA 4500-H^+ B (modified) : Online Edition. Note: It is not possible to achieve the APHA Maximum Storage Recommendation for this test (15 min) when samples are analysed upon receipt at the laboratory, and not in the field. Samples and Standards are analysed at an equivalent laboratory temperature (typically 18 to 22 °C). Temperature compensation is used.	0.1 pH Units	1-6
Electrical Conductivity (EC)	Saline water, Conductivity meter, 25°C. APHA 2510 B : Online Edition.	0.10 mS/m	1-6
Salinity*	Conductivity Meter (WTW Cond 340i with nonlinear temperature compensation according to EN 27 888). APHA 2520 B : Online Edition.	0.2	1-6
Total Suspended Solids	Saline sample. Filtration using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) : Online Edition.	3 g/m^3	1-6
Total Nitrogen*	Calculation: TKN + Nitrate-N + Nitrite-N. Please note: The Default Detection Limit of 0.05 g/m^3 is only attainable when the TKN has been determined using a trace method utilising duplicate analyses. In cases where the Detection Limit for TKN is 0.10 g/m^3, the Default Detection Limit for Total Nitrogen will be 0.11 g/m^3. In-house calculation.	0.05 g/m^3	1-6
Total Ammoniacal-N	Saline sample. Phenol/hypochlorite colorimetry. Flow injection analyser. (NH_4-N = NH_4^+-N + NH_3-N). APHA 4500-NH_3 H : Online Edition.	0.005 g/m^3	1-6
Nitrate-N + Nitrite-N	Saline sample. Total oxidised nitrogen. Automated cadmium reduction, Flow injection analyser. APHA 4500-NO_3^- I (modified) : Online Edition.	0.0010 g/m^3	1-6
Total Kjeldahl Nitrogen (TKN)*	Total Kjeldahl digestion, phenol/hypochlorite colorimetry. Discrete Analyser. APHA 4500-N_{org} D (modified) 4500 NH_3 F (modified) : Online Edition.	0.10 g/m^3	1-6
Dissolved Reactive Phosphorus	Saline sample. Molybdenum blue colorimetry. Flow injection analyser. APHA 4500-P G : Online Edition.	0.0010 g/m^3	1-6
Total Phosphorus	Total phosphorus digestion, ascorbic acid colorimetry. Flow Injection Analyser. APHA 4500-P H (modified) : Online Edition.	0.004 g/m^3	1-6
Chlorophyll a	Acetone extraction. Spectroscopy. APHA 10150 B (modified) : Online Edition.	0.003 g/m^3	1-6

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed between 19-Jun-2024 and 24-Jun-2024. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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Ara Heron BSc (Tech)
Client Services Manager - Environmental

R J Hill Laboratories Limited
[redacted]
[redacted]
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Certificate of Analysis

Client:	SLR Holdings NZ Limited	**Lab No:**	3613145 SUPv1
Contact:	Claire Conwell	**Date Received:**	25-Jun-2024
	[redacted]	**Date Reported:**	03-Jul-2024
		Quote No:	130421
		Order No:	
		Client Reference:	820.030379.00001
		Submitted By:	Pamela Kane-Sanderson

Sample Type: Saline

Sample Name:		R1-Surface (S) 24-Jun-2024 9:51 am	R1-Mid (M) 24-Jun-2024 9:55 am	R1-Bottom (B) 24-Jun-2024 10:00 am	A2-Surface (S) 24-Jun-2024 10:48 am
Lab Number:		3613145.1	3613145.2	3613145.3	3613145.4
Turbidity	NTU	0.095 ± 0.035	0.058 ± 0.034	0.069 ± 0.034	0.085 ± 0.035
pH	pH Units	8.2 ± 0.2	8.2 ± 0.2	8.2 ± 0.2	8.2 ± 0.2
Electrical Conductivity (EC)	mS/m	5,320 ± 110	5,310 ± 110	5,290 ± 110	5,320 ± 110
Salinity*		35.60 ± 0.45	35.80 ± 0.46	35.80 ± 0.46	35.80 ± 0.46
Total Suspended Solids	g/m³	< 3 ± 2.1	< 3 ± 2.1	< 3 ± 2.1	< 3 ± 2.1
Total Nitrogen*	g/m³	< 0.3 ± 0.064	< 0.3 ± 0.064	< 0.3 ± 0.064	< 0.3 ± 0.064
Total Ammoniacal-N	g/m³	0.0118 ± 0.0038	0.0141 ± 0.0041	0.0123 ± 0.0039	0.0125 ± 0.0039
Nitrate-N + Nitrite-N	g/m³	0.0057 ± 0.0011	0.0084 ± 0.0013	0.0065 ± 0.0011	0.0172 ± 0.0024
Total Kjeldahl Nitrogen (TKN)*	g/m³	< 0.2 ± 0.064	< 0.2 ± 0.064	< 0.2 ± 0.064	< 0.2 ± 0.064
Dissolved Reactive Phosphorus	g/m³	0.00532 ± 0.00080	0.00557 ± 0.00082	0.00561 ± 0.00082	0.00712 ± 0.00090
Total Phosphorus	g/m³	0.0064 ± 0.0017	0.0068 ± 0.0017	0.0063 ± 0.0017	0.0079 ± 0.0017
Chlorophyll a	g/m³	< 0.003 ± 0.0021	< 0.003 ± 0.0021	< 0.003 ± 0.0021	< 0.003 ± 0.0021

Sample Name:		A2-Mid (M) 24-Jun-2024 10:52 am	A2-Bottom (B) 24-Jun-2024 10:57 am
Lab Number:		3613145.5	3613145.6
Turbidity	NTU	< 0.05 ± 0.034	< 0.05 ± 0.034
pH	pH Units	8.1 ± 0.2	8.1 ± 0.2
Electrical Conductivity (EC)	mS/m	5,350 ± 110	5,340 ± 110
Salinity*		35.50 ± 0.45	35.70 ± 0.46
Total Suspended Solids	g/m³	5.8 ± 2.2	6.2 ± 2.2
Total Nitrogen*	g/m³	< 0.3 ± 0.064	< 0.3 ± 0.064
Total Ammoniacal-N	g/m³	0.0132 ± 0.0040	0.0127 ± 0.0039
Nitrate-N + Nitrite-N	g/m³	0.0181 ± 0.0025	0.0358 ± 0.0048
Total Kjeldahl Nitrogen (TKN)*	g/m³	< 0.2 ± 0.064	< 0.2 ± 0.064
Dissolved Reactive Phosphorus	g/m³	0.00735 ± 0.00091	0.0098 ± 0.0011
Total Phosphorus	g/m³	0.0077 ± 0.0017	0.0108 ± 0.0017
Chlorophyll a	g/m³	< 0.003 ± 0.0021	< 0.003 ± 0.0021

The reported uncertainty is an expanded uncertainty with a level of confidence of approximately 95 percent (i.e. two standard deviations, calculated using a coverage factor of 2). Reported uncertainties are calculated from the performance of typical matrices, and do not include variation due to sampling.

For further information on uncertainty of measurement at Hill Laboratories, refer to the technical note on our website: www.hill-laboratories.com/files/Intro_To_UOM.pdf, or contact the laboratory.

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Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Filtration, Unpreserved*	Sample filtration through 0.45µm membrane filter.	-	1-6
Turbidity	Analysis by Turbidity meter. APHA 2130 B (modified) : Online Edition.	0.05 NTU	1-6
pH	Saline water, pH meter. APHA 4500-H^+ B (modified) : Online Edition. Note: It is not possible to achieve the APHA Maximum Storage Recommendation for this test (15 min) when samples are analysed upon receipt at the laboratory, and not in the field. Samples and Standards are analysed at an equivalent laboratory temperature (typically 18 to 22 °C). Temperature compensation is used.	0.1 pH Units	1-6
Electrical Conductivity (EC)	Saline water, Conductivity meter, 25°C. APHA 2510 B : Online Edition.	0.10 mS/m	1-6
Salinity*	Conductivity Meter (WTW Cond 340i with nonlinear temperature compensation according to EN 27 888). APHA 2520 B : Online Edition.	0.2	1-6
Total Suspended Solids	Saline sample. Filtration using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) : Online Edition.	3 g/m^3	1-6
Total Nitrogen*	Calculation: TKN + Nitrate-N + Nitrite-N. Please note: The Default Detection Limit of 0.05 g/m^3 is only attainable when the TKN has been determined using a trace method utilising duplicate analyses. In cases where the Detection Limit for TKN is 0.10 g/m^3, the Default Detection Limit for Total Nitrogen will be 0.11 g/m^3. In-house calculation.	0.05 g/m^3	1-6
Total Ammoniacal-N	Saline sample. Phenol/hypochlorite colorimetry. Flow injection analyser. (NH_4-N = NH_4^+-N + NH_3-N). APHA 4500-NH_3 H : Online Edition.	0.005 g/m^3	1-6
Nitrate-N + Nitrite-N	Saline sample. Total oxidised nitrogen. Automated cadmium reduction, Flow injection analyser. APHA 4500-NO_3^- I (modified) : Online Edition.	0.0010 g/m^3	1-6
Total Kjeldahl Nitrogen (TKN)*	Total Kjeldahl digestion, phenol/hypochlorite colorimetry. Discrete Analyser. APHA 4500-N_{org} D (modified) 4500 NH_3 F (modified) : Online Edition.	0.10 g/m^3	1-6
Dissolved Reactive Phosphorus	Saline sample. Molybdenum blue colorimetry. Flow injection analyser. APHA 4500-P G : Online Edition.	0.0010 g/m^3	1-6
Total Phosphorus	Total phosphorus digestion, ascorbic acid colorimetry. Flow Injection Analyser. APHA 4500-P H (modified) : Online Edition.	0.004 g/m^3	1-6
Chlorophyll a	Acetone extraction. Spectroscopy. APHA 10150 B (modified) : Online Edition.	0.003 g/m^3	1-6

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed between 25-Jun-2024 and 03-Jul-2024. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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Martin Cowell - BSc
Client Services Manager - Environmental

Appendix G Jacobs (2020) Pākiri Water Quality Technical Report.

Te Ākau Bream Bay Sand Extraction

Water Quality Assessment of Environmental Effects

McCallum Group

SLR Project No.: 820.030379.00001

17 December 2025

Pakiri Sand Extraction Consent Application

Water Quality Technical Report

IZ111900-NP-RPT-003 | V2

August 2020

McCallum Brothers Limited

Document history and status

Revision	Date	Description	Author	Checked	Reviewed	Approved
V0	30/01/2020	First draft for client review	A Kubale	C Conwell	C Conwell	B Clarke
V1	16/07/2020	Addressing client comments	A Kubale	B Clarke	B Clarke	B Clarke
V2	31/08/2020	Addressing Final Client Comments	A Kubale	B Clarke	B Clarke	B Clarke

Distribution of copies

Revision	Issue approved	Date issued	Issued to	Comments
V1	16/07/20	15/07/20	McCallum Bros	Client comments
V2	31/08/20	31/08/20	McCallum Bros	Final Client Comments

Pakiri Sand Extraction Consent Application

Project No:	IZ111900
Document Title:	Water Quality Technical Report
Document No.:	IZ111900-NP-RPT-003
Revision:	V2
Date:	August 2020
Client Name:	McCallum Brothers Limited
Project Manager:	Anthony Kubale
Author:	Anthony Kubale
File Name:	Pakiri Water Quality Technical Report - V2

Jacobs New Zealand Limited

[redacted]

www.jacobs.com

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Appendix A. Sediment Quality Results and Comparison to ANZ Guidelines (2018)

Appendix B. Water Quality Results – Ambient and Sand Extraction Plume Sampling

Appendix C. WQM Results

Important note about your report

This report has been prepared by Jacobs New Zealand Limited (Jacobs) for McCallum Brothers Limited (the Client) for the purposes of a resource consent application for the offshore extraction of sand at Pakiri, Auckland. Jacobs accepts no liability or responsibility whatsoever for, or in respect of, any use of, or reliance upon, this report (or any part of it) for any other purpose.

In preparing this report, Jacobs has relied upon, and presumed accurate, any information (or confirmation of the absence thereof) provided by the Client and/or from other sources. Except as otherwise stated in the report, Jacobs has not attempted to verify the accuracy or completeness of any such information. If the information is subsequently determined to be false, inaccurate or incomplete then it is possible that our observations and conclusions as expressed in this report may change.

Jacobs derived the data in this report from information sourced from survey results, the Client (if any) and/or available in the public domain at the time or times outlined in this report. The passage of time, manifestation of latent conditions or impacts of future events may require further examination of the project and subsequent data analysis, and re-evaluation of the data, findings, observations and conclusions expressed in this report.

Jacobs has prepared this report in accordance with the usual care and thoroughness of the consulting profession, for the sole purpose described above and by reference to applicable standards, guidelines, procedures and practices at the date of issue of this report. For the reasons outlined above, however, no other warranty or guarantee, whether expressed or implied, is made as to the data, observations and findings expressed in this report, to the extent permitted by law.

This report may also describe specific limitations and/or uncertainties which qualify its findings. Accordingly, this report should be read in full and no excerpts are to be taken as representative of the findings unless any such excerpt and the context in which it is intended to be used have been approved by Jacobs in writing.

1. Introduction

This document presents a technical assessment of the potential effects to water quality from sand extraction operations at Mangawhai-Pakiri. McCallum Brothers Ltd (MBL) have been extracting sand within the Mangawhai-Pakiri embayment for over 75 years and this assessment forms a component of the assessment of environmental effects associated with the proposed consenting of the new sand extraction zone area (see Figure 1.1).

Sand extraction activities at Mangawhai-Pakiri rely on sand extraction and pumping of a sand slurry from the seabed to a sand extraction vessel.

The sand extraction operations are likely to result in some localised environmental effects on water quality within the receiving environment. Studies have demonstrated the potential effects on water quality from sand extraction activities (Erftemeijer & Robin Lewis III, 2006), including the suspension of sediments within the water column (Fisher, et al., 2015). Increased suspended sediment concentrations (and thus increased turbidity), can potentially impact 'down-current' benthic habitats through smothering, and reduce water column light attenuation, affecting primary productivity and and subsequenty reduced light for benthic habitats (Erftmeijer & Robin Lewis III, 2006). In addition, suspended contaminated sediments from the seabed could lead to additional effects on water quality and associated marine fauna (Filho et al., 2004). However, as Pennekamp, et al., (1996) outlines, the extent and degree of these effects is greatly dependent on a number of factors including:

- Quantity, frequency and duration of sand extraction;
- Physical dimensions and water depth of the sand extraction location;
- Grain size composition;
- Density and degree of contamination of sand extraction material;
- Background water quality (particularly suspended matter and turbidity);
- Short term temporal/spatial variations e.g. tidal state, sea state, local currents, upwellings etc
- Seasonal variations in weather conditions (particularly wind and waves); and
- Proximity of ecologically sensitive or economically important areas or species relative to the location of the sand extraction or disposal site.

This study focuses on the potential effects of the proposed sand extraction activities on the background water quality, in particular total suspended solids (TSS) and turbidity water quality parameters. For the purpose of this report the term water quality refers primarily to TSS and turbidity unless otherwise stated.

It is expected that the majority of large sediment particles will be retained by the sand extraction activity and therefore focus is given more to the residual sediment fines effects on receiving waters. As a result, TSS rather than suspended sediment concentration (SSC) was utilised for this report as it is understood from the National Environmental Monitoring Standards (NEMS), that "TSS and SSC generally produce comparable results if rapidly settling sand particles are not present in a sample" (NEMS, 2017).

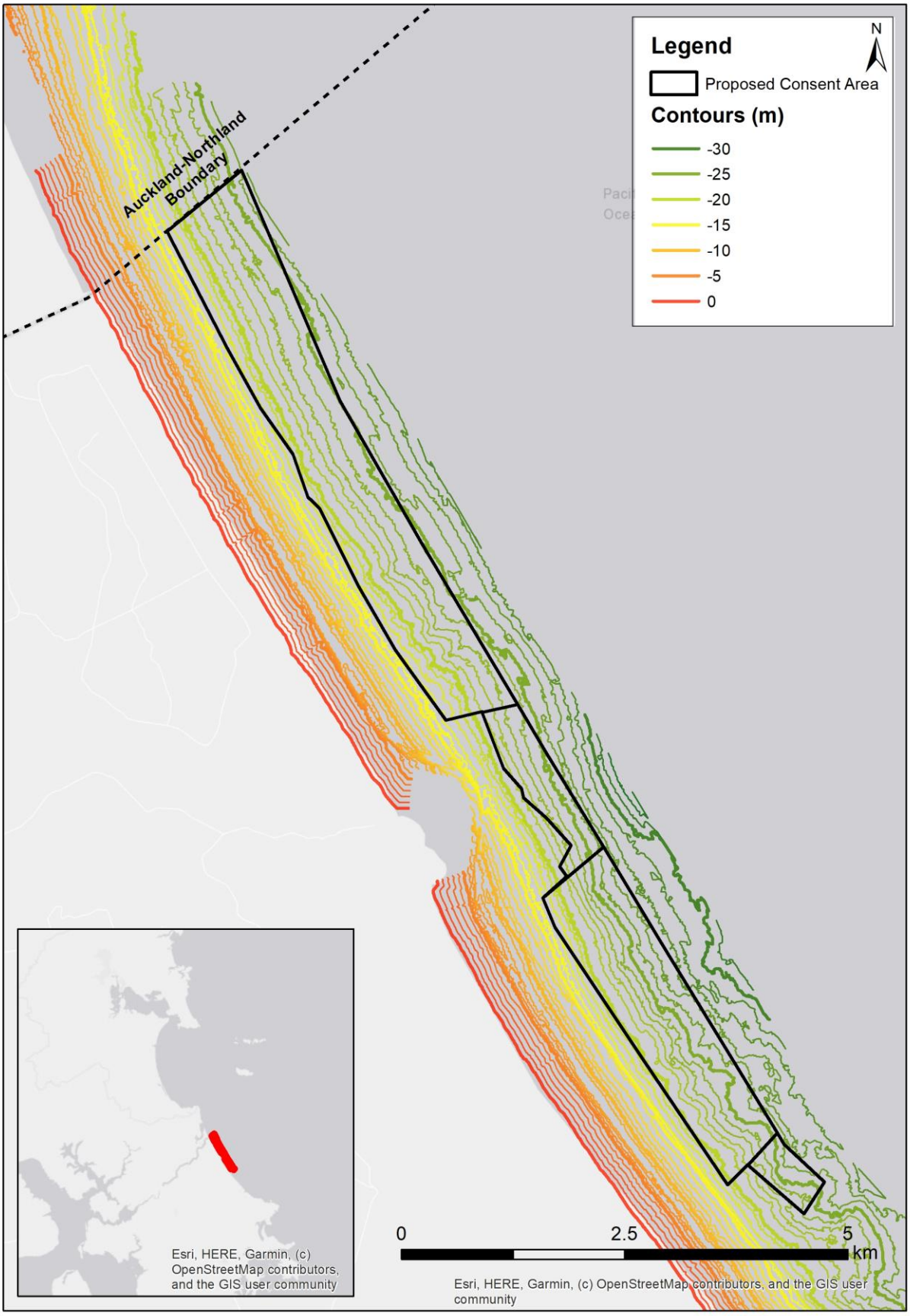


Figure 1.1: Overview of Proposed New Consent Area

1.1 Project background

The proposal is located at Pakiri, North Auckland between Mangawhai Harbour and Poutawa Stream, within the 15 m to 25 m bathymetric contour in the offshore area of the Coastal Marine Area (CMA). Pakiri is located on the east coast and faces the northern approach to the Hauraki Gulf. The coastline features a series of sandy surf beaches running from Goat Island to Mangawhai Heads.

MBL have been extracting sand in the Mangawhai-Pakiri embayment for more than 75 years. The high-quality sand has been primarily used to supply concrete plants in the greater Auckland area. MBL's current consents and related operations further off-shore, from the Mangawhai-Pakiri embayment, are under consents held by Coastal Resources Limited and MBL supplies. Approximately 45% of construction sand is for the Auckland Region. Pakiri sand extracted by MBL is also used for sports fields, beach re-nourishments and equine activities.

The current coastal permits were granted by the Environment Court in May 2006 for a 14-year period, which allows MBL to extract sand up to 76,000 m^3/year from the inshore area between the Auckland/Northland regional boundary and the Poutawa Stream as shown in Figure 1.2. A consent application for the renewal of this existing extraction activity, at the same combined annual volume (76,000 m^3/per consecutive 12-month period) was submitted in January 2020. This consent application is seeking to extract sand from the same stretch of coastline but in deeper waters, see Figure 1.1. The new consent application proposes to extract a combined annual volume of 125,000 m^3 .

1.2 Purpose

The purpose of this report is to describe the baseline conditions at the site with respect to water quality and assess any changes in these parameters during and following sand extraction operations. Field and laboratory data was collected before and during normal sand extraction operations from within an existing consented sand extraction area owned by Kaipara but operated by MBL on behalf of Kaipara. This consented area sits at similar bathymetric contours to the proposed new sand extraction area and is considered representative of the physical conditions in the proposed new consent area. The in-situ field and laboratory data was compared to long-term ambient water quality data collected from the re-consent of the existing MBL inshore consent area and data sets from the wider region.

Utilising the water quality baseline conditions, the report assesses the potential effects on water quality from the proposed sand extraction operations. This report also sets out any applicable mitigation and monitoring recommendations and provides an assessment of residual effects.

It should be noted that this report should be read in conjunction with the other technical assessments which support the consent application. Reference and links to these reports will be provided as applicable in this report.

1.3 Document structure

The report has the following structure:

- Section 2: Relevant policy and objectives
- Section 3: Description of activity
- Section 4: Describes the existing environment in terms of water quality
- Section 5: Sand extraction plume water quality sampling methodology and results
- Section 6: Assessment of effects
- Section 7: Mitigation and monitoring
- Section 8: Conclusion

2. Relevant Policy and Objectives

This section provides an overview of the Objectives and Policies relevant to water quality that are outlined in the Auckland Unitary Plan Operative in Part (AUP(OP)) as shown in Table 2.1 below (Auckland Council (2019a)). Through the AUP(OP) the provisions of the New Zealand Coastal Policy Statement (NZCPS) 2010 under the Resource Management Act 1991. Consideration of the AUP(OP) Objectives and Policies is incorporated into this report. For a full list of applicable AUP(OP) Policy and Objectives for the Project please refer to the Consent Application Report.

Table 2.1: AUP(OP) Relevant Objectives and Policies

AUP(OP) Plan Provision	Details
Chapter B: Regional Policy Statement **Objective B6.3.1** – Mana Whenua	(1) Mana Whenua values, mātauranga and tikanga are properly reflected and accorded sufficient weight in resource management decision-making. (2) The mauri of, and the relationship of Mana Whenua with, natural and physical resources including freshwater, geothermal resources, land, air and coastal resources are enhanced overall. (3) The relationship of Mana Whenua and their customs and traditions with natural and physical resources that have been scheduled in the Unitary Plan in relation to natural heritage, natural resources or historic heritage values is recognised and provided for.
Chapter B: Regional Policy Statement **Policy B6.3.2** – Mana Whenua	(1) Enable Mana Whenua to identify their values associated with all of the following: (a) ancestral lands, water, air, sites, wāhi tapu, and other taonga; (b) freshwater, including rivers, streams, aquifers, lakes, wetlands, and associated values; (c) biodiversity; (d) historic heritage places and areas; and (e) air, geothermal and coastal resources. (2) Integrate Mana Whenua values, mātauranga and tikanga: (a) in the management of natural and physical resources within the ancestral rohe of Mana Whenua, including: (i) ancestral lands, water, sites, wāhi tapu and other taonga; (ii) biodiversity; and (iii) historic heritage places and areas. (b) in the management of freshwater and coastal resources, such as the use of rāhui to enhance ecosystem health; (c) in the development of innovative solutions to remedy the long-term adverse effects on historical, cultural and spiritual values from discharges to freshwater and coastal water; and (d) in resource management processes and decisions relating to freshwater, geothermal, land, air and coastal resources. (3) Ensure that any assessment of environmental effects for an activity that may affect Mana Whenua values includes an appropriate assessment of adverse effects on those values. (4) Provide opportunities for Mana Whenua to be involved in the integrated management of natural and physical resources in ways that do all of the following: (a) recognise the holistic nature of the Mana Whenua world view; (b) recognise any protected customary right in accordance with the Marine and Coastal Area (Takutai Moana) Act 2011; and (c) restore or enhance the mauri of freshwater and coastal ecosystems. (6) Require resource management decisions to have particular regard to potential impacts on all of the following: (a) the holistic nature of the Mana Whenua (b) the exercise of kaitiakitanga; (c) mauri, particularly in relation to freshwater and coastal resources; (d) customary activities, including mahinga kai; (e) sites and areas with significant spiritual or cultural heritage value to Mana Whenua; and

	(f) any protected customary right in accordance with the Marine and Coastal Area (Takutai Moana) Act 2011.
Chapter B: Regional Policy Statement **Objective B7.2.1** – Toitū te whenua, toitū te taiao – Natural resources	(1) Areas of significant indigenous biodiversity value in terrestrial, freshwater, and coastal marine areas are protected from the adverse effects of subdivision, use and development. (2) Indigenous biodiversity is maintained through protection, restoration and enhancement in areas where ecological values are degraded, or where development is occurring.
Chapter B: Regional Policy Statement **Policy B7.2.2** – Toitū te whenua, toitū te taiao – Natural resources	(5) Avoid adverse effects on areas listed in the Schedule 3 of Significant Ecological Areas – Terrestrial Schedule and Schedule 4 Significant Ecological Areas – Marine Schedule.
Chapter B: Regional Policy Statement Objective B7.4.1 – Toitū te whenua, toitū te taiao – Natural resources	(1) Coastal water, freshwater and geothermal water are used within identified limits while safeguarding the life-supporting capacity and the natural, social and cultural values of the waters. (2) The quality of freshwater and coastal water is maintained where it is excellent or good and progressively improved over time where it is degraded. (6) Mana Whenua values, mātauranga and tikanga associated with coastal water, freshwater and geothermal water are recognised and provided for, including their traditional and cultural uses and values.
Chapter B: Regional Policy Statement **Policy B7.4.2** – Toitū te whenua, toitū te taiao – Natural resources	(7) Manage the discharges of contaminants into water from subdivision, use and development to avoid where practicable, and otherwise minimise, all of the following: (b) adverse effects on the quality of freshwater and coastal water; (c) adverse effects from contaminants, including nutrients generated on or applied to land, and the potential for these to enter freshwater and coastal water from both point and non-point sources; (d) adverse effects on Mana Whenua values associated with coastal water, freshwater and geothermal water, including wāhi tapu, wāhi taonga and mahinga kai;
Chapter B: Regional Policy Statement **Objective B8.2.1** – Toitū te whenua – Coastal Environment	(1) Areas of the coastal environment with outstanding and high natural character are preserved and protected from inappropriate subdivision, use and development. (2) Subdivision, use and development in the coastal environment are designed, located and managed to preserve the characteristics and qualities that contribute to the natural character of the coastal environment. (3) Where practicable, in the coastal environment areas with degraded natural character are restored or rehabilitated and areas of high and outstanding natural character are enhanced.
Chapter B: Regional Policy Statement **Policy B8.2.2** – Toitū te whenua – Coastal Environment	(3) Preserve and protect areas of outstanding natural character and high natural character from inappropriate subdivision, use and development by: (a) avoiding adverse effects of activities on natural character in areas of the coastal environment scheduled as outstanding natural character; and (b) avoiding significant adverse effects and avoid, remedy or mitigate other adverse effects of activities on natural character in all other areas of the coastal environment. (4) Avoid significant adverse effects and avoid, remedy or mitigate other adverse effects on natural character of the coastal environment not identified as outstanding natural character and high natural character from inappropriate subdivision, use and development.
Chapter B: Regional Policy Statement **Objective B8.3.1** – Toitū te whenua – Coastal Environment	(1) Subdivision, use and development in the coastal environment are located in appropriate places and are of an appropriate form and within appropriate limits, taking into account the range of uses and values of the coastal environment. (2) The adverse effects of subdivision, use and development on the values of the coastal environment are avoided, remedied or mitigated.
Chapter B: Regional Policy Statement **Policy B8.3.2** – Toitū te whenua – Coastal Environment	(4) Require subdivision, use and development in the coastal environment to avoid, remedy or mitigate the adverse effects of activities above and below the mean high-water springs, including the effects on existing uses and on the coastal receiving environment. (5) Adopt a precautionary approach towards proposed activities whose effects on the coastal environment are uncertain, unknown or little understood, but could be significantly adverse.

Chapter B: Regional Policy Statement **Objective B8.5.1** – Toitū te whenua – Coastal Environment	(1) The management of the Hauraki Gulf gives effect to sections 7 and 8 of the Hauraki Gulf Marine Park Act 2000. (3) Economic well-being is enabled from the use of the Hauraki Gulf's natural and physical resources without resulting in further degradation of environmental quality or adversely affecting the life-supporting capacity of marine ecosystems.
Chapter B: Regional Policy Statement **Policies B8.5.2** – Toitū te whenua – Coastal Environment	(5) Avoid use and development that will compromise the natural character, landscape, conservation and biodiversity values of the islands, particularly in areas with natural and physical resources that have been scheduled in the Unitary Plan in relation to natural heritage, Mana Whenua, natural resources, coastal, historic heritage and special character. (13) Require management and decision-making to take into account the historical, cultural and spiritual relationship of Mana Whenua with the Hauraki Gulf, and the ongoing capacity to sustain these relationships.
Chapter E: Auckland-wide **Policy E1.3** – Water quality and integrated management	(26) Prevent or minimise the adverse effects from construction, maintenance, Investigation and other activities on the quality of freshwater and coastal water by: (a) adopting best management practices and establishing minimum standards for the discharges; or (b) where Policy E1.3(26)(a) is not practicable, have regard to the following: (i) the nature, volume and concentration of the contaminants in the discharge; (ii) the sensitivity of the receiving environment to the contaminants in the discharge; (iii) other practicable options for the discharge, including reuse or discharge to the trade sewer; and (iv) practicable measures to reduce contaminant concentrations prior to discharge or otherwise mitigate adverse effects.
Chapter E: Auckland-wide **Policies E18.3** – Natural character of the coastal environment	(3) Manage the effects of subdivision, use and development in the coastal environment to avoid significant adverse effects, and avoid, remedy or mitigate other adverse effects, on the characteristics and qualities that contribute to natural character values, taking into account: (a) the location, scale and design of the proposed subdivision, use or development; (b) the extent of anthropogenic changes to landform, vegetation, coastal processes and water movement; (c) the presence or absence of structures, buildings or infrastructure; (d) the temporary or permanent nature of any adverse effects; (e) the physical and visual integrity of the area, and the natural processes of the location; (f) the intactness of any areas of significant vegetation, and vegetative patterns; (g) the physical, visual and experiential values that contribute significantly to the wilderness and scenic values of the area; (h) the integrity of landforms, geological features and associated natural processes, including sensitive landforms such as ridgelines, headlands, peninsulas, cliffs, dunes, wetlands, reefs, freshwater springs, streams, rivers and surf breaks; (i) the natural characteristics and qualities that exist or operate across mean high-water spring and land in the coastal environment, including processes of sediment transport, patterns of erosion and deposition, substrate composition and movement of biota, including between marine and freshwater environments.
Chapter F: Coastal **Objective F2.6.2** – Coastal – General Coastal Marine Zone	(1) The extraction of minerals, sand, shingle, shell, petroleum, and other natural material occurs in a manner that does not have significant adverse effects on the coastal marine area or near-shore environments.
Chapter F: Coastal **Policy F2.6.3** – Coastal – General Coastal Marine Zone	(1) Provide for the extraction of minerals, sand, shingle, shell, and other natural material from appropriate areas, having regard to the values of the area and the natural rate of sediment being deposited over sediment lost from the area where extraction is proposed. (2) Adopt a precautionary approach to applications for petroleum exploration and for mineral extraction within the coastal marine area, which may include using an adaptive management approach in terms of the following: (a) staging the operation;

	(b) the location of the activity; (c) the maximum volume of minerals, sand, shingle, shell and other natural material to be extracted; (d) the term of consent; or (e) environmental monitoring. (4) Require applications for petroleum exploration or mineral extraction in the coastal marine area to include measures to manage any adverse effects, including remediation and mitigation measures.
Chapter F: Coastal **Objectives F2.11.2** – Coastal – General Coastal Marine Zone	(1) Water and sediment quality in the coastal marine area is maintained where it is excellent or good and progressively improved over time in degraded areas. (2) The life-supporting capacity and resources of the Hauraki Gulf are protected and, where appropriate, enhanced.
Chapter F: Coastal **Policies F2.11.3** – Coastal – General Coastal Marine Zone	(1) Avoid the discharge of contaminants where it will result in significant modification of, or damage to any areas identified as having significant values. (2) Require any proposal to discharge contaminants or water into the coastal marine area to adopt the best practicable option to prevent or minimise adverse effects on the environment, having regard to all of the following: (a) whether it is practicable or appropriate to discharge to land above mean high water springs; (b) whether there is a wastewater network in place that should be used; (c) whether the receiving environment has the capacity to assimilate the discharged contaminants after reasonable mixing, particularly within areas identified as degraded or as having significant ecological value; (d) the extent to which present or foreseeable future adverse effects have been avoided, remedied or mitigated on: (i) areas of high recreational use; (ii) relevant initiatives by Mana Whenua established under regulations relating to the conservation or management of fisheries; (iii) the collection of fish and shellfish for consumption (e) high ecological values; (f) cleaner production methods are used where practicable to minimise the volume and level of contaminants being discharged; and (g) the discharge after reasonable mixing, does not either by itself or in combination with other discharges results in any or all of the following effects: (i) oil or grease films, scums or foams, or floatable or suspended materials; (ii) conspicuous change in the colour or visual clarity; (iii) any emission of objectionable odour; (iv) any significant adverse effects on aquatic life; or (v) any significant effects of aesthetic or amenity values. (3) Provide for discharges that are unavoidable but intermittent, where: (a) the discharge occurs infrequently; (b) there are technical and practical difficulties which prevent measures being taken to avoid, remedy or mitigate adverse effects of the discharge;

3. Description of Activity

This section summarises the key aspects of the sand extraction activity relevant to assessment of water quality. For a more detailed description of activity, refer to the Description of Activity in the main Assessment of Effects on the Environment (AEE).

3.1 Background

MBL maintain permits that allow the extraction of sand up to 76,000m^3/year from the inshore area between the Auckland/Northland regional boundary and the Poutawa Stream as shown in Figure 1.2. As noted in Section 1.1 MBL as submitted a consent application for the renewal of this inshore area. This consent application is seeking to extract a combined annual volume of 125,000 m^3 from a new offshore area shown in Figure 1.2.

MBL is currently using a new purpose-built sand extraction vessel, the 'William Fraser' to extract and process the sand from the inshore area. This same vessel will also be used in the new offshore area. The William Fraser adopts a 'trailing suction' method which operates by sucking material from the seabed as a sand slurry using a trailing suction head fitted to pipes that trail over the bed as the ship sails over the extraction area. The sand pumps lift the extracted sand slurry through the pipework to pass through sand screens which are delivered to the onboard hopper via a series of valves and pipes alongside the hopper. The sand pump capacity is 2,450 m^3 per hour at normal revolutions.

There are two main methods by which suspended sediments are discharged into the receiving waters as a result of the sand extraction operations:

- Over-sized material and excess water volume that does not pass through the screen system is delivered into pipework that discharges into the fore Port side moon pool; and
- Sediment laden water that is delivered to the hopper flows over the weir boards and into one of six moon pools that are located fore, mid or aft of the hopper.

For a more detailed description, refer to the main AEE report – Section 2.

3.1.1 Over-Sized Material Discharge

The 'William Fraser' uses a flat deck screening technology rather than a flume system as on historic sand extraction vessels. The sand slurry is pumped into a screen tower and over a 8 m^2 "screen deck', material passing through the screens is transported to the hopper via two pipes located along the side of the vessel with a series of valves on these pipes so that the load in the hopper can be balanced and controlled in the vessel. Any over-sized material not passing through the screen deck is collected and delivered into a pipe that discharges into the fore Port side "moon pool" which is then discharged below the keel of the vessel, at least 1.5 m below the sea surface. The majority of the over-sized material comprises shell fragments greater than 2.5 mm (the maximum limit of the sand screens).

3.1.2 Discharge of Sediment Fines from Hopper

The 'William Fraser', hopper weir boards will be used to drain excess water and fines (less than 2.5 mm in size) from the hopper. This material is collected via the six "moon pools" and discharged back to sea.

4. Description of Existing Environment

This section summarises the available baseline water quality information relevant to the proposed sand extraction area. Existing reports (where available) as well as field data collected *in-situ* in May and December 2019 have been used.

4.1 Regional Overview of Ambient Water Quality

In order to characterise existing water quality conditions within the proposed new consent sand extraction area, reference sites close to the project location were selected that contained similar physical characteristics to that of the project site. The data associated with these reference sites were then compared to the data from *in-situ* samples collected in December 2019. The two reference sites identified as suitable comparisons include:

- Goat Island Marine Reserve (Auckland Council 2019b); and
- Mair Bank (Northland Regional Council 2015).

Table 4.1 lists a suite of key water quality parameters for Mair Bank and the Goat Island reference sites.

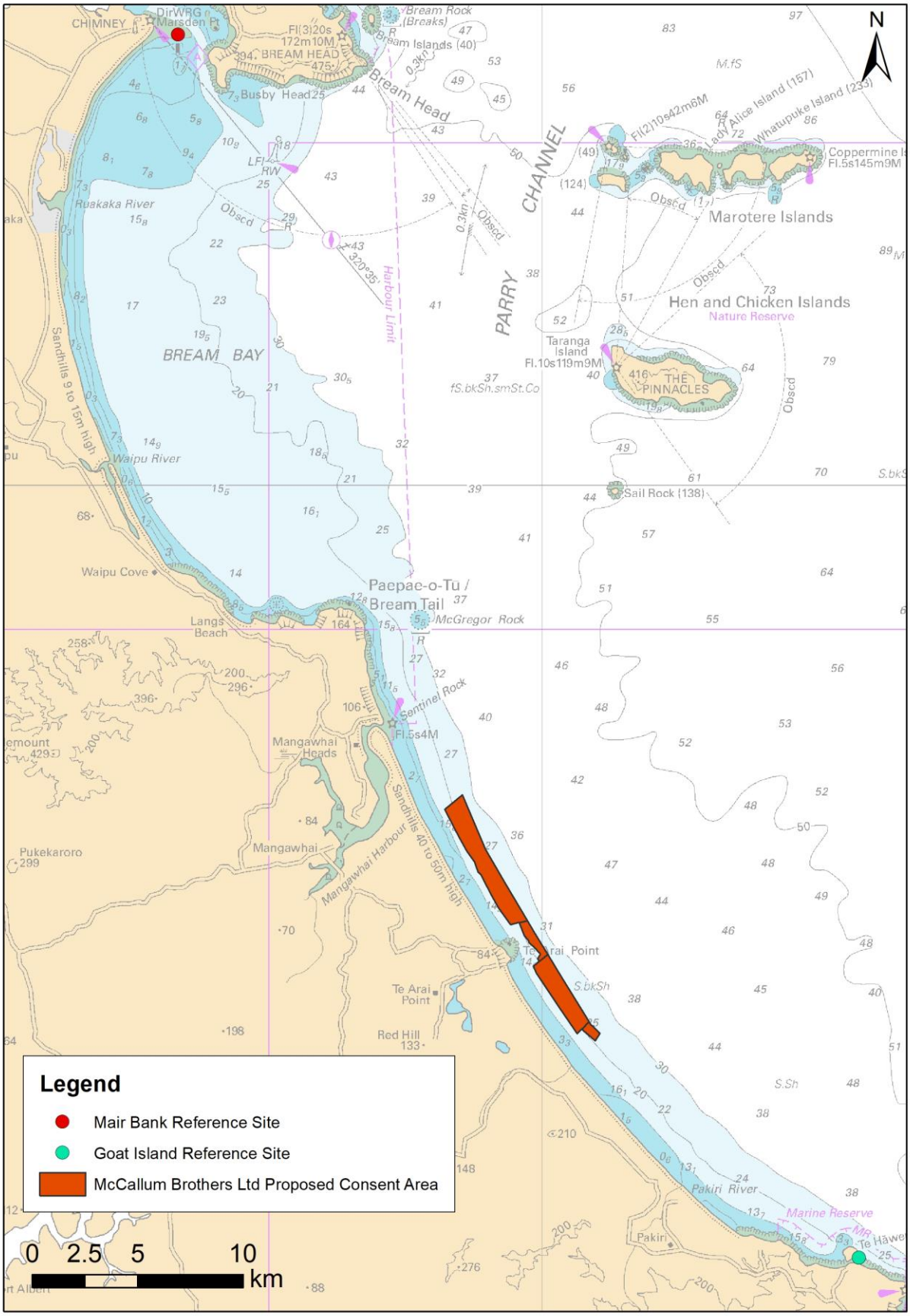


Figure 4.1: Goat Island and Mair Bank Reference Site Locations

4.1.1 Mair Bank

The Mair Bank (long term Northland Regional Council (NRC) State of the Environment monitoring site) was selected as a suitable proxy for ambient water quality at the project site. This site is located along an open coast area on the east coast of the North Island, outside the entrance of Whangarei Harbour, approximately 38 kms (direct path) north of the project site (Figure 4.1). The NRC collected routine water quality data from this area from January 2010 to December 2014 (summarised in Table 4.1, see NRC 2016 for full details). Physical features of Mair Bank include:

- Soft sandy seabed; and
- Adjacent to a deep sandy-shell channel in the lower harbour.

4.1.2 Goat Island

Auckland Council have collected water quality data from their long-term Goat Island monitoring site since 1993. Goat Island is a marine reserve located approximately 17 kms south of the project site (Figure 4.1). The site is a small island with steep cliffs approximately 100 m offshore, the eastern side of the island is exposed to the full influence of the Pacific from the north to east[1]. The steep cliffs of the eastern side of Goat island continue subsurface to a sandy bottom at 23 m.

Goat Island was selected as a reference site due to its proximity to the project area, and the similarity in its physical and hydrodynamic properties (i.e. sandy bottom composition and exposure to the open coast).

Table 4.1 summarises water quality parameters from the Goat Island long term monitoring station, with data obtained from 1993 to 2019 and the Mair Bank reference site (data obtained from Jan 2010 to December 2014) (Auckland Council Environmental Data Portal (2019)).

Table 4.1: Mean Values for Key Water Quality Parameters associated with Goat Island (1993-2019, Auckland Council 2019) and Mair Bank (Jan 2010 to December 2014, NRC 2016) Reference Sites

Parameter	Mair Bank	Goat Island
Salinity (ppt)	34.4	34.3
Temperature (°C)	17.5	17.3
Total Suspended Solids (mg/L)	N/A	4.0
Turbidity (NTU)	0.8	0.59
Dissolved Oxygen (%)	99.5	103.30
Conductivity (mS/cm)	Not measured	52.85

4.2 Ambient Site-Specific Water Quality Conditions

In order to determine the potential site-specific effects of the sand extraction activity on the receiving environment of the proposed new consent area, sediment quality and water quality conditions were assessed within the existing consented sand extraction area. This section of the report outlines the methods and results of *in-situ* sediment and water quality sampling undertaken within the current consented area (in May and December 2019).

4.2.1 Sediment Quality Characterisation

Sediment samples were collected at three locations from two water depths (5 m and 20 m bathymetric contour) offshore of Pakiri River, Poutawa Stream, and Te Arai Stream. Samples were collected by MBL personnel while

[1] Russell, B. C. (1969). A checklist of the fishes of Goat Island, North Auckland, New Zealand, with an analysis of habitats and associations. *Tane*, *15*(3), 105-113.

undertaking other field sampling on the 16th April 2019 and analysed at RJ Hill Laboratories (location – Hamilton). Only the data from the 20 m bathymetric contour will be presented in this report as it is most applicable to sand extraction in the proposed new consent area. For further details on the sample locations and sampling methodology, refer to the Coastal Process Assessment – Section 2.3.2 and Appendix D.

The samples were analysed for the following parameters in order to get a general understanding of sediment quality and any historical contamination that may cause a risk to water quality if suspended within the water quality as a result of sand extraction activities.

- Metals:
  - Arsenic
  - Cadmium
  - Chromium
  - Copper
  - Lead
  - Mercury
  - Nickel
  - Zinc
- Total Polycyclic Aromatic Hydrocarbons (PAHs); and
- Total Polychlorinated Biphenyls (PCBs).

Particle size analysis was also analysed however as the majority of the material collected from sediment samples would be retained during sand extraction operations, it is not representative of the residual sediment contained within waters discharged from the William Fraser and therefore the data is not presented here. For information on particle size analysis from seabed sediment samples, refer to the Coastal Process Assessment.

Results of sediment analyses were compared against the sediment quality guideline values listed in the revised Australia and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG 2018). They were also compared against guideline limits set by Auckland Council in the 'Preliminary Assessment of Limits and Guidelines Available for Classifying Auckland Coastal Waters' Technical Report (Auckland Council, 2017). Results were compared against Environmental Resource Criteria (ERC), primary contaminants (Amber) and secondary toxic organics (Red/Green) outlined in Table 7.3 of the Auckland Council Technical Report. Exceedances of these values are expected to trigger an environmental response such as a further assessment, identifying contaminant sources, magnitude and management options. These default guideline values provide a benchmark against which sediment quality data can be assessed for future management decisions.

Sediment contaminant concentrations below the Default Guideline Values indicate there is a low risk of adverse effects occurring. Sediment concentrations above the Guideline Value-High (GV-High) provide an indication of concentrations at which toxicity related adverse effects are expected to occur.

Sediment sample results are listed in Table 4.2 along with the respective sediment guideline values (ANZG 2018 and Auckland Council 2017). Results were compared against the default and high guideline values listed in ANZG (2018) and are listed in Table 4.2 below.

Table 4.2: Sediment Quality Results from the Pakiri River, Poutawa Stream and Te Arai Stream subtidal sites (at 20 m) Compared Against ANZG Guidelines (2018) and Auckland Council Guidelines (2017)

Contaminant	Auckland Council	ANZG DGV	ANZG GV-High	Pakiri River 20 m	Poutawa Stream 20 m	Te Arai Stream 20 m
Heavy Metals (mg/kg dry weight)						
Total Recoverable Arsenic	-	20	70	6.2	6.2	8.8

Contaminant	Auckland Council	ANZG DGV	ANZG GV-High	Pakiri River 20 m	Poutawa Stream 20 m	Te Arai Stream 20 m
Total Recoverable Cadmium	-	1.5	10	< 0.010	< 0.010	0.011
Total Recoverable Chromium	-	80	370	11.7	12.4	14.1
Total Recoverable Copper	19 – 34	65	270	0.5	0.4	0.5
Total Recoverable Lead	30 – 50	50	220	1.79	1.48	1.7
Total Recoverable Mercury	-	0.15	1	< 0.02	< 0.02	< 0.02
Total Recoverable Nickel	-	21	52	2.4	2.8	2.8
Total Recoverable Zinc	124 – 150	200	410	10.7	11.7	12.4
Total Polycyclic Aromatic Hydrocarbons (PAH) (µg/kg dry weight)						
Total PAH	660 – 1,700	10,000	50,000	< 1,500 (0.2% TOC)	< 1,500 (0.2% TOC)	< 1,500 (0.2% TOC)
Total Polychlorinated Biphenyls (PCB) (µg/kg dry weight)						
Total PCB	22	34	280	< 5 (0.2% TOC)	< 5 (0.2% TOC)	< 5 (0.2% TOC)

None of the sediment parameters (metals or organic contaminants) exceeded either the Auckland Council ERCs, DGV or GV-High – results were all well below the DGV levels, suggesting that the sediment within the sampled areas have not been subject to contamination from heavy metals, PCBs or PAHs. Whilst the PAH values were around Auckland Council ERCs, all sediment sample values were below detection level.

As shown by the sediment quality results, the receiving environment has not been subject to historical contamination from heavy metals. Given the sand extraction process does not generate or release any additional metal or organic contaminants to the marine environment, it was determined that it was not necessary to analyse water samples for heavy metal, PAH or PCB contamination.

4.2.2 Ambient Water Quality Characterisation

This section outlines the methods and results of *in-situ* water sampling, undertaken to assess the water quality state during a sand extraction activity at the existing consented area. Water samples were collected using a Van Dorn sampler, a Conductivity, Temperature and Depth (CTD) instrument and long-term monitoring results collected by the WETlabs Water quality monitor (WQM) instrument (hereon referred to as WQM).

4.2.3 Ambient Water Quality Sampling Methodology

4.2.3.1 WQM Deployment

In May 2019 a WQM buoy was deployed in a water depth of 25 m near the project site (see Figure 4.2) and included a downward-facing RDI Sentinel V50 500kHz Acoustic Doppler Current Profiler (ADCP) mounted to the base of the buoy and a WQM water quality sensor array attached via a 20 m line to a position just above the seabed (Figure 4.3 and Figure 4.4). The ADCP measured water column current velocities and near-surface temperatures, whilst the WQM measured; temperature, density, salinity, chlorophyll-*a*, turbidity, conductivity and dissolved oxygen near the seabed. The data acquired during the ADCP deployment is discussed further in the Coastal Processes Assessment.

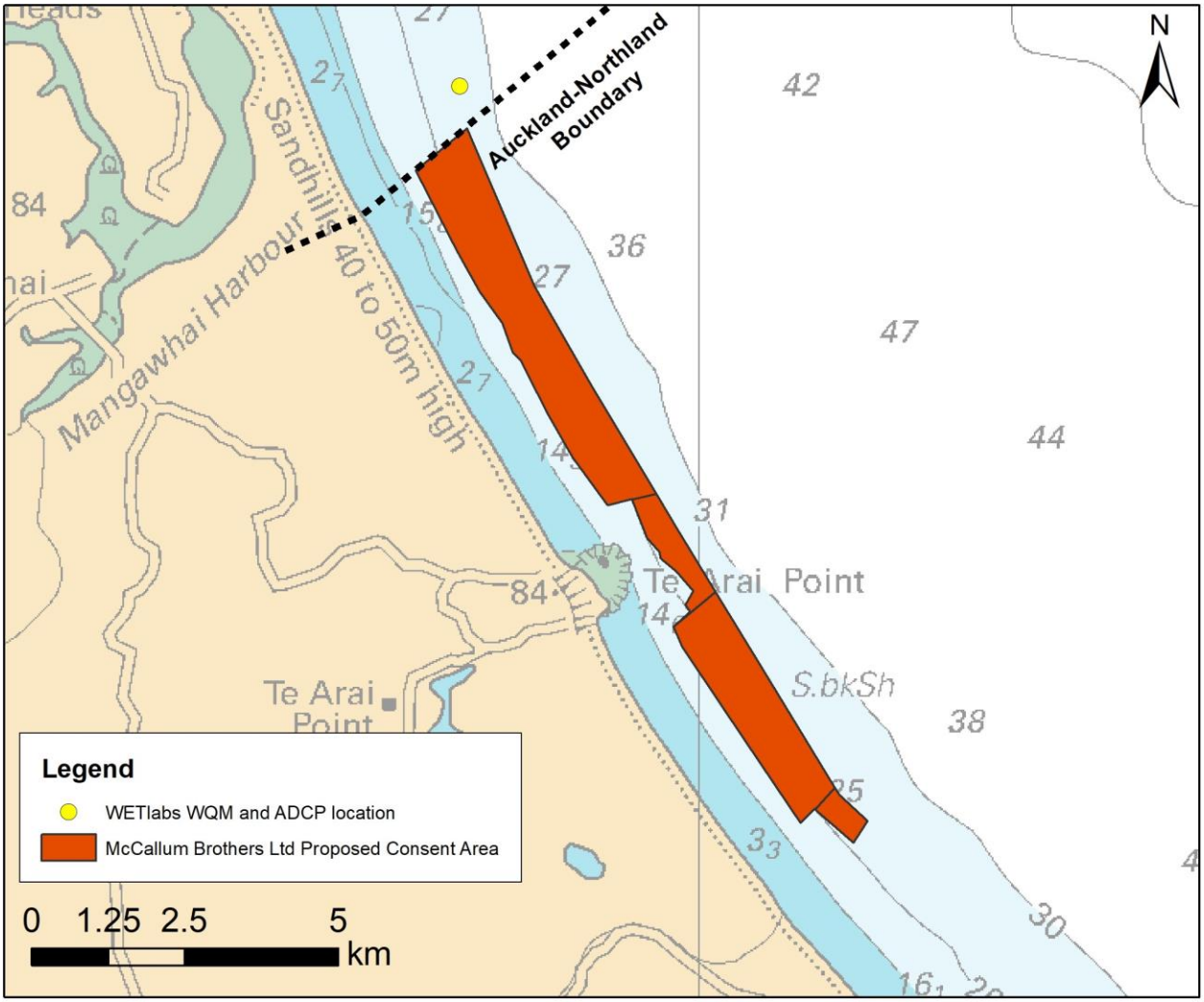


Figure 4.2: Coastal buoy Monitoring Locations in Relation to Consent Boundaries



Figure 4.3: Deployment of ADCP and WQM Devices

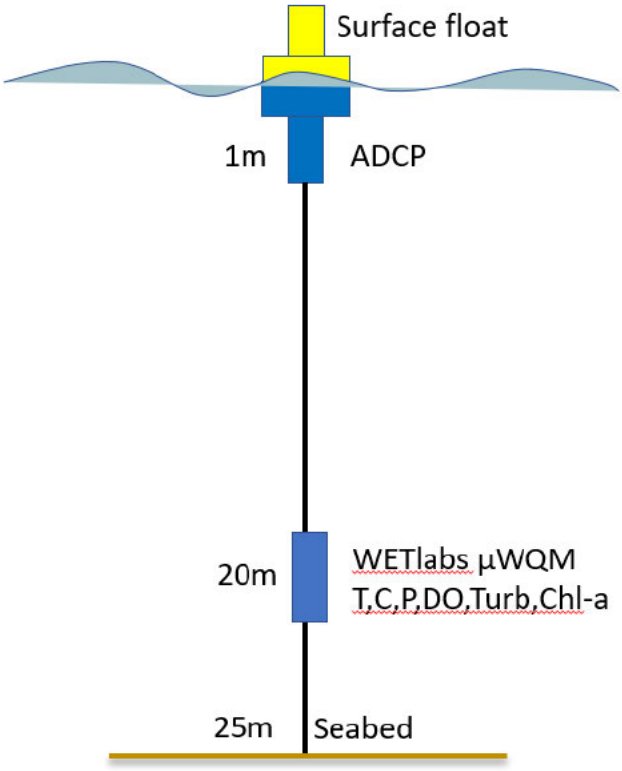


Figure 4.4: ADCP and WQM Configuration

The WQM Instrument was deployed for a two-month duration. Deployment was undertaken on the 20th May 2019 and retrieval of the instruments occurred on the 23rd July 2019. The results of the WQM deployment is discussed in Section 4.2.4.1 below.

4.2.3.2 *In-Situ* Sampling During WQM Deployment and Retrieval

During the deployment and retrieval of the WQM, *in-situ* water quality sampling was also undertaken using a Seabird SBE19plus CTD instrument (Figure 4.5) with integrated WQM fluorometer (Chl-*a* and turbidity). A grab sample using the Van Dorn sampler (Figure 4.6) was collected at the sea surface (<1 m), mid water (10 m) and just above the seabed floor (20 m) in order to provide an understanding of water quality variances through the water column. Water samples from the Van Dorn were tested for Total Suspended Solids (TSS). The CTD was deployed at the same time as the Van Dorn and collected data on the following parameters:

- Temperature;
- Salinity;
- Chlorophyll-a;
- Turbidity;
- Conductivity;
- Dissolved Oxygen;
- Density; and
- Photosynthetic Active Radiation (PAR).

The CTD cast measurements provided point-in-time measurements of vertical variation for each of these parameters throughout the water column. The Van Dorn and CTD cast profiles were taken on two separate occasions; during ADCP and WQM deployment (20th May 2019) and retrieval (23rd July 2019). The sampling results are discussed in Section 4.2.2.2.

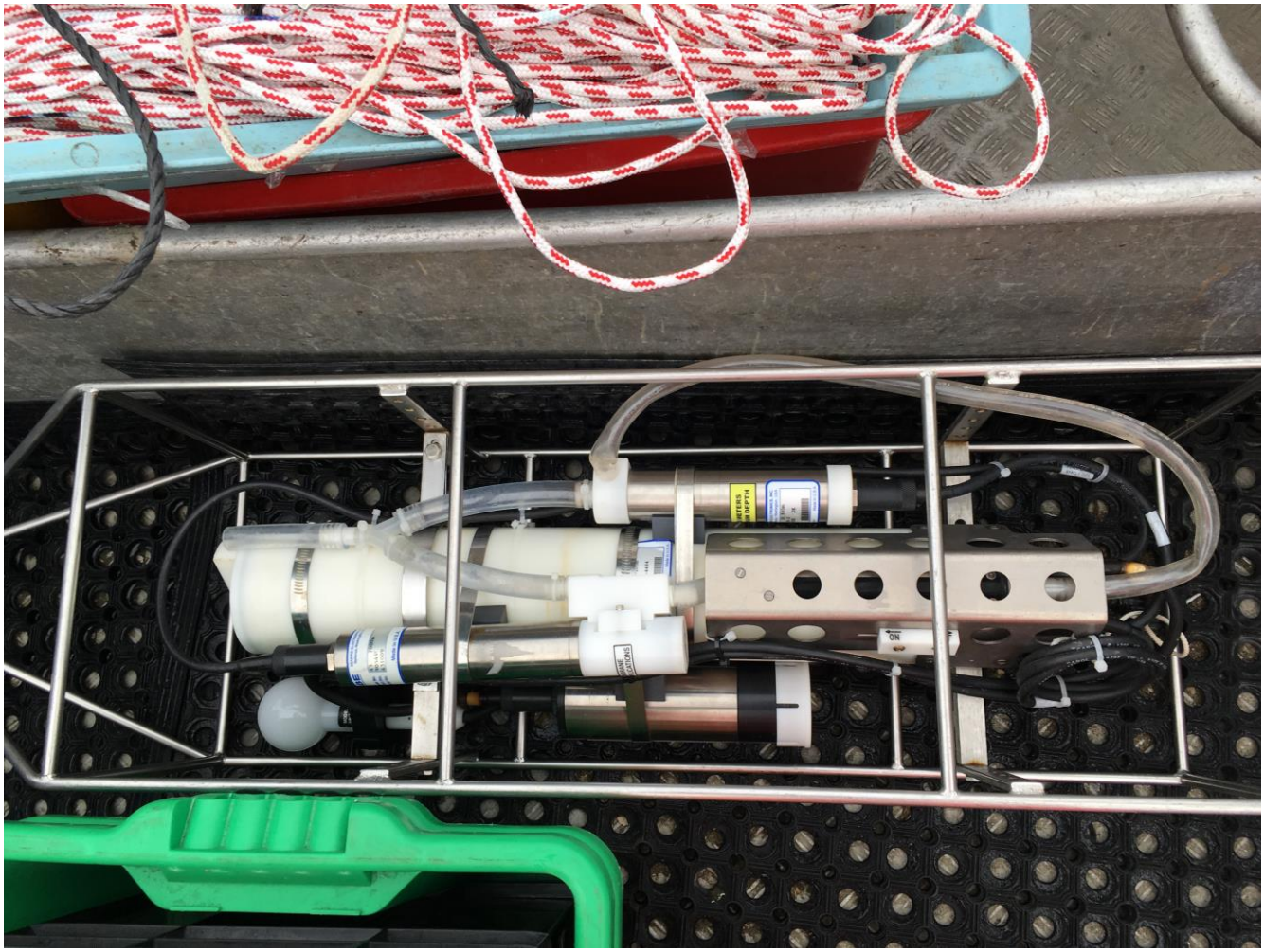


Figure 4.5: CTD Instrument with Integrated Fluorometer

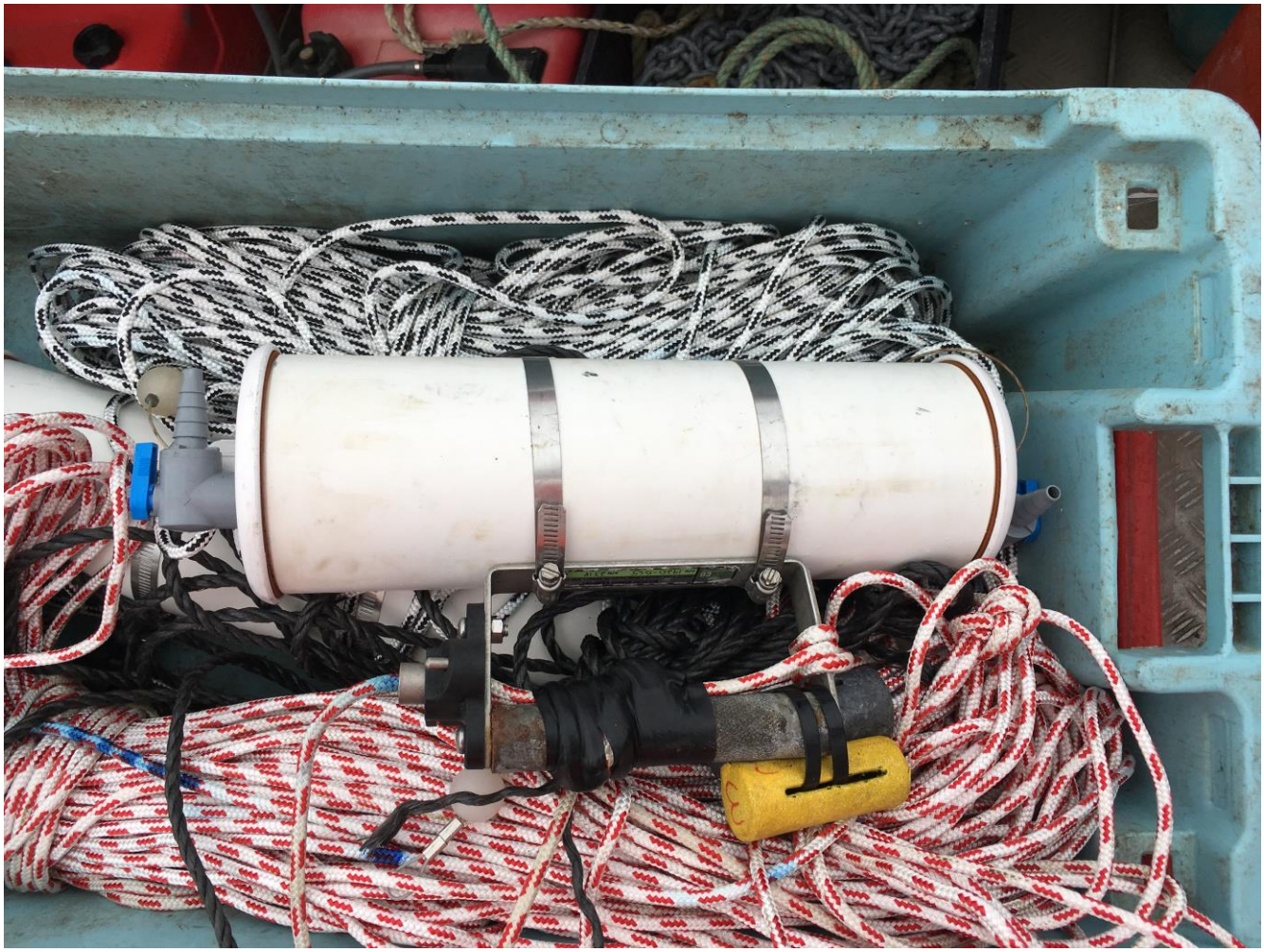


Figure 4.6: Van Dorn Grab used for Water Column Sampling

4.2.3.3 *In-Situ* Water Sampling Prior to Sand Extraction Plume Sampling (consented area)

Water quality sampling was undertaken in December 2019 prior to the sand extraction plume sampling (see Section 5.2 of this report), to describe ambient water quality conditions at the current consented sand extraction site. A series of water samples using the Van Dorn grab were collected at the sea surface (<1 m), mid water (17.5 m) and just above the seabed (35 m) and were tested for TSS. A CTD cast was also taken at the same time as the grab sampling. Results are discussed in Section 4.2.4.2 below.

4.2.4 Ambient Water Quality Results

This section summarises the results of the ambient water quality sampling. A full record of results can be found in Appendix A.

There are no relevant guidelines that provide threshold levels for parameters measured. Both Auckland Council and Northland Regional Council recognise that the ANZG (2018) provides no threshold for TSS and that the turbidity range of 0.5 – 10 NTU, is acknowledged as not suitable for open coastal waters. For this assessment, it is considered that the baseline data obtained during the buoy deployment, along with comparison against available council data sets provides a relevant baseline for assessment.

4.2.4.1 WQM Results

Table 4.3 summarises the mean results for parameters measured by the WQM over the two-month deployment period.

Table 4.3: WQM Mean Results Over Deployment Period

Temperature (ºC)	Salinity (ppm)	Chlorophyll-*a* (µg/L)	Turbidity (NTU)	TSS (mg/l)	Conductivity (mS/cm)	Oxygen (mg/l)
16.65	35.58	1.17	0.31	1.04	45.2	7.76

Figure 4.7 and 4.8 below show mean TSS and turbidity concentrations over the deployment period. As noted in these figures there is low variance in TSS and turbidity concentrations across the deployment period.

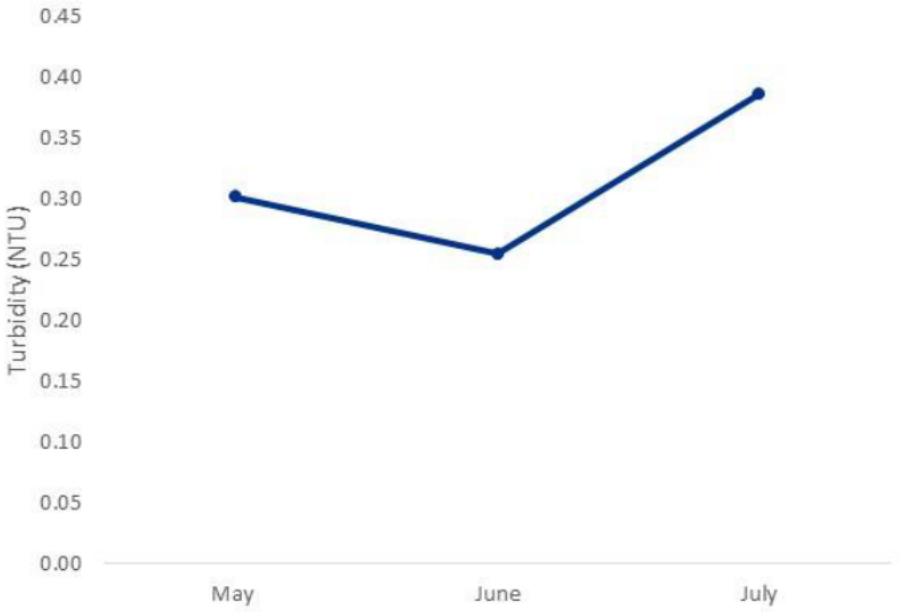


Figure 4.7: WQM Mean Turbidity Results

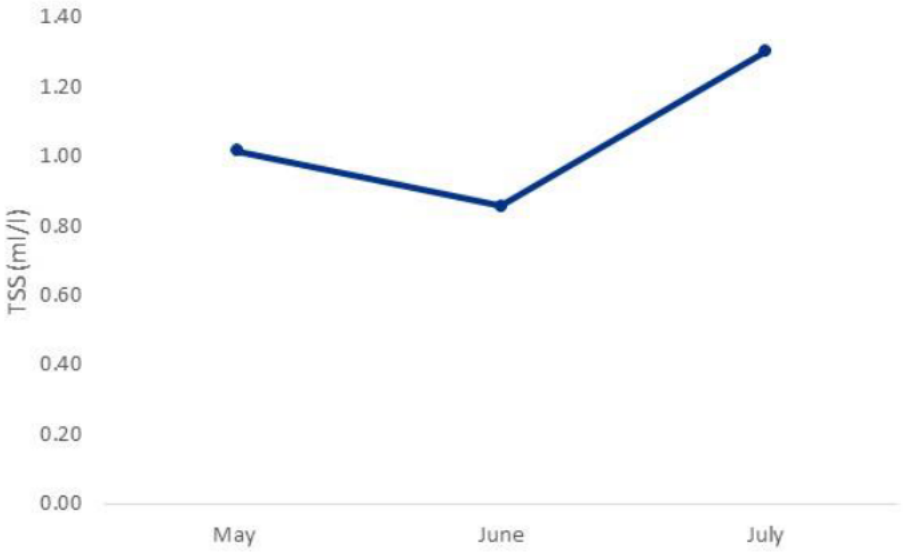


Figure 4.8: WQM Mean TSS (mg/l) Results

4.2.4.2 *In-Situ* Sampling During WQM Deployment and Retrieval Results

Table 4.4 summarises the results from the *in-situ* CTD casts during WQM deployment and retrieval (May-July 2019) over averaged water depths.

Table 4.4: Mean CTD Cast Results during WQM Deployment and Retrieval (May-July 2019)

Month	Temperature (°C)	Salinity (ppm)	Fluorescence (mg/m³)	Conductivity (mS/cm)	Oxygen (mg/l)
May	18.15	35.56	1.27	46.70	7.02
July	15.64	35.48	1.22	44.12	7.58

Table 4.5 summarises the results of TSS and turbidity from the Van Dorn water samples.

Table 4.5: TSS (mg/l) and Turbidity (NTU) Concentrations at buoy Deployment and Retrieval Site

Parameter	Date	Surface Water (<1 m)	Mid Water (10 m)	Bottom Water (20 m)
TSS (mg/l)	20 May 2019	<3	<3	<3
	23 July 2019	<3	<3	<3
Turbidity (NTU)	20 May 2019	1.29	1.29	1.29
	23 July 2019	2.33	1.28	1.28

Water samples collected using the Van Dorn during the buoy deployment and retrieval indicated very little difference in TSS concentrations through the water column and between the two sample dates. Similarly, turbidity results from the CTD showed little difference through the water column and between the samples dates. A small increase in turbidity in surface water in July 2019 is still within normal natural variation ranges as noted in the WQM and Auckland Council data. Natural variation is to be expected due to the ability for this parameter to be easily influenced by site specific conditions and natural events such as storm surge, sediment run off and extreme wave events.

4.2.4.3 *In-Situ* Sampling Prior to Sand Extraction Plume Sampling Results

Table 4.6 summarises the mean water quality results that were collected from the CTD cast in December 2019 at the sand extraction site prior to the plume sampling (plume sampling is further discussed in Section 5.3 of this report). Table 4.7 summarises the results from the grab samples TSS concentration results displayed from the Van Dorn Samples collected (Appendix B1) and turbidity results from the *in-situ* readings obtained via the CTD Cast.

Table 4.6: Mean CTD Results Relating to the Sand Extraction Site, pre-Plume Sampling

Temperature (°C)	Salinity (ppm)	Fluorescence (mg/m³)	Conductivity (mS/cm)	Oxygen (mg/l)
17.12	35.34	1.00	45.4	7.51

Table 4.7: TSS (mg/l) and Turbidity (NTU) Results Relating to Sand Extraction Site, pre-Plume Sampling

***In-situ* Parameters Measured**			
Parameter	Surface Water (<1 m)	Mid Water (17.5 m)	Bottom Water (35 m)
TSS (mg/l)	2.9	2.4	2.9
Turbidity (NTU)	0.14	0.13	0.14

The results shown in Table 4.7 for water quality samples from prior to sand extraction plume sampling show little difference through the water column. Results are also in the range of those reported from the buoy deployment and retrieval.

4.2.4.4 Summary of Ambient Water Quality Results

Table 4.8 compares the turbidity and TSS concentrations for the buoy deployment (May-July 2019), Auckland Council long term monitoring for Goat Island and the *in-situ* water quality samples from the Van Dorn and CTD cast data. In comparing across the data, the *in-situ* water quality samples for turbidity (NTU) from the Van Dorn and CTD casts prior to sand extraction plume sampling are in line with the mean values for WQM and Goat Island, and below the WQM *in-situ* results. For TSS, the *in-situ* results from the Van Dorn and CTD casts prior to sand extraction plume sampling are less than the mean Goat Island and *in-situ* WQM results, but slightly higher than the mean WQM results. All *in-situ* sampling for TSS and turbidity are within the ranges of the WQM and Goat Island data sets.

Table 4.8: Comparison between WQM and *In-Situ* Sampling

Parameter	Analysis	Goat Island	WQM	*In-Situ Sampling*		
				WQM Deployment	WQM Retrieval	Pre-Plume Sampling
Turbidity (NTU)	Result	*N/A*	*N/A*	1.29	1.28 – 2.33	0.13 – 0.14
	Mean	0.58	0.31			
	Median	0.40	0.29			
	Max	13.30	3.11			
	Min	0.15	0.14			
	80th Percentile	0.64	0.34			
	90th Percentile	0.95	0.39			
	Standard Deviation	0.86	0.15			
TSS (mg/l)	Result	*N/A*	*N/A*	<3	<3	2.4 – 2.9
	Mean	4.03	1.04			
	Median	3.10	0.98			
	Max	28.00	10.46			
	Min	0.40	0.47			
	80th Percentile	5.68	1.14			
	90th Percentile	7.65	1.31			
	Standard Deviation	3.27	0.51			

In comparing WQM to *in-situ* sampling it should be noted that the use of different equipment between *in-situ* sampling and the WQM may account for the slight variances seen between the data sets.

The small differences reported for this sampling campaign are within the expected range of data reported across New Zealand. Data collected by unitary, district and regional councils for over 2,000 monitoring sites ranging from estuarine to coastal environments across New Zealand were sampled for a range of parameters between 2013 – 2017. Shown in Figure 4.8 and 4.9 below are median suspended solids and turbidity values over this monitoring period. Shown in Figure 4.10 and 4.11 are the median values for suspended solids and turbidity over this monitoring period and across four different environments. What is clear from all these figures are that for a coastal environment broadly similar to Pakiri, suspended solids and turbidity values are higher than those found from the WQM and *in-situ* sampling data.

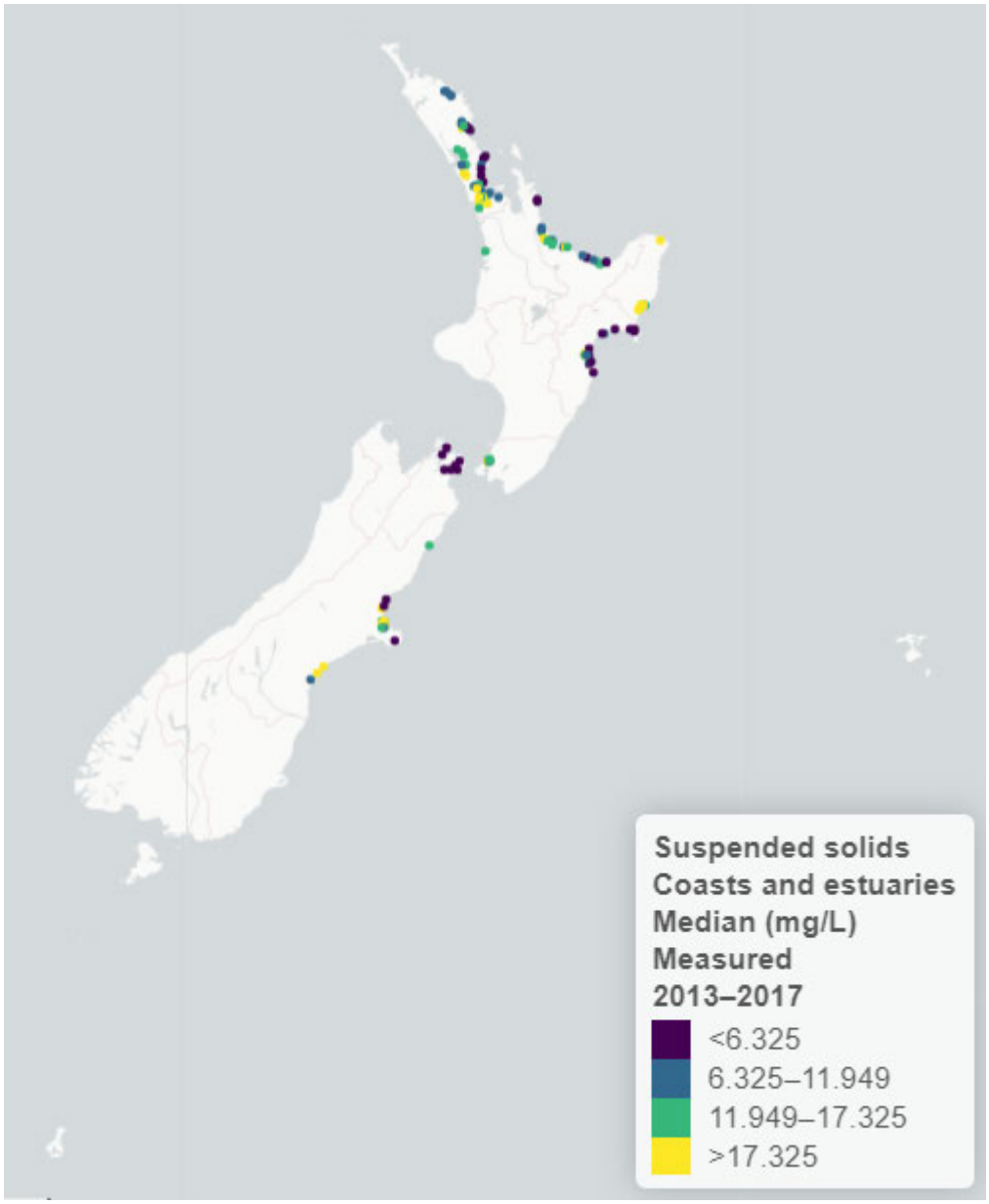


Figure 4.9: Median Values for Suspended Solids (Source: Stats NZ Tatauranga Aotearoa)

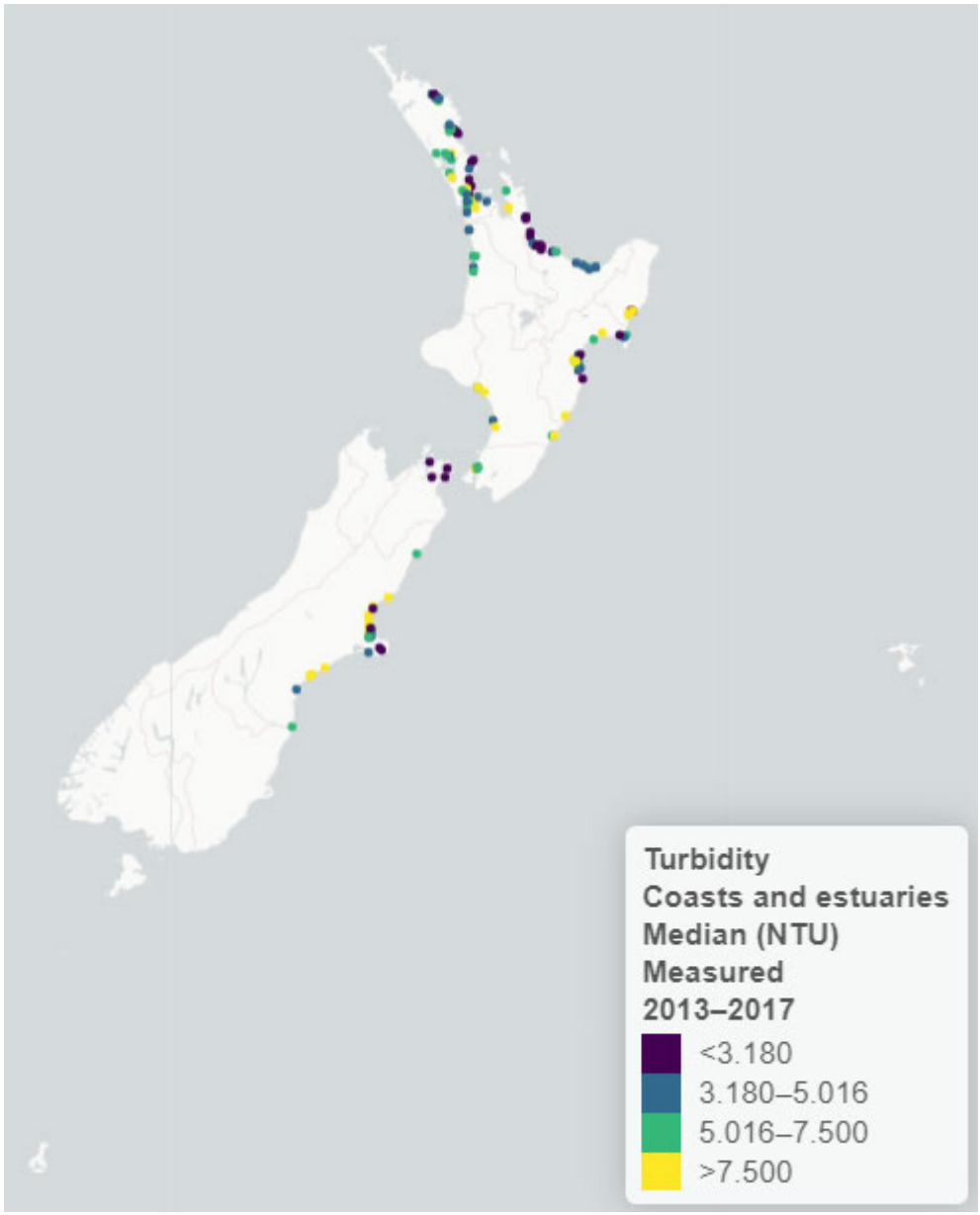


Figure 4.10: Median Values for Turbidity (Source: Stats NZ Tatauranga Aotearoa)

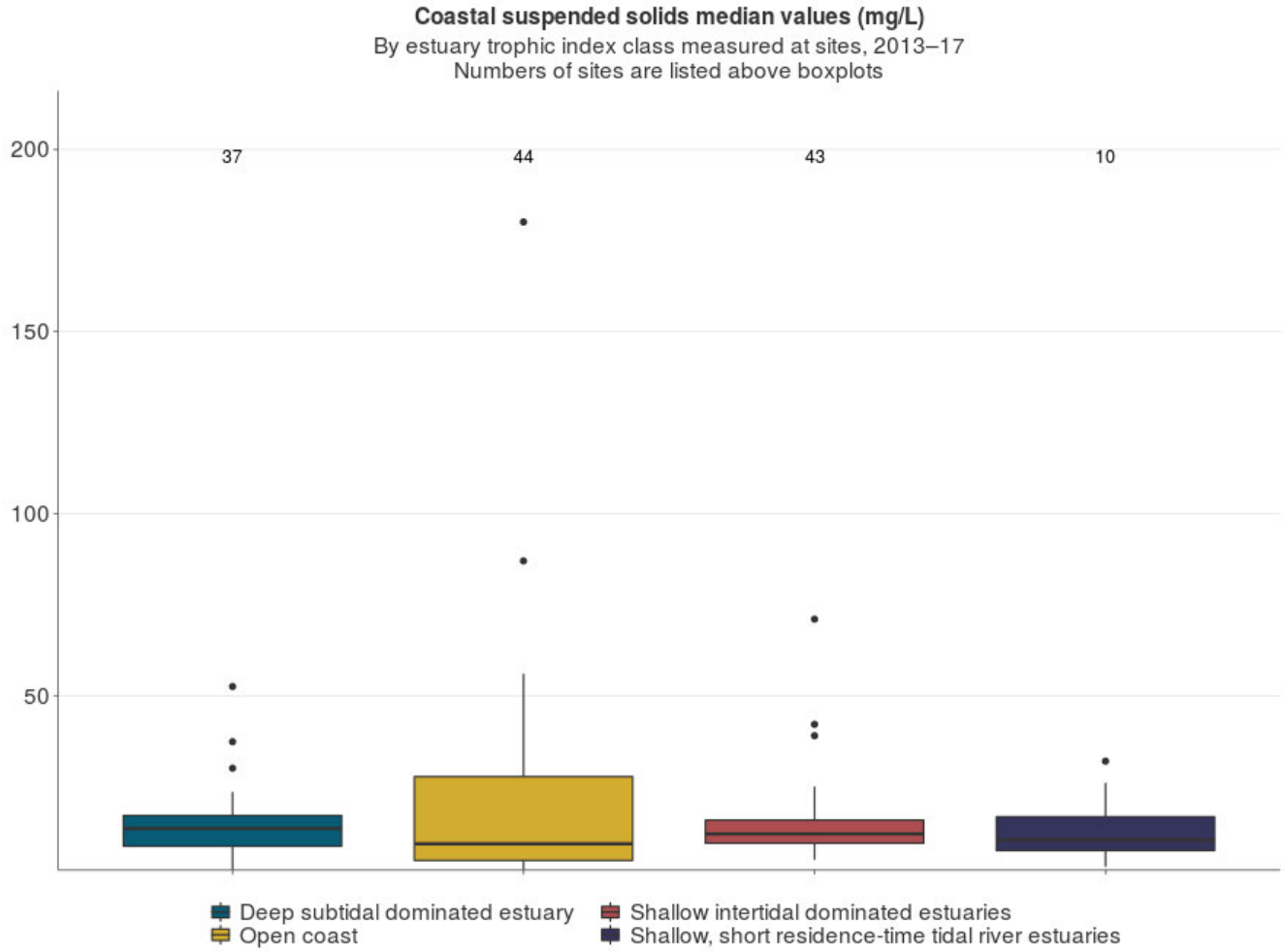


Figure 4.11: Comparison of Median Values for Suspended Solids Across Environments (Source: Stats NZ Tatauranga Aotearoa)

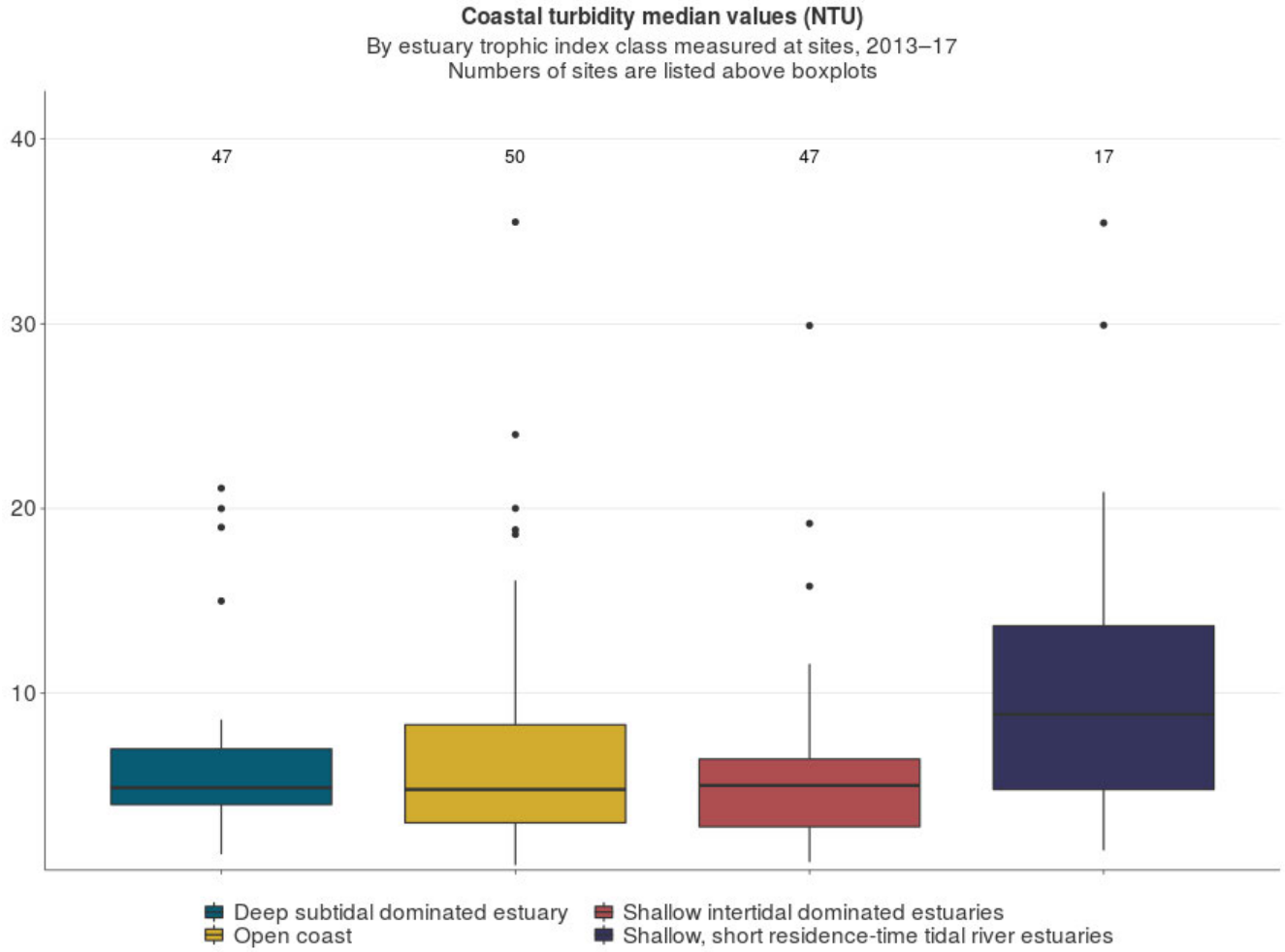


Figure 4.12: Comparison of Median Values for Turbidity Across Environments (Source: Stats NZ Tatauranga Aotearoa)

5. Sand Extraction Plume Water Quality Sampling

This section outlines sampling undertaken on the 10th December 2019 during a routine sand extraction operation (existing consent area) in order to characterise any changes in TSS and turbidity that may occur as a result of the sand extraction activities.

5.1 Discharge Source Sampling Rationale and Methodology

As discussed in Section 3, the William Fraser discharges water containing oversized and fine sediment particles from six moon pools located underneath the hull of the vessel at 1.5 m below the water line. Discharges from the moon pools are expected to represent the highest (or worst case) TSS concentrations. Water samples were collected from the weir boards to understand what the highest TSS concentrations are from sand extraction which can then be used to compare against changes in TSS concentrations once the discharge water enters the marine environment. In addition, it can be used to compare against ambient background concentrations as discussed in Section 4. Figures 5.1 show the William Fraser vessel in operation.



Figure 5.1: William Fraser in Operation

Sampling of the overflow from the weir boards was undertaken by personnel on board the William Fraser on the 10th December 2019 under calm sea conditions. Staff were supervised from the survey vessel to ensure sampling was carried out appropriately.

The sample bottle was rinsed at least three times with the overflow water before a sample was taken. One sample was taken from three different weir board discharge locations. All samples were analysed for TSS and Particle Size Distribution (PSD) at Hill Laboratories (Hamilton).

5.2 Discharge Source Results

Table 5.1 summarises the TSS results from the weir board overflow discharges (see **Appendix B3** for full laboratory reports). Weir board 3 contained the highest TSS concentration with weir board 2 only slightly less and weir board 1 showing a result of 450 mg/l. Three samples were selected in order to provide reasonable characterisation of TSS concentrations from weir board discharges.

Table 5.1: TSS (mg/l) Concentrations for Weir Board Sampling Locations

	Weir Board 1	Weir Board 2	Weir Board 3
TSS (mg/l)	450	1,010	1,240

Table 5.2 summarises the PSD results from the weir board overflow discharges. The majority (>70 %) of material being discharged is classified as coarse silt to very fine sand. The degree of variation between the samples is therefore linked to the variable volume of coarser material within the discharge waters.

Table 5.2: PSD Results from Weir Board Samples

Sample	Mean particle size µm	Percentage (%) of Silts (10.0 – 62.5 µm)	Percentage (%) of Sands (62.5 – 500 µm)
Weir Board 1	93.50	29.94	70.06
Weir Board 2	115.42	26.46	73.53
Weir Board 3	125.40	23.63	76.37

5.3 Sand Extraction Plume Sampling Rationale and Methodology

Water quality sampling in the plume of the vessel was undertaken during normal sand extraction operations to determine the concentration gradient over distance and depth, of TSS and turbidity.

Sand extraction plume sampling was undertaken from a survey vessel (Figure 5.2) which was positioned approximately 3 m behind the William Fraser (Figure 5.3). Once the survey vessel reached the required plume sampling point immediately behind the William Fraser, the survey vessel dropped anchor and three water samples were taken using a Van Dorn, one each at the following depths; surface (<1 m), mid (15 m) and bottom water (35 m), that were later analysed for TSS concentrations. At the same time a CTD cast was undertaken to collect data on turbidity, temperature, dissolved oxygen, salinity, pH, PAR, conductivity and fluorescence through the water column.



Figure 5.2: Survey Vessel used for Sand Extraction Plume Sampling



Figure 5.3: Location of Survey Vessel at Start of Sand Extraction Plume Sampling. The sampling vessel was positioned approximately 3 m from the vessel stern

As the sand extraction vessel continued operations, the survey vessel maintained its position directly behind the sand extraction vessel within the sediment plume and continued sampling at 250 m intervals until the sand extraction vessel reach 2,000 m distance. 2,000 m was selected as the point at which any change in conditions as a result of sand extraction will likely have returned to ambient. The 250 m intervals were measured based on the time taken for the sand extraction vessel to travel 250 m at a steady 2.5 knots – approximately every 3 minutes 15 seconds. Figure 5.4 below provides an overview of the survey methodology and sampling intervals.

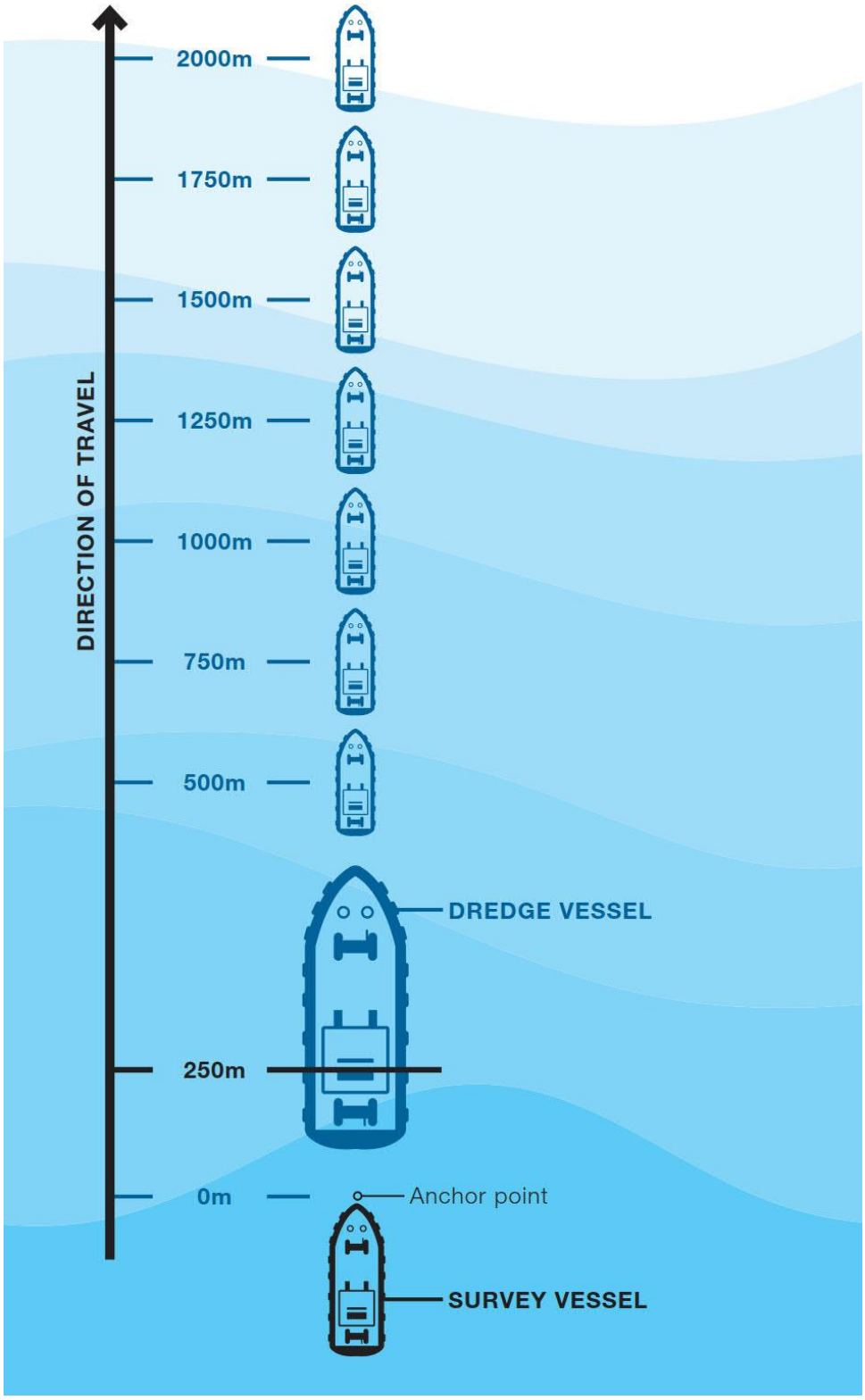


Figure 5.4: Overview of Sand Extraction Plume Survey Methodology and Intervals

The two km sample transect was repeated in order to provide increased granularity of TSS and turbidity concentrations changes over the 2,000 m.

5.4 Sand Extraction Plume Results

All field data was processed in Microsoft Excel. Results collected from the CTD casts were depth-averaged relative to the grab sampling intervals (surface (<1 m), mid (17.5 m) and bottom water (35 m). Full laboratory and CTD cast results are provided in Appendix B.

Figures 5.4-5.7 show sampling results for TSS and turbidity for the 2 sample transects. The following graphs display a variety of results associated with TSS concentrations and turbidity readings. The data identified as; surface water (<1 m), mid water (17.5 m) and bottom water (35 m), represent the data collected during the sand extraction plume sampling using grabs and the CTD. This data is compared to ambient water quality data (as outlined in Section 4) that was collected prior to the sand extraction plume sampling and is indicated in the following graphs as; ambient - surface water (<1 m), ambient – mid water (17.5 m) and ambient – bottom water (35 m).

Figure 5.5 shows that TSS in surface water at the point of discharge was slightly elevated compared with the other depths (8 mg/l) but declines with distance. Both midwater and bottom water TSS concentrations ranged between 2-4 mg/l over the two-kilometre sampling distance. In general, apart from the first surface water, TSS concentrations ranged between 2-4 mg/l, and were generally within the range of the ambient TSS concentrations (2.4-2.9 mg/l). Whilst an increase in TSS concentrations is apparent within the first 250 m in the surface water, the second transect (Figure 5.6) shows that TSS concentrations throughout the water column and across the two-kilometres remained between 1.5-4.5 mg/l. Overall TSS concentrations from the two transects show small fluctuations in TSS relative to ambient concentrations, and are all with the similar range summarised in Table 4.7, and are well below the TSS concentrations reported in the Stats NZ Tatauranga Aotearoa data.

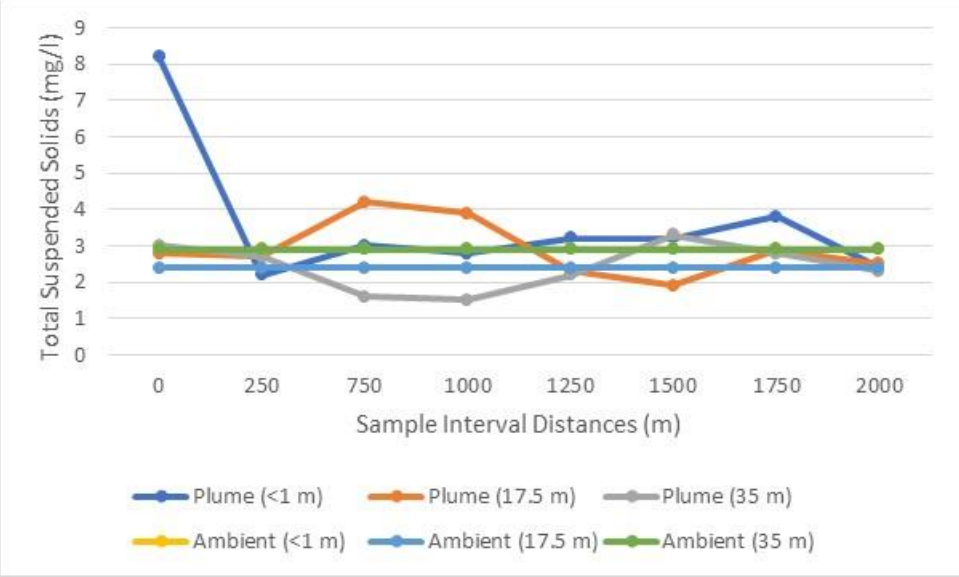


Figure 5.5: Transect One TSS (mg/l) Concentrations at 250 m Intervals from Plume Source Compared to Ambient

Note: the sample at 500 m was not collected due to an error in survey methodology. Additionally, the yellow line is not seen as it is beneath the blue ambient line

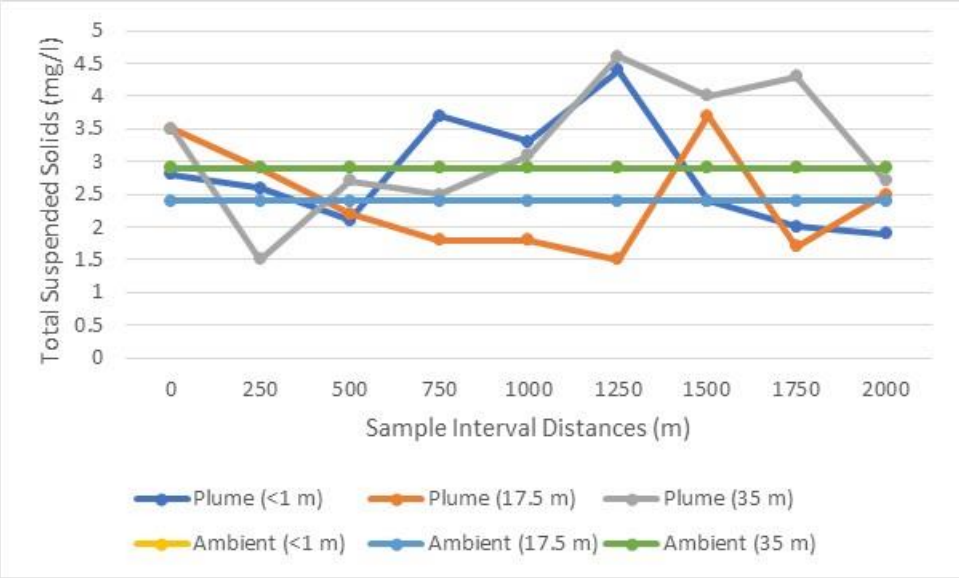


Figure 5.6: Transect Two TSS (mg/l) Concentrations at 250 m Intervals from Plume Source Compared to Ambient

Note: The yellow line is not seen as it is beneath the blue ambient line

Figure 5.7 indicates turbidity data in the surface water at the point of discharge was slightly elevated compared to the other depths at just about 2 NTU, but then declines with transect distance to less than 1 NTU. Both midwater and bottom water show turbidity values between 0.15 – 0.5 over the two-kilometre sampling distance apart from a slight elevation to 1.5 NTU in the bottom water at 250 m. Overall, apart from the first sample in the surface water at the point of discharge, the remainder of the samples show turbidity values staying reasonably consistent between 0.15 – 1 NTU generally in the range of the ambient turbidity values (0.13-0.14 NTU). Overall turbidity values recorded during the plume sampling show small fluctuations against ambient turbidity values. The turbidity concentrations are also in the range of ambient turbidity values (Table 4.7) and are well below the turbidity values reported from the Stats NZ Tatauranga Aotearoa data.

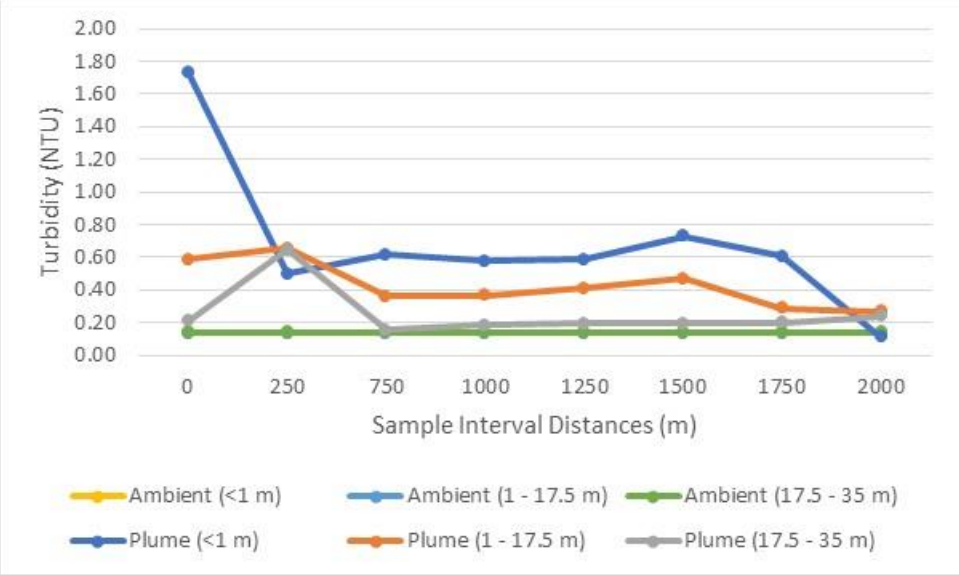


Figure 5.7: Transect One Turbidity (NTU) Values at 250 m Intervals from Plume Source Compared to Ambient

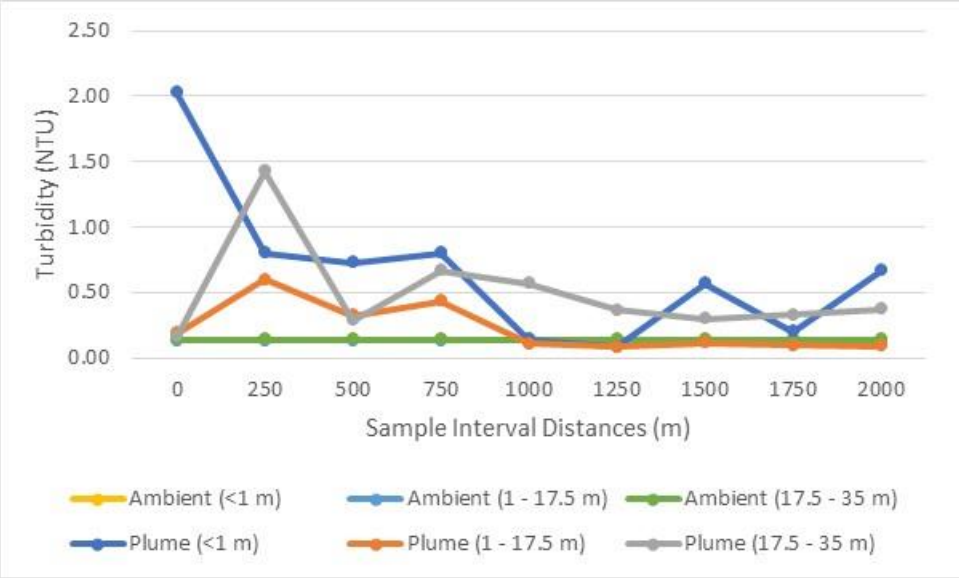


Figure 5.8: Transect Two Turbidity (NTU) Values at 250 m Intervals from Plume Source Compared to Ambient

6. Assessment of Effects

This section outlines the assessment methodology and rationale used to assess the effects of sand extraction operations on water quality within and adjacent to the proposed consent area. As noted in Section 4, the key considerations for this assessment are:

- Effects of discharges of fine sediment or oversized material from sand extraction on ambient water column TSS concentrations and turbidity.

6.1 Assessment Methodology

The assessment methodology determines the sensitivity of the receiving environment, identifies potential impacts and then assesses the magnitude and overall significance of environmental impacts. Impact significance involves a process of determining the acceptability of a predicted impact.

6.1.1 Defining Effect

There are a number of ways that effects may be described and quantified. The Resource Management Act (1991) defines the meaning of effect as:

In this Act, unless the context otherwise requires, the term effect includes—

(a) any positive or adverse effect; and

(b) any temporary or permanent effect; and

(c) any past, present, or future effect; and

(d) any cumulative effect which arises over time or in combination with other effects— regardless of the scale, intensity, duration, or frequency of the effect, and also includes

(e) any potential effect of high probability; and

(f) any potential effect of low probability which has a high potential impact.

The assessment of the significance of effects and determination of residual effects takes account of any planned mitigation measures incorporated into the Project by the nature of its design.

In general terms, effect significance can be characterised as the result of the degree of change predicted (i.e. the magnitude of effect) and the value of the receptor/resource that is subjected to that change. For each impact the likely magnitude of the effect and the sensitivity of the receptor are defined. Criteria for the definition of magnitude and sensitivity are summarised below.

6.1.2 Direct vs Indirect Effects

A direct effect, or first order effect, is any change to the environment, whether adverse or beneficial, wholly or partially, resulting directly from an environmental aspect related to the project. An indirect effect may affect an environmental, social or economic component through a second order effect resulting from a direct effect.

6.1.3 Magnitude Criteria

The assessment of effect magnitude is undertaken by categorising identified effects of the Project as beneficial or adverse. Then effects are categorised as 'major', 'moderate', 'minor' or 'negligible' based on consideration of parameters such as:

- Duration of the effect – ranging from 'well into operation' to 'temporary with no detectable impact'.

- Spatial extent of the effect – for instance, within the site boundary, within district, regionally, nationally, and internationally.
- Reversibility – ranging from 'permanent thus requiring significant intervention to return to baseline' to 'no change'.
- Likelihood – ranging from 'occurring regularly under typical conditions' to 'unlikely to occur'.
- Compliance with legal standards and established professional criteria – ranging from 'substantially exceeds national standards or international guidance' to 'meets the standards' (i.e. effects are not predicted to exceed the relevant standards) presents generic criteria for determining effect magnitude (for adverse impacts). Each detailed assessment in the accompanying AEE defines the effect magnitude in relation to its environmental or social aspect.
- Any other effect characteristics of relevance.

Table 6.1 below presents generic criteria for determining effect magnitude (for adverse effects). Each detailed assessment will define effect magnitude in relation to its environmental or social aspect.

Table 6.1: General Criteria for Determining Effect Magnitude

Category	Description
Major	Fundamental change to the specific conditions assessed resulting in long term or permanent change, typically widespread in nature and requiring significant intervention to return to baseline; would violate national standards or Good International Industry Practice (GIIP) without mitigation.
Moderate	Detectable change to the specific conditions assessed resulting in non-fundamental temporary or permanent change.
Minor	Detectable but small change to the specific conditions assessed.
Negligible	No perceptible change to the specific conditions assessed.

6.1.4 Sensitivity Criteria

Sensitivity is specific to each aspect and the environmental resource or population affected, with criteria developed from baseline information. Using the baseline information, the sensitivity of the receptor is determined – factoring in proximity, number exposed, vulnerability and the presence of receptors on site or the surrounding area. Generic criteria for determining sensitivity of receptors are outlined in Table 6.2 below. Each detailed assessment will define sensitivity in relation to its environmental or social aspect.

Table 6.2: General Criteria for Determining Effect Sensitivity

Category	Description
High	Receptor (human, physical or biological) with little or no capacity to absorb proposed changes
Medium	Receptor with little capacity to absorb proposed changes
Low	Receptor with some capacity to absorb proposed changes
Negligible	Receptor with good capacity to absorb proposed changes

6.1.5 Effect Evaluation

The determination of effect significance involves making a judgment about the importance of project impacts. This is typically done at two levels:

- The significance of project effects factoring in the mitigation inherently within the design of the project; and
- The significance of project effects following the implementation of additional mitigation measures.

The effects are evaluated taking into account the interaction between the magnitude and sensitivity criteria as presented in the effect evaluation matrix in Table 6.3 below.

Table 6.3: Effect Matrix

		Magnitude			
		Major	**Moderate**	**Minor**	**Negligible**
Sensitivity	**High**	Major	Major	Moderate	Negligible
	Medium	Major	Moderate	Minor	Negligible
	Low	Moderate	Minor	Negligible	Negligible
	Negligible	Minor	Negligible	Negligible	Negligible

The objective of the accompanying AEE is to identify the likely significance of effects on the environment and values of the project area. In this assessment of environmental effects, effects that are determined to be 'moderate' or 'major' are deemed significant. Consequently, effects determined to be 'minor' or 'negligible' are not significant. Where impacts are determined to be significant then mitigation measures are required to reduce these effects.

6.2 Assessment of Water Quality Effects from Sand Extraction

The results in Section 5 show minor elevations in TSS (3.5 – 8 mg/l) concentrations and turbidity (1 – 2 NTU) values in the surface water at the point of discharge that rapidly decline back to ambient ranges and previously reported data ranges from the Stats NZ Tatauranga Aotearoa data and Goat Island. This demonstrates that the TSS concentrations and turbidity values found within the plume after 250 m are within ranges expected of a coastal marine environment.

From a temporal perspective, the sand extraction vessel (depending on weather conditions) travels between 2 – 2.5 knots. On the day of sampling the conditions were calm and therefore the sand extraction vessel was travelling at 2.5 knots (1.29 m/s). The time taken for the sand extraction vessel to reach 250 m or ambient levels is just over 3 minutes and for the vessel to reach 2,000 m is 26 minutes. Depending on weather conditions the Williams Fraser may operate between 1.5 to 2.5 knots. This will proportionally extend out the anticipated time for the vessel to reach 250 m or ambient concentrations to just over 5 minutes. In addition, the William Fraser typically will take from the top 100 mm of seabed. At slower speeds the William Fraser may take slightly more sediment compared to when it is operating at the maximum 2.5 knots creating the potential for increased turbidity for any oversize or fine sediment being returned. Given the low TSS and turbidity concentrations observed any increase in concentrations when the vessel is operating at slower speeds is expected to remain low with ambient concentrations reached at a similar distance and time to those observed during sand extraction sampling.

The low TSS concentrations and turbidity values observed at the point of discharge compared to the TSS concentrations from the weirboard discharges (450 – 1,250 mg/l) demonstrates that the majority of material being discharged comprises over-sized material that falls rapidly through the water column. This discharge via the six moon pools at 1.5 m below the sea surface also assists in reducing the spread of the plume and reducing the visual effects of the plume from the sea surface (for full visual effects assessments see the Landscape Assessment of Effects Technical Report and main AEE report). Whilst the spread of the plume is reduced, the concentration within the plume footprint may be increased, as sediment will be released at a point closer to the seabed. However, it is expected that the majority of the discharge will settle back into the trench strip just extracted from and to a lesser extent the surrounding seabed. The slight elevation in TSS concentrations and turbidity values against ambient levels at the point of discharge indicate some residual sediment fines which settle out rapidly through the water column. For any discussion in relation to potential effects on benthic ecology from sand extraction activities, please refer to the Benthic Ecology Technical Report and main AEE report.

As outlined in the main AEE report, the new consent area is 10.4 km long covering a 6.6 km^2 area. Based on the width of the draghead being 1.6 m it is unlikely that it will pass over the exact same dredge path in the same year. In addition, extraction will be balanced as much as practically possible to minimise the potential for

extraction of sand to occur over the same area in any given year. Given the anticipated infrequent level of sand extraction over the same area, and the temporary duration and extent of the plume found, there are no anticipated long-term water quality effects arising from sand extraction operations at Pakiri.

The sand extraction operations within the deeper water Kaipara Ltd offshore consent area will not occur in parallel with sand extraction in the current consented area as the William Fraser is used to extract sand from both consent areas. In addition, even if sand extraction was to occur in parallel, due to the temporary nature and small extent of any plume generated from the current consented area, there are no anticipated cumulative effects on water quality within the area.

In line with the sensitivity criteria outlined in Table 6.2, the marine environment at Pakiri with respect to water column quality can be considered to be of '*good capacity to absorb the proposed changes*' and is therefore considered to be of Negligible Sensitivity. It is evident from the results of the sampling undertaken, that the magnitude of effects from the sand extraction activity, on TSS and turbidity concentrations are Negligible as there are '*no perceptible changes to the conditions assessed'.* As such overall the overall significance of project effects on water quality is determined to be of **Negligible Significance**.

7. Mitigation and Monitoring

As outlined in Section 5, the effects of the sand extraction activity on the receiving water quality is considered to be of Negligible Significance. The utilisation of the six moon pools (as discussed in Section 6) is considered an adequate form of mitigation already. Whilst specific additional mitigation measures are not required to reduce potential effects, recommendations have been provided below in line with good international industry practice.

- All project associated vessels to have and implement a waste management plan compliant with the International Convention for the Prevention of Pollution from Ships (1973/1978) (Marpol 73/78) and its Annexes.
- An Oil Spill Prevention and Response Plan to be produced and implemented prior to sand extraction.
- All project associated vessels to work to Maritime New Zealand standards and the International Maritime Organisation (IMO) standards.
- Non-routine discharges to be kept to a minimum through the use of good practice codes on collision avoidance and vessel manoeuvring. All staff and any contractors to undertake training and maintain good housekeeping standards including appropriate occupational health and safety.

There are no additional specific monitoring recommendations with respect to water quality.

8. Conclusion

This report focused on the potential effects from the sand extraction activity on TSS and turbidity concentrations. Results from sand extraction plume sampling were compared to site specific *in-situ* ambient sampling results, long-term (2 month) ambient results and Auckland Council long term monitoring data at a reference site (Goat Island).

*In-situ a*mbient water quality results for TSS and turbidity prior to sand extraction plume sampling are in line with the long-term monitoring data from the WQM and the Goat Island reference site but less than the *in-situ* results. However, in the context of the New Zealand wide long-term data set for turbidity and TSS within coastal and estuarine monitoring locations (Stats NZ Tatauranga Aotearoa), both the *in-situ*, the WQM and the Goat Island reference site data are below the median values recorded for coastal environments.

Sand extraction plume results show minor elevations in TSS (3.5 – 8 mg/l) concentrations and turbidity (1 – 2 NTU) values at the surface at the point of discharge that rapidly decline back to ambient levels over 250 m (just over three minutes), to between 2-4 mg/l and 0.15 – 0.5 NTU respectively, for the remainder of the two-kilometre distance. The low TSS concentrations and turbidity values observed at the point of discharge compared to the TSS concentrations from the weirboard discharges (450 – 1,250 mg/l) demonstrates that the majority of material being discharged comprises over-sized material that falls rapidly through the water column. This discharge via the six moon pools at 1.5 m below the sea surface also assists in reducing the spread of the plume and reducing the visual effects of the plume from the sea surface. The slight elevation in TSS concentrations and turbidity values against ambient levels at the point of discharge indicate some residual sediment fines which settle out rapidly through the water column. The TSS concentrations and turbidity values observed after 250 m are below the observed concentrations from the Stats NZ Tatauranga Aotearoa data, demonstrating they are within ranges expected of a coastal marine environment.

In consideration of the limited temporal and spatial extent of any plume generated from sand extraction activities at Mangawhai-Pakiri this report has concluded that the effects to water quality from both the William Fraser are of **Negligible Significance.**

9. References

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Appendix A. Sediment Quality Results and Comparison to ANZ Guidelines (2018)

Certificate of Analysis

Client:	McCallum Bros Limited	**Lab No:**	2165757 SPv1
Contact:	S Elstob [redacted]	**Date Received:**	26-Apr-2019
		Date Reported:	09-May-2019
		Quote No:	98695
		Order No:	Pakiri Project
		Client Reference:	Heavy Metal Sediment Samples
		Submitted By:	S Elstob

Sample Type: Sediment

Sample Name:		Pakiri River 5m 16-Apr-2019 10:00 am	Pakiri River 20m 16-Apr-2019 10:15 am	Poutawa Stream 5m 16-Apr-2019 11:30 am	Poutawa Stream 20m 16-Apr-2019 11:45 am	Te Arai Stream 5m 16-Apr-2019 12:30 pm
Lab Number:		2165757.1	2165757.2	2165757.3	2165757.4	2165757.5
Individual Tests						
Dry Matter	g/100g as rcvd	81	79	83	80	82
Heavy metals, trace As,Cd,Cr,Cu,Ni,Pb,Zn,Hg						
Total Recoverable Arsenic	mg/kg dry wt	5.9	6.2	6.2	6.2	5.9
Total Recoverable Cadmium	mg/kg dry wt	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Total Recoverable Chromium	mg/kg dry wt	10.8	11.7	9.4	12.4	10.5
Total Recoverable Copper	mg/kg dry wt	0.5	0.5	0.4	0.4	0.6
Total Recoverable Lead	mg/kg dry wt	0.89	1.79	0.84	1.48	1.06
Total Recoverable Mercury	mg/kg dry wt	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Total Recoverable Nickel	mg/kg dry wt	2.6	2.4	2.3	2.8	2.4
Total Recoverable Zinc	mg/kg dry wt	10.6	10.7	9.4	11.7	17.9
Polycyclic Aromatic Hydrocarbons Trace in Soil						
1-Methylnaphthalene	mg/kg dry wt	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
2-Methylnaphthalene	mg/kg dry wt	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Acenaphthene	mg/kg dry wt	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Acenaphthylene	mg/kg dry wt	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Anthracene	mg/kg dry wt	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo[a]anthracene	mg/kg dry wt	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo[a]pyrene (BAP)	mg/kg dry wt	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo[b]fluoranthene + Benzo[j] fluoranthene	mg/kg dry wt	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo[e]pyrene	mg/kg dry wt	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo[g,h,i]perylene	mg/kg dry wt	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo[k]fluoranthene	mg/kg dry wt	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Chrysene	mg/kg dry wt	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Dibenzo[a,h]anthracene	mg/kg dry wt	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoranthene	mg/kg dry wt	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluorene	mg/kg dry wt	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Indeno(1,2,3-c,d)pyrene	mg/kg dry wt	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Naphthalene	mg/kg dry wt	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Perylene	mg/kg dry wt	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Phenanthrene	mg/kg dry wt	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo[a]pyrene Potency Equivalency Factor (PEF) NES	mg/kg dry wt	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Benzo[a]pyrene Toxic Equivalence (TEF)	mg/kg dry wt	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
Pyrene	mg/kg dry wt	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Total of Reported PAHs in Soil*	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

ILAC-MRA IANZ ACCREDITED LABORATORY

This Laboratory is accredited by International Accreditation New Zealand (IANZ), which represents New Zealand in the International Laboratory Accreditation Cooperation (ILAC). Through the ILAC Mutual Recognition Arrangement (ILAC-MRA) this accreditation is internationally recognised.
The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked *, which are not accredited.

Sample Type: Sediment						
Sample Name:		Pakiri River 5m 16-Apr-2019 10:00 am	Pakiri River 20m 16-Apr-2019 10:15 am	Poutawa Stream 5m 16-Apr-2019 11:30 am	Poutawa Stream 20m 16-Apr-2019 11:45 am	Te Arai Stream 5m 16-Apr-2019 12:30 pm
Lab Number:		2165757.1	2165757.2	2165757.3	2165757.4	2165757.5
Polychlorinated Biphenyls Trace in Soil						
PCB-18	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-28	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-31	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-44	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-49	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-52	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-60	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-77	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-81	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-86	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-101	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-105	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-110	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-114	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-118	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-121	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-123	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-126	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-128	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-138	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-141	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-149	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-151	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-153	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-156	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-157	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-159	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-167	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-169	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-170	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-180	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-189	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-194	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-206	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
PCB-209	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Mono-Ortho PCB Toxic Equivalence (TEF)*	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Non-Ortho PCB Toxic Equivalence (TEF)*	mg/kg dry wt	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Total PCB (Sum of 35 congeners)	mg/kg dry wt	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04

Sample Name:		Te Arai Stream 20m 16-Apr-2019 1:00 pm				
Lab Number:		2165757.6				
Individual Tests						
Dry Matter	g/100g as rcvd	80	-	-	-	-
Heavy metals, trace As,Cd,Cr,Cu,Ni,Pb,Zn,Hg						
Total Recoverable Arsenic	mg/kg dry wt	8.8	-	-	-	-
Total Recoverable Cadmium	mg/kg dry wt	0.011	-	-	-	-
Total Recoverable Chromium	mg/kg dry wt	14.1	-	-	-	-
Total Recoverable Copper	mg/kg dry wt	0.5	-	-	-	-
Total Recoverable Lead	mg/kg dry wt	1.70	-	-	-	-
Total Recoverable Mercury	mg/kg dry wt	< 0.02	-	-	-	-
Total Recoverable Nickel	mg/kg dry wt	2.8	-	-	-	-

Sample Type: Sediment						
Sample Name:		Te Arai Stream 20m 16-Apr-2019 1:00 pm				
Lab Number:		2165757.6				
Heavy metals, trace As,Cd,Cr,Cu,Ni,Pb,Zn,Hg						
Total Recoverable Zinc	mg/kg dry wt	12.4	-	-	-	-
Polycyclic Aromatic Hydrocarbons Trace in Soil						
1-Methylnaphthalene	mg/kg dry wt	< 0.002	-	-	-	-
2-Methylnaphthalene	mg/kg dry wt	< 0.002	-	-	-	-
Acenaphthene	mg/kg dry wt	< 0.002	-	-	-	-
Acenaphthylene	mg/kg dry wt	< 0.002	-	-	-	-
Anthracene	mg/kg dry wt	< 0.002	-	-	-	-
Benzo[a]anthracene	mg/kg dry wt	< 0.002	-	-	-	-
Benzo[a]pyrene (BAP)	mg/kg dry wt	< 0.002	-	-	-	-
Benzo[b]fluoranthene + Benzo[j] fluoranthene	mg/kg dry wt	< 0.002	-	-	-	-
Benzo[e]pyrene	mg/kg dry wt	< 0.002	-	-	-	-
Benzo[g,h,i]perylene	mg/kg dry wt	< 0.002	-	-	-	-
Benzo[k]fluoranthene	mg/kg dry wt	< 0.002	-	-	-	-
Chrysene	mg/kg dry wt	< 0.002	-	-	-	-
Dibenzo[a,h]anthracene	mg/kg dry wt	< 0.002	-	-	-	-
Fluoranthene	mg/kg dry wt	< 0.002	-	-	-	-
Fluorene	mg/kg dry wt	< 0.002	-	-	-	-
Indeno(1,2,3-c,d)pyrene	mg/kg dry wt	< 0.002	-	-	-	-
Naphthalene	mg/kg dry wt	< 0.010	-	-	-	-
Perylene	mg/kg dry wt	< 0.002	-	-	-	-
Phenanthrene	mg/kg dry wt	< 0.002	-	-	-	-
Benzo[a]pyrene Potency Equivalency Factor (PEF) NES	mg/kg dry wt	< 0.005	-	-	-	-
Benzo[a]pyrene Toxic Equivalence (TEF)	mg/kg dry wt	< 0.006	-	-	-	-
Pyrene	mg/kg dry wt	< 0.002	-	-	-	-
Total of Reported PAHs in Soil*	mg/kg	< 0.3	-	-	-	-
Polychlorinated Biphenyls Trace in Soil						
PCB-18	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-28	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-31	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-44	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-49	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-52	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-60	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-77	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-81	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-86	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-101	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-105	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-110	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-114	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-118	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-121	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-123	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-126	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-128	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-138	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-141	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-149	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-151	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-153	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-156	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-157	mg/kg dry wt	< 0.0010	-	-	-	-

Sample Type: Sediment						
Sample Name:		Te Arai Stream 20m 16-Apr-2019 1:00 pm				
Lab Number:		2165757.6				
Polychlorinated Biphenyls Trace in Soil						
PCB-159	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-167	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-169	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-170	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-180	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-189	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-194	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-206	mg/kg dry wt	< 0.0010	-	-	-	-
PCB-209	mg/kg dry wt	< 0.0010	-	-	-	-
Mono-Ortho PCB Toxic Equivalence (TEF)*	mg/kg dry wt	< 0.0010	-	-	-	-
Non-Ortho PCB Toxic Equivalence (TEF)*	mg/kg dry wt	< 0.0010	-	-	-	-
Total PCB (Sum of 35 congeners)	mg/kg dry wt	< 0.04	-	-	-	-

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively clean matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis.
Unless otherwise indicated, analyses were performed at Hill Laboratories, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Sediment			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Environmental Solids Sample Drying*	Air dried at 35°C Used for sample preparation. May contain a residual moisture content of 2-5%.	-	1-6
Environmental Solids Sample Preparation	Air dried at 35°C and sieved, <2mm fraction. Used for sample preparation. May contain a residual moisture content of 2-5%.	-	1-6
Soil Prep Dry for Organics,Trace*	Air dried at 35°C Used for sample preparation. May contain a residual moisture content of 2-5%.	-	1-6
Heavy metals, trace As,Cd,Cr,Cu,Ni,Pb,Zn,Hg	Dried sample, <2mm fraction. Nitric/Hydrochloric acid digestion, ICP-MS, trace level.	0.010 - 0.4 mg/kg dry wt	1-6
Polycyclic Aromatic Hydrocarbons Trace in Soil*	Sonication extraction, SPE cleanup, GC-MS SIM analysis US EPA 8270C. Tested on as received sample [KBIs:5784,4273,2695]	-	1-6
Polychlorinated Biphenyls Trace in Soil*	Sonication extraction, SPE cleanup, GPC cleanup (if required), GC-MS analysis. Tested on dried sample	0.0010 - 0.02 mg/kg dry wt	1-6
Dry Matter (Env)	Dried at 103°C for 4-22hr (removes 3-5% more water than air dry) , gravimetry. (Free water removed before analysis, non-soil objects such as sticks, leaves, grass and stones also removed). US EPA 3550.	0.10 g/100g as rcvd	1-6
Total Recoverable digestion	Nitric / hydrochloric acid digestion. US EPA 200.2.	-	1-6

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Samples are held at the laboratory after reporting for a length of time depending on the preservation used and the stability of the analytes being tested. Once the storage period is completed the samples are discarded unless otherwise advised by the client.

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Ara Heron BSc (Tech)
Client Services Manager - Environmental

Appendix B. Water Quality Results – Ambient and Sand Extraction Plume Sampling

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Certificate of Analysis

Client:	McCallum Bros Limited	**Lab No:**	2291273	SPv1
Contact:	S Elstob [redacted]	**Date Received:**	11-Dec-2019	
		Date Reported:	13-Dec-2019	
		Quote No:	97493	
		Order No:		
		Client Reference:	Offshore 2	
		Submitted By:	S Elstob	

Sample Type: Saline

	Sample Name:	Offshore 2 0m SW 09-Dec-2019	Offshore 2 0m MW 09-Dec-2019	Offshore 2 0m BW 09-Dec-2019	Offshore 2 250m SW 09-Dec-2019	Offshore 2 250m MW 09-Dec-2019
	Lab Number:	2291273.1	2291273.2	2291273.3	2291273.4	2291273.5
Total Suspended Solids	g/m³	2.8	3.5	3.5	2.6	2.9

	Sample Name:	Offshore 2 250m BW 09-Dec-2019	Offshore 2 500m SW 09-Dec-2019	Offshore 2 500m MW 09-Dec-2019	Offshore 2 500m BW 09-Dec-2019	Offhsore 2 750m SW 09-Dec-2019
	Lab Number:	2291273.6	2291273.7	2291273.8	2291273.9	2291273.10
Total Suspended Solids	g/m³	1.5	2.1	2.2	2.7	3.7

	Sample Name:	Offhsore 2 750m MW 09-Dec-2019	Offhsore 2 750m BW 09-Dec-2019	Offshore 2 1000m SW 09-Dec-2019	Offshore 2 1000m MW 09-Dec-2019	Offshore 2 1000m BW 09-Dec-2019
	Lab Number:	2291273.11	2291273.12	2291273.13	2291273.14	2291273.15
Total Suspended Solids	g/m³	1.8	2.5	3.3	1.8	3.1

	Sample Name:	Offshore 2 1250m SW 09-Dec-2019	Offshore 2 1250m MW 09-Dec-2019	Offshore 2 1250m BW 09-Dec-2019	Offshore 2 1500m SW 09-Dec-2019	Offshore 2 1500m MW 09-Dec-2019
	Lab Number:	2291273.16	2291273.17	2291273.18	2291273.19	2291273.20
Total Suspended Solids	g/m³	4.4	1.5	4.6	2.4	3.7

	Sample Name:	Offshore 2 1500m BW 09-Dec-2019	Offshore 2 1750m SW 09-Dec-2019	Offshore 2 1750m MW 09-Dec-2019	Offshore 2 1750m BW 09-Dec-2019	Offshore 2 2000m SW 09-Dec-2019
	Lab Number:	2291273.21	2291273.22	2291273.23	2291273.24	2291273.25
Total Suspended Solids	g/m³	4.0	2.0	1.7	4.3	1.9

	Sample Name:	Offshore 2 2000m MW 09-Dec-2019	Offshore 2 2000m BW 09-Dec-2019			
	Lab Number:	2291273.26	2291273.27			
Total Suspended Solids	g/m³	2.5	2.7	-	-	-

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Laboratories, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Total Suspended Solids	Saline sample. Filtration of a 2L sample using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) 23rd ed. 2017.	0.5 g/m³	1-27

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Certificate of Analysis

Client:	McCallum Bros Limited	**Lab No:**	2291274	SPv1
Contact:	S Elstob [redacted]	**Date Received:**	11-Dec-2019	
		Date Reported:	12-Dec-2019	
		Quote No:	97493	
		Order No:		
		Client Reference:	Offshore	
		Submitted By:	S Elstob	

Sample Type: Saline

	Sample Name:	Offshore Ambients SW 09-Dec-2019	Offshore Ambients BW 09-Dec-2019	Offshore Ambients MW 09-Dec-2019	Offshore 0m MW 09-Dec-2019	Offshore 0m SW 09-Dec-2019
	Lab Number:	2291274.1	2291274.2	2291274.3	2291274.4	2291274.5
Total Suspended Solids	g/m³	2.9	2.4	2.9	2.8	8.2

	Sample Name:	Offshore 0m BW 09-Dec-2019	Offshore 250m BW 09-Dec-2019	Offshore 250m MW 09-Dec-2019	Offshore 250m SW 09-Dec-2019	Offshore 750m SW 09-Dec-2019
	Lab Number:	2291274.6	2291274.7	2291274.8	2291274.9	2291274.10
Total Suspended Solids	g/m³	3.0	2.7	2.7	2.2	3.0

	Sample Name:	Offshore 750m MW 09-Dec-2019	Offshore 750m BW 09-Dec-2019	Offshore 1000m SW 09-Dec-2019	Offshore 1000m MW 09-Dec-2019	Offshore 1000m BW 09-Dec-2019
	Lab Number:	2291274.11	2291274.12	2291274.13	2291274.14	2291274.15
Total Suspended Solids	g/m³	4.2	1.6	2.8	3.9	1.5

	Sample Name:	Offshore 1250m SW 09-Dec-2019	Offshore 1250m MW 09-Dec-2019	Offshore 1250m BW 09-Dec-2019	Offshore 1500m SW 09-Dec-2019	Offshore 1500m MW 09-Dec-2019
	Lab Number:	2291274.16	2291274.17	2291274.18	2291274.19	2291274.20
Total Suspended Solids	g/m³	3.2	2.3	2.2	3.2	1.9

	Sample Name:	Offshore 1500m BW 09-Dec-2019	Offshore 1750m SW 09-Dec-2019	Offshore 1750m MW 09-Dec-2019	Offshore 1750m BW 09-Dec-2019	Offshore 2000m SW 09-Dec-2019
	Lab Number:	2291274.21	2291274.22	2291274.23	2291274.24	2291274.25
Total Suspended Solids	g/m³	3.3	3.8	2.9	2.8	2.4

	Sample Name:	Offshore 2000m MW 09-Dec-2019	Offshore 2000m BW 09-Dec-2019			
	Lab Number:	2291274.26	2291274.27			
Total Suspended Solids	g/m³	2.5	2.3	-	-	-

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Laboratories, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Total Suspended Solids	Saline sample. Filtration of a 2L sample using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) 23rd ed. 2017.	0.5 g/m³	1-27

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Client:	McCallum Bros Limited	**Lab No:**	2291275	SPv1
Contact:	S Elstob [redacted]	**Date Received:**	11-Dec-2019	
		Date Reported:	13-Dec-2019	
		Quote No:	97493	
		Order No:		
		Client Reference:		
		Submitted By:	S Elstob	

Sample Type: Saline

Sample Name:	Inshore Ambient SW 09-Dec-2019	Inshore Ambient MW 09-Dec-2019	Inshore Ambient BW 09-Dec-2019	Inshore 0m SW 09-Dec-2019	Inshore 0m MW 09-Dec-2019
Lab Number:	2291275.1	2291275.2	2291275.3	2291275.4	2291275.5
Total Suspended Solids g/m³	2.8	2.4	7.4	4.2	2.4

Sample Name:	Inshore 0m BW 09-Dec-2019	Inshore 100m SW 09-Dec-2019	Inshore 100m MW 09-Dec-2019	Inshore 100m BW 09-Dec-2019	Inshore 200m SW 09-Dec-2019
Lab Number:	2291275.6	2291275.7	2291275.8	2291275.9	2291275.10
Total Suspended Solids g/m³	1.8	2.3	2.4	1.6	2.3

Sample Name:	Inshore 200m MW 09-Dec-2019	Inshore 200m BW 09-Dec-2019	Inshore 300m SW 09-Dec-2019	Inshore 300m MW 09-Dec-2019	Inshore 300m BW 09-Dec-2019
Lab Number:	2291275.11	2291275.12	2291275.13	2291275.14	2291275.15
Total Suspended Solids g/m³	3.2	1.9	2.1	4.2	1.5

Sample Name:	Inshore 400m SW 09-Dec-2019	Inshore 400m MW 09-Dec-2019	Inshore 400m BW 09-Dec-2019	Inshore 500m SW 09-Dec-2019	Inshore 500m MW 09-Dec-2019
Lab Number:	2291275.16	2291275.17	2291275.18	2291275.19	2291275.20
Total Suspended Solids g/m³	2.0	2.3	2.0	2.6	4.7

Sample Name:	Inshore 500m BW 09-Dec-2019	Inshore 600m SW 09-Dec-2019	Inshore 600m MW 09-Dec-2019	Inshore 600m BW 09-Dec-2019	Inshore 700m SW 09-Dec-2019
Lab Number:	2291275.21	2291275.22	2291275.23	2291275.24	2291275.25
Total Suspended Solids g/m³	4.2	3.2	3.6	6.9	3.2

Sample Name:	Inshore 700m MW 09-Dec-2019	Inshore 700m BW 09-Dec-2019	Inshore 900m SW 09-Dec-2019	Inshore 900m MW 09-Dec-2019	Inshore 900m BW 09-Dec-2019
Lab Number:	2291275.26	2291275.27	2291275.28	2291275.29	2291275.30
Total Suspended Solids g/m³	2.8	4.8	3.5	4.7	5.3

Sample Name:	Inshore 1100m SW 09-Dec-2019	Inshore 1100m MW 09-Dec-2019	Inshore 1100m BW 09-Dec-2019		
Lab Number:	2291275.31	2291275.32	2291275.33		
Total Suspended Solids g/m³	5.2	3.6	6.3	-	-

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Laboratories, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Total Suspended Solids	Saline sample. Filtration of a 2L sample using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) 23rd ed. 2017.	0.5 g/m³	1-33

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Client:	McCallum Bros Limited	**Lab No:**	2291276	SPv1
Contact:	S Elstob [redacted]	**Date Received:**	11-Dec-2019	
		Date Reported:	13-Dec-2019	
		Quote No:	97493	
		Order No:		
		Client Reference:	Weir Discharge	
		Submitted By:	S Elstob	

Sample Type: Saline

Sample Name:	Weir Discharge Offshore 1 09-Dec-2019	Weir Discharge Offshore 2 09-Dec-2019	Weir Discharge Offshore 3 09-Dec-2019	Weir Discharge Inshore 1 09-Dec-2019	Weir Discharge Inshore 2 09-Dec-2019
Lab Number:	2291276.1	2291276.2	2291276.3	2291276.4	2291276.5
Total Suspended Solids g/m³	450	1,010	1,240	192	230

Sample Name:	Weir Discharge Inshore 3 09-Dec-2019				
Lab Number:	2291276.6				
Total Suspended Solids g/m³	440	-	-	-	-

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Laboratories, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Total Suspended Solids	Saline sample. Filtration of a 2L sample using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) 23rd ed. 2017.	0.5 g/m³	1-6

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Dates of testing are available on request. Please contact the laboratory for more information.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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[redacted]
Ara Heron BSc (Tech)
Client Services Manager - Environmental

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Client:	McCallum Bros Limited	**Lab No:**	2296184	SPv1
Contact:	S Elstob [redacted]	**Date Received:**	19-Dec-2019	
		Date Reported:	24-Dec-2019	
		Quote No:	97493	
		Order No:		
		Client Reference:		
		Submitted By:	S Elstob	

Sample Type: Saline

Sample Name:	Weir Board Discharge 1 Offshore 17-Dec-2019	Weir Board Discharge 2 Offshore 17-Dec-2019	Weir Board Discharge 3 Offshore 17-Dec-2019	Weir Board Discharge 1 Inshore 16-Dec-2019	Weir Board Discharge 2 Inshore 16-Dec-2019
Lab Number:	2296184.1	2296184.2	2296184.3	2296184.4	2296184.5
Particle size analysis	See attached report	See attached report	See attached report	See attached report	See attached report

Sample Name:	Weir Board Discharge 3 Inshore 16-Dec-2019				
Lab Number:	2296184.6				
Particle size analysis	See attached report	-	-	-	-

Analyst's Comments

Appendix No.1 - NIWA Report

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Laboratories, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Saline

Test	Method Description	Default Detection Limit	Sample No
Particle size analysis	Particle size data collected using the Ankersmid WCIS-100 "time-of-transition" (TOT) stream-scanning laser particle sizer. Typically, 150,000-250000 particles are counted per sample. Particle volumes were calculated from the measured particle diameters, from which a particle-size volume distribution for each sample was obtained. Traceable standards are used to ensure the reliability of particle size results. Subcontracted to NIWA, Hamilton.	-	1-6

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Dates of testing are available on request. Please contact the laboratory for more information.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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[redacted]
Graham Corban MSc Tech (Hons)
Client Services Manager - Environmental

PARTICLE SIZE ANALYSIS RESULTS

Client:	Hill Laboratories (Hamilton)	Sample Received:	20/12/2019
Address:	[redacted]	NIWA ref.:	EU1 - 6, sfn 8655
	[redacted]	Analysis date:	23/12/2019
	[redacted]	System:	EyeTech (AmbiValue)
	.....	Operator:	Ron Ovenden
	.....	Report Produced by:	Ron Ovenden
	.....	Signed:	[redacted]

Client reference:	Job #229 6184.1 to 229 6184.6
Purchase Order:	153052 .....
Attention:	A. Heron.....

Customer:	Hill Laboratories		
Setup created by:	user	Setup Date:	Dec 11 2018 14:45PM (GMT+-11)
Measured by:	user	Measure Date:	Dec 23 2019 11:40AM (GMT+-11)
Printed by:	user	Print Date:	Dec 23 2019 11:40AM (GMT+-11)
System Model:	EYE TECH S/N:	SW Version:	2.1.1.3

Sample Name:	**229 6184.1(1)**	Result ID#:	**3262**
Sample Type:	Particles in liquid	Setup Name:	B-lens (v10)
Server Name:	niwa-1012125		

Comments: Weir Board Discharge 1 Offshore. 17/12/19.
EU1, not ultrasounded

Laser lens:	B100	Video lens:	DW
Meas. Range:	10.0 - 3600.0	Stirrer:	None
Meas. Time:	400 Sec.	Status:	Standard
Cell Type:	ACM-104A Liquid flow (10x10mm)	Accessories:	EyeFlow
Calibration mode:	Not Active	Particles existence:	Active. Stabilization time (10 sec.)
Illumination:	Exposure: 1, Intensity: 4	Image control:	Gain:0, Contrast:181, Brightness:37
Cleaning Test:	Not Active		

Meas. Mode: AND:Time(900 Sec.) Aborted

Preparation instructions: Ensure sample is not too cold or you may get condensation on the outside of the flowcell

Statistics Info (ID#:3262)

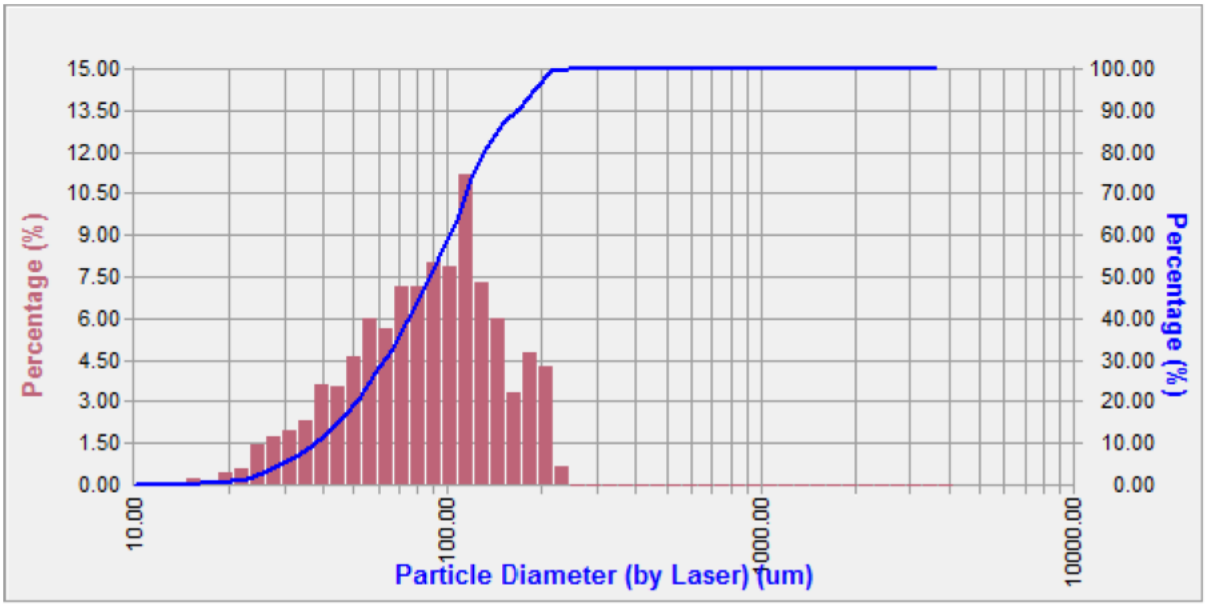
Concentration:	6.7e+003 #/ml	Concentration:	3.5e+002 ppm
Solids:	3.54e-002	Specific Area:	0.00031 cm2/ml

Mean diameter by:	Size(um)	STD(um)	Conf.(%)	Dimension	D10(um)	D50(um)	D90(um)	Mode(um)
Length, D[1,0]	32.84	22.13	99.66	Number	13.68	26.47	59.04	24.14
Length weighted, D[2,1]	47.75	31.80	99.69	Length	18.33	38.10	91.60	24.14
Surface Weighted, D[3,2]	68.93	41.15	99.90	Surface	25.31	59.04	125.33	39.26
Volume Weighted, D[4,3]	93.50	46.83	99.99	Volume	38.10	86.95	168.36	111.37

Volume Histogram and Cumulative Undersize (ID#:3262)

Mean: 93.50 um STD: 46.83 um Conf.: 99.99 %

D10 : 38.10 um D50: 86.95 um D90: 168.36 um



Volume Particle Diameter (by Laser) Percentage Table (ID#:3262)

Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)
0.00	10.00		30.00	62.52		55.00	93.93		80.00	129.98
5.00	29.96		35.00	68.34		60.00	100.91		85.00	145.10
10.00	38.10		40.00	74.16		65.00	107.88		90.00	168.36
15.00	43.92		45.00	79.97		70.00	113.70		95.00	189.30
20.00	50.89		50.00	86.95		75.00	120.68		100.00	218.37
25.00	56.71									

Volume Particle Diameter (by Laser) Ranges (Wentworth Classes) Table (ID#:3262)

Range(um)	Under(%)	Local(%)	Over(%)
10.0-15.6	0.00	0.31	99.69
15.6-31.2	0.31	5.74	93.95
31.2-62.5	6.05	23.89	70.06
62.5-125.0	29.94	46.87	23.19

Range(um)	Under(%)	Local(%)	Over(%)
125.0-250.0	76.81	23.19	0.00
250.0-500.0	100.00	0.00	0.00
500.0-1000.0	100.00	0.00	0.00
1000.0-2000.0	100.00	0.00	0.00

Volume Particle Diameter (by Laser) Ranges (detailed classes) Table (ID#:3262)

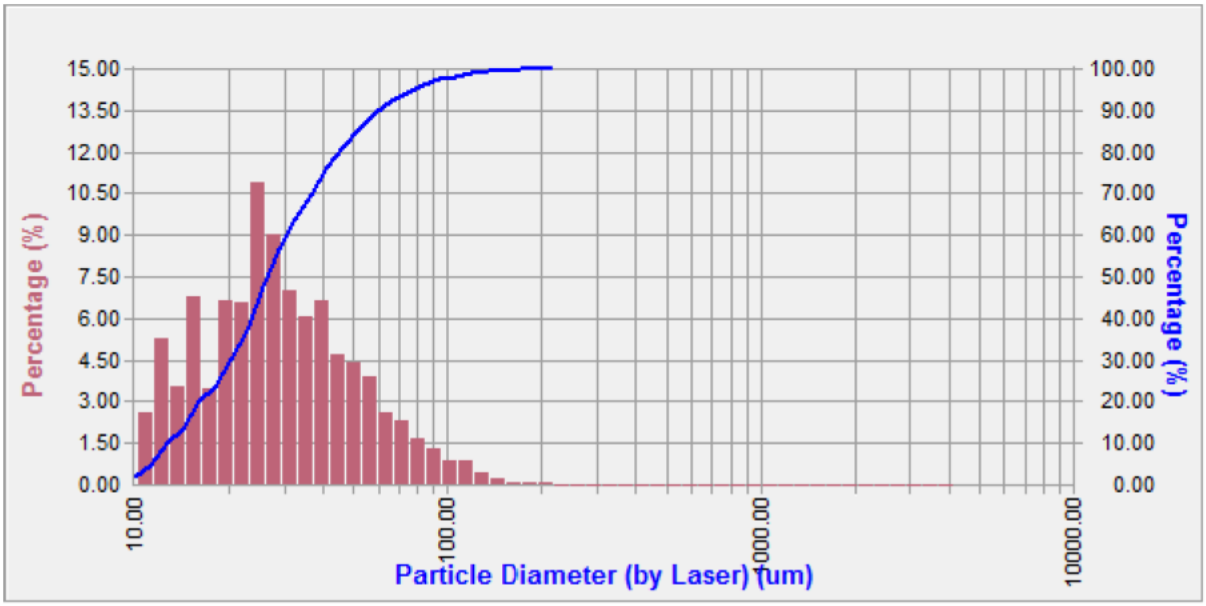
Range(um)	Under(%)	Local(%)	Over(%)
10.0-12.0	0.00	0.07	99.93
12.0-14.0	0.07	0.14	99.79
14.0-16.0	0.21	0.10	99.69
16.0-18.0	0.31	0.29	99.40
18.0-20.0	0.60	0.42	98.98
20.0-25.0	1.02	1.49	97.50
25.0-30.0	2.50	2.91	94.59
30.0-35.0	5.41	2.83	91.76
35.0-40.0	8.24	3.40	88.36
40.0-45.0	11.64	3.58	84.78
45.0-50.0	15.22	4.59	80.19
50.0-55.0	19.81	4.01	76.18
55.0-60.0	23.82	4.09	72.10
60.0-65.0	27.90	4.51	67.58
65.0-70.0	32.42	3.98	63.60
70.0-75.0	36.40	4.13	59.46
75.0-80.0	40.54	4.75	54.71
80.0-85.0	45.29	3.32	51.39
85.0-90.0	48.61	3.22	48.17
90.0-95.0	51.83	3.93	44.24
95.0-100.0	55.76	3.53	40.71
100.0-110.0	59.29	7.23	33.49
110.0-120.0	66.51	8.42	25.07
120.0-130.0	74.93	5.26	19.80
130.0-140.0	80.20	3.51	16.30
140.0-150.0	83.70	3.30	13.00
150.0-160.0	87.00	1.52	11.48
160.0-170.0	88.52	2.40	9.08
170.0-180.0	90.92	2.43	6.64
180.0-190.0	93.36	1.74	4.90
190.0-200.0	95.10	3.13	1.77
200.0-220.0	98.23	1.77	0.00
220.0-240.0	100.00	0.00	0.00
240.0-260.0	100.00	0.00	0.00
260.0-280.0	100.00	0.00	0.00
280.0-300.0	100.00	0.00	0.00
300.0-320.0	100.00	0.00	0.00
320.0-340.0	100.00	0.00	0.00
340.0-360.0	100.00	0.00	0.00
360.0-380.0	100.00	0.00	0.00
380.0-400.0	100.00	0.00	0.00
400.0-420.0	100.00	0.00	0.00
420.0-440.0	100.00	0.00	0.00
440.0-460.0	100.00	0.00	0.00
460.0-480.0	100.00	0.00	0.00
480.0-500.0	100.00	0.00	0.00
500.0-550.0	100.00	0.00	0.00

Range(um)	Under(%)	Local(%)	Over(%)
550.0-600.0	100.00	0.00	0.00
600.0-650.0	100.00	0.00	0.00
650.0-700.0	100.00	0.00	0.00
700.0-750.0	100.00	0.00	0.00
750.0-800.0	100.00	0.00	0.00
800.0-850.0	100.00	0.00	0.00
850.0-900.0	100.00	0.00	0.00
900.0-950.0	100.00	0.00	0.00
950.0-1000.0	100.00	0.00	0.00
1000.0-1050.0	100.00	0.00	0.00
1050.0-1100.0	100.00	0.00	0.00
1100.0-1150.0	100.00	0.00	0.00
1150.0-1200.0	100.00	0.00	0.00
1200.0-1250.0	100.00	0.00	0.00
1250.0-1300.0	100.00	0.00	0.00
1300.0-1350.0	100.00	0.00	0.00
1350.0-1400.0	100.00	0.00	0.00
1400.0-1450.0	100.00	0.00	0.00
1450.0-1500.0	100.00	0.00	0.00
1500.0-1550.0	100.00	0.00	0.00
1550.0-1600.0	100.00	0.00	0.00
1600.0-1650.0	100.00	0.00	0.00
1650.0-1700.0	100.00	0.00	0.00
1700.0-1750.0	100.00	0.00	0.00
1750.0-1800.0	100.00	0.00	0.00
1800.0-1850.0	100.00	0.00	0.00
1850.0-1900.0	100.00	0.00	0.00
1900.0-1950.0	100.00	0.00	0.00
1950.0-2000.0	100.00	0.00	0.00

Number Histogram and Cumulative Undersize (ID#:3262)

Mean: 32.84 um STD: 22.13 um Conf.: 99.66 %

D10 : 13.68 um D50: 26.47 um D90: 59.04 um



Number Particle Diameter (by Laser) Percentage Table (ID#:3262)

Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)
0.00	10.00		30.00	19.49		55.00	28.80		80.00	43.92
5.00	11.35		35.00	21.82		60.00	31.12		85.00	50.89
10.00	13.68		40.00	22.98		65.00	33.45		90.00	59.04
15.00	14.84		45.00	25.31		70.00	36.94		95.00	76.48
20.00	16.00		50.00	26.47		75.00	40.43		100.00	218.37
25.00	18.33									

Number Particle Diameter (by Laser) Ranges (Wentworth Classes) Table (ID#:3262)

Range(um)	Under(%)	Local(%)	Over(%)
10.0-15.6	0.00	17.47	82.53
15.6-31.2	17.47	44.42	38.11
31.2-62.5	61.89	29.29	8.82
62.5-125.0	91.19	8.12	0.69

Range(um)	Under(%)	Local(%)	Over(%)
125.0-250.0	99.30	0.70	0.00
250.0-500.0	100.00	0.00	0.00
500.0-1000.0	100.00	0.00	0.00
1000.0-2000.0	100.00	0.00	0.00

Number Particle Diameter (by Laser) Ranges (detailed classes) Table (ID#:3262)

Range(um)	Under(%)	Local(%)	Over(%)
10.0-12.0	0.00	7.63	92.37
12.0-14.0	7.63	6.54	85.83
14.0-16.0	14.17	3.29	82.54
16.0-18.0	17.46	6.81	75.73
18.0-20.0	24.27	6.56	69.17
20.0-25.0	30.83	13.90	55.27
25.0-30.0	44.72	14.90	40.37
30.0-35.0	59.63	8.55	31.82
35.0-40.0	68.17	6.91	24.92
40.0-45.0	75.08	5.17	19.75
45.0-50.0	80.26	4.66	15.08
50.0-55.0	84.91	2.97	12.12
55.0-60.0	87.88	2.33	9.79
60.0-65.0	90.22	1.99	7.79
65.0-70.0	92.21	1.37	6.42
70.0-75.0	93.57	1.18	5.25
75.0-80.0	94.76	1.08	4.15
80.0-85.0	95.85	0.62	3.53
85.0-90.0	96.46	0.53	3.01
90.0-95.0	97.00	0.53	2.48
95.0-100.0	97.52	0.41	2.07
100.0-110.0	97.93	0.67	1.40
110.0-120.0	98.61	0.59	0.80
120.0-130.0	99.20	0.29	0.51
130.0-140.0	99.48	0.16	0.36
140.0-150.0	99.64	0.11	0.25
150.0-160.0	99.75	0.05	0.20
160.0-170.0	99.81	0.05	0.14
170.0-180.0	99.84	0.06	0.10
180.0-190.0	99.92	0.02	0.07
190.0-200.0	99.93	0.05	0.02
200.0-220.0	99.97	0.03	0.00
220.0-240.0	100.00	0.00	0.00
240.0-260.0	100.00	0.00	0.00
260.0-280.0	100.00	0.00	0.00
280.0-300.0	100.00	0.00	0.00
300.0-320.0	100.00	0.00	0.00
320.0-340.0	100.00	0.00	0.00
340.0-360.0	100.00	0.00	0.00
360.0-380.0	100.00	0.00	0.00
380.0-400.0	100.00	0.00	0.00
400.0-420.0	100.00	0.00	0.00
420.0-440.0	100.00	0.00	0.00
440.0-460.0	100.00	0.00	0.00
460.0-480.0	100.00	0.00	0.00
480.0-500.0	100.00	0.00	0.00
500.0-550.0	100.00	0.00	0.00

Range(um)	Under(%)	Local(%)	Over(%)
550.0-600.0	100.00	0.00	0.00
600.0-650.0	100.00	0.00	0.00
650.0-700.0	100.00	0.00	0.00
700.0-750.0	100.00	0.00	0.00
750.0-800.0	100.00	0.00	0.00
800.0-850.0	100.00	0.00	0.00
850.0-900.0	100.00	0.00	0.00
900.0-950.0	100.00	0.00	0.00
950.0-1000.0	100.00	0.00	0.00
1000.0-1050.0	100.00	0.00	0.00
1050.0-1100.0	100.00	0.00	0.00
1100.0-1150.0	100.00	0.00	0.00
1150.0-1200.0	100.00	0.00	0.00
1200.0-1250.0	100.00	0.00	0.00
1250.0-1300.0	100.00	0.00	0.00
1300.0-1350.0	100.00	0.00	0.00
1350.0-1400.0	100.00	0.00	0.00
1400.0-1450.0	100.00	0.00	0.00
1450.0-1500.0	100.00	0.00	0.00
1500.0-1550.0	100.00	0.00	0.00
1550.0-1600.0	100.00	0.00	0.00
1600.0-1650.0	100.00	0.00	0.00
1650.0-1700.0	100.00	0.00	0.00
1700.0-1750.0	100.00	0.00	0.00
1750.0-1800.0	100.00	0.00	0.00
1800.0-1850.0	100.00	0.00	0.00
1850.0-1900.0	100.00	0.00	0.00
1900.0-1950.0	100.00	0.00	0.00
1950.0-2000.0	100.00	0.00	0.00

Customer:	Hill Laboratories		
Setup created by:	user	Setup Date:	Dec 11 2018 14:45PM (GMT+13)
Measured by:	user	Measure Date:	Dec 23 2019 15:05PM (GMT+13)
Printed by:	user	Print Date:	Dec 23 2019 15:06PM (GMT+13)
System Model:	EYE TECH S/N:	SW Version:	2.1.1.3

Sample Name:	**229 6184.2(1)**	Result ID#:	**3263**
Sample Type:	Particles in liquid	Setup Name:	B-lens (v10)
Server Name:	niwa-1012125		

Comments: Weir Board Discharge 2 Offshore. 17/12/19.
EU2, not ultrasounded

Laser lens:	B100	Video lens:	DW
Meas. Range:	10.0 - 3600.0	Stirrer:	None
Meas. Time:	403 Sec.	Status:	Standard
Cell Type:	ACM-104A Liquid flow (10x10mm)	Accessories:	EyeFlow
Calibration mode:	Not Active	Particles existence:	Active. Stabilization time (10 sec.)
Illumination:	Exposure: 1, Intensity: 4	Image control:	Gain:0, Contrast:181, Brightness:37
Cleaning Test:	Not Active		

Meas. Mode: AND:Time(900 Sec.) Aborted

Preparation instructions: Ensure sample is not too cold or you may get condensation on the outside of the flowcell

Statistics Info (ID#:3263)

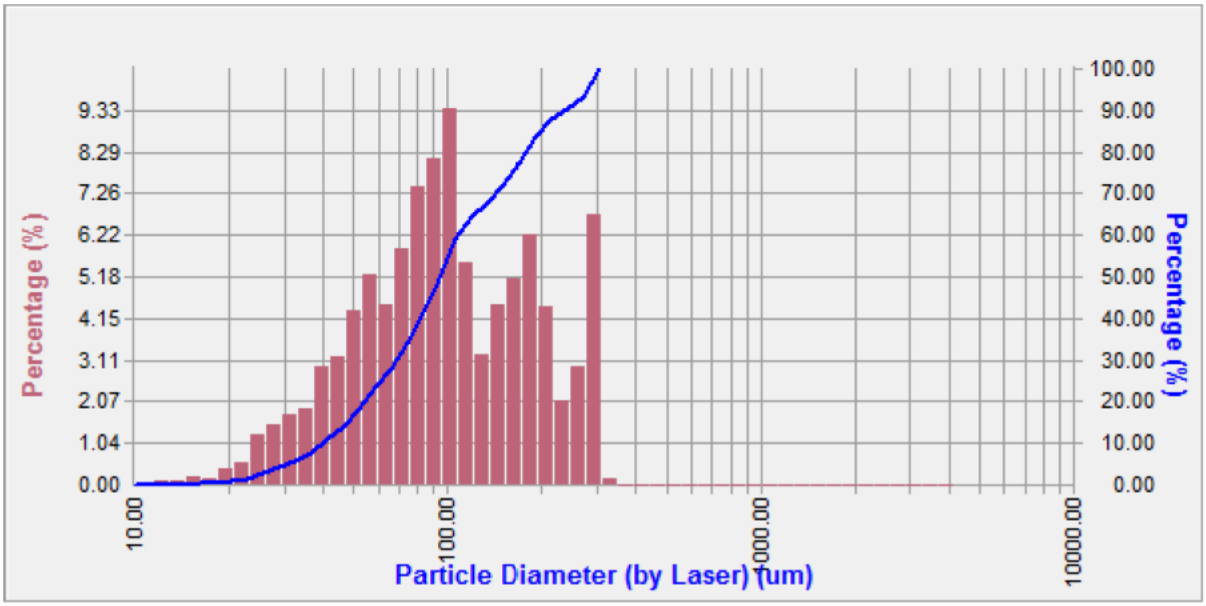
Concentration:	9.9e+003 #/ml	Concentration:	5.8e+002 ppm
Solids:	5.81e-002	Specific Area:	0.00046 cm2/ml

Mean diameter by:	Size(um)	STD(um)	Conf.(%)	Dimension	D10(um)	D50(um)	D90(um)	Mode(um)
Length, D[1,0]	32.37	22.97	99.91	Number	12.51	26.46	59.01	13.67
Length weighted, D[2,1]	48.67	36.29	99.85	Length	17.16	38.08	91.56	24.13
Surface Weighted, D[3,2]	75.73	54.83	99.89	Surface	25.30	60.17	152.01	46.22
Volume Weighted, D[4,3]	115.42	72.52	99.98	Volume	39.25	93.88	232.22	97.37

Volume Histogram and Cumulative Undersize (ID#:3263)

Mean: 115.42 um STD: 72.52 um Conf.: 99.98 %

D10 : 39.25 um D50: 93.88 um D90: 232.22 um



Volume Particle Diameter (by Laser) Percentage Table (ID#:3263)

Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)
0.00	10.00		30.00	68.31		55.00	98.53		80.00	181.07
5.00	31.11		35.00	74.12		60.00	107.83		85.00	196.18
10.00	39.25		40.00	81.09		65.00	119.46		90.00	232.22
15.00	47.38		45.00	86.91		70.00	139.22		95.00	275.23
20.00	53.20		50.00	93.88		75.00	158.98		100.00	304.29
25.00	60.17									

Volume Particle Diameter (by Laser) Ranges (Wentworth Classes) Table (ID#:3263)

Range(um)	Under(%)	Local(%)	Over(%)
10.0-15.6	0.00	0.30	99.70
15.6-31.2	0.30	5.10	94.60
31.2-62.5	5.40	21.06	73.54
62.5-125.0	26.46	39.81	33.73

Range(um)	Under(%)	Local(%)	Over(%)
125.0-250.0	66.27	24.83	8.89
250.0-500.0	91.11	8.89	0.00
500.0-1000.0	100.00	0.00	0.00
1000.0-2000.0	100.00	0.00	0.00

Volume Particle Diameter (by Laser) Ranges (detailed classes) Table (ID#:3263)

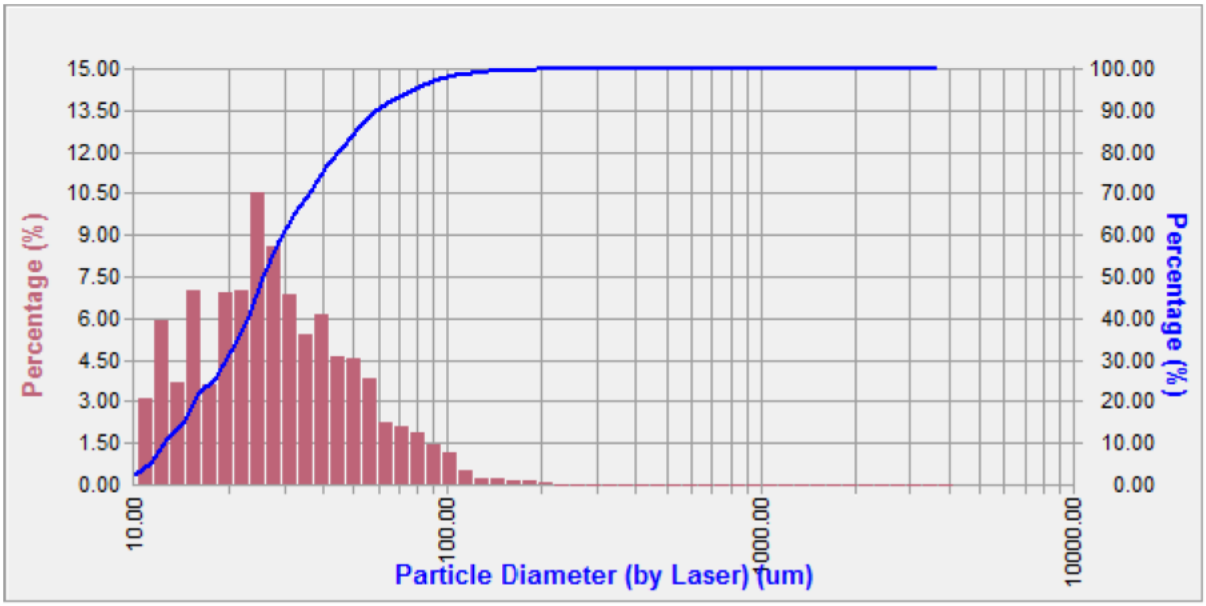
Range(um)	Under(%)	Local(%)	Over(%)
10.0-12.0	0.00	0.07	99.93
12.0-14.0	0.07	0.13	99.80
14.0-16.0	0.20	0.22	99.58
16.0-18.0	0.42	0.15	99.43
18.0-20.0	0.57	0.39	99.03
20.0-25.0	0.97	1.34	97.70
25.0-30.0	2.30	2.53	95.17
30.0-35.0	4.83	2.37	92.80
35.0-40.0	7.20	2.89	89.91
40.0-45.0	10.09	3.00	86.92
45.0-50.0	13.08	4.35	82.57
50.0-55.0	17.43	3.44	79.13
55.0-60.0	20.87	3.49	75.64
60.0-65.0	24.36	3.74	71.90
65.0-70.0	28.10	3.38	68.53
70.0-75.0	31.47	3.60	64.93
75.0-80.0	35.07	4.48	60.45
80.0-85.0	39.55	4.03	56.42
85.0-90.0	43.58	3.47	52.95
90.0-95.0	47.05	3.50	49.45
95.0-100.0	50.55	5.31	44.14
100.0-110.0	55.86	5.19	38.95
110.0-120.0	61.05	3.99	34.96
120.0-130.0	65.04	2.14	32.82
130.0-140.0	67.18	2.91	29.91
140.0-150.0	70.09	2.18	27.74
150.0-160.0	72.26	2.94	24.79
160.0-170.0	75.21	2.56	22.23
170.0-180.0	77.77	2.03	20.20
180.0-190.0	79.80	3.83	16.38
190.0-200.0	83.62	2.52	13.86
200.0-220.0	86.14	2.26	11.60
220.0-240.0	88.40	1.75	9.85
240.0-260.0	90.15	2.22	7.63
260.0-280.0	92.37	3.42	4.21
280.0-300.0	95.79	3.60	0.61
300.0-320.0	99.39	0.61	0.00
320.0-340.0	100.00	0.00	0.00
340.0-360.0	100.00	0.00	0.00
360.0-380.0	100.00	0.00	0.00
380.0-400.0	100.00	0.00	0.00
400.0-420.0	100.00	0.00	0.00
420.0-440.0	100.00	0.00	0.00
440.0-460.0	100.00	0.00	0.00
460.0-480.0	100.00	0.00	0.00
480.0-500.0	100.00	0.00	0.00
500.0-550.0	100.00	0.00	0.00

Range(um)	Under(%)	Local(%)	Over(%)
550.0-600.0	100.00	0.00	0.00
600.0-650.0	100.00	0.00	0.00
650.0-700.0	100.00	0.00	0.00
700.0-750.0	100.00	0.00	0.00
750.0-800.0	100.00	0.00	0.00
800.0-850.0	100.00	0.00	0.00
850.0-900.0	100.00	0.00	0.00
900.0-950.0	100.00	0.00	0.00
950.0-1000.0	100.00	0.00	0.00
1000.0-1050.0	100.00	0.00	0.00
1050.0-1100.0	100.00	0.00	0.00
1100.0-1150.0	100.00	0.00	0.00
1150.0-1200.0	100.00	0.00	0.00
1200.0-1250.0	100.00	0.00	0.00
1250.0-1300.0	100.00	0.00	0.00
1300.0-1350.0	100.00	0.00	0.00
1350.0-1400.0	100.00	0.00	0.00
1400.0-1450.0	100.00	0.00	0.00
1450.0-1500.0	100.00	0.00	0.00
1500.0-1550.0	100.00	0.00	0.00
1550.0-1600.0	100.00	0.00	0.00
1600.0-1650.0	100.00	0.00	0.00
1650.0-1700.0	100.00	0.00	0.00
1700.0-1750.0	100.00	0.00	0.00
1750.0-1800.0	100.00	0.00	0.00
1800.0-1850.0	100.00	0.00	0.00
1850.0-1900.0	100.00	0.00	0.00
1900.0-1950.0	100.00	0.00	0.00
1950.0-2000.0	100.00	0.00	0.00

Number Histogram and Cumulative Undersize (ID#:3263)

Mean: 32.37 um STD: 22.97 um Conf.: 99.91 %

D10 : 12.51 um D50: 26.46 um D90: 59.01 um



Number Particle Diameter (by Laser) Percentage Table (ID#:3263)

Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)
0.00	10.00		30.00	19.48		55.00	27.62		80.00	43.90
5.00	10.18		35.00	20.65		60.00	29.95		85.00	49.71
10.00	12.51		40.00	22.97		65.00	32.27		90.00	59.01
15.00	14.83		45.00	24.13		70.00	35.76		95.00	76.44
20.00	16.00		50.00	26.46		75.00	39.25		100.00	304.29
25.00	17.16									

Number Particle Diameter (by Laser) Ranges (Wentworth Classes) Table (ID#:3263)

Range(um)	Under(%)	Local(%)	Over(%)
10.0-15.6	0.00	18.98	81.02
15.6-31.2	18.98	44.43	36.59
31.2-62.5	63.41	28.02	8.57
62.5-125.0	91.43	7.87	0.70

Range(um)	Under(%)	Local(%)	Over(%)
125.0-250.0	99.31	0.64	0.05
250.0-500.0	99.94	0.06	0.00
500.0-1000.0	100.00	0.00	0.00
1000.0-2000.0	100.00	0.00	0.00

Number Particle Diameter (by Laser) Ranges (detailed classes) Table (ID#:3263)

Range(um)	Under(%)	Local(%)	Over(%)
10.0-12.0	0.00	8.76	91.24
12.0-14.0	8.76	6.81	84.43
14.0-16.0	15.57	6.96	77.47
16.0-18.0	22.53	3.54	73.93
18.0-20.0	26.07	6.85	67.09
20.0-25.0	32.92	13.93	53.15
25.0-30.0	46.84	14.35	38.81
30.0-35.0	61.20	7.95	30.86
35.0-40.0	69.14	6.51	24.35
40.0-45.0	75.65	4.76	19.59
45.0-50.0	80.41	4.92	14.67
50.0-55.0	85.33	2.81	11.86
55.0-60.0	88.13	2.22	9.65
60.0-65.0	90.36	1.80	7.84
65.0-70.0	92.16	1.29	6.56
70.0-75.0	93.45	1.12	5.43
75.0-80.0	94.56	1.14	4.29
80.0-85.0	95.71	0.83	3.46
85.0-90.0	96.54	0.62	2.84
90.0-95.0	97.16	0.53	2.31
95.0-100.0	97.69	0.68	1.63
100.0-110.0	98.37	0.54	1.09
110.0-120.0	98.91	0.31	0.78
120.0-130.0	99.22	0.13	0.65
130.0-140.0	99.36	0.13	0.51
140.0-150.0	99.49	0.09	0.42
150.0-160.0	99.58	0.09	0.33
160.0-170.0	99.67	0.07	0.26
170.0-180.0	99.74	0.04	0.22
180.0-190.0	99.78	0.08	0.15
190.0-200.0	99.86	0.03	0.11
200.0-220.0	99.89	0.03	0.08
220.0-240.0	99.92	0.02	0.06
240.0-260.0	99.95	0.01	0.04
260.0-280.0	99.96	0.02	0.02
280.0-300.0	99.98	0.02	0.00
300.0-320.0	100.00	0.00	0.00
320.0-340.0	100.00	0.00	0.00
340.0-360.0	100.00	0.00	0.00
360.0-380.0	100.00	0.00	0.00
380.0-400.0	100.00	0.00	0.00
400.0-420.0	100.00	0.00	0.00
420.0-440.0	100.00	0.00	0.00
440.0-460.0	100.00	0.00	0.00
460.0-480.0	100.00	0.00	0.00
480.0-500.0	100.00	0.00	0.00
500.0-550.0	100.00	0.00	0.00

Range(um)	Under(%)	Local(%)	Over(%)
550.0-600.0	100.00	0.00	0.00
600.0-650.0	100.00	0.00	0.00
650.0-700.0	100.00	0.00	0.00
700.0-750.0	100.00	0.00	0.00
750.0-800.0	100.00	0.00	0.00
800.0-850.0	100.00	0.00	0.00
850.0-900.0	100.00	0.00	0.00
900.0-950.0	100.00	0.00	0.00
950.0-1000.0	100.00	0.00	0.00
1000.0-1050.0	100.00	0.00	0.00
1050.0-1100.0	100.00	0.00	0.00
1100.0-1150.0	100.00	0.00	0.00
1150.0-1200.0	100.00	0.00	0.00
1200.0-1250.0	100.00	0.00	0.00
1250.0-1300.0	100.00	0.00	0.00
1300.0-1350.0	100.00	0.00	0.00
1350.0-1400.0	100.00	0.00	0.00
1400.0-1450.0	100.00	0.00	0.00
1450.0-1500.0	100.00	0.00	0.00
1500.0-1550.0	100.00	0.00	0.00
1550.0-1600.0	100.00	0.00	0.00
1600.0-1650.0	100.00	0.00	0.00
1650.0-1700.0	100.00	0.00	0.00
1700.0-1750.0	100.00	0.00	0.00
1750.0-1800.0	100.00	0.00	0.00
1800.0-1850.0	100.00	0.00	0.00
1850.0-1900.0	100.00	0.00	0.00
1900.0-1950.0	100.00	0.00	0.00
1950.0-2000.0	100.00	0.00	0.00

Customer:	Hill Laboratories		
Setup created by:	user	Setup Date:	Dec 11 2018 14:45PM (GMT+13)
Measured by:	user	Measure Date:	Dec 23 2019 15:32PM (GMT+13)
Printed by:	user	Print Date:	Dec 23 2019 15:33PM (GMT+13)
System Model:	EYE TECH S/N:	SW Version:	2.1.1.3

Sample Name:	**229 6184.3(1)**	Result ID#:	**3264**
Sample Type:	Particles in liquid	Setup Name:	B-lens (v10)
Server Name:	niwa-1012125		

Comments: Weir Board Discharge 3 Offshore. 17/12/19.
EU3, not ultrasounded

Laser lens:	B100	Video lens:	DW
Meas. Range:	10.0 - 3600.0	Stirrer:	None
Meas. Time:	403 Sec.	Status:	Standard
Cell Type:	ACM-104A Liquid flow (10x10mm)	Accessories:	EyeFlow
Calibration mode:	Not Active	Particles existence:	Active. Stabilization time (10 sec.)
Illumination:	Exposure: 1, Intensity: 4	Image control:	Gain:0, Contrast:181, Brightness:37
Cleaning Test:	Not Active		

Meas. Mode: AND:Time(900 Sec.) Aborted

Preparation instructions: Ensure sample is not too cold or you may get condensation on the outside of the flowcell

Statistics Info (ID#:3264)

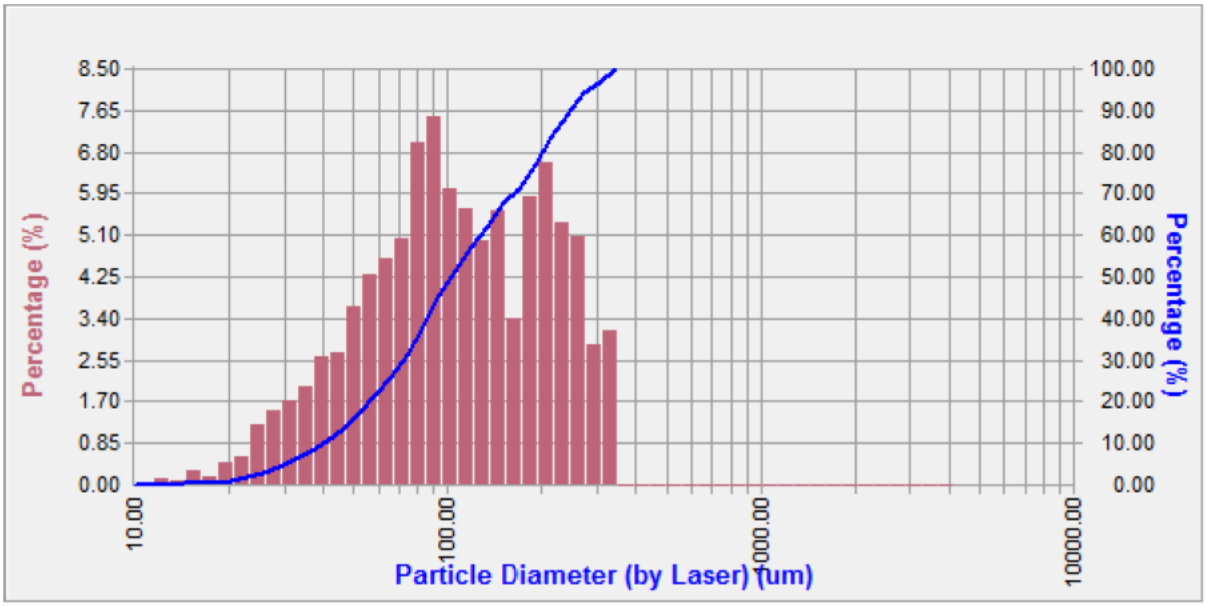
Concentration:	1.0e+004 #/ml	Concentration:	5.8e+002 ppm
Solids:	5.82e-002	Specific Area:	0.00044 cm2/ml

Mean diameter by:	Size(um)	STD(um)	Conf.(%)	Dimension	D10(um)	D50(um)	D90(um)	Mode(um)
Length, D[1,0]	30.37	22.92	99.88	Number	11.35	24.14	55.55	16.00
Length weighted, D[2,1]	47.67	38.74	99.73	Length	16.00	35.77	91.60	25.31
Surface Weighted, D[3,2]	79.16	60.50	99.86	Surface	24.14	61.36	170.69	33.45
Volume Weighted, D[4,3]	125.40	77.84	99.99	Volume	39.26	99.74	250.94	95.09

Volume Histogram and Cumulative Undersize (ID#:3264)

Mean: 125.40 um STD: 77.84 um Conf.: 99.99 %

D10 : 39.26 um D50: 99.74 um D90: 250.94 um



Volume Particle Diameter (by Laser) Percentage Table (ID#:3264)

Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)
0.00	10.00		30.00	71.83		55.00	113.70		80.00	197.44
5.00	31.12		35.00	78.81		60.00	127.65		85.00	218.37
10.00	39.26		40.00	85.79		65.00	139.29		90.00	250.94
15.00	48.57		45.00	92.76		70.00	163.71		95.00	271.87
20.00	56.71		50.00	99.74		75.00	183.48		100.00	317.23
25.00	63.69									

Volume Particle Diameter (by Laser) Ranges (Wentworth Classes) Table (ID#:3264)

Range(um)	Under(%)	Local(%)	Over(%)
10.0-15.6	0.00	0.38	99.62
15.6-31.2	0.38	5.16	94.46
31.2-62.5	5.54	18.09	76.37
62.5-125.0	23.63	35.52	40.85

Range(um)	Under(%)	Local(%)	Over(%)
125.0-250.0	59.15	30.80	10.05
250.0-500.0	89.95	10.05	0.00
500.0-1000.0	100.00	0.00	0.00
1000.0-2000.0	100.00	0.00	0.00

Volume Particle Diameter (by Laser) Ranges (detailed classes) Table (ID#:3264)

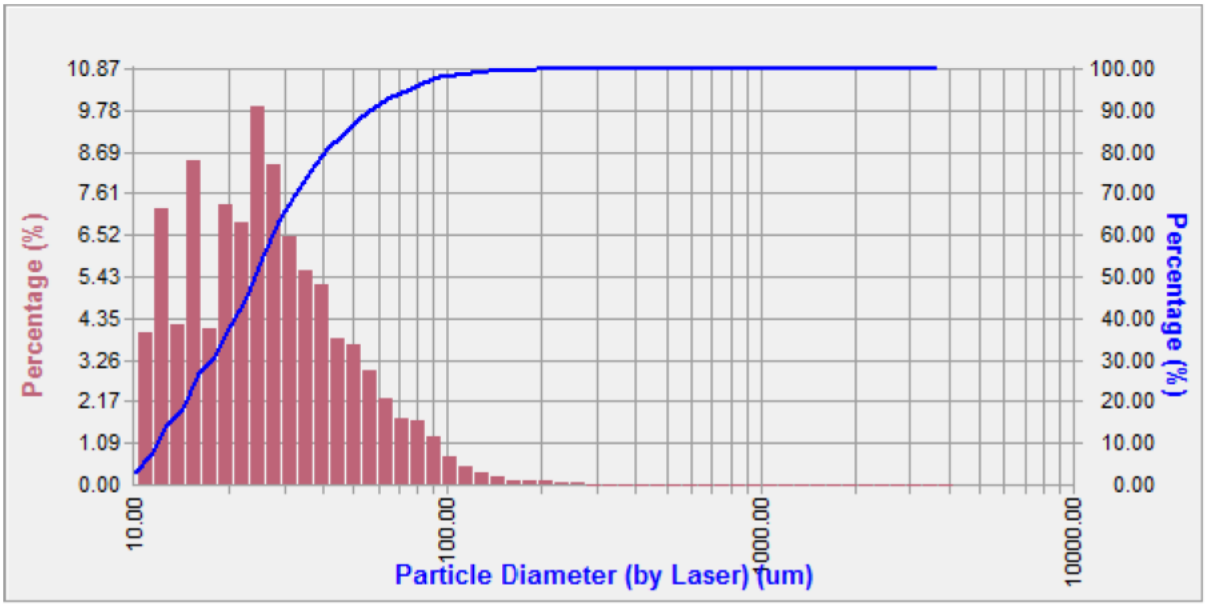
Range(um)	Under(%)	Local(%)	Over(%)
10.0-12.0	0.00	0.10	99.90
12.0-14.0	0.10	0.16	99.74
14.0-16.0	0.26	0.12	99.62
16.0-18.0	0.38	0.33	99.29
18.0-20.0	0.71	0.43	98.86
20.0-25.0	1.14	1.33	97.53
25.0-30.0	2.47	2.51	95.02
30.0-35.0	4.98	2.53	92.49
35.0-40.0	7.51	2.58	89.91
40.0-45.0	10.09	2.66	87.25
45.0-50.0	12.75	3.67	83.58
50.0-55.0	16.42	2.76	80.81
55.0-60.0	19.19	3.00	77.82
60.0-65.0	22.18	3.82	74.00
65.0-70.0	26.00	2.68	71.32
70.0-75.0	28.68	3.26	68.06
75.0-80.0	31.94	4.49	63.57
80.0-85.0	36.43	2.95	60.62
85.0-90.0	39.38	3.04	57.58
90.0-95.0	42.42	4.19	53.39
95.0-100.0	46.61	3.45	49.94
100.0-110.0	50.06	3.16	46.78
110.0-120.0	53.22	4.31	42.47
120.0-130.0	57.53	3.79	38.68
130.0-140.0	61.32	3.90	34.77
140.0-150.0	65.23	2.56	32.21
150.0-160.0	67.79	1.21	31.00
160.0-170.0	69.00	2.44	28.56
170.0-180.0	71.44	2.81	25.74
180.0-190.0	74.26	2.78	22.97
190.0-200.0	77.03	3.55	19.41
200.0-220.0	80.59	4.63	14.78
220.0-240.0	85.22	3.72	11.06
240.0-260.0	88.94	2.25	8.81
260.0-280.0	91.19	4.58	4.23
280.0-300.0	95.77	1.08	3.14
300.0-320.0	96.86	3.14	0.00
320.0-340.0	100.00	0.00	0.00
340.0-360.0	100.00	0.00	0.00
360.0-380.0	100.00	0.00	0.00
380.0-400.0	100.00	0.00	0.00
400.0-420.0	100.00	0.00	0.00
420.0-440.0	100.00	0.00	0.00
440.0-460.0	100.00	0.00	0.00
460.0-480.0	100.00	0.00	0.00
480.0-500.0	100.00	0.00	0.00
500.0-550.0	100.00	0.00	0.00

Range(um)	Under(%)	Local(%)	Over(%)
550.0-600.0	100.00	0.00	0.00
600.0-650.0	100.00	0.00	0.00
650.0-700.0	100.00	0.00	0.00
700.0-750.0	100.00	0.00	0.00
750.0-800.0	100.00	0.00	0.00
800.0-850.0	100.00	0.00	0.00
850.0-900.0	100.00	0.00	0.00
900.0-950.0	100.00	0.00	0.00
950.0-1000.0	100.00	0.00	0.00
1000.0-1050.0	100.00	0.00	0.00
1050.0-1100.0	100.00	0.00	0.00
1100.0-1150.0	100.00	0.00	0.00
1150.0-1200.0	100.00	0.00	0.00
1200.0-1250.0	100.00	0.00	0.00
1250.0-1300.0	100.00	0.00	0.00
1300.0-1350.0	100.00	0.00	0.00
1350.0-1400.0	100.00	0.00	0.00
1400.0-1450.0	100.00	0.00	0.00
1450.0-1500.0	100.00	0.00	0.00
1500.0-1550.0	100.00	0.00	0.00
1550.0-1600.0	100.00	0.00	0.00
1600.0-1650.0	100.00	0.00	0.00
1650.0-1700.0	100.00	0.00	0.00
1700.0-1750.0	100.00	0.00	0.00
1750.0-1800.0	100.00	0.00	0.00
1800.0-1850.0	100.00	0.00	0.00
1850.0-1900.0	100.00	0.00	0.00
1900.0-1950.0	100.00	0.00	0.00
1950.0-2000.0	100.00	0.00	0.00

Number Histogram and Cumulative Undersize (ID#:3264)

Mean: 30.37 um STD: 22.92 um Conf.: 99.88 %

D10 : 11.35 um D50: 24.14 um D90: 55.55 um



Number Particle Diameter (by Laser) Percentage Table (ID#:3264)

Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)
0.00	10.00		30.00	17.17		55.00	26.47		80.00	40.43
5.00	10.19		35.00	19.49		60.00	27.63		85.00	46.24
10.00	11.35		40.00	20.66		65.00	29.96		90.00	55.55
15.00	13.68		45.00	21.82		70.00	33.45		95.00	74.16
20.00	14.84		50.00	24.14		75.00	35.77		100.00	317.23
25.00	16.00									

Number Particle Diameter (by Laser) Ranges (Wentworth Classes) Table (ID#:3264)

Range(um)	Under(%)	Local(%)	Over(%)
10.0-15.6	0.00	23.60	76.40
15.6-31.2	23.60	44.48	31.92
31.2-62.5	68.08	24.17	7.75
62.5-125.0	92.25	6.95	0.81

Range(um)	Under(%)	Local(%)	Over(%)
125.0-250.0	99.19	0.75	0.05
250.0-500.0	99.95	0.05	0.00
500.0-1000.0	100.00	0.00	0.00
1000.0-2000.0	100.00	0.00	0.00

Number Particle Diameter (by Laser) Ranges (detailed classes) Table (ID#:3264)

Range(um)	Under(%)	Local(%)	Over(%)
10.0-12.0	0.00	11.58	88.42
12.0-14.0	11.58	7.91	80.51
14.0-16.0	19.49	4.10	76.41
16.0-18.0	23.59	8.26	68.15
18.0-20.0	31.86	7.19	60.95
20.0-25.0	39.05	13.28	47.66
25.0-30.0	52.33	13.63	34.03
30.0-35.0	65.96	8.06	25.97
35.0-40.0	74.03	5.57	20.40
40.0-45.0	79.60	4.04	16.36
45.0-50.0	83.64	3.93	12.43
50.0-55.0	87.57	2.14	10.29
55.0-60.0	89.71	1.81	8.48
60.0-65.0	91.52	1.77	6.71
65.0-70.0	93.29	0.97	5.74
70.0-75.0	94.26	0.97	4.77
75.0-80.0	95.23	1.10	3.68
80.0-85.0	96.32	0.59	3.09
85.0-90.0	96.92	0.51	2.57
90.0-95.0	97.42	0.61	1.97
95.0-100.0	98.04	0.42	1.54
100.0-110.0	98.46	0.31	1.23
110.0-120.0	98.76	0.33	0.91
120.0-130.0	99.09	0.22	0.69
130.0-140.0	99.31	0.18	0.51
140.0-150.0	99.49	0.09	0.41
150.0-160.0	99.58	0.04	0.38
160.0-170.0	99.62	0.06	0.31
170.0-180.0	99.68	0.06	0.26
180.0-190.0	99.75	0.04	0.21
190.0-200.0	99.79	0.06	0.15
200.0-220.0	99.85	0.05	0.10
220.0-240.0	99.91	0.03	0.06
240.0-260.0	99.94	0.02	0.04
260.0-280.0	99.95	0.03	0.02
280.0-300.0	99.99	0.00	0.01
300.0-320.0	99.99	0.01	0.00
320.0-340.0	100.00	0.00	0.00
340.0-360.0	100.00	0.00	0.00
360.0-380.0	100.00	0.00	0.00
380.0-400.0	100.00	0.00	0.00
400.0-420.0	100.00	0.00	0.00
420.0-440.0	100.00	0.00	0.00
440.0-460.0	100.00	0.00	0.00
460.0-480.0	100.00	0.00	0.00
480.0-500.0	100.00	0.00	0.00
500.0-550.0	100.00	0.00	0.00

Range(um)	Under(%)	Local(%)	Over(%)
550.0-600.0	100.00	0.00	0.00
600.0-650.0	100.00	0.00	0.00
650.0-700.0	100.00	0.00	0.00
700.0-750.0	100.00	0.00	0.00
750.0-800.0	100.00	0.00	0.00
800.0-850.0	100.00	0.00	0.00
850.0-900.0	100.00	0.00	0.00
900.0-950.0	100.00	0.00	0.00
950.0-1000.0	100.00	0.00	0.00
1000.0-1050.0	100.00	0.00	0.00
1050.0-1100.0	100.00	0.00	0.00
1100.0-1150.0	100.00	0.00	0.00
1150.0-1200.0	100.00	0.00	0.00
1200.0-1250.0	100.00	0.00	0.00
1250.0-1300.0	100.00	0.00	0.00
1300.0-1350.0	100.00	0.00	0.00
1350.0-1400.0	100.00	0.00	0.00
1400.0-1450.0	100.00	0.00	0.00
1450.0-1500.0	100.00	0.00	0.00
1500.0-1550.0	100.00	0.00	0.00
1550.0-1600.0	100.00	0.00	0.00
1600.0-1650.0	100.00	0.00	0.00
1650.0-1700.0	100.00	0.00	0.00
1700.0-1750.0	100.00	0.00	0.00
1750.0-1800.0	100.00	0.00	0.00
1800.0-1850.0	100.00	0.00	0.00
1850.0-1900.0	100.00	0.00	0.00
1900.0-1950.0	100.00	0.00	0.00
1950.0-2000.0	100.00	0.00	0.00

Customer:	Hill Laboratories		
Setup created by:	user	Setup Date:	Dec 11 2018 14:45PM (GMT+13)
Measured by:	user	Measure Date:	Dec 23 2019 16:14PM (GMT+13)
Printed by:	user	Print Date:	Dec 23 2019 16:15PM (GMT+13)
System Model:	EYE TECH S/N:	SW Version:	2.1.1.3

Sample Name:	**229 6184.4(1)**	Result ID#:	**3266**
Sample Type:	Particles in liquid	Setup Name:	B-lens (v10)
Server Name:	niwa-1012125		

Comments: Weir Board Discharge 1 Inshore. 16/12/19.
EU4, not ultrasounded. Diluted 70%

Laser lens:	B100	Video lens:	DW
Meas. Range:	10.0 - 3600.0	Stirrer:	None
Meas. Time:	402 Sec.	Status:	Standard
Cell Type:	ACM-104A Liquid flow (10x10mm)	Accessories:	EyeFlow
Calibration mode:	Not Active	Particles existence:	Active. Stabilization time (10 sec.)
Illumination:	Exposure: 1, Intensity: 4	Image control:	Gain:0, Contrast:181, Brightness:37
Cleaning Test:	Not Active		

Meas. Mode: AND:Time(900 Sec.) Aborted

Preparation instructions: Ensure sample is not too cold or you may get condensation on the outside of the flowcell

Statistics Info (ID#:3266)

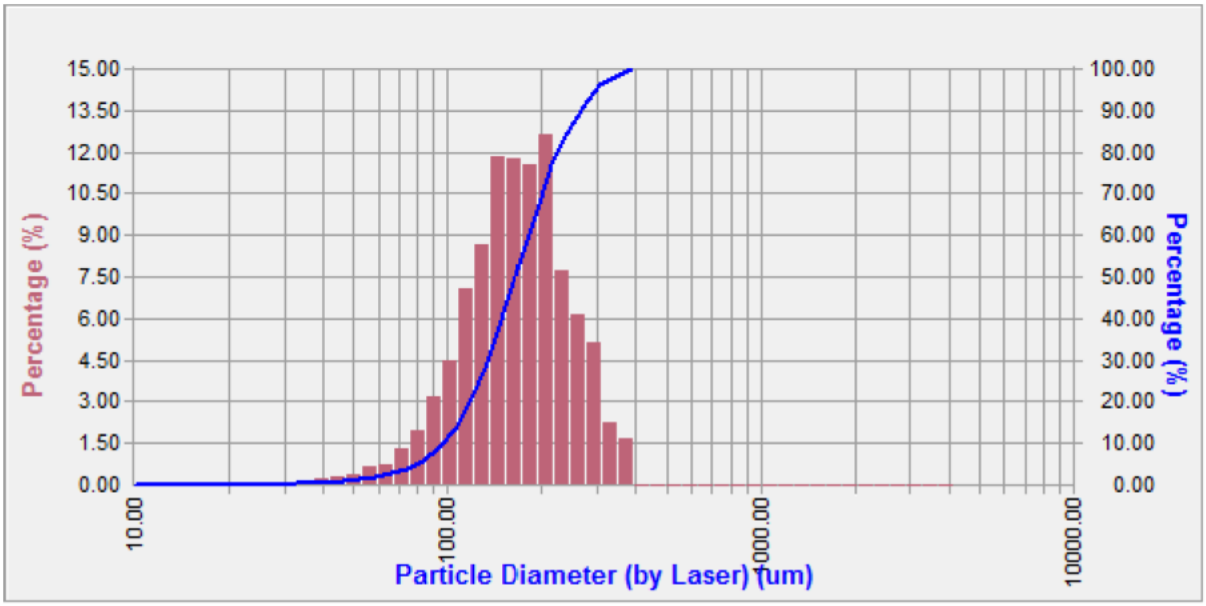
Concentration:	6.8e+003 #/ml	Concentration:	3.5e+003 ppm
Solids:	3.48e-001	Specific Area:	0.0015 cm2/ml

Mean diameter by:	Size(um)	STD(um)	Conf.(%)	Dimension	D10(um)	D50(um)	D90(um)	Mode(um)
Length, D[1,0]	71.91	53.81	99.65	Number	16.01	56.74	147.50	24.16
Length weighted, D[2,1]	112.17	60.78	99.99	Length	34.63	107.93	192.88	93.97
Surface Weighted, D[3,2]	145.10	62.78	100.00	Surface	69.54	138.19	225.46	133.53
Volume Weighted, D[4,3]	172.26	65.33	100.00	Volume	95.14	164.95	263.86	204.51

Volume Histogram and Cumulative Undersize (ID#:3266)

Mean: 172.26 um STD: 65.33 um Conf.: 100.00 %

D10 : 95.14 um D50: 164.95 um D90: 263.86 um



Volume Particle Diameter (by Laser) Percentage Table (ID#:3266)

Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)
0.00	10.00		30.00	133.53		55.00	173.10		80.00	220.80
5.00	78.84		35.00	140.51		60.00	181.24		85.00	240.58
10.00	95.14		40.00	148.66		65.00	190.55		90.00	263.86
15.00	107.93		45.00	156.81		70.00	199.86		95.00	294.11
20.00	117.24		50.00	164.95		75.00	206.84		100.00	373.23
25.00	125.39									

Volume Particle Diameter (by Laser) Ranges (Wentworth Classes) Table (ID#:3266)

Range(um)	Under(%)	Local(%)	Over(%)
10.0-15.6	0.00	0.01	99.99
15.6-31.2	0.01	0.26	99.73
31.2-62.5	0.27	2.03	97.70
62.5-125.0	2.30	22.08	75.62

Range(um)	Under(%)	Local(%)	Over(%)
125.0-250.0	72.32	14.97	12.71
250.0-500.0	87.29	12.71	0.00
500.0-1000.0	100.00	0.00	0.00
1000.0-2000.0	100.00	0.00	0.00

Volume Particle Diameter (by Laser) Ranges (detailed classes) Table (ID#:3266)

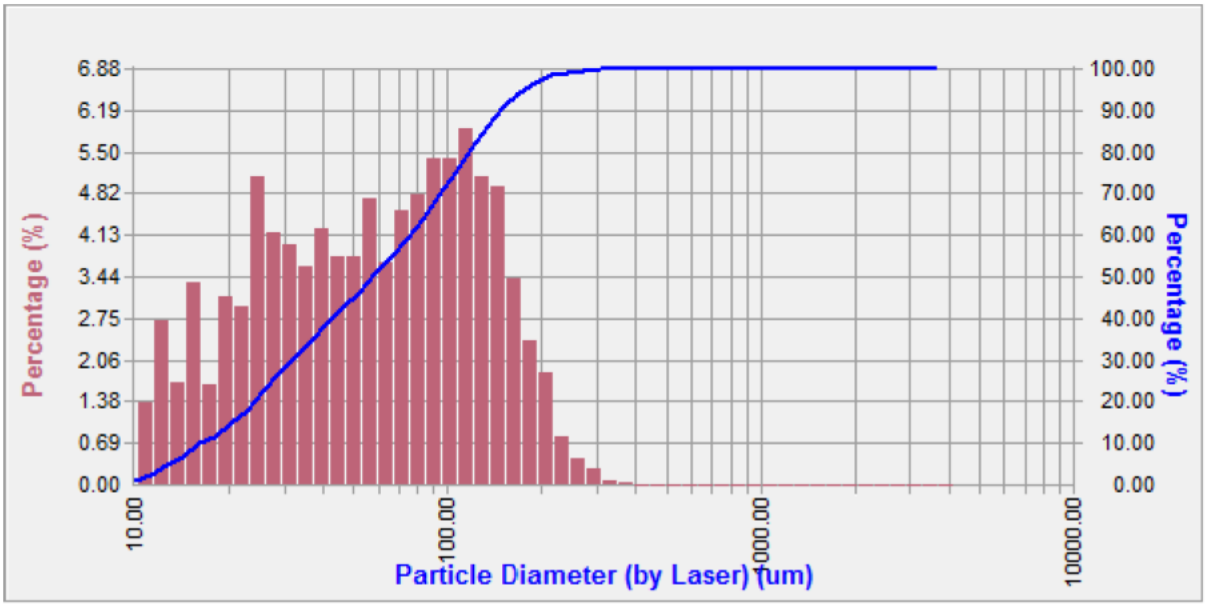
Range(um)	Under(%)	Local(%)	Over(%)
10.0-12.0	0.00	0.00	100.00
12.0-14.0	0.00	0.01	99.99
14.0-16.0	0.01	0.00	99.99
16.0-18.0	0.01	0.02	99.97
18.0-20.0	0.03	0.02	99.95
20.0-25.0	0.05	0.06	99.89
25.0-30.0	0.11	0.13	99.77
30.0-35.0	0.23	0.16	99.61
35.0-40.0	0.39	0.19	99.41
40.0-45.0	0.59	0.25	99.17
45.0-50.0	0.83	0.36	98.81
50.0-55.0	1.19	0.42	98.39
55.0-60.0	1.61	0.45	97.94
60.0-65.0	2.06	0.63	97.31
65.0-70.0	2.69	0.71	96.60
70.0-75.0	3.40	0.80	95.80
75.0-80.0	4.20	1.00	94.81
80.0-85.0	5.19	1.34	93.47
85.0-90.0	6.53	1.32	92.15
90.0-95.0	7.85	1.80	90.35
95.0-100.0	9.65	2.16	88.19
100.0-110.0	11.81	3.93	84.26
110.0-120.0	15.74	5.64	78.62
120.0-130.0	21.38	5.94	72.67
130.0-140.0	27.33	7.20	65.47
140.0-150.0	34.53	6.60	58.86
150.0-160.0	41.14	5.60	53.26
160.0-170.0	46.74	6.77	46.49
170.0-180.0	53.51	5.77	40.73
180.0-190.0	59.27	5.21	35.52
190.0-200.0	64.48	6.09	29.43
200.0-220.0	70.57	8.98	20.44
220.0-240.0	79.56	5.25	15.19
240.0-260.0	84.81	4.56	10.63
260.0-280.0	89.37	3.31	7.32
280.0-300.0	92.68	3.13	4.19
300.0-320.0	95.81	1.10	3.08
320.0-340.0	96.92	1.28	1.80
340.0-360.0	98.20	0.90	0.91
360.0-380.0	99.09	0.91	0.00
380.0-400.0	100.00	0.00	0.00
400.0-420.0	100.00	0.00	0.00
420.0-440.0	100.00	0.00	0.00
440.0-460.0	100.00	0.00	0.00
460.0-480.0	100.00	0.00	0.00
480.0-500.0	100.00	0.00	0.00
500.0-550.0	100.00	0.00	0.00

Range(um)	Under(%)	Local(%)	Over(%)
550.0-600.0	100.00	0.00	0.00
600.0-650.0	100.00	0.00	0.00
650.0-700.0	100.00	0.00	0.00
700.0-750.0	100.00	0.00	0.00
750.0-800.0	100.00	0.00	0.00
800.0-850.0	100.00	0.00	0.00
850.0-900.0	100.00	0.00	0.00
900.0-950.0	100.00	0.00	0.00
950.0-1000.0	100.00	0.00	0.00
1000.0-1050.0	100.00	0.00	0.00
1050.0-1100.0	100.00	0.00	0.00
1100.0-1150.0	100.00	0.00	0.00
1150.0-1200.0	100.00	0.00	0.00
1200.0-1250.0	100.00	0.00	0.00
1250.0-1300.0	100.00	0.00	0.00
1300.0-1350.0	100.00	0.00	0.00
1350.0-1400.0	100.00	0.00	0.00
1400.0-1450.0	100.00	0.00	0.00
1450.0-1500.0	100.00	0.00	0.00
1500.0-1550.0	100.00	0.00	0.00
1550.0-1600.0	100.00	0.00	0.00
1600.0-1650.0	100.00	0.00	0.00
1650.0-1700.0	100.00	0.00	0.00
1700.0-1750.0	100.00	0.00	0.00
1750.0-1800.0	100.00	0.00	0.00
1800.0-1850.0	100.00	0.00	0.00
1850.0-1900.0	100.00	0.00	0.00
1900.0-1950.0	100.00	0.00	0.00
1950.0-2000.0	100.00	0.00	0.00

Number Histogram and Cumulative Undersize (ID#:3266)

Mean: 71.91 um STD: 53.81 um Conf.: 99.65 %

D10 : 16.01 um D50: 56.74 um D90: 147.50 um



Number Particle Diameter (by Laser) Percentage Table (ID#:3266)

Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)
0.00	10.00		30.00	32.30		55.00	66.05		80.00	117.24
5.00	12.52		35.00	36.96		60.00	75.35		85.00	130.04
10.00	16.01		40.00	42.77		65.00	84.66		90.00	147.50
15.00	20.67		45.00	49.76		70.00	93.97		95.00	175.42
20.00	24.16		50.00	56.74		75.00	105.61		100.00	373.23
25.00	27.65									

Number Particle Diameter (by Laser) Ranges (Wentworth Classes) Table (ID#:3266)

Range(um)	Under(%)	Local(%)	Over(%)
10.0-15.6	0.00	8.63	91.37
15.6-31.2	8.63	21.18	70.19
31.2-62.5	29.81	23.31	46.88
62.5-125.0	53.12	30.05	16.83

Range(um)	Under(%)	Local(%)	Over(%)
125.0-250.0	83.16	16.21	0.63
250.0-500.0	99.37	0.63	0.00
500.0-1000.0	100.00	0.00	0.00
1000.0-2000.0	100.00	0.00	0.00

Number Particle Diameter (by Laser) Ranges (detailed classes) Table (ID#:3266)

Range(um)	Under(%)	Local(%)	Over(%)
10.0-12.0	0.00	3.82	96.18
12.0-14.0	3.82	3.13	93.05
14.0-16.0	6.95	1.68	91.37
16.0-18.0	8.63	3.30	88.07
18.0-20.0	11.93	3.10	84.97
20.0-25.0	15.03	6.41	78.55
25.0-30.0	21.44	7.01	71.55
30.0-35.0	28.45	5.20	66.35
35.0-40.0	33.65	4.25	62.10
40.0-45.0	37.90	3.87	58.23
45.0-50.0	41.76	3.99	54.25
50.0-55.0	45.75	3.31	50.94
55.0-60.0	49.07	2.81	48.12
60.0-65.0	51.88	3.00	45.12
65.0-70.0	54.87	2.65	42.48
70.0-75.0	57.53	2.45	40.02
75.0-80.0	59.97	2.53	37.50
80.0-85.0	62.50	2.79	34.71
85.0-90.0	65.30	2.28	32.42
90.0-95.0	67.57	2.68	29.74
95.0-100.0	70.25	2.74	27.01
100.0-110.0	72.98	3.96	23.05
110.0-120.0	76.95	4.31	18.74
120.0-130.0	81.26	3.58	15.15
130.0-140.0	84.85	3.43	11.72
140.0-150.0	88.27	2.53	9.20
150.0-160.0	90.80	1.76	7.44
160.0-170.0	92.56	1.77	5.67
170.0-180.0	94.34	1.25	4.41
180.0-190.0	95.59	0.96	3.45
190.0-200.0	96.54	0.96	2.49
200.0-220.0	97.51	1.16	1.33
220.0-240.0	98.67	0.51	0.82
240.0-260.0	99.18	0.34	0.48
260.0-280.0	99.52	0.20	0.28
280.0-300.0	99.71	0.16	0.13
300.0-320.0	99.87	0.04	0.09
320.0-340.0	99.91	0.04	0.05
340.0-360.0	99.95	0.03	0.02
360.0-380.0	99.97	0.03	0.00
380.0-400.0	100.00	0.00	0.00
400.0-420.0	100.00	0.00	0.00
420.0-440.0	100.00	0.00	0.00
440.0-460.0	100.00	0.00	0.00
460.0-480.0	100.00	0.00	0.00
480.0-500.0	100.00	0.00	0.00
500.0-550.0	100.00	0.00	0.00

Range(um)	Under(%)	Local(%)	Over(%)
550.0-600.0	100.00	0.00	0.00
600.0-650.0	100.00	0.00	0.00
650.0-700.0	100.00	0.00	0.00
700.0-750.0	100.00	0.00	0.00
750.0-800.0	100.00	0.00	0.00
800.0-850.0	100.00	0.00	0.00
850.0-900.0	100.00	0.00	0.00
900.0-950.0	100.00	0.00	0.00
950.0-1000.0	100.00	0.00	0.00
1000.0-1050.0	100.00	0.00	0.00
1050.0-1100.0	100.00	0.00	0.00
1100.0-1150.0	100.00	0.00	0.00
1150.0-1200.0	100.00	0.00	0.00
1200.0-1250.0	100.00	0.00	0.00
1250.0-1300.0	100.00	0.00	0.00
1300.0-1350.0	100.00	0.00	0.00
1350.0-1400.0	100.00	0.00	0.00
1400.0-1450.0	100.00	0.00	0.00
1450.0-1500.0	100.00	0.00	0.00
1500.0-1550.0	100.00	0.00	0.00
1550.0-1600.0	100.00	0.00	0.00
1600.0-1650.0	100.00	0.00	0.00
1650.0-1700.0	100.00	0.00	0.00
1700.0-1750.0	100.00	0.00	0.00
1750.0-1800.0	100.00	0.00	0.00
1800.0-1850.0	100.00	0.00	0.00
1850.0-1900.0	100.00	0.00	0.00
1900.0-1950.0	100.00	0.00	0.00
1950.0-2000.0	100.00	0.00	0.00

Customer:	Hill Laboratories		
Setup created by:	user	Setup Date:	Dec 11 2018 14:45PM (GMT+13)
Measured by:	user	Measure Date:	Dec 23 2019 16:29PM (GMT+13)
Printed by:	user	Print Date:	Dec 23 2019 16:29PM (GMT+13)
System Model:	EYE TECH S/N:	SW Version:	2.1.1.3

Sample Name:	**229 6184.5(1)**	Result ID#:	**3267**
Sample Type:	Particles in liquid	Setup Name:	B-lens (v10)
Server Name:	niwa-1012125		

Comments: Weir Board Discharge 2 Inshore. 16/12/19.
EU5, not ultrasounded.

Laser lens:	B100	Video lens:	DW
Meas. Range:	10.0 - 3600.0	Stirrer:	None
Meas. Time:	399 Sec.	Status:	Standard
Cell Type:	ACM-104A Liquid flow (10x10mm)	Accessories:	EyeFlow
Calibration mode:	Not Active	Particles existence:	Active. Stabilization time (10 sec.)
Illumination:	Exposure: 1, Intensity: 4	Image control:	Gain:0, Contrast:181, Brightness:37
Cleaning Test:	Not Active		

Meas. Mode: AND:Time(900 Sec.) Aborted

Preparation instructions: Ensure sample is not too cold or you may get condensation on the outside of the flowcell

Statistics Info (ID#:3267)

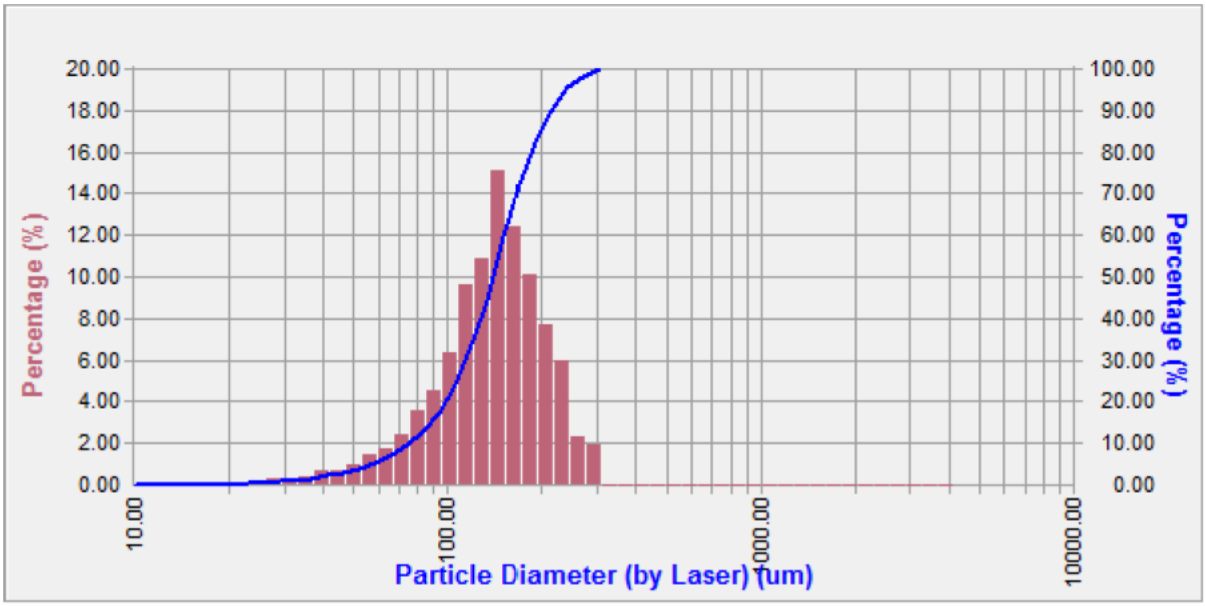
Concentration:	6.4e+003 #/ml	Concentration:	1.3e+003 ppm
Solids:	1.34e-001	Specific Area:	0.0007 cm2/ml

Mean diameter by:	Size(um)	STD(um)	Conf.(%)	Dimension	D10(um)	D50(um)	D90(um)	Mode(um)
Length, D[1,0]	49.18	41.01	98.64	Number	13.67	33.43	111.32	13.67
Length weighted, D[2,1]	83.37	52.78	99.88	Length	22.97	75.28	155.49	25.30
Surface Weighted, D[3,2]	116.78	54.54	100.00	Surface	43.90	115.97	188.04	141.54
Volume Weighted, D[4,3]	142.25	53.44	100.00	Volume	75.28	139.22	214.78	141.54

Volume Histogram and Cumulative Undersize (ID#:3267)

Mean: 142.25 um STD: 53.44 um Conf.: 100.00 %

D10 : 75.28 um D50: 139.22 um D90: 214.78 um



Volume Particle Diameter (by Laser) Percentage Table (ID#:3267)

Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)
0.00	10.00		30.00	113.64		55.00	145.03		80.00	184.56
5.00	56.68		35.00	120.62		60.00	150.84		85.00	197.34
10.00	75.28		40.00	127.59		65.00	158.98		90.00	214.78
15.00	88.07		45.00	133.41		70.00	165.96		95.00	234.54
20.00	97.37		50.00	139.22		75.00	174.09		100.00	299.64
25.00	106.67									

Volume Particle Diameter (by Laser) Ranges (Wentworth Classes) Table (ID#:3267)

Range(um)	Under(%)	Local(%)	Over(%)
10.0-15.6	0.00	0.06	99.94
15.6-31.2	0.06	0.95	98.99
31.2-62.5	1.01	5.43	93.56
62.5-125.0	6.44	31.04	62.51

Range(um)	Under(%)	Local(%)	Over(%)
125.0-250.0	37.49	59.01	3.50
250.0-500.0	96.50	3.50	0.00
500.0-1000.0	100.00	0.00	0.00
1000.0-2000.0	100.00	0.00	0.00

Volume Particle Diameter (by Laser) Ranges (detailed classes) Table (ID#:3267)

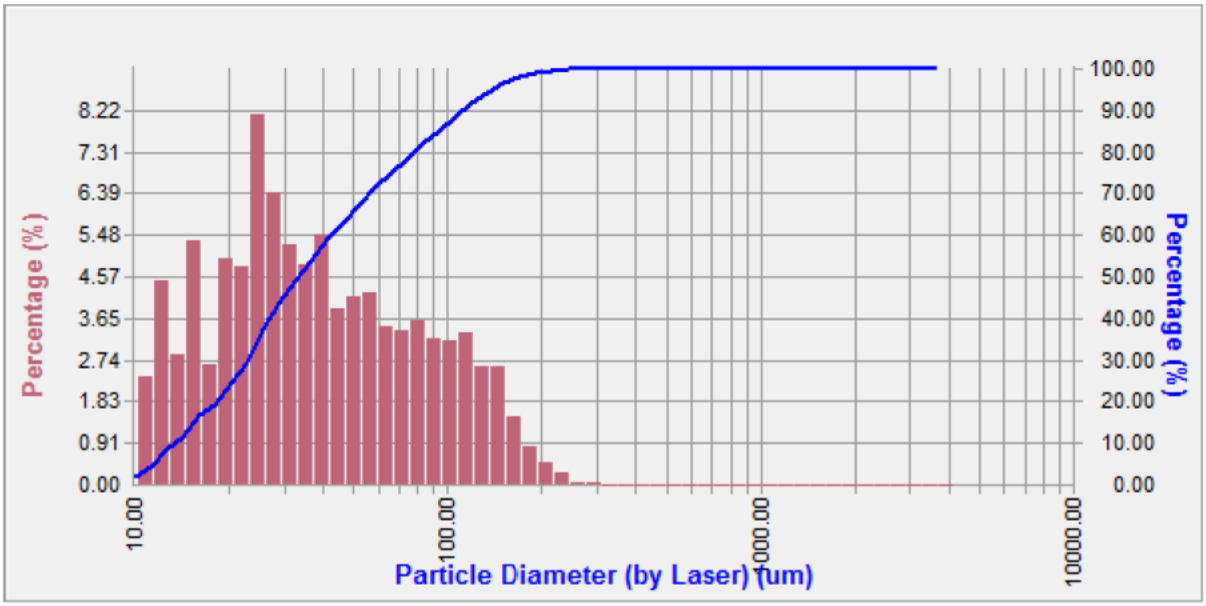
Range(um)	Under(%)	Local(%)	Over(%)
10.0-12.0	0.00	0.01	99.99
12.0-14.0	0.01	0.03	99.96
14.0-16.0	0.04	0.04	99.92
16.0-18.0	0.08	0.03	99.89
18.0-20.0	0.11	0.07	99.82
20.0-25.0	0.18	0.25	99.58
25.0-30.0	0.42	0.48	99.10
30.0-35.0	0.90	0.48	98.62
35.0-40.0	1.38	0.64	97.97
40.0-45.0	2.03	0.67	97.30
45.0-50.0	2.70	0.94	96.36
50.0-55.0	3.64	0.89	95.47
55.0-60.0	4.53	1.03	94.44
60.0-65.0	5.56	1.46	92.98
65.0-70.0	7.02	1.24	91.74
70.0-75.0	8.26	1.56	90.18
75.0-80.0	9.82	2.39	87.78
80.0-85.0	12.22	1.65	86.14
85.0-90.0	13.86	2.18	83.96
90.0-95.0	16.04	2.05	81.92
95.0-100.0	18.08	3.27	78.65
100.0-110.0	21.35	5.82	72.83
110.0-120.0	27.17	7.06	65.77
120.0-130.0	34.23	7.91	57.86
130.0-140.0	42.14	8.06	49.80
140.0-150.0	50.20	9.32	40.48
150.0-160.0	59.52	6.14	34.34
160.0-170.0	65.66	7.05	27.29
170.0-180.0	72.71	5.66	21.64
180.0-190.0	78.36	3.62	18.02
190.0-200.0	81.98	4.63	13.39
200.0-220.0	86.61	4.74	8.65
220.0-240.0	91.35	4.35	4.31
240.0-260.0	95.69	1.34	2.97
260.0-280.0	97.03	2.01	0.96
280.0-300.0	99.04	0.96	0.00
300.0-320.0	100.00	0.00	0.00
320.0-340.0	100.00	0.00	0.00
340.0-360.0	100.00	0.00	0.00
360.0-380.0	100.00	0.00	0.00
380.0-400.0	100.00	0.00	0.00
400.0-420.0	100.00	0.00	0.00
420.0-440.0	100.00	0.00	0.00
440.0-460.0	100.00	0.00	0.00
460.0-480.0	100.00	0.00	0.00
480.0-500.0	100.00	0.00	0.00
500.0-550.0	100.00	0.00	0.00

Range(um)	Under(%)	Local(%)	Over(%)
550.0-600.0	100.00	0.00	0.00
600.0-650.0	100.00	0.00	0.00
650.0-700.0	100.00	0.00	0.00
700.0-750.0	100.00	0.00	0.00
750.0-800.0	100.00	0.00	0.00
800.0-850.0	100.00	0.00	0.00
850.0-900.0	100.00	0.00	0.00
900.0-950.0	100.00	0.00	0.00
950.0-1000.0	100.00	0.00	0.00
1000.0-1050.0	100.00	0.00	0.00
1050.0-1100.0	100.00	0.00	0.00
1100.0-1150.0	100.00	0.00	0.00
1150.0-1200.0	100.00	0.00	0.00
1200.0-1250.0	100.00	0.00	0.00
1250.0-1300.0	100.00	0.00	0.00
1300.0-1350.0	100.00	0.00	0.00
1350.0-1400.0	100.00	0.00	0.00
1400.0-1450.0	100.00	0.00	0.00
1450.0-1500.0	100.00	0.00	0.00
1500.0-1550.0	100.00	0.00	0.00
1550.0-1600.0	100.00	0.00	0.00
1600.0-1650.0	100.00	0.00	0.00
1650.0-1700.0	100.00	0.00	0.00
1700.0-1750.0	100.00	0.00	0.00
1750.0-1800.0	100.00	0.00	0.00
1800.0-1850.0	100.00	0.00	0.00
1850.0-1900.0	100.00	0.00	0.00
1900.0-1950.0	100.00	0.00	0.00
1950.0-2000.0	100.00	0.00	0.00

Number Histogram and Cumulative Undersize (ID#:3267)

Mean: 49.18 um STD: 41.01 um Conf.: 98.64 %

D10 : 13.67 um D50: 33.43 um D90: 111.32 um



Number Particle Diameter (by Laser) Percentage Table (ID#:3267)

Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)
0.00	10.00		30.00	22.97		55.00	36.92		80.00	77.61
5.00	11.35		35.00	25.30		60.00	41.57		85.00	92.72
10.00	13.67		40.00	27.62		65.00	48.55		90.00	111.32
15.00	16.00		45.00	29.95		70.00	55.52		95.00	136.89
20.00	18.32		50.00	33.43		75.00	64.82		100.00	299.64
25.00	20.65									

Number Particle Diameter (by Laser) Ranges (Wentworth Classes) Table (ID#:3267)

Range(um)	Under(%)	Local(%)	Over(%)
10.0-15.6	0.00	14.82	85.18
15.6-31.2	14.82	32.97	52.21
31.2-62.5	47.79	26.36	25.85
62.5-125.0	74.16	18.61	7.23

Range(um)	Under(%)	Local(%)	Over(%)
125.0-250.0	92.77	7.15	0.08
250.0-500.0	99.91	0.09	0.00
500.0-1000.0	100.00	0.00	0.00
1000.0-2000.0	100.00	0.00	0.00

Number Particle Diameter (by Laser) Ranges (detailed classes) Table (ID#:3267)

Range(um)	Under(%)	Local(%)	Over(%)
10.0-12.0	0.00	6.92	93.08
12.0-14.0	6.92	5.22	87.86
14.0-16.0	12.14	5.30	82.56
16.0-18.0	17.44	2.61	79.96
18.0-20.0	20.05	4.91	75.04
20.0-25.0	24.96	10.17	64.87
25.0-30.0	35.13	10.90	53.97
30.0-35.0	46.03	6.49	47.48
35.0-40.0	52.52	5.80	41.67
40.0-45.0	58.33	4.28	37.39
45.0-50.0	62.61	4.21	33.19
50.0-55.0	66.81	2.92	30.28
55.0-60.0	69.72	2.61	27.67
60.0-65.0	72.33	2.86	24.81
65.0-70.0	75.19	1.89	22.92
70.0-75.0	77.09	1.95	20.97
75.0-80.0	79.04	2.43	18.53
80.0-85.0	81.46	1.38	17.16
85.0-90.0	82.83	1.55	15.61
90.0-95.0	84.40	1.23	14.37
95.0-100.0	85.63	1.69	12.69
100.0-110.0	87.31	2.39	10.30
110.0-120.0	89.69	2.23	8.08
120.0-130.0	91.92	1.92	6.16
130.0-140.0	93.85	1.55	4.60
140.0-150.0	95.40	1.47	3.13
150.0-160.0	96.87	0.79	2.34
160.0-170.0	97.66	0.75	1.59
170.0-180.0	98.41	0.50	1.09
180.0-190.0	98.90	0.28	0.82
190.0-200.0	99.18	0.29	0.52
200.0-220.0	99.47	0.25	0.28
220.0-240.0	99.72	0.18	0.11
240.0-260.0	99.90	0.03	0.07
260.0-280.0	99.92	0.06	0.02
280.0-300.0	99.99	0.01	0.00
300.0-320.0	100.00	0.00	0.00
320.0-340.0	100.00	0.00	0.00
340.0-360.0	100.00	0.00	0.00
360.0-380.0	100.00	0.00	0.00
380.0-400.0	100.00	0.00	0.00
400.0-420.0	100.00	0.00	0.00
420.0-440.0	100.00	0.00	0.00
440.0-460.0	100.00	0.00	0.00
460.0-480.0	100.00	0.00	0.00
480.0-500.0	100.00	0.00	0.00
500.0-550.0	100.00	0.00	0.00

Range(um)	Under(%)	Local(%)	Over(%)
550.0-600.0	100.00	0.00	0.00
600.0-650.0	100.00	0.00	0.00
650.0-700.0	100.00	0.00	0.00
700.0-750.0	100.00	0.00	0.00
750.0-800.0	100.00	0.00	0.00
800.0-850.0	100.00	0.00	0.00
850.0-900.0	100.00	0.00	0.00
900.0-950.0	100.00	0.00	0.00
950.0-1000.0	100.00	0.00	0.00
1000.0-1050.0	100.00	0.00	0.00
1050.0-1100.0	100.00	0.00	0.00
1100.0-1150.0	100.00	0.00	0.00
1150.0-1200.0	100.00	0.00	0.00
1200.0-1250.0	100.00	0.00	0.00
1250.0-1300.0	100.00	0.00	0.00
1300.0-1350.0	100.00	0.00	0.00
1350.0-1400.0	100.00	0.00	0.00
1400.0-1450.0	100.00	0.00	0.00
1450.0-1500.0	100.00	0.00	0.00
1500.0-1550.0	100.00	0.00	0.00
1550.0-1600.0	100.00	0.00	0.00
1600.0-1650.0	100.00	0.00	0.00
1650.0-1700.0	100.00	0.00	0.00
1700.0-1750.0	100.00	0.00	0.00
1750.0-1800.0	100.00	0.00	0.00
1800.0-1850.0	100.00	0.00	0.00
1850.0-1900.0	100.00	0.00	0.00
1900.0-1950.0	100.00	0.00	0.00
1950.0-2000.0	100.00	0.00	0.00

Customer:	Hill Laboratories		
Setup created by:	user	Setup Date:	Dec 11 2018 14:45PM (GMT+13)
Measured by:	user	Measure Date:	Dec 23 2019 17:40PM (GMT+13)
Printed by:	user	Print Date:	Dec 23 2019 17:41PM (GMT+13)
System Model:	EYE TECH S/N:	SW Version:	2.1.1.3

Sample Name:	**229 6184.6(1)**	Result ID#:	**3268**
Sample Type:	Particles in liquid	Setup Name:	B-lens (v10)
Server Name:	niwa-1012125		

Comments: Weir Board Discharge 3 Inshore. 16/12/19.
EU6, not ultrasounded.

Laser lens:	B100	Video lens:	DW
Meas. Range:	10.0 - 3600.0	Stirrer:	None
Meas. Time:	401 Sec.	Status:	Standard
Cell Type:	ACM-104A Liquid flow (10x10mm)	Accessories:	EyeFlow
Calibration mode:	Not Active	Particles existence:	Active. Stabilization time (10 sec.)
Illumination:	Exposure: 1, Intensity: 4	Image control:	Gain:0, Contrast:181, Brightness:37
Cleaning Test:	Not Active		

Meas. Mode: AND:Time(900 Sec.) Aborted

Preparation instructions: Ensure sample is not too cold or you may get condensation on the outside of the flowcell

Statistics Info (ID#:3268)

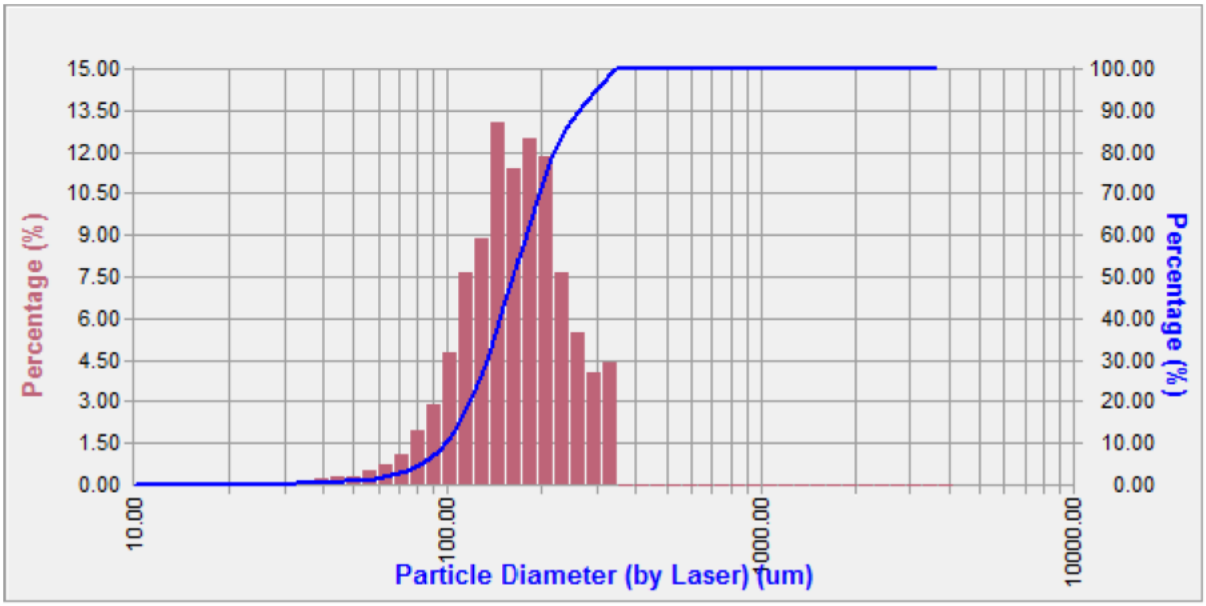
Concentration:	8.5e+003 #/ml	Concentration:	4.9e+003 ppm
Solids:	4.87e-001	Specific Area:	0.002 cm2/ml

Mean diameter by:	Size(um)	STD(um)	Conf.(%)	Dimension	D10(um)	D50(um)	D90(um)	Mode(um)
Length, D[1,0]	77.79	53.99	99.96	Number	19.47	65.95	150.77	25.28
Length weighted, D[2,1]	115.25	58.68	100.00	Length	39.23	111.27	191.44	106.62
Surface Weighted, D[3,2]	145.13	60.27	100.00	Surface	74.08	137.99	222.81	134.51
Volume Weighted, D[4,3]	170.16	62.74	100.00	Volume	97.32	162.39	258.83	135.67

Volume Histogram and Cumulative Undersize (ID#:3268)

Mean: 170.16 um STD: 62.74 um Conf.: 100.00 %

D10 : 97.32 um D50: 162.39 um D90: 258.83 um



Volume Particle Diameter (by Laser) Percentage Table (ID#:3268)

Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)
0.00	10.00		30.00	133.34		55.00	170.53		80.00	218.16
5.00	81.06		35.00	140.31		60.00	177.50		85.00	234.43
10.00	97.32		40.00	146.12		65.00	186.79		90.00	258.83
15.00	107.78		45.00	154.26		70.00	196.09		95.00	299.50
20.00	117.08		50.00	162.39		75.00	205.38		100.00	341.33
25.00	125.21									

Volume Particle Diameter (by Laser) Ranges (Wentworth Classes) Table (ID#:3268)

Range(um)	Under(%)	Local(%)	Over(%)
10.0-15.6	0.00	0.01	99.99
15.6-31.2	0.01	0.21	99.78
31.2-62.5	0.22	1.93	97.85
62.5-125.0	2.15	22.27	75.58

Range(um)	Under(%)	Local(%)	Over(%)
125.0-250.0	24.42	63.99	11.59
250.0-500.0	88.41	11.59	0.00
500.0-1000.0	100.00	0.00	0.00
1000.0-2000.0	100.00	0.00	0.00

Volume Particle Diameter (by Laser) Ranges (detailed classes) Table (ID#:3268)

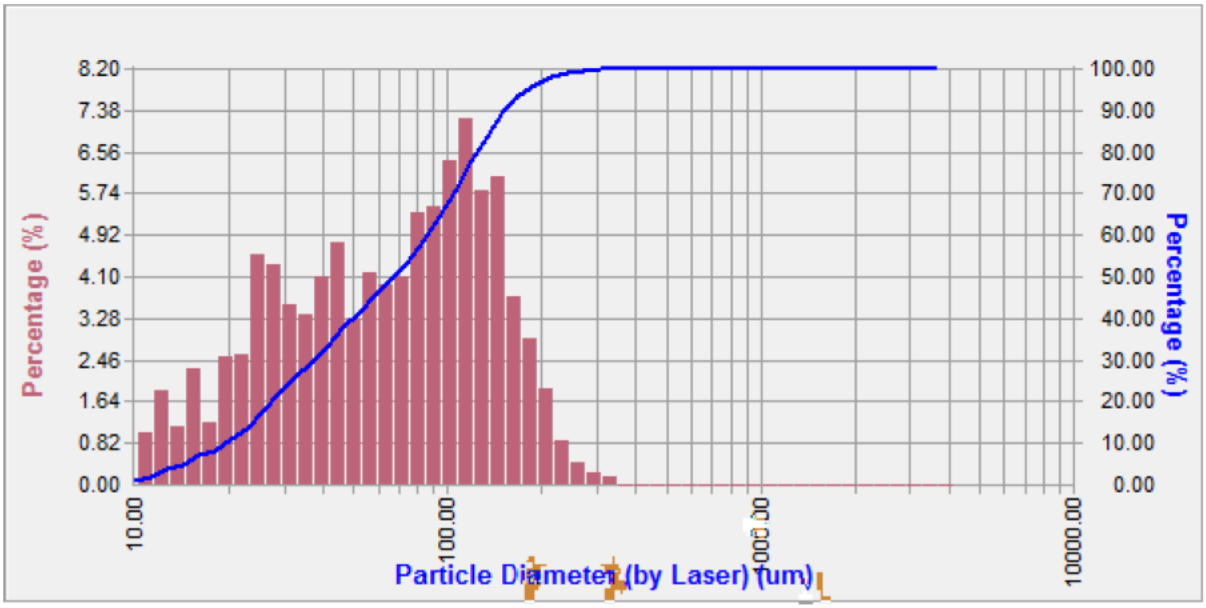
Range(um)	Under(%)	Local(%)	Over(%)
10.0-12.0	0.00	0.00	100.00
12.0-14.0	0.00	0.01	99.99
14.0-16.0	0.01	0.00	99.99
16.0-18.0	0.01	0.01	99.98
18.0-20.0	0.02	0.01	99.97
20.0-25.0	0.03	0.05	99.92
25.0-30.0	0.08	0.11	99.81
30.0-35.0	0.19	0.13	99.68
35.0-40.0	0.32	0.17	99.51
40.0-45.0	0.49	0.22	99.29
45.0-50.0	0.71	0.37	98.92
50.0-55.0	1.08	0.31	98.61
55.0-60.0	1.39	0.39	98.22
60.0-65.0	1.78	0.62	97.60
65.0-70.0	2.40	0.58	97.02
70.0-75.0	2.98	0.66	96.36
75.0-80.0	3.64	1.22	95.14
80.0-85.0	4.86	1.07	94.07
85.0-90.0	5.93	1.22	92.85
90.0-95.0	7.15	2.04	90.81
95.0-100.0	9.19	1.88	88.93
100.0-110.0	11.07	4.67	84.26
110.0-120.0	15.74	5.73	78.53
120.0-130.0	21.47	6.62	71.91
130.0-140.0	28.09	6.79	65.12
140.0-150.0	34.88	7.81	57.31
150.0-160.0	42.69	5.60	51.71
160.0-170.0	48.29	6.41	45.30
170.0-180.0	54.70	6.68	38.62
180.0-190.0	61.38	5.22	33.40
190.0-200.0	66.60	5.55	27.85
200.0-220.0	72.15	8.49	19.36
220.0-240.0	80.64	5.45	13.91
240.0-260.0	86.09	4.12	9.79
260.0-280.0	90.21	2.72	7.07
280.0-300.0	92.93	2.17	4.90
300.0-320.0	95.10	2.54	2.36
320.0-340.0	97.64	2.31	0.05
340.0-360.0	99.95	0.05	0.00
360.0-380.0	100.00	0.00	0.00
380.0-400.0	100.00	0.00	0.00
400.0-420.0	100.00	0.00	0.00
420.0-440.0	100.00	0.00	0.00
440.0-460.0	100.00	0.00	0.00
460.0-480.0	100.00	0.00	0.00
480.0-500.0	100.00	0.00	0.00
500.0-550.0	100.00	0.00	0.00

Range(um)	Under(%)	Local(%)	Over(%)
550.0-600.0	100.00	0.00	0.00
600.0-650.0	100.00	0.00	0.00
650.0-700.0	100.00	0.00	0.00
700.0-750.0	100.00	0.00	0.00
750.0-800.0	100.00	0.00	0.00
800.0-850.0	100.00	0.00	0.00
850.0-900.0	100.00	0.00	0.00
900.0-950.0	100.00	0.00	0.00
950.0-1000.0	100.00	0.00	0.00
1000.0-1050.0	100.00	0.00	0.00
1050.0-1100.0	100.00	0.00	0.00
1100.0-1150.0	100.00	0.00	0.00
1150.0-1200.0	100.00	0.00	0.00
1200.0-1250.0	100.00	0.00	0.00
1250.0-1300.0	100.00	0.00	0.00
1300.0-1350.0	100.00	0.00	0.00
1350.0-1400.0	100.00	0.00	0.00
1400.0-1450.0	100.00	0.00	0.00
1450.0-1500.0	100.00	0.00	0.00
1500.0-1550.0	100.00	0.00	0.00
1550.0-1600.0	100.00	0.00	0.00
1600.0-1650.0	100.00	0.00	0.00
1650.0-1700.0	100.00	0.00	0.00
1700.0-1750.0	100.00	0.00	0.00
1750.0-1800.0	100.00	0.00	0.00
1800.0-1850.0	100.00	0.00	0.00
1850.0-1900.0	100.00	0.00	0.00
1900.0-1950.0	100.00	0.00	0.00
1950.0-2000.0	100.00	0.00	0.00

Number Histogram and Cumulative Undersize (ID#:3268)

Mean: 77.79 um STD: 53.99 um Conf.: 99.96 %

D10 : 19.47 um D50: 65.95 um D90: 150.77 um



Number Particle Diameter (by Laser) Percentage Table (ID#:3268)

Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)		Under(%)	Size(um)
0.00	10.00		30.00	36.90		55.00	76.41		80.00	122.89
5.00	14.83		35.00	42.71		60.00	84.54		85.00	135.67
10.00	19.47		40.00	49.68		65.00	93.84		90.00	150.77
15.00	24.12		45.00	57.82		70.00	103.13		95.00	178.66
20.00	27.61		50.00	65.95		75.00	112.43		100.00	341.33
25.00	32.26									

Number Particle Diameter (by Laser) Ranges (Wentworth Classes) Table (ID#:3268)

Range(um)	Under(%)	Local(%)	Over(%)
10.0-15.6	0.00	6.15	93.85
15.6-31.2	6.15	18.65	75.20
31.2-62.5	24.80	23.57	51.63
62.5-125.0	48.37	32.27	19.36

Range(um)	Under(%)	Local(%)	Over(%)
125.0-250.0	80.65	18.72	0.63
250.0-500.0	99.37	0.63	0.00
500.0-1000.0	100.00	0.00	0.00
1000.0-2000.0	100.00	0.00	0.00

Number Particle Diameter (by Laser) Ranges (detailed classes) Table (ID#:3268)

Range(um)	Under(%)	Local(%)	Over(%)
10.0-12.0	0.00	2.87	97.13
12.0-14.0	2.87	2.19	94.94
14.0-16.0	5.06	2.26	92.68
16.0-18.0	7.32	1.22	91.46
18.0-20.0	8.54	2.51	88.94
20.0-25.0	11.06	5.47	83.48
25.0-30.0	16.52	7.13	76.35
30.0-35.0	23.65	4.66	71.68
35.0-40.0	28.31	4.14	67.54
40.0-45.0	32.46	3.87	63.67
45.0-50.0	36.32	4.44	59.24
50.0-55.0	40.77	2.83	56.40
55.0-60.0	43.59	2.72	53.69
60.0-65.0	46.32	3.26	50.42
65.0-70.0	49.57	2.44	47.99
70.0-75.0	52.02	2.27	45.71
75.0-80.0	54.29	3.38	42.33
80.0-85.0	57.66	2.46	39.87
85.0-90.0	60.13	2.35	37.51
90.0-95.0	62.49	3.32	34.20
95.0-100.0	65.80	2.60	31.60
100.0-110.0	68.40	5.23	26.37
110.0-120.0	73.63	4.92	21.45
120.0-130.0	78.55	4.39	17.06
130.0-140.0	82.93	3.58	13.48
140.0-150.0	86.52	3.34	10.14
150.0-160.0	89.86	1.96	8.17
160.0-170.0	91.82	1.87	6.31
170.0-180.0	93.70	1.61	4.69
180.0-190.0	95.30	1.08	3.62
190.0-200.0	96.38	0.98	2.64
200.0-220.0	97.36	1.21	1.43
220.0-240.0	98.57	0.59	0.84
240.0-260.0	99.16	0.35	0.49
260.0-280.0	99.50	0.18	0.31
280.0-300.0	99.69	0.11	0.20
300.0-320.0	99.80	0.11	0.09
320.0-340.0	99.92	0.08	0.00
340.0-360.0	100.00	0.00	0.00
360.0-380.0	100.00	0.00	0.00
380.0-400.0	100.00	0.00	0.00
400.0-420.0	100.00	0.00	0.00
420.0-440.0	100.00	0.00	0.00
440.0-460.0	100.00	0.00	0.00
460.0-480.0	100.00	0.00	0.00
480.0-500.0	100.00	0.00	0.00
500.0-550.0	100.00	0.00	0.00

Range(um)	Under(%)	Local(%)	Over(%)
550.0-600.0	100.00	0.00	0.00
600.0-650.0	100.00	0.00	0.00
650.0-700.0	100.00	0.00	0.00
700.0-750.0	100.00	0.00	0.00
750.0-800.0	100.00	0.00	0.00
800.0-850.0	100.00	0.00	0.00
850.0-900.0	100.00	0.00	0.00
900.0-950.0	100.00	0.00	0.00
950.0-1000.0	100.00	0.00	0.00
1000.0-1050.0	100.00	0.00	0.00
1050.0-1100.0	100.00	0.00	0.00
1100.0-1150.0	100.00	0.00	0.00
1150.0-1200.0	100.00	0.00	0.00
1200.0-1250.0	100.00	0.00	0.00
1250.0-1300.0	100.00	0.00	0.00
1300.0-1350.0	100.00	0.00	0.00
1350.0-1400.0	100.00	0.00	0.00
1400.0-1450.0	100.00	0.00	0.00
1450.0-1500.0	100.00	0.00	0.00
1500.0-1550.0	100.00	0.00	0.00
1550.0-1600.0	100.00	0.00	0.00
1600.0-1650.0	100.00	0.00	0.00
1650.0-1700.0	100.00	0.00	0.00
1700.0-1750.0	100.00	0.00	0.00
1750.0-1800.0	100.00	0.00	0.00
1800.0-1850.0	100.00	0.00	0.00
1850.0-1900.0	100.00	0.00	0.00
1900.0-1950.0	100.00	0.00	0.00
1950.0-2000.0	100.00	0.00	0.00

AMBIENT CTD CAST Data

DD MMM YYYY HH:MM:SS	DD MMM YYYY HH:MM:SS	DepSM	Tv290C	Sal00	FlECO-AFL	Par	TurbWETntu0	C0uS/cm	Sbeox0Mg/L	Sbeox0PS	PrdM	Dz/dtM	AccM	Sigma-t00	Flag
10/12/2019	8:07:23 AM	0.449	17.9696	35.3294	0.2875	4.76E-02	0.1194	4.63E+04	7.9348	103.499	0.247	-0.304	-0.02	25.5323	0.00E+00
10/12/2019	8:07:23 AM	0.451	17.97	35.3291	0.2852	4.76E-02	0.1163	4.63E+04	7.9372	103.529	0.27	-0.271	0.13	25.5319	0.00E+00
10/12/2019	8:07:23 AM	0.459	17.969	35.3295	0.2982	4.76E-02	0.1272	4.63E+04	7.9402	103.57	0.261	-0.3	-0.1	25.5325	0.00E+00
10/12/2019	8:07:23 AM	0.464	17.9702	35.3287	0.2875	4.76E-02	0.1163	4.63E+04	7.9367	103.523	0.3	-0.207	0.25	25.5314	0.00E+00
10/12/2019	8:09:12 AM	0.471	17.9635	34.5323	0.2867	4.76E-02	0.1287	4.53E+04	7.1384	93.084	0.559	-0.119	0	24.9245	0.00E+00
10/12/2019	8:07:23 AM	0.481	17.9683	35.3294	0.2982	4.76E-02	0.1256	4.63E+04	7.937	103.528	0.317	-0.275	-0.12	25.5326	0.00E+00
10/12/2019	8:07:24 AM	0.489	17.9701	35.3282	0.2867	4.76E-02	0.1194	4.63E+04	7.9321	103.464	0.313	-0.135	0.29	25.5309	0.00E+00
10/12/2019	8:07:24 AM	0.525	17.9698	35.3277	0.3111	4.76E-02	0.1614	4.63E+04	7.9276	103.406	0.315	-0.064	0.28	25.5305	0.00E+00
10/12/2019	8:09:12 AM	0.554	17.9639	34.8505	0.2882	4.76E-02	0.1381	4.57E+04	7.1552	93.302	0.725	-0.118	0.25	25.1675	0.00E+00
10/12/2019	8:07:24 AM	0.574	17.9692	35.3273	0.3111	4.76E-02	0.166	4.63E+04	7.9294	103.427	0.335	-0.005	0.24	25.5301	0.00E+00
10/12/2019	8:09:12 AM	0.63	17.964	35.0414	0.2844	4.76E-02	0.1334	4.59E+04	7.1734	93.543	0.723	-0.18	0.31	25.3133	0.00E+00
10/12/2019	8:07:24 AM	0.637	17.9682	35.3267	0.3134	4.76E-02	0.1598	4.63E+04	7.9258	103.376	0.402	0.049	0.22	25.5298	0.00E+00
10/12/2019	8:09:11 AM	0.699	17.964	35.156	0.2875	4.76E-02	0.1334	4.60E+04	7.1971	93.855	0.708	-0.259	0.38	25.401	0.00E+00
10/12/2019	8:07:25 AM	0.715	17.9669	35.3259	0.3111	4.76E-02	0.1583	4.62E+04	7.9305	103.428	0.515	0.108	0.24	25.5293	0.00E+00
10/12/2019	8:09:11 AM	0.768	17.9639	35.2252	0.2875	4.76E-02	0.135	4.61E+04	7.2218	94.176	0.713	-0.353	0.41	25.454	0.00E+00
10/12/2019	8:07:25 AM	0.806	17.9653	35.3251	0.2844	4.76E-02	0.1629	4.62E+04	7.9284	103.388	0.634	0.167	0.24	25.529	0.00E+00
10/12/2019	8:09:11 AM	0.84	17.9636	35.2671	0.2982	4.76E-02	0.1194	4.62E+04	7.2625	94.706	0.737	-0.457	0.43	25.4862	0.00E+00
10/12/2019	8:07:25 AM	0.908	17.9639	35.3249	0.2905	4.76E-02	0.1645	4.62E+04	7.93	103.398	0.756	0.229	0.25	25.5291	0.00E+00
10/12/2019	8:09:11 AM	0.919	17.963	35.2925	0.2989	4.76E-02	0.1132	4.62E+04	7.3081	95.299	0.782	-0.565	0.47	25.506	0.00E+00
10/12/2019	8:09:11 AM	1.007	17.962	35.3078	0.2997	4.76E-02	0.1194	4.62E+04	7.3539	95.894	0.844	-0.682	0.4	25.518	0.00E+00
10/12/2019	8:07:26 AM	1.019	17.9629	35.3252	0.2875	4.76E-02	0.1614	4.62E+04	7.9311	103.405	0.897	0.302	0.29	25.5298	0.00E+00
10/12/2019	8:09:10 AM	1.105	17.9606	35.3169	0.2989	4.76E-02	0.1148	4.62E+04	7.4123	96.653	0.879	-0.781	0.24	25.5254	0.00E+00
10/12/2019	8:07:26 AM	1.138	17.9621	35.3258	0.2852	4.76E-02	0.1598	4.62E+04	7.9325	103.42	1.071	0.39	0.35	25.5306	0.00E+00
10/12/2019	8:09:10 AM	1.218	17.959	35.3222	0.2989	4.76E-02	0.0914	4.62E+04	7.4831	97.573	0.965	-0.842	0.07	25.5298	0.00E+00
10/12/2019	8:07:26 AM	1.262	17.9616	35.3265	0.2852	4.76E-02	0.1225	4.62E+04	7.9365	103.47	1.267	0.483	0.37	25.5313	0.00E+00
10/12/2019	8:09:10 AM	1.346	17.9573	35.3252	0.2966	4.76E-02	0.0914	4.62E+04	7.5419	98.337	1.097	-0.86	-0.03	25.5325	0.00E+00
10/12/2019	8:07:26 AM	1.385	17.9611	35.3268	0.2875	4.76E-02	0.1163	4.62E+04	7.9332	103.426	1.461	0.565	0.33	25.5317	0.00E+00
10/12/2019	8:09:09 AM	1.49	17.9557	35.3269	0.3027	4.76E-02	0.0977	4.62E+04	7.6269	99.447	1.252	-0.852	-0.13	25.5342	0.00E+00
10/12/2019	8:07:26 AM	1.505	17.9605	35.3267	0.2867	4.76E-02	0.121	4.62E+04	7.9315	103.403	1.621	0.62	0.22	25.5318	0.00E+00
10/12/2019	8:07:27 AM	1.619	17.9601	35.3267	0.2875	4.76E-02	0.1256	4.62E+04	7.9388	103.496	1.712	0.635	0.06	25.5319	0.00E+00
10/12/2019	8:09:09 AM	1.649	17.9541	35.3282	0.2966	4.76E-02	0.0945	4.62E+04	8.6814	100.753	1.464	-0.82	-0.13	25.5356	0.00E+00
10/12/2019	8:07:27 AM	1.729	17.9597	35.3268	0.289	4.76E-02	0.1241	4.62E+04	7.945	103.57	1.734	0.607	-0.11	25.5321	0.00E+00
10/12/2019	8:09:09 AM	1.819	17.9526	35.3293	0.2875	4.76E-02	0.1365	4.62E+04	9.2189	101.88	1.68	-0.788	-0.07	25.5368	0.00E+00
10/12/2019	8:07:27 AM	1.839	17.9594	35.3269	0.3073	4.76E-02	0.1194	4.62E+04	7.9487	103.611	1.737	0.538	-0.28	25.5324	0.00E+00
10/12/2019	8:07:28 AM	1.957	17.959	35.3271	0.3127	4.76E-02	0.1241	4.62E+04	7.9543	103.679	1.767	0.444	-0.38	25.5326	0.00E+00
10/12/2019	8:09:09 AM	1.999	17.951	35.33	0.289	4.76E-02	0.1365	4.62E+04	7.9774	102.828	1.911	-0.77	-0.03	25.5379	0.00E+00
10/12/2019	8:07:28 AM	2.085	17.9587	35.3271	0.3119	4.76E-02	0.1241	4.62E+04	7.9493	103.611	1.871	0.358	-0.35	25.5327	0.00E+00
10/12/2019	8:09:09 AM	2.185	17.9492	35.3308	0.2837	4.76E-02	0.1365	4.62E+04	7.9315	103.457	2.178	-0.763	0.1	25.5391	0.00E+00
10/12/2019	8:07:28 AM	2.227	17.9583	35.3271	0.3142	4.76E-02	0.1163	4.62E+04	7.9461	103.567	2.05	0.312	-0.18	25.5328	0.00E+00
10/12/2019	8:09:08 AM	2.373	17.9472	35.332	0.2829	4.76E-02	0.1318	4.62E+04	7.9499	103.702	2.383	-0.788	0.09	25.5408	0.00E+00
10/12/2019	8:07:28 AM	2.38	17.9578	35.3271	0.3226	4.76E-02	0.1318	4.62E+04	7.9424	103.514	2.261	0.323	0.04	25.5329	0.00E+00
10/12/2019	8:07:28 AM	2.542	17.9571	35.327	0.3226	4.76E-02	0.1365	4.62E+04	7.9399	103.477	2.479	0.39	0.27	25.5329	0.00E+00
10/12/2019	8:09:08 AM	2.561	17.9448	35.3332	0.2951	4.76E-02	0.1194	4.62E+04	8.3554	103.704	2.582	-0.81	0.08	25.5426	0.00E+00
10/12/2019	8:07:29 AM	2.708	17.956	35.3266	0.3218	4.76E-02	0.135	4.62E+04	7.9418	103.499	2.696	0.5	0.44	25.5327	0.00E+00
10/12/2019	8:09:08 AM	2.749	17.9417	35.3339	0.2974	4.76E-02	0.1194	4.62E+04	7.9549	103.772	2.738	-0.83	0.01	25.5441	0.00E+00
10/12/2019	8:07:29 AM	2.876	17.954	35.3257	0.3233	4.76E-02	0.1256	4.62E+04	7.9463	103.557	2.905	0.625	0.5	25.5322	0.00E+00
10/12/2019	8:09:07 AM	2.939	17.9381	35.3343	0.2966	4.76E-02	0.1163	4.62E+04	7.9546	103.769	2.921	-0.832	-0.01	25.5453	0.00E+00
10/12/2019	8:07:29 AM	3.043	17.9511	35.3243	0.2974	4.76E-02	0.1163	4.62E+04	7.9437	103.524	3.107	0.732	0.43	25.5314	0.00E+00
10/12/2019	8:09:07 AM	3.131	17.9343	35.3345	0.3027	4.76E-02	0.1194	4.62E+04	7.9582	103.815	3.092	-0.829	-0.02	25.5464	0.00E+00
10/12/2019	8:07:30 AM	3.207	17.9475	35.3228	0.2974	4.76E-02	0.1256	4.62E+04	7.9462	103.555	3.298	0.798	0.27	25.5307	0.00E+00
10/12/2019	8:09:07 AM	3.326	17.9306	35.3351	0.2997	4.76E-02	0.1194	4.62E+04	7.9595	103.832	3.288	-0.825	-0.03	25.5478	0.00E+00
10/12/2019	8:07:30 AM	3.367	17.9435	35.3216	0.3004	4.76E-02	0.1163	4.62E+04	7.9461	103.555	3.48	0.82	0.08	25.5305	0.00E+00

10/12/2019	8:07:30 AM	3.521	17.9399	35.3213	0.2982	4.76E-02	0.1179	4.62E+04	7.9432	103.518	3.651	0.807	-0.05	25.5312	0.00E+00
10/12/2019	8:09:07 AM	3.524	17.9268	35.3359	0.3355	4.76E-02	0.1179	4.62E+04	7.9633	103.881	3.525	-0.817	0.03	25.5495	0.00E+00
10/12/2019	8:07:30 AM	3.669	17.937	35.3222	0.289	4.76E-02	0.1225	4.62E+04	7.9445	103.535	3.804	0.777	-0.12	25.5328	0.00E+00
10/12/2019	8:09:07 AM	3.723	17.9228	35.3362	0.3363	4.76E-02	0.1179	4.62E+04	7.9633	103.882	3.742	-0.825	-0.03	25.5507	0.00E+00
10/12/2019	8:07:30 AM	3.809	17.9347	35.3237	0.2859	4.76E-02	0.1132	4.62E+04	7.9462	103.556	3.931	0.733	-0.17	25.5349	0.00E+00
10/12/2019	8:09:06 AM	3.922	17.9186	35.3356	0.3348	4.76E-02	0.1225	4.62E+04	7.9594	103.83	3.984	-0.818	-0.07	25.5511	0.00E+00
10/12/2019	8:07:31 AM	3.944	17.933	35.325	0.2844	4.76E-02	0.1132	4.62E+04	7.9492	103.597	4.023	0.676	-0.23	25.5366	0.00E+00
10/12/2019	8:07:31 AM	4.075	17.9313	35.3258	0.2867	4.76E-02	0.121	4.62E+04	7.9524	103.638	4.093	0.606	-0.28	25.5378	0.00E+00
10/12/2019	8:09:06 AM	4.12	17.9145	35.3345	0.3355	4.76E-02	0.1241	4.62E+04	7.9566	103.794	4.169	-0.8	-0.17	25.5509	0.00E+00
10/12/2019	8:07:31 AM	4.206	17.9296	35.3261	0.2898	4.76E-02	0.1194	4.62E+04	7.9564	103.691	4.18	0.536	-0.28	25.5384	0.00E+00
10/12/2019	8:09:06 AM	4.316	17.911	35.3333	0.3699	4.76E-02	0.1334	4.62E+04	7.955	103.769	4.356	-0.758	-0.25	25.5505	0.00E+00
10/12/2019	8:07:31 AM	4.34	17.9275	35.326	0.2989	4.76E-02	0.1148	4.62E+04	7.9573	103.699	4.327	0.488	-0.19	25.5387	0.00E+00
10/12/2019	8:07:32 AM	4.476	17.9251	35.3256	0.2951	4.76E-02	0.1241	4.62E+04	7.9566	103.687	4.495	0.467	-0.08	25.5388	0.00E+00
10/12/2019	8:09:06 AM	4.51	17.9083	35.3322	0.3722	4.76E-02	0.1365	4.62E+04	7.9579	103.803	4.539	-0.696	-0.21	25.5499	0.00E+00
10/12/2019	8:07:32 AM	4.612	17.9227	35.3252	0.2982	4.76E-02	0.1272	4.62E+04	7.9572	103.692	4.644	0.466	0	25.5391	0.00E+00
10/12/2019	8:09:05 AM	4.705	17.9064	35.3311	0.3714	4.76E-02	0.1365	4.62E+04	7.9596	103.821	4.739	-0.643	-0.15	25.5492	0.00E+00
10/12/2019	8:07:32 AM	4.748	17.9205	35.3254	0.3004	4.76E-02	0.121	4.62E+04	7.9533	103.64	4.761	0.476	0.04	25.5398	0.00E+00
10/12/2019	8:07:33 AM	4.886	17.9187	35.3262	0.2959	4.76E-02	0.121	4.62E+04	7.9487	103.58	4.842	0.485	0.04	25.541	0.00E+00
10/12/2019	8:09:05 AM	4.898	17.9052	35.3302	0.3714	4.76E-02	0.1334	4.62E+04	7.9596	103.817	4.979	-0.605	0	25.5486	0.00E+00
10/12/2019	8:07:33 AM	5.028	17.917	35.3269	0.2989	4.76E-02	0.1179	4.62E+04	7.9435	103.511	4.958	0.498	0.05	25.5421	0.00E+00
10/12/2019	8:09:05 AM	5.088	17.9046	35.3298	0.3592	4.76E-02	0.1194	4.62E+04	7.9615	103.838	5.19	-0.606	0.13	25.5483	0.00E+00
10/12/2019	8:07:33 AM	5.175	17.9153	35.3273	0.3012	4.76E-02	0.1163	4.62E+04	7.9429	103.505	5.13	0.519	0.08	25.5428	0.00E+00
10/12/2019	8:09:04 AM	5.273	17.9044	35.3296	0.3584	4.76E-02	0.1256	4.62E+04	7.9669	103.906	5.432	-0.637	0.24	25.5481	0.00E+00
10/12/2019	8:07:33 AM	5.326	17.9138	35.3275	0.2959	4.76E-02	0.1163	4.62E+04	7.9375	103.436	5.324	0.541	0.09	25.5434	0.00E+00
10/12/2019	8:09:04 AM	5.452	17.9045	35.3297	0.3577	4.76E-02	0.1272	4.62E+04	7.9708	103.955	5.577	-0.697	0.26	25.5482	0.00E+00
10/12/2019	8:07:33 AM	5.479	17.9127	35.3281	0.2867	4.76E-02	0.121	4.62E+04	7.9368	103.43	5.506	0.558	0.07	25.5443	0.00E+00
10/12/2019	8:09:04 AM	5.624	17.9046	35.3301	0.3592	4.76E-02	0.1179	4.62E+04	7.9714	103.961	5.694	-0.762	0.18	25.5485	0.00E+00
10/12/2019	8:07:34 AM	5.633	17.9121	35.329	0.289	4.76E-02	0.1179	4.62E+04	7.9371	103.439	5.67	0.58	0.09	25.5453	0.00E+00
10/12/2019	8:07:34 AM	5.786	17.9117	35.3298	0.2852	4.76E-02	0.1194	4.62E+04	7.9392	103.467	5.815	0.607	0.11	25.5462	0.00E+00
10/12/2019	8:09:04 AM	5.795	17.9047	35.3305	0.3683	4.76E-02	0.0977	4.62E+04	7.9715	103.959	5.8	-0.806	0.09	25.549	0.00E+00
10/12/2019	8:07:34 AM	5.94	17.9116	35.3304	0.2829	4.76E-02	0.121	4.62E+04	7.9445	103.538	5.94	0.629	0.09	25.5468	0.00E+00
10/12/2019	8:09:04 AM	5.967	17.9045	35.3309	0.3714	4.76E-02	0.0914	4.62E+04	7.9759	104.013	5.901	-0.828	-0.06	25.5495	0.00E+00
10/12/2019	8:07:35 AM	6.097	17.9116	35.3307	0.2997	4.76E-02	0.1148	4.62E+04	7.9485	103.592	6.06	0.635	0.03	25.5471	0.00E+00
10/12/2019	8:09:03 AM	6.145	17.904	35.3314	0.3714	4.76E-02	0.0914	4.62E+04	7.9788	104.047	6.088	-0.814	-0.07	25.5501	0.00E+00
10/12/2019	8:07:35 AM	6.257	17.9116	35.3308	0.2989	4.76E-02	0.1194	4.62E+04	7.9493	103.604	6.19	0.617	-0.07	25.5473	0.00E+00
10/12/2019	8:09:03 AM	6.328	17.9033	35.3321	0.3729	4.76E-02	0.0914	4.62E+04	7.9807	104.063	6.283	-0.795	-0.08	25.5509	0.00E+00
10/12/2019	8:07:35 AM	6.424	17.9116	35.3309	0.2989	4.76E-02	0.1148	4.62E+04	7.9499	103.614	6.354	0.591	-0.1	25.5473	0.00E+00
10/12/2019	8:09:03 AM	6.515	17.9022	35.3329	0.3729	4.76E-02	0.0992	4.62E+04	7.9786	104.026	6.516	-0.775	-0.09	25.552	0.00E+00
10/12/2019	8:07:35 AM	6.597	17.9115	35.3309	0.2974	4.76E-02	0.121	4.62E+04	7.9499	103.614	6.556	0.584	-0.03	25.5473	0.00E+00
10/12/2019	8:09:02 AM	6.705	17.9007	35.3339	0.4301	4.76E-02	0.1179	4.62E+04	7.9793	104.028	6.75	-0.753	-0.07	25.5534	0.00E+00
10/12/2019	8:07:35 AM	6.774	17.9114	35.3308	0.2989	4.76E-02	0.121	4.62E+04	7.9516	103.636	6.77	0.603	0.08	25.5473	0.00E+00
10/12/2019	8:09:02 AM	6.894	17.8988	35.3352	0.4332	4.76E-02	0.121	4.62E+04	7.9798	104.028	6.946	-0.735	-0.1	25.5552	0.00E+00
10/12/2019	8:07:36 AM	6.954	17.9111	35.3307	0.331	4.76E-02	0.1241	4.62E+04	7.9521	103.645	6.986	0.644	0.16	25.5472	0.00E+00
10/12/2019	8:09:02 AM	7.083	17.8963	35.3365	0.4332	4.76E-02	0.121	4.62E+04	7.9847	104.085	7.159	-0.709	-0.05	25.5571	0.00E+00
10/12/2019	8:07:36 AM	7.134	17.9105	35.3303	0.3317	4.76E-02	0.1256	4.62E+04	7.9516	103.637	7.178	0.692	0.19	25.547	0.00E+00
10/12/2019	8:09:02 AM	7.27	17.8931	35.3371	0.4317	4.76E-02	0.121	4.62E+04	7.9855	104.087	7.332	-0.696	-0.05	25.5586	0.00E+00
10/12/2019	8:07:36 AM	7.315	17.9096	35.3298	0.3363	4.76E-02	0.1225	4.62E+04	7.9563	103.697	7.359	0.736	0.18	25.5467	0.00E+00
10/12/2019	8:09:02 AM	7.455	17.8894	35.3372	0.5278	4.76E-02	0.1148	4.62E+04	7.9842	104.058	7.527	-0.682	0	25.5596	0.00E+00
10/12/2019	8:07:37 AM	7.495	17.9087	35.3295	0.3348	4.76E-02	0.1148	4.62E+04	7.9607	103.751	7.538	0.767	0.12	25.5466	0.00E+00
10/12/2019	8:09:01 AM	7.638	17.8855	35.3372	0.5309	4.76E-02	0.1179	4.62E+04	7.9827	104.029	7.697	-0.683	0.03	25.5604	0.00E+00
10/12/2019	8:07:37 AM	7.676	17.9081	35.3296	0.321	4.76E-02	0.1194	4.62E+04	7.9624	103.768	7.715	0.778	0.04	25.5469	0.00E+00
10/12/2019	8:09:01 AM	7.821	17.8816	35.3364	0.5301	4.76E-02	0.1272	4.62E+04	7.9849	104.051	7.895	-0.69	0.07	25.5606	0.00E+00
10/12/2019	8:07:37 AM	7.856	17.9077	35.3301	0.3226	4.76E-02	0.1241	4.62E+04	7.9656	103.805	7.893	0.77	-0.03	25.5475	0.00E+00

10/12/2019	8:09:01 AM	8.001	17.878	35.3351	0.5278	4.76E-02	0.1194	4.62E+04	7.982	104.009	8.097	-0.706	0.13	25.5601	0.00E+00
10/12/2019	8:07:37 AM	8.037	17.9076	35.3306	0.3233	4.76E-02	0.1179	4.62E+04	7.966	103.797	8.088	0.754	-0.06	25.548	0.00E+00
10/12/2019	8:09:00 AM	8.178	17.875	35.334	0.5537	4.76E-02	0.1163	4.62E+04	7.9797	103.977	8.253	-0.739	0.08	25.5596	0.00E+00
10/12/2019	8:07:37 AM	8.217	17.9078	35.3311	0.318	4.76E-02	0.1132	4.62E+04	7.9661	103.785	8.29	0.745	-0.04	25.5485	0.00E+00
10/12/2019	8:09:00 AM	8.354	17.8729	35.3333	0.5522	4.76E-02	0.1241	4.62E+04	7.9785	103.96	8.407	-0.76	0.03	25.5593	0.00E+00
10/12/2019	8:07:38 AM	8.396	17.9083	35.3317	0.36	4.76E-02	0.1023	4.62E+04	7.9627	103.732	8.477	0.741	-0.02	25.549	0.00E+00
10/12/2019	8:09:00 AM	8.529	17.8714	35.3328	0.5515	4.76E-02	0.1194	4.62E+04	7.9816	104.001	8.549	-0.769	-0.06	25.5592	0.00E+00
10/12/2019	8:07:38 AM	8.572	17.9093	35.3322	0.36	4.76E-02	0.0914	4.62E+04	7.9578	103.661	8.652	0.742	0	25.5493	0.00E+00
10/12/2019	8:09:00 AM	8.705	17.8703	35.3325	0.5515	4.76E-02	0.1148	4.62E+04	7.9853	104.051	8.729	-0.753	-0.12	25.5591	0.00E+00
10/12/2019	8:07:38 AM	8.747	17.9104	35.3327	0.3569	4.76E-02	0.0961	4.62E+04	7.9531	103.591	8.812	0.738	-0.01	25.5495	0.00E+00
10/12/2019	8:09:00 AM	8.883	17.8695	35.3324	0.5896	4.76E-02	0.1163	4.62E+04	7.9866	104.069	8.906	-0.722	-0.14	25.5591	0.00E+00
10/12/2019	8:07:38 AM	8.921	17.9114	35.3328	0.3554	4.76E-02	0.0977	4.62E+04	7.9521	103.572	8.951	0.723	-0.06	25.5494	0.00E+00
10/12/2019	8:08:59 AM	9.062	17.8689	35.3323	0.5881	4.76E-02	0.1163	4.62E+04	7.9923	104.144	9.108	-0.687	-0.17	25.5592	0.00E+00
10/12/2019	8:07:39 AM	9.096	17.9124	35.3326	0.3966	4.76E-02	0.1225	4.62E+04	7.9516	103.56	9.1	0.702	-0.09	25.549	0.00E+00
10/12/2019	8:08:59 AM	9.242	17.8684	35.3323	0.5896	4.76E-02	0.1148	4.62E+04	7.9918	104.138	9.316	-0.644	-0.15	25.5592	0.00E+00
10/12/2019	8:07:39 AM	9.274	17.9133	35.3323	0.3951	4.76E-02	0.1179	4.62E+04	7.9567	103.624	9.279	0.683	-0.08	25.5485	0.00E+00
10/12/2019	8:08:59 AM	9.42	17.868	35.3322	0.5911	4.76E-02	0.1132	4.62E+04	7.994	104.167	9.509	-0.606	-0.05	25.5592	0.00E+00
10/12/2019	8:07:39 AM	9.454	17.9141	35.3321	0.3935	4.76E-02	0.1163	4.62E+04	7.9622	103.698	9.469	0.669	-0.05	25.5481	0.00E+00
10/12/2019	8:08:59 AM	9.596	17.8676	35.3321	0.5896	4.76E-02	0.1179	4.62E+04	7.9972	104.207	9.721	-0.593	0.06	25.5592	0.00E+00
10/12/2019	8:07:40 AM	9.637	17.9148	35.3319	0.3951	4.76E-02	0.1194	4.62E+04	7.965	103.737	9.654	0.665	-0.02	25.5477	0.00E+00
10/12/2019	8:08:58 AM	9.767	17.8674	35.3321	0.64	4.76E-02	0.1163	4.62E+04	7.9956	104.184	9.888	-0.609	0.11	25.5592	0.00E+00
10/12/2019	8:07:40 AM	9.822	17.9153	35.3316	0.3943	4.76E-02	0.1148	4.62E+04	7.9773	103.901	9.845	0.675	0.04	25.5473	0.00E+00
10/12/2019	8:08:58 AM	9.935	17.8672	35.3321	0.6392	4.76E-02	0.1148	4.62E+04	7.9968	104.199	10.057	-0.635	0.08	25.5593	0.00E+00
10/12/2019	8:07:40 AM	10.008	17.9155	35.3312	0.4561	4.76E-02	0.1101	4.62E+04	7.9834	103.983	10.087	0.708	0.13	25.5468	0.00E+00
10/12/2019	8:08:58 AM	10.099	17.867	35.3322	0.6369	4.76E-02	0.1148	4.62E+04	7.9937	104.155	10.2	-0.657	-0.03	25.5595	0.00E+00
10/12/2019	8:07:40 AM	10.193	17.9155	35.3307	0.4561	4.76E-02	0.1194	4.62E+04	7.9871	104.031	10.335	0.758	0.2	25.5463	0.00E+00
10/12/2019	8:08:57 AM	10.26	17.8667	35.3323	0.6354	4.76E-02	0.1179	4.62E+04	7.988	104.078	10.331	-0.65	-0.09	25.5597	0.00E+00
10/12/2019	8:07:40 AM	10.373	17.9151	35.3302	0.4576	4.76E-02	0.121	4.62E+04	7.9894	104.06	10.535	0.802	0.18	25.5459	0.00E+00
10/12/2019	8:08:57 AM	10.42	17.8663	35.3323	0.6728	4.76E-02	0.1054	4.62E+04	7.9838	104.018	10.493	-0.628	-0.05	25.5598	0.00E+00
10/12/2019	8:07:41 AM	10.547	17.9142	35.3297	0.4569	4.76E-02	0.1163	4.62E+04	7.9884	104.046	10.693	0.82	0.07	25.5455	0.00E+00
10/12/2019	8:08:57 AM	10.579	17.8658	35.3322	0.6728	4.76E-02	0.1148	4.62E+04	7.9847	104.022	10.609	-0.616	-0.05	25.5598	0.00E+00
10/12/2019	8:07:41 AM	10.716	17.9126	35.3289	0.4538	4.76E-02	0.0961	4.62E+04	7.9854	104.006	10.842	0.812	-0.03	25.545	0.00E+00
10/12/2019	8:08:57 AM	10.74	17.8652	35.3319	0.6758	4.76E-02	0.1241	4.62E+04	7.9844	104.007	10.743	-0.603	0.01	25.5597	0.00E+00
10/12/2019	8:07:41 AM	10.88	17.9104	35.328	0.4576	4.76E-02	0.0961	4.62E+04	7.9891	104.052	10.999	0.788	-0.09	25.5445	0.00E+00
10/12/2019	8:08:57 AM	10.903	17.8648	35.3316	0.6697	4.76E-02	0.1148	4.62E+04	7.9873	104.037	10.955	-0.606	0.11	25.5595	0.00E+00
10/12/2019	8:07:42 AM	11.041	17.9073	35.327	0.4584	4.76E-02	0.0914	4.62E+04	7.9935	104.104	11.151	0.754	-0.14	25.5442	0.00E+00
10/12/2019	8:08:56 AM	11.068	17.8645	35.3316	0.6728	4.76E-02	0.1163	4.62E+04	7.9898	104.061	11.155	-0.633	0.2	25.5596	0.00E+00
10/12/2019	8:07:42 AM	11.199	17.9034	35.3259	0.4546	4.76E-02	0.093	4.62E+04	7.9971	104.145	11.298	0.709	-0.18	25.5438	0.00E+00
10/12/2019	8:08:56 AM	11.23	17.8643	35.3319	0.6766	4.76E-02	0.121	4.62E+04	7.9992	104.173	11.349	-0.684	0.24	25.5599	0.00E+00
10/12/2019	8:07:42 AM	11.355	17.8988	35.3248	0.4668	4.76E-02	0.0914	4.62E+04	7.9986	104.162	11.436	0.655	-0.22	25.5437	0.00E+00
10/12/2019	8:08:56 AM	11.39	17.864	35.3322	0.6697	4.76E-02	0.1225	4.62E+04	8.0039	104.229	11.481	-0.745	0.19	25.5603	0.00E+00
10/12/2019	8:07:42 AM	11.51	17.8942	35.3243	0.4691	4.76E-02	0.0868	4.62E+04	8.0049	104.242	11.554	0.606	-0.19	25.5443	0.00E+00
10/12/2019	8:08:55 AM	11.549	17.8636	35.3324	0.672	4.76E-02	0.1194	4.62E+04	8.0077	104.276	11.555	-0.791	0.04	25.5607	0.00E+00
10/12/2019	8:07:42 AM	11.666	17.8901	35.3249	0.466	4.76E-02	0.0899	4.62E+04	8.0052	104.244	11.654	0.57	-0.15	25.5459	0.00E+00
10/12/2019	8:08:55 AM	11.711	17.8629	35.3325	0.7315	4.76E-02	0.1148	4.62E+04	8.0058	104.251	11.67	-0.802	-0.09	25.5609	0.00E+00
10/12/2019	8:07:43 AM	11.827	17.8865	35.3261	0.466	4.76E-02	0.093	4.62E+04	8.0058	104.251	11.78	0.545	-0.1	25.548	0.00E+00
10/12/2019	8:08:55 AM	11.879	17.8621	35.3325	0.7315	4.76E-02	0.1179	4.62E+04	8.0065	104.26	11.841	-0.781	-0.12	25.5611	0.00E+00
10/12/2019	8:07:43 AM	11.994	17.8833	35.3271	0.5774	4.76E-02	0.1194	4.62E+04	8.0007	104.184	11.948	0.536	-0.04	25.5498	0.00E+00
10/12/2019	8:08:55 AM	12.053	17.8613	35.3323	0.7315	4.76E-02	0.1225	4.62E+04	8.0027	104.208	12.032	-0.751	-0.13	25.5612	0.00E+00
10/12/2019	8:07:43 AM	12.168	17.8808	35.3281	0.5774	4.76E-02	0.1163	4.62E+04	7.993	104.084	12.138	0.542	0.03	25.5514	0.00E+00
10/12/2019	8:08:55 AM	12.232	17.8605	35.3321	0.7315	4.76E-02	0.1194	4.62E+04	7.9974	104.14	12.276	-0.717	-0.06	25.5612	0.00E+00
10/12/2019	8:07:44 AM	12.349	17.8792	35.3294	0.5743	4.76E-02	0.1179	4.62E+04	7.9827	103.951	12.335	0.568	0.1	25.5533	0.00E+00
10/12/2019	8:08:54 AM	12.412	17.8597	35.3319	0.7338	4.76E-02	0.121	4.61E+04	7.9923	104.072	12.486	-0.701	-0.04	25.5612	0.00E+00

10/12/2019	8:07:44 AM	12.534	17.8784	35.331	0.5759	4.76E-02	0.121	4.62E+04	7.9767	103.874	12.522	0.604	0.15	25.5551	0.00E+00
10/12/2019	8:08:54 AM	12.592	17.859	35.3317	0.7788	4.76E-02	0.121	4.61E+04	7.9871	104.003	12.709	-0.691	-0.05	25.5612	0.00E+00
10/12/2019	8:07:44 AM	12.725	17.8783	35.3326	0.5782	4.76E-02	0.121	4.62E+04	7.9718	103.812	12.705	0.647	0.17	25.5567	0.00E+00
10/12/2019	8:08:54 AM	12.77	17.8584	35.3316	0.7803	4.76E-02	0.1163	4.61E+04	7.9855	103.983	12.892	-0.679	-0.09	25.5612	0.00E+00
10/12/2019	8:07:44 AM	12.921	17.8788	35.334	0.9558	4.76E-02	0.8545	4.62E+04	7.971	103.803	12.926	0.701	0.22	25.558	0.00E+00
10/12/2019	8:08:53 AM	12.945	17.8579	35.3314	0.7826	4.76E-02	0.1179	4.61E+04	7.9851	103.977	13.058	-0.657	-0.12	25.5612	0.00E+00
10/12/2019	8:08:53 AM	13.118	17.8573	35.3311	0.7803	4.76E-02	0.1256	4.61E+04	7.9888	104.025	13.229	-0.626	-0.12	25.5611	0.00E+00
10/12/2019	8:07:44 AM	13.12	17.8793	35.3348	0.9581	4.76E-02	0.8514	4.62E+04	7.9728	103.826	13.169	0.76	0.24	25.5586	0.00E+00
10/12/2019	8:08:53 AM	13.288	17.8568	35.3307	0.8246	4.76E-02	0.1179	4.61E+04	7.9897	104.037	13.379	-0.597	-0.11	25.5608	0.00E+00
10/12/2019	8:07:45 AM	13.321	17.8796	35.3348	0.9566	4.76E-02	0.8514	4.62E+04	7.9774	103.884	13.42	0.811	0.21	25.5585	0.00E+00
10/12/2019	8:08:53 AM	13.457	17.8564	35.3305	0.8276	4.76E-02	0.1148	4.61E+04	7.9949	104.103	13.562	-0.571	-0.06	25.5607	0.00E+00
10/12/2019	8:07:45 AM	13.521	17.8795	35.3342	0.9566	4.76E-02	0.8514	4.62E+04	7.9801	103.917	13.663	0.852	0.16	25.5579	0.00E+00
10/12/2019	8:08:53 AM	13.624	17.8562	35.3305	0.8276	4.76E-02	0.1225	4.61E+04	7.9938	104.089	13.739	-0.556	0.04	25.5608	0.00E+00
10/12/2019	8:07:45 AM	13.717	17.8791	35.3334	0.73	4.76E-02	0.1365	4.62E+04	7.9846	103.969	13.891	0.883	0.13	25.5572	0.00E+00
10/12/2019	8:08:52 AM	13.788	17.856	35.3307	0.8269	4.76E-02	0.1163	4.61E+04	7.9953	104.106	13.927	-0.565	0.12	25.5611	0.00E+00
10/12/2019	8:07:45 AM	13.907	17.8785	35.3328	0.7338	4.76E-02	0.1381	4.62E+04	7.9827	103.939	14.095	0.904	0.08	25.5567	0.00E+00
10/12/2019	8:08:52 AM	13.949	17.8557	35.3309	0.8055	4.76E-02	0.121	4.61E+04	7.9888	104.02	14.101	-0.595	0.22	25.5614	0.00E+00
10/12/2019	8:07:46 AM	14.09	17.8776	35.3324	0.7346	4.76E-02	0.1365	4.62E+04	7.9771	103.863	14.297	0.913	0.04	25.5565	0.00E+00
10/12/2019	8:08:52 AM	14.106	17.8553	35.3311	0.804	4.76E-02	0.1256	4.61E+04	7.9845	103.963	14.216	-0.65	0.21	25.5617	0.00E+00
10/12/2019	8:08:52 AM	14.26	17.8547	35.3315	0.8055	4.76E-02	0.1179	4.61E+04	7.9794	103.896	14.329	-0.701	0.17	25.5622	0.00E+00
10/12/2019	8:07:46 AM	14.265	17.8763	35.3318	0.7315	4.76E-02	0.1318	4.62E+04	7.9693	103.76	14.492	0.906	-0.03	25.5562	0.00E+00
10/12/2019	8:08:51 AM	14.416	17.8539	35.3317	0.8025	4.76E-02	0.1256	4.61E+04	7.9743	103.831	14.447	-0.743	0.09	25.5627	0.00E+00
10/12/2019	8:07:46 AM	14.431	17.8748	35.3309	0.7353	4.76E-02	0.1381	4.62E+04	7.972	103.794	14.64	0.868	-0.15	25.5557	0.00E+00
10/12/2019	8:08:51 AM	14.574	17.853	35.3317	0.8536	4.76E-02	0.1194	4.61E+04	7.9746	103.834	14.588	-0.765	0.01	25.563	0.00E+00
10/12/2019	8:07:47 AM	14.59	17.8732	35.3303	0.7307	4.76E-02	0.1334	4.62E+04	7.9745	103.827	14.742	0.801	-0.27	25.5556	0.00E+00
10/12/2019	8:08:51 AM	14.736	17.8518	35.3314	0.8536	4.76E-02	0.121	4.61E+04	7.976	103.851	14.748	-0.767	-0.04	25.563	0.00E+00
10/12/2019	8:07:47 AM	14.745	17.872	35.3303	0.7346	4.76E-02	0.1318	4.62E+04	7.9813	103.915	14.829	0.718	-0.33	25.556	0.00E+00
10/12/2019	8:07:47 AM	14.899	17.871	35.3308	0.7307	4.76E-02	0.135	4.62E+04	7.9903	104.033	14.952	0.641	-0.31	25.5567	0.00E+00
10/12/2019	8:08:50 AM	14.902	17.8507	35.3312	0.8498	4.76E-02	0.1194	4.61E+04	7.9839	103.953	14.907	-0.756	-0.12	25.5631	0.00E+00
10/12/2019	8:07:47 AM	15.054	17.8703	35.3314	0.7925	4.76E-02	0.121	4.62E+04	7.9947	104.088	15.112	0.585	-0.22	25.5575	0.00E+00
10/12/2019	8:08:50 AM	15.073	17.8496	35.3311	0.8528	4.76E-02	0.1148	4.61E+04	7.9859	103.976	15.11	-0.725	-0.11	25.5633	0.00E+00
10/12/2019	8:07:47 AM	15.211	17.8699	35.3319	0.7948	4.76E-02	0.1179	4.62E+04	8.002	104.182	15.276	0.552	-0.13	25.5581	0.00E+00
10/12/2019	8:08:50 AM	15.247	17.8486	35.331	0.8536	4.76E-02	0.121	4.61E+04	7.9981	104.133	15.297	-0.699	-0.11	25.5635	0.00E+00
10/12/2019	8:07:48 AM	15.369	17.8697	35.3323	0.7933	4.76E-02	0.121	4.62E+04	8.0091	104.273	15.438	0.538	-0.06	25.5586	0.00E+00
10/12/2019	8:08:50 AM	15.422	17.8476	35.3311	0.8612	4.76E-02	0.121	4.61E+04	8.0005	104.162	15.516	-0.672	-0.03	25.5638	0.00E+00
10/12/2019	8:07:48 AM	15.528	17.8697	35.3327	0.7933	4.76E-02	0.1287	4.62E+04	8.0149	104.342	15.6	0.545	0.03	25.559	0.00E+00
10/12/2019	8:08:50 AM	15.597	17.8466	35.3313	0.865	4.76E-02	0.1194	4.61E+04	8.004	104.207	15.712	-0.663	-0.04	25.5643	0.00E+00
10/12/2019	8:07:48 AM	15.688	17.8699	35.3331	0.7964	4.76E-02	0.1241	4.62E+04	8.0136	104.313	15.77	0.576	0.12	25.5593	0.00E+00
10/12/2019	8:08:49 AM	15.771	17.8454	35.3317	0.8688	4.76E-02	0.1225	4.61E+04	8.0045	104.213	15.907	-0.653	-0.06	25.565	0.00E+00
10/12/2019	8:07:49 AM	15.848	17.8701	35.3334	0.7788	4.76E-02	0.1303	4.62E+04	8.013	104.288	15.949	0.618	0.17	25.5596	0.00E+00
10/12/2019	8:08:49 AM	15.942	17.844	35.3323	0.8658	4.76E-02	0.1148	4.61E+04	8.0051	104.218	16.083	-0.639	-0.05	25.566	0.00E+00
10/12/2019	8:07:49 AM	16.008	17.8702	35.3336	0.7796	4.76E-02	0.1396	4.62E+04	8.0175	104.321	16.117	0.652	0.14	25.5597	0.00E+00
10/12/2019	8:08:49 AM	16.11	17.8423	35.3332	0.865	4.76E-02	0.1318	4.61E+04	8.0035	104.198	16.239	-0.626	-0.06	25.5673	0.00E+00
10/12/2019	8:07:49 AM	16.166	17.87	35.3334	0.7811	4.76E-02	0.1334	4.62E+04	8.0179	104.287	16.273	0.665	0.05	25.5595	0.00E+00
10/12/2019	8:08:48 AM	16.275	17.8401	35.3337	0.8681	4.76E-02	0.1334	4.61E+04	7.9995	104.143	16.406	-0.61	-0.03	25.5685	0.00E+00
10/12/2019	8:07:49 AM	16.324	17.8694	35.3328	0.7842	4.76E-02	0.1381	4.62E+04	8.0206	104.265	16.421	0.662	-0.01	25.559	0.00E+00
10/12/2019	8:08:48 AM	16.438	17.8374	35.334	0.8673	4.76E-02	0.1334	4.61E+04	7.9931	104.059	16.545	-0.602	-0.03	25.5695	0.00E+00
10/12/2019	8:07:49 AM	16.481	17.8684	35.3321	0.8048	4.76E-02	0.1179	4.62E+04	8.0259	104.197	16.546	0.648	-0.06	25.5585	0.00E+00
10/12/2019	8:08:48 AM	16.599	17.8345	35.3348	0.8666	4.76E-02	0.1381	4.61E+04	7.986	103.965	16.716	-0.595	0	25.5711	0.00E+00
10/12/2019	8:07:50 AM	16.641	17.867	35.3313	0.8048	4.76E-02	0.121	4.62E+04	8.0288	104.057	16.651	0.621	-0.11	25.558	0.00E+00
10/12/2019	8:08:48 AM	16.759	17.8313	35.3368	0.91	4.76E-02	0.1225	4.61E+04	7.9852	103.955	16.883	-0.594	0.02	25.5738	0.00E+00
10/12/2019	8:07:50 AM	16.806	17.8653	35.3306	0.8078	4.76E-02	0.121	4.62E+04	8.0251	103.799	16.762	0.586	-0.14	25.5577	0.00E+00
10/12/2019	8:08:48 AM	16.917	17.8275	35.3395	0.9093	4.76E-02	0.1225	4.61E+04	7.9841	103.942	17.074	-0.598	0.06	25.5775	0.00E+00

10/12/2019	8:07:50 AM	16.978	17.8638	35.3301	0.8048	4.76E-02	0.1179	4.62E+04	8.0154	103.477	16.918	0.558	-0.11	25.5577	0.00E+00
10/12/2019	8:08:47 AM	17.072	17.8224	35.3423	0.907	4.76E-02	0.1179	4.61E+04	7.9841	103.94	17.211	-0.613	0.03	25.5817	0.00E+00
10/12/2019	8:07:51 AM	17.16	17.8625	35.3303	0.8391	4.76E-02	0.135	4.62E+04	8.0066	103.177	17.123	0.554	-0.02	25.5582	0.00E+00
10/12/2019	8:08:47 AM	17.224	17.8157	35.3451	0.9093	4.76E-02	0.1163	4.61E+04	7.9853	103.956	17.33	-0.622	-0.04	25.5862	0.00E+00
10/12/2019	8:07:51 AM	17.349	17.8615	35.3308	0.8444	4.76E-02	0.1396	4.62E+04	8.0012	102.907	17.343	0.578	0.1	25.559	0.00E+00
10/12/2019	8:08:47 AM	17.375	17.8075	35.3483	1.0779	4.76E-02	0.1365	4.61E+04	7.9823	103.915	17.469	-0.612	-0.05	25.5915	0.00E+00
10/12/2019	8:08:46 AM	17.526	17.7978	35.3524	1.0771	4.76E-02	0.1412	4.61E+04	7.9819	103.908	17.61	-0.601	-0.06	25.598	0.00E+00
10/12/2019	8:07:51 AM	17.545	17.8607	35.3314	0.8383	4.76E-02	0.135	4.62E+04	7.9987	102.679	17.566	0.624	0.19	25.5598	0.00E+00
10/12/2019	8:08:46 AM	17.678	17.7864	35.3579	1.0787	4.76E-02	0.1334	4.61E+04	7.9826	103.915	17.776	-0.587	-0.04	25.6064	0.00E+00
10/12/2019	8:07:51 AM	17.746	17.8599	35.3316	0.8391	4.76E-02	0.1334	4.62E+04	7.9996	102.531	17.782	0.683	0.24	25.5602	0.00E+00
10/12/2019	8:08:46 AM	17.829	17.7726	35.3644	1.0779	4.76E-02	0.1287	4.61E+04	7.9794	103.87	17.943	-0.578	-0.03	25.6164	0.00E+00
10/12/2019	8:07:52 AM	17.951	17.8589	35.3315	0.8902	4.76E-02	0.1396	4.62E+04	8.001	102.43	18.006	0.751	0.27	25.5603	0.00E+00
10/12/2019	8:08:46 AM	17.98	17.7556	35.3725	1.0802	4.76E-02	0.1365	4.60E+04	7.9845	103.934	18.105	-0.57	-0.03	25.6288	0.00E+00
10/12/2019	8:08:46 AM	18.129	17.735	35.384	1.3609	4.76E-02	0.1365	4.60E+04	7.9869	103.963	18.263	-0.563	-0.02	25.6453	0.00E+00
10/12/2019	8:07:52 AM	18.158	17.8574	35.331	0.8902	4.76E-02	0.1287	4.62E+04	8.011	102.466	18.244	0.818	0.27	25.5601	0.00E+00
10/12/2019	8:08:45 AM	18.276	17.7097	35.3972	1.3571	4.76E-02	0.135	4.60E+04	7.9889	103.988	18.41	-0.559	-0.03	25.6647	0.00E+00
10/12/2019	8:07:52 AM	18.366	17.8551	35.33	0.8856	4.76E-02	0.1318	4.62E+04	8.0226	102.534	18.488	0.872	0.22	25.5596	0.00E+00
10/12/2019	8:08:45 AM	18.422	17.6781	35.4084	1.3632	4.76E-02	0.135	4.60E+04	7.9879	103.974	18.546	-0.55	-0.03	25.6838	0.00E+00
10/12/2019	8:08:45 AM	18.566	17.6401	35.4173	1.3609	4.76E-02	0.135	4.59E+04	7.99	103.997	18.667	-0.542	-0.04	25.7021	0.00E+00
10/12/2019	8:07:52 AM	18.574	17.8514	35.3284	0.8902	4.76E-02	0.1318	4.61E+04	8.0327	102.593	18.728	0.905	0.13	25.5588	0.00E+00
10/12/2019	8:08:45 AM	18.71	17.597	35.4284	1.6776	4.76E-02	0.1583	4.59E+04	7.9863	103.95	18.818	-0.531	0.02	25.7234	0.00E+00
10/12/2019	8:07:52 AM	18.778	17.8458	35.326	0.8933	4.76E-02	0.1365	4.61E+04	8.0387	102.606	18.949	0.917	0.05	25.5575	0.00E+00
10/12/2019	8:08:44 AM	18.853	17.5498	35.4422	1.6791	4.76E-02	0.1505	4.59E+04	7.9859	103.941	18.969	-0.538	0.08	25.7485	0.00E+00
10/12/2019	8:07:53 AM	18.978	17.8371	35.3223	0.8765	4.76E-02	0.121	4.61E+04	8.0438	102.624	19.161	0.92	0.01	25.5556	0.00E+00
10/12/2019	8:08:44 AM	18.996	17.497	35.4548	1.6783	4.76E-02	0.1552	4.58E+04	7.984	103.914	19.121	-0.557	0.15	25.774	0.00E+00
10/12/2019	8:08:44 AM	19.138	17.4374	35.4625	1.6806	4.76E-02	0.1536	4.57E+04	7.9842	103.911	19.252	-0.593	0.15	25.7962	0.00E+00
10/12/2019	8:07:53 AM	19.173	17.8241	35.3167	0.8727	4.76E-02	0.1163	4.61E+04	8.0421	102.567	19.361	0.912	-0.03	25.5527	0.00E+00
10/12/2019	8:08:43 AM	19.28	17.372	35.4623	2.0011	4.76E-02	0.1552	4.57E+04	7.9883	103.958	19.379	-0.631	0.14	25.8118	0.00E+00
10/12/2019	8:07:53 AM	19.364	17.8055	35.3091	0.8818	4.76E-02	0.1241	4.61E+04	8.0225	102.296	19.542	0.893	-0.08	25.549	0.00E+00
10/12/2019	8:08:43 AM	19.422	17.3044	35.4575	2.0018	4.76E-02	0.1567	4.56E+04	7.9916	103.994	19.512	-0.666	0.08	25.823	0.00E+00
10/12/2019	8:07:54 AM	19.551	17.7792	35.2992	0.8772	4.76E-02	0.1148	4.61E+04	7.989	101.855	19.71	0.86	-0.14	25.5445	0.00E+00
10/12/2019	8:08:43 AM	19.566	17.2388	35.4527	1.9988	4.76E-02	0.166	4.55E+04	7.9947	104.031	19.625	-0.686	-0.03	25.8333	0.00E+00
10/12/2019	8:08:43 AM	19.712	17.1771	35.4476	1.9965	4.76E-02	0.1614	4.55E+04	7.9974	104.064	19.759	-0.678	-0.12	25.8424	0.00E+00
10/12/2019	8:07:54 AM	19.734	17.7422	35.2855	0.9696	4.76E-02	0.1287	4.60E+04	7.9454	101.291	19.867	0.813	-0.18	25.5386	0.00E+00
10/12/2019	8:08:43 AM	19.862	17.1189	35.4394	2.2048	4.76E-02	0.1505	4.54E+04	8.0064	104.169	19.901	-0.648	-0.16	25.8477	0.00E+00
10/12/2019	8:07:54 AM	19.916	17.691	35.2665	0.9665	4.76E-02	0.1381	4.60E+04	7.8944	100.634	20.021	0.764	-0.2	25.5305	0.00E+00
10/12/2019	8:08:42 AM	20.016	17.0647	35.4287	2.2071	4.76E-02	0.1614	4.54E+04	8.0172	104.295	20.085	-0.608	-0.12	25.8495	0.00E+00
10/12/2019	8:07:54 AM	20.098	17.6239	35.2416	0.9718	4.76E-02	0.1412	4.59E+04	7.8453	100	20.183	0.72	-0.17	25.5204	0.00E+00
10/12/2019	8:08:42 AM	20.173	17.0161	35.4179	2.2055	4.76E-02	0.1614	4.53E+04	8.0289	104.432	20.261	-0.577	-0.06	25.8497	0.00E+00
10/12/2019	8:07:54 AM	20.282	17.5438	35.215	0.9696	4.76E-02	0.135	4.58E+04	7.7998	99.409	20.362	0.691	-0.12	25.5125	0.00E+00
10/12/2019	8:08:42 AM	20.331	16.9743	35.4082	2.2078	4.76E-02	0.1598	4.53E+04	8.0411	104.571	20.459	-0.562	0.05	25.8494	0.00E+00
10/12/2019	8:07:55 AM	20.467	17.4568	35.1958	1.0886	4.76E-02	0.1365	4.58E+04	7.7629	98.929	20.547	0.676	-0.06	25.5141	0.00E+00
10/12/2019	8:08:41 AM	20.488	16.9388	35.4016	2.2071	4.76E-02	0.1583	4.52E+04	8.0613	104.819	20.636	-0.574	0.14	25.8506	0.00E+00
10/12/2019	8:08:41 AM	20.643	16.9088	35.3978	2.0972	4.76E-02	0.1365	4.52E+04	8.0805	105.036	20.813	-0.608	0.22	25.8535	0.00E+00
10/12/2019	8:07:55 AM	20.655	17.3678	35.188	1.0932	4.76E-02	0.1381	4.57E+04	7.7397	98.628	20.746	0.678	0.01	25.5276	0.00E+00
10/12/2019	8:08:41 AM	20.796	16.8824	35.3954	2.0972	4.76E-02	0.1318	4.52E+04	8.098	105.241	20.945	-0.663	0.2	25.857	0.00E+00
10/12/2019	8:07:55 AM	20.844	17.2789	35.1878	1.0932	4.76E-02	0.1303	4.56E+04	7.7141	98.296	20.956	0.697	0.08	25.5485	0.00E+00
10/12/2019	8:08:41 AM	20.946	16.8581	35.393	2.0972	4.76E-02	0.1272	4.52E+04	8.1108	105.362	21.059	-0.714	0.09	25.8602	0.00E+00
10/12/2019	8:07:56 AM	21.033	17.192	35.1901	1.0909	4.76E-02	0.1334	4.55E+04	7.7047	98.166	21.151	0.723	0.1	25.5718	0.00E+00
10/12/2019	8:08:41 AM	21.097	16.8353	35.3887	2.0995	4.76E-02	0.1365	4.51E+04	8.1201	105.443	21.171	-0.737	-0.1	25.8613	0.00E+00
10/12/2019	8:07:56 AM	21.223	17.1113	35.1961	1.3655	4.76E-02	0.1225	4.54E+04	7.7041	98.142	21.326	0.744	0.08	25.5978	0.00E+00
10/12/2019	8:08:40 AM	21.25	16.814	35.3828	2.1193	4.76E-02	0.1396	4.51E+04	8.1252	105.434	21.304	-0.711	-0.23	25.8606	0.00E+00
10/12/2019	8:08:40 AM	21.407	16.7952	35.3768	2.1208	4.76E-02	0.1365	4.51E+04	8.1286	105.389	21.462	-0.653	-0.25	25.859	0.00E+00

10/12/2019	8:07:56 AM	21.414	17.0408	35.211	1.5563	4.76E-02	0.1179	4.53E+04	7.718	98.296	21.504	0.756	0.05	25.6301	0.00E+00
10/12/2019	8:08:40 AM	21.568	16.7793	35.3715	2.1208	4.76E-02	0.1334	4.51E+04	8.1286	105.307	21.646	-0.59	-0.16	25.8573	0.00E+00
10/12/2019	8:07:56 AM	21.606	16.9816	35.2329	1.5555	4.76E-02	0.1194	4.53E+04	7.7445	98.611	21.694	0.762	0.02	25.6663	0.00E+00
10/12/2019	8:08:39 AM	21.731	16.7665	35.3677	2.1193	4.76E-02	0.1396	4.51E+04	8.1158	105.038	21.846	-0.55	-0.07	25.8564	0.00E+00
10/12/2019	8:07:56 AM	21.801	16.9318	35.2543	1.5563	4.76E-02	0.1194	4.52E+04	7.7748	98.976	21.906	0.767	0.02	25.6996	0.00E+00
10/12/2019	8:08:39 AM	21.894	16.7561	35.3652	2.0346	4.76E-02	0.1334	4.51E+04	8.1001	104.757	22.053	-0.531	0.01	25.8562	0.00E+00
10/12/2019	8:07:57 AM	21.996	16.8896	35.2713	1.5563	4.76E-02	0.1179	4.52E+04	7.8096	99.403	22.127	0.775	0.03	25.7268	0.00E+00
10/12/2019	8:08:39 AM	22.055	16.7477	35.3637	2.0392	4.76E-02	0.1303	4.51E+04	8.0894	104.442	22.264	-0.533	0.09	25.8566	0.00E+00
10/12/2019	8:07:57 AM	22.19	16.8539	35.2848	2.1559	4.76E-02	0.152	4.52E+04	7.8411	99.789	22.365	0.791	0.06	25.7491	0.00E+00
10/12/2019	8:08:39 AM	22.211	16.7405	35.363	2.0377	4.76E-02	0.1334	4.51E+04	8.0757	104.141	22.446	-0.557	0.13	25.8575	0.00E+00
10/12/2019	8:08:38 AM	22.361	16.734	35.3625	2.0369	4.76E-02	0.135	4.50E+04	8.066	103.823	22.575	-0.59	0.15	25.8584	0.00E+00
10/12/2019	8:07:57 AM	22.381	16.8245	35.2967	2.1582	4.76E-02	0.1552	4.51E+04	7.8687	100.121	22.586	0.811	0.08	25.7682	0.00E+00
10/12/2019	8:08:38 AM	22.506	16.728	35.3621	2.1598	4.76E-02	0.1303	4.50E+04	8.045	103.452	22.63	-0.628	0.08	25.8593	0.00E+00
10/12/2019	8:07:58 AM	22.567	16.801	35.3079	2.1567	4.76E-02	0.1598	4.51E+04	7.8824	100.275	22.795	0.834	0.09	25.7854	0.00E+00
10/12/2019	8:08:38 AM	22.651	16.7224	35.3624	2.1552	4.76E-02	0.1365	4.50E+04	8.0223	103.022	22.711	-0.647	0.04	25.8609	0.00E+00
10/12/2019	8:07:58 AM	22.748	16.783	35.3188	2.1567	4.76E-02	0.1583	4.51E+04	7.8868	100.304	22.98	0.849	0.06	25.8007	0.00E+00
10/12/2019	8:08:38 AM	22.8	16.7171	35.3634	2.1552	4.76E-02	0.1334	4.50E+04	7.9821	102.401	22.844	-0.657	0.01	25.863	0.00E+00
10/12/2019	8:07:58 AM	22.922	16.7697	35.3288	2.0362	4.76E-02	0.1334	4.51E+04	7.8763	100.114	23.137	0.842	-0.03	25.8139	0.00E+00
10/12/2019	8:08:38 AM	22.952	16.7116	35.3649	2.1552	4.76E-02	0.1318	4.50E+04	7.9518	101.895	23.046	-0.661	0.07	25.8657	0.00E+00
10/12/2019	8:07:58 AM	23.091	16.7599	35.3369	2.0354	4.76E-02	0.135	4.51E+04	7.8606	99.844	23.269	0.809	-0.13	25.8244	0.00E+00
10/12/2019	8:08:37 AM	23.108	16.7058	35.367	2.1567	4.76E-02	0.1318	4.50E+04	7.9135	101.311	23.226	-0.679	0.07	25.8691	0.00E+00
10/12/2019	8:07:59 AM	23.257	16.7523	35.3427	2.0377	4.76E-02	0.135	4.51E+04	7.832	99.406	23.389	0.753	-0.22	25.832	0.00E+00
10/12/2019	8:08:37 AM	23.264	16.6992	35.369	2.4527	4.76E-02	0.1614	4.50E+04	7.8671	100.652	23.39	-0.695	0.04	25.8726	0.00E+00
10/12/2019	8:08:37 AM	23.42	16.6918	35.3704	2.4535	4.76E-02	0.1552	4.50E+04	7.8222	100.018	23.541	-0.706	-0.04	25.8756	0.00E+00
10/12/2019	8:07:59 AM	23.423	16.7459	35.3462	2.0369	4.76E-02	0.1365	4.51E+04	7.8006	98.943	23.513	0.688	-0.26	25.837	0.00E+00
10/12/2019	8:08:36 AM	23.578	16.6836	35.371	2.4543	4.76E-02	0.1552	4.50E+04	7.7858	99.518	23.669	-0.697	-0.16	25.8781	0.00E+00
10/12/2019	8:07:59 AM	23.591	16.7399	35.348	1.9644	4.76E-02	0.1334	4.51E+04	7.7576	98.334	23.665	0.631	-0.23	25.8402	0.00E+00
10/12/2019	8:08:36 AM	23.737	16.6751	35.3708	2.4543	4.76E-02	0.1567	4.50E+04	7.7586	99.127	23.831	-0.658	-0.21	25.8797	0.00E+00
10/12/2019	8:07:59 AM	23.763	16.7342	35.3489	1.966	4.76E-02	0.1396	4.51E+04	7.7066	97.624	23.849	0.599	-0.13	25.8424	0.00E+00
10/12/2019	8:08:36 AM	23.898	16.6667	35.3697	2.2757	4.76E-02	0.1318	4.50E+04	7.7384	98.827	24.005	-0.606	-0.2	25.8805	0.00E+00
10/12/2019	8:07:59 AM	23.937	16.7286	35.3496	1.9644	4.76E-02	0.1334	4.50E+04	7.6397	96.727	24.04	0.592	-0.02	25.8444	0.00E+00
10/12/2019	8:08:36 AM	24.061	16.6589	35.3687	2.278	4.76E-02	0.1303	4.50E+04	7.731	98.689	24.217	-0.556	-0.11	25.8812	0.00E+00
10/12/2019	8:08:00 AM	24.113	16.723	35.3507	1.9614	4.76E-02	0.135	4.50E+04	7.5619	95.699	24.22	0.607	0.06	25.8465	0.00E+00
10/12/2019	8:08:36 AM	24.223	16.652	35.3687	2.2795	4.76E-02	0.1303	4.50E+04	7.7276	98.6	24.401	-0.528	0	25.8827	0.00E+00
10/12/2019	8:08:00 AM	24.292	16.7168	35.3513	1.9805	4.76E-02	0.1676	4.50E+04	7.4918	94.764	24.376	0.63	0.09	25.8483	0.00E+00
10/12/2019	8:08:35 AM	24.382	16.6457	35.3703	2.2773	4.76E-02	0.135	4.50E+04	7.7295	98.585	24.592	-0.527	0.1	25.8856	0.00E+00
10/12/2019	8:08:00 AM	24.474	16.7093	35.3506	2.0026	4.76E-02	0.1629	4.50E+04	7.4176	93.766	24.527	0.652	0.09	25.8491	0.00E+00
10/12/2019	8:08:35 AM	24.537	16.6395	35.3732	2.3139	4.76E-02	0.1303	4.50E+04	7.7382	98.672	24.748	-0.553	0.15	25.8899	0.00E+00
10/12/2019	8:08:01 AM	24.66	16.7004	35.3486	1.9972	4.76E-02	0.1583	4.50E+04	7.3497	92.842	24.708	0.674	0.09	25.8491	0.00E+00
10/12/2019	8:08:35 AM	24.687	16.6323	35.3764	2.3123	4.76E-02	0.1334	4.50E+04	7.7469	98.761	24.901	-0.59	0.16	25.8948	0.00E+00
10/12/2019	8:08:34 AM	24.833	16.6237	35.3796	2.3139	4.76E-02	0.1334	4.49E+04	7.7613	98.936	25.015	-0.63	0.07	25.9001	0.00E+00
10/12/2019	8:08:01 AM	24.852	16.6903	35.3464	1.998	4.76E-02	0.1567	4.50E+04	7.2933	92.058	24.921	0.697	0.09	25.8491	0.00E+00
10/12/2019	8:08:34 AM	24.977	16.6133	35.3822	2.3116	4.76E-02	0.1365	4.49E+04	7.7802	99.163	25.112	-0.648	-0.05	25.9051	0.00E+00
10/12/2019	8:08:01 AM	25.048	16.6798	35.3449	2.0041	4.76E-02	0.1583	4.50E+04	7.235	91.249	25.147	0.719	0.09	25.85	0.00E+00
10/12/2019	8:08:34 AM	25.121	16.6013	35.3836	2.4329	4.76E-02	0.1132	4.49E+04	7.8008	99.417	25.223	-0.636	-0.14	25.9095	0.00E+00
10/12/2019	8:08:01 AM	25.246	16.6692	35.3446	2.4451	4.76E-02	0.1598	4.50E+04	7.1852	90.552	25.383	0.746	0.11	25.8522	0.00E+00
10/12/2019	8:08:34 AM	25.266	16.5882	35.385	2.4329	4.76E-02	0.121	4.49E+04	7.8175	99.619	25.36	-0.6	-0.14	25.9139	0.00E+00
10/12/2019	8:08:34 AM	25.414	16.5745	35.3868	2.4321	4.76E-02	0.1194	4.49E+04	7.8319	99.791	25.515	-0.566	-0.11	25.9189	0.00E+00
10/12/2019	8:08:01 AM	25.445	16.6582	35.3448	2.4459	4.76E-02	0.1614	4.50E+04	7.1393	89.896	25.592	0.776	0.12	25.8548	0.00E+00
10/12/2019	8:08:33 AM	25.565	16.56	35.3893	2.4321	4.76E-02	0.121	4.49E+04	7.8429	99.922	25.712	-0.538	-0.01	25.9249	0.00E+00
10/12/2019	8:08:02 AM	25.645	16.6463	35.3444	2.4466	4.76E-02	0.1552	4.50E+04	7.0917	89.213	25.772	0.801	0.1	25.857	0.00E+00
10/12/2019	8:08:33 AM	25.715	16.5444	35.3928	2.4337	4.76E-02	0.1194	4.49E+04	7.8445	99.936	25.901	-0.537	0.05	25.932	0.00E+00
10/12/2019	8:08:02 AM	25.845	16.6322	35.3425	2.4436	4.76E-02	0.1614	4.50E+04	7.052	88.611	25.959	0.82	0.08	25.8581	0.00E+00

10/12/2019	8:08:33 AM	25.862	16.5273	35.3955	2.2177	4.76E-02	0.1365	4.48E+04	7.8528	100.034	26.076	-0.549	0.06	25.9388	0.00E+00
10/12/2019	8:08:32 AM	26.006	16.5084	35.3968	2.2147	4.76E-02	0.1381	4.48E+04	7.8519	100.01	26.227	-0.564	0.03	25.9445	0.00E+00
10/12/2019	8:08:02 AM	26.047	16.6149	35.3385	2.4321	4.76E-02	0.1583	4.49E+04	7.0034	87.883	26.152	0.826	0.03	25.8579	0.00E+00
10/12/2019	8:08:32 AM	26.145	16.4884	35.3971	2.2185	4.76E-02	0.1303	4.48E+04	7.8431	99.888	26.333	-0.572	-0.07	25.9495	0.00E+00
10/12/2019	8:08:03 AM	26.252	16.5933	35.3325	2.4306	4.76E-02	0.1598	4.49E+04	6.9502	87.115	26.347	0.817	-0.04	25.8566	0.00E+00
10/12/2019	8:08:32 AM	26.282	16.468	35.3959	2.217	4.76E-02	0.1318	4.48E+04	7.833	99.741	26.431	-0.555	-0.13	25.9531	0.00E+00
10/12/2019	8:08:32 AM	26.419	16.4477	35.3937	2.0484	4.76E-02	0.1365	4.48E+04	7.8229	99.596	26.532	-0.522	-0.19	25.9557	0.00E+00
10/12/2019	8:08:03 AM	26.46	16.5666	35.3241	2.4352	4.76E-02	0.1645	4.49E+04	6.8952	86.353	26.565	0.805	-0.05	25.8542	0.00E+00
10/12/2019	8:08:31 AM	26.557	16.4283	35.3936	2.0499	4.76E-02	0.1303	4.47E+04	7.8109	99.422	26.694	-0.474	-0.11	25.9598	0.00E+00
10/12/2019	8:08:03 AM	26.67	16.536	35.3147	2.4352	4.76E-02	0.1552	4.49E+04	6.8443	85.668	26.795	0.802	-0.01	25.852	0.00E+00
10/12/2019	8:08:31 AM	26.696	16.4101	35.3961	2.0522	4.76E-02	0.1365	4.47E+04	7.7926	99.173	26.857	-0.446	-0.03	25.9663	0.00E+00
10/12/2019	8:08:31 AM	26.833	16.3919	35.399	2.0491	4.76E-02	0.135	4.47E+04	7.7674	98.836	27.046	-0.439	0.09	25.9733	0.00E+00
10/12/2019	8:08:03 AM	26.881	16.5039	35.3085	2.3131	4.76E-02	0.1583	4.48E+04	6.786	84.904	27.032	0.812	0.04	25.8535	0.00E+00
10/12/2019	8:08:31 AM	26.968	16.3724	35.4008	1.8912	4.76E-02	0.1179	4.47E+04	7.7408	98.488	27.195	-0.462	0.13	25.9797	0.00E+00
10/12/2019	8:08:03 AM	27.092	16.4718	35.3072	2.3123	4.76E-02	0.1629	4.48E+04	6.7236	84.097	27.28	0.841	0.12	25.8597	0.00E+00
10/12/2019	8:08:31 AM	27.098	16.3516	35.401	1.8935	4.76E-02	0.1101	4.47E+04	7.7111	98.105	27.308	-0.495	0.15	25.9849	0.00E+00
10/12/2019	8:08:30 AM	27.224	16.3302	35.4022	1.8935	4.76E-02	0.121	4.47E+04	7.677	97.664	27.4	-0.534	0.15	25.9909	0.00E+00
10/12/2019	8:08:04 AM	27.301	16.4402	35.3085	2.3162	4.76E-02	0.1598	4.48E+04	6.6594	83.272	27.523	0.878	0.15	25.8682	0.00E+00
10/12/2019	8:08:30 AM	27.35	16.3087	35.4068	1.8912	4.76E-02	0.1225	4.46E+04	7.643	97.222	27.469	-0.571	0.1	26.0002	0.00E+00
10/12/2019	8:08:30 AM	27.477	16.2864	35.4121	1.7119	4.76E-02	0.121	4.46E+04	7.6089	96.77	27.571	-0.595	0.06	26.0106	0.00E+00
10/12/2019	8:08:04 AM	27.507	16.4094	35.3102	2.3146	4.76E-02	0.1567	4.47E+04	6.5951	82.453	27.732	0.903	0.1	25.8769	0.00E+00
10/12/2019	8:08:29 AM	27.607	16.2618	35.4166	1.7111	4.76E-02	0.1148	4.46E+04	7.5672	96.216	27.673	-0.61	0.03	26.021	0.00E+00
10/12/2019	8:08:04 AM	27.708	16.3796	35.3124	2.3131	4.76E-02	0.1396	4.47E+04	6.5406	81.747	27.932	0.912	0.04	25.886	0.00E+00
10/12/2019	8:08:29 AM	27.743	16.2343	35.4215	1.7119	4.76E-02	0.1163	4.46E+04	7.5456	95.917	27.832	-0.617	0.07	26.0323	0.00E+00
10/12/2019	8:08:29 AM	27.882	16.2044	35.4259	1.7104	4.76E-02	0.1194	4.45E+04	7.5102	95.439	27.987	-0.636	0.1	26.0437	0.00E+00
10/12/2019	8:08:05 AM	27.905	16.3498	35.3148	2.1086	4.76E-02	0.135	4.47E+04	6.4849	80.985	28.109	0.901	-0.04	25.8951	0.00E+00
10/12/2019	8:08:29 AM	28.025	16.172	35.4301	1.7127	4.76E-02	0.1194	4.45E+04	7.4779	95.004	28.151	-0.661	0.11	26.0554	0.00E+00
10/12/2019	8:08:05 AM	28.099	16.3182	35.3147	2.1132	4.76E-02	0.135	4.46E+04	6.4361	80.287	28.271	0.868	-0.13	25.902	0.00E+00
10/12/2019	8:08:29 AM	28.17	16.1374	35.4344	1.8073	4.76E-02	0.1023	4.45E+04	7.4487	94.611	28.277	-0.688	0.01	26.0677	0.00E+00
10/12/2019	8:08:05 AM	28.292	16.284	35.311	2.1086	4.76E-02	0.1287	4.46E+04	6.3881	79.595	28.445	0.826	-0.17	25.906	0.00E+00
10/12/2019	8:08:28 AM	28.318	16.1004	35.4366	1.8042	4.76E-02	0.0914	4.44E+04	7.4229	94.25	28.427	-0.691	-0.06	26.0786	0.00E+00
10/12/2019	8:08:28 AM	28.469	16.0613	35.4356	1.8042	4.76E-02	0.0914	4.44E+04	7.3899	93.806	28.586	-0.676	-0.13	26.0868	0.00E+00
10/12/2019	8:08:05 AM	28.485	16.2472	35.3055	2.1079	4.76E-02	0.1381	4.46E+04	6.3449	78.969	28.628	0.783	-0.17	25.9092	0.00E+00
10/12/2019	8:08:28 AM	28.623	16.0215	35.4339	1.808	4.76E-02	0.0899	4.43E+04	7.3685	93.488	28.747	-0.642	-0.15	26.0943	0.00E+00
10/12/2019	8:08:06 AM	28.679	16.2081	35.3005	2.1727	4.76E-02	0.1179	4.45E+04	6.2996	78.34	28.823	0.75	-0.13	25.9133	0.00E+00
10/12/2019	8:08:27 AM	28.779	15.9823	35.4337	1.1756	4.76E-02	0.0728	4.43E+04	7.3482	93.196	28.908	-0.605	-0.15	26.103	0.00E+00
10/12/2019	8:08:06 AM	28.874	16.167	35.2961	2.1689	4.76E-02	0.1148	4.45E+04	6.242	77.578	29.025	0.734	-0.06	25.9184	0.00E+00
10/12/2019	8:08:27 AM	28.937	15.944	35.4339	1.1756	4.76E-02	0.065	4.43E+04	7.3255	92.862	29.082	-0.567	-0.09	26.1119	0.00E+00
10/12/2019	8:08:06 AM	29.069	16.1237	35.292	2.1697	4.76E-02	0.1194	4.45E+04	6.1754	76.722	29.225	0.736	0.01	25.9243	0.00E+00
10/12/2019	8:08:27 AM	29.096	15.9055	35.4295	1.1756	4.76E-02	0.0728	4.42E+04	7.2979	92.475	29.277	-0.544	-0.01	26.1168	0.00E+00
10/12/2019	8:08:27 AM	29.253	15.8669	35.4173	1.1801	4.76E-02	0.0681	4.42E+04	7.2749	92.149	29.472	-0.541	0.07	26.1142	0.00E+00
10/12/2019	8:08:06 AM	29.265	16.0777	35.2875	2.1697	4.76E-02	0.121	4.44E+04	6.1016	75.79	29.416	0.745	0.04	25.9303	0.00E+00
10/12/2019	8:08:27 AM	29.407	15.8309	35.4025	0.9688	4.76E-02	0.0681	4.41E+04	7.2482	91.789	29.644	-0.56	0.12	26.1079	0.00E+00
10/12/2019	8:08:06 AM	29.463	16.0287	35.2816	1.892	4.76E-02	0.1163	4.44E+04	6.0267	74.85	29.596	0.756	0.05	25.9357	0.00E+00
10/12/2019	8:08:26 AM	29.558	15.8012	35.3909	0.9711	4.76E-02	0.0666	4.41E+04	7.2162	91.361	29.769	-0.591	0.13	26.1027	0.00E+00
10/12/2019	8:08:07 AM	29.662	15.9775	35.275	1.8935	4.76E-02	0.1194	4.43E+04	5.9498	73.889	29.778	0.764	0.03	25.9412	0.00E+00
10/12/2019	8:08:26 AM	29.706	15.7788	35.3841	0.9711	4.76E-02	0.0759	4.41E+04	7.1926	91.018	29.888	-0.624	0.08	26.1006	0.00E+00
10/12/2019	8:08:26 AM	29.853	15.7621	35.3819	0.9665	4.76E-02	0.0681	4.41E+04	7.1344	90.246	29.986	-0.645	0	26.1018	0.00E+00
10/12/2019	8:08:07 AM	29.864	15.9272	35.2704	1.8935	4.76E-02	0.121	4.42E+04	5.8777	72.99	29.975	0.767	0.01	25.949	0.00E+00
10/12/2019	8:08:25 AM	30.001	15.7484	35.3825	0.9001	4.76E-02	0.0681	4.41E+04	7.0915	89.659	30.12	-0.644	-0.04	26.1053	0.00E+00
10/12/2019	8:08:07 AM	30.069	15.8818	35.2725	1.8943	4.76E-02	0.1241	4.42E+04	5.8106	72.156	30.192	0.773	0.02	25.9623	0.00E+00
10/12/2019	8:08:25 AM	30.153	15.7357	35.3853	0.9032	4.76E-02	0.0681	4.41E+04	7.0426	89.014	30.259	-0.634	-0.03	26.1108	0.00E+00
10/12/2019	8:08:08 AM	30.277	15.8439	35.2829	1.4441	4.76E-02	0.1148	4.42E+04	5.7656	71.596	30.42	0.783	0.04	25.9819	0.00E+00

10/12/2019	8:08:25 AM	30.308	15.7224	35.3902	0.9009	4.76E-02	0.0712	4.40E+04	6.986	88.269	30.435	-0.627	0.02	26.1187	0.00E+00
10/12/2019	8:08:25 AM	30.466	15.7073	35.3964	0.9024	4.76E-02	0.0712	4.40E+04	6.9287	87.503	30.605	-0.633	0.09	26.1283	0.00E+00
10/12/2019	8:08:08 AM	30.487	15.8129	35.297	1.4441	4.76E-02	0.1225	4.41E+04	5.7304	71.16	30.625	0.794	0.04	26.0031	0.00E+00
10/12/2019	8:08:24 AM	30.625	15.6895	35.402	0.8978	4.76E-02	0.0681	4.40E+04	6.8668	86.664	30.774	-0.656	0.16	26.1381	0.00E+00
10/12/2019	8:08:08 AM	30.699	15.7869	35.3092	1.4449	4.76E-02	0.1163	4.41E+04	5.7096	70.905	30.833	0.808	0.05	26.0212	0.00E+00
10/12/2019	8:08:24 AM	30.786	15.6682	35.4054	0.7948	4.76E-02	0.1256	4.40E+04	6.8096	85.9	30.932	-0.695	0.21	26.1466	0.00E+00
10/12/2019	8:08:08 AM	30.914	15.7639	35.3176	1.4449	4.76E-02	0.1148	4.41E+04	5.6965	70.747	31.05	0.826	0.07	26.0348	0.00E+00
10/12/2019	8:08:24 AM	30.949	15.644	35.4074	0.7903	4.76E-02	0.1194	4.40E+04	6.7549	85.147	31.106	-0.748	0.24	26.1544	0.00E+00
10/12/2019	8:08:24 AM	31.113	15.6178	35.4104	0.7895	4.76E-02	0.1148	4.39E+04	6.7015	84.418	31.245	-0.808	0.18	26.1634	0.00E+00
10/12/2019	8:08:08 AM	31.13	15.7416	35.322	1.4433	4.76E-02	0.0977	4.41E+04	5.7016	70.817	31.267	0.843	0.07	26.044	0.00E+00
10/12/2019	8:08:24 AM	31.28	15.59	35.4137	0.7933	4.76E-02	0.1163	4.39E+04	6.6508	83.711	31.38	-0.854	0.06	26.1729	0.00E+00
10/12/2019	8:08:09 AM	31.349	15.7171	35.322	1.1641	4.76E-02	0.0945	4.40E+04	5.7039	70.851	31.492	0.857	0.06	26.0492	0.00E+00
10/12/2019	8:08:23 AM	31.452	15.5604	35.4133	0.556	4.76E-02	0.1225	4.39E+04	6.6126	83.16	31.526	-0.87	-0.07	26.1796	0.00E+00
10/12/2019	8:08:09 AM	31.57	15.6869	35.316	1.1641	4.76E-02	0.093	4.40E+04	5.7116	70.952	31.716	0.866	0.03	26.0497	0.00E+00
10/12/2019	8:08:23 AM	31.629	15.5294	35.4069	0.5545	4.76E-02	0.1148	4.38E+04	6.5813	82.693	31.715	-0.852	-0.14	26.1808	0.00E+00
10/12/2019	8:08:09 AM	31.793	15.6493	35.3029	1.1603	4.76E-02	0.0914	4.40E+04	5.7239	71.113	31.955	0.874	0.03	26.0452	0.00E+00
10/12/2019	8:08:23 AM	31.812	15.4988	35.3953	0.556	4.76E-02	0.1132	4.38E+04	6.5484	82.222	31.909	-0.818	-0.19	26.1766	0.00E+00
10/12/2019	8:08:22 AM	32	15.4717	35.3822	0.5545	4.76E-02	0.121	4.38E+04	6.5239	81.861	32.128	-0.771	-0.15	26.1699	0.00E+00
10/12/2019	8:08:10 AM	32.017	15.6064	35.287	1.1618	4.76E-02	0.0945	4.39E+04	5.7382	71.296	32.197	0.887	0.05	26.0398	0.00E+00
10/12/2019	8:08:22 AM	32.191	15.4504	35.3707	0.5766	4.76E-02	0.1334	4.38E+04	6.4968	81.445	32.357	-0.735	-0.12	26.1632	0.00E+00
10/12/2019	8:08:10 AM	32.241	15.563	35.2772	1.0405	4.76E-02	0.0961	4.39E+04	5.7491	71.439	32.435	0.906	0.08	26.0408	0.00E+00
10/12/2019	8:08:22 AM	32.382	15.4354	35.3621	0.5774	4.76E-02	0.1303	4.37E+04	6.4667	80.997	32.608	-0.704	-0.04	26.1578	0.00E+00
10/12/2019	8:08:10 AM	32.463	15.5232	35.2769	1.0428	4.76E-02	0.0899	4.38E+04	5.7696	71.695	32.665	0.92	0.06	26.0502	0.00E+00
10/12/2019	8:08:22 AM	32.571	15.4257	35.3565	0.5782	4.76E-02	0.1287	4.37E+04	6.4338	80.503	32.836	-0.694	0.03	26.1542	0.00E+00
10/12/2019	8:08:10 AM	32.685	15.4896	35.2835	1.0436	4.76E-02	0.0961	4.38E+04	5.7822	71.853	32.91	0.933	0.05	26.065	0.00E+00
10/12/2019	8:08:22 AM	32.756	15.4201	35.3528	0.5766	4.76E-02	0.1334	4.37E+04	6.3898	79.916	33.04	-0.702	0.1	26.1515	0.00E+00
10/12/2019	8:08:10 AM	32.904	15.4633	35.2949	1.0436	4.76E-02	0.0961	4.38E+04	5.7945	72.004	33.156	0.946	0.05	26.0828	0.00E+00
10/12/2019	8:08:21 AM	32.934	15.4172	35.3498	0.5248	4.76E-02	0.135	4.37E+04	6.3373	79.242	33.209	-0.727	0.04	26.1491	0.00E+00
10/12/2019	8:08:21 AM	33.107	15.4161	35.3472	0.527	4.76E-02	0.1334	4.37E+04	6.2771	78.479	33.358	-0.737	-0.15	26.1468	0.00E+00
10/12/2019	8:08:11 AM	33.118	15.444	35.3083	0.7315	4.76E-02	0.1148	4.38E+04	5.8088	72.182	33.398	0.955	0.04	26.1008	0.00E+00
10/12/2019	8:08:21 AM	33.276	15.4166	35.3453	0.5293	4.76E-02	0.1287	4.37E+04	6.2179	77.732	33.52	-0.7	-0.3	26.1447	0.00E+00
10/12/2019	8:08:11 AM	33.327	15.4303	35.3208	0.7307	4.76E-02	0.1179	4.37E+04	5.8237	72.366	33.645	0.963	0.03	26.1163	0.00E+00
10/12/2019	8:08:20 AM	33.441	15.4183	35.3443	0.5255	4.76E-02	0.135	4.37E+04	6.1434	76.79	33.68	-0.625	-0.43	26.1432	0.00E+00
10/12/2019	8:08:11 AM	33.527	15.421	35.3308	0.7323	4.76E-02	0.1225	4.37E+04	5.832	72.468	33.888	0.966	0.02	26.1284	0.00E+00
10/12/2019	8:08:20 AM	33.602	15.421	35.3444	0.5278	4.76E-02	0.1318	4.37E+04	6.075	75.918	33.886	-0.518	-0.45	26.1425	0.00E+00
10/12/2019	8:08:12 AM	33.717	15.4148	35.3382	0.7315	4.76E-02	0.1163	4.37E+04	5.8407	72.576	34.129	0.969	0.01	26.1371	0.00E+00
10/12/2019	8:08:20 AM	33.758	15.4242	35.3455	0.6018	4.76E-02	0.1847	4.37E+04	6.0125	75.12	34.061	-0.405	-0.48	26.1429	0.00E+00
10/12/2019	8:08:12 AM	33.892	15.4109	35.3434	0.5888	4.76E-02	0.1132	4.37E+04	5.8477	72.667	34.384	0.976	0.03	26.1432	0.00E+00
10/12/2019	8:08:20 AM	33.906	15.4273	35.3472	0.5988	4.76E-02	0.1893	4.37E+04	5.9483	74.289	34.254	-0.284	-0.44	26.1438	0.00E+00
10/12/2019	8:08:20 AM	34.044	15.4298	35.3485	0.6018	4.76E-02	0.1816	4.37E+04	5.8973	73.617	34.445	-0.174	-0.34	26.1445	0.00E+00
10/12/2019	8:08:12 AM	34.048	15.4088	35.3473	0.5881	4.76E-02	0.1241	4.37E+04	5.8525	72.731	34.651	0.987	0.04	26.1476	0.00E+00
10/12/2019	8:08:19 AM	34.169	15.4315	35.349	0.601	4.76E-02	0.1831	4.37E+04	5.8558	73.057	34.659	-0.09	-0.16	26.1447	0.00E+00
10/12/2019	8:08:12 AM	34.18	15.4083	35.3506	0.5896	4.76E-02	0.121	4.37E+04	5.8594	72.823	34.777	0.961	-0.1	26.151	0.00E+00
10/12/2019	8:08:19 AM	34.276	15.4327	35.3488	0.5537	4.76E-02	0.2064	4.37E+04	5.8297	72.692	34.792	-0.051	-0.03	26.1442	0.00E+00
10/12/2019	8:08:13 AM	34.288	15.4092	35.3533	0.5911	4.76E-02	0.121	4.37E+04	5.8656	72.904	34.823	0.888	-0.29	26.1535	0.00E+00
10/12/2019	8:08:19 AM	34.364	15.4337	35.3479	0.5522	4.76E-02	0.2064	4.37E+04	5.8145	72.458	34.828	-0.042	-0.01	26.1432	0.00E+00
10/12/2019	8:08:13 AM	34.375	15.4112	35.3555	0.5881	4.76E-02	0.1676	4.37E+04	5.8707	72.965	34.839	0.773	-0.46	26.1554	0.00E+00
10/12/2019	8:08:18 AM	34.435	15.435	35.347	0.5553	4.76E-02	0.2096	4.37E+04	5.8061	72.315	34.85	-0.039	0	26.142	0.00E+00
10/12/2019	8:08:13 AM	34.444	15.414	35.3573	0.5675	4.76E-02	0.1862	4.37E+04	5.8759	73.024	34.852	0.631	-0.57	26.1565	0.00E+00
10/12/2019	8:08:18 AM	34.492	15.4367	35.3463	0.5537	4.76E-02	0.2111	4.38E+04	5.8047	72.231	34.864	-0.038	-0.01	26.1409	0.00E+00
10/12/2019	8:08:13 AM	34.501	15.4173	35.3585	0.5667	4.76E-02	0.18	4.37E+04	5.8769	73.029	34.865	0.477	-0.61	26.157	0.00E+00
10/12/2019	8:08:18 AM	34.538	15.4388	35.3465	0.5392	4.76E-02	0.2298	4.38E+04	5.8085	72.228	34.876	-0.037	-0.01	26.1405	0.00E+00
10/12/2019	8:08:13 AM	34.546	15.4209	35.3592	0.5637	4.76E-02	0.1831	4.37E+04	5.8745	72.995	34.878	0.327	-0.6	26.1569	0.00E+00

10/12/2019	8:08:18 AM	34.575	15.4413	35.3481	0.5385	4.76E-02	0.2313	4.38E+04	5.8153	72.261	34.879	-0.034	-0.03	26.1415	0.00E+00
10/12/2019	8:08:14 AM	34.582	15.4246	35.3595	0.5652	4.76E-02	0.1847	4.37E+04	5.8704	72.94	34.888	0.194	-0.53	26.1564	0.00E+00
10/12/2019	8:08:17 AM	34.605	15.4435	35.3508	0.5438	4.76E-02	0.236	4.38E+04	5.814	72.222	34.882	-0.027	-0.04	26.1436	0.00E+00
10/12/2019	8:08:14 AM	34.612	15.4284	35.3598	0.6216	4.76E-02	0.208	4.37E+04	5.8649	72.872	34.898	0.097	-0.39	26.1558	0.00E+00
10/12/2019	8:08:17 AM	34.63	15.4448	35.3533	0.5423	4.76E-02	0.2344	4.38E+04	5.8229	72.317	34.896	-0.017	-0.04	26.1458	0.00E+00
10/12/2019	8:08:14 AM	34.635	15.4317	35.3597	0.6239	4.76E-02	0.2158	4.37E+04	5.8614	72.828	34.907	0.058	-0.16	26.1549	0.00E+00
10/12/2019	8:08:17 AM	34.65	15.4446	35.3545	0.6606	4.76E-02	0.2375	4.38E+04	5.8219	72.303	34.911	-0.007	-0.03	26.1471	0.00E+00
10/12/2019	8:08:15 AM	34.654	15.4344	35.3588	0.6255	4.76E-02	0.2096	4.38E+04	5.8524	72.716	34.914	0.046	-0.05	26.1533	0.00E+00
10/12/2019	8:08:17 AM	34.666	15.4433	35.3544	0.6621	4.76E-02	0.2313	4.38E+04	5.8275	72.374	34.923	0.002	-0.03	26.1474	0.00E+00
10/12/2019	8:08:15 AM	34.669	15.4361	35.3572	0.6278	4.76E-02	0.2111	4.38E+04	5.8473	72.653	34.922	0.041	-0.02	26.1514	0.00E+00
10/12/2019	8:08:17 AM	34.678	15.4415	35.3536	0.6636	4.76E-02	0.2313	4.38E+04	5.8308	72.414	34.932	0.01	-0.02	26.1471	0.00E+00
10/12/2019	8:08:15 AM	34.68	15.4372	35.3553	0.6148	4.76E-02	0.2049	4.38E+04	5.8414	72.576	34.927	0.037	-0.02	26.1493	0.00E+00
10/12/2019	8:08:15 AM	34.687	15.4377	35.3537	0.611	4.76E-02	0.2111	4.38E+04	5.8389	72.538	34.932	0.033	-0.02	26.1477	0.00E+00
10/12/2019	8:08:16 AM	34.687	15.44	35.3528	0.659	4.76E-02	0.2344	4.38E+04	5.8304	72.41	34.937	0.016	-0.02	26.1465	0.00E+00
10/12/2019	8:08:15 AM	34.692	15.4381	35.3528	0.6155	4.76E-02	0.2127	4.38E+04	5.8371	72.508	34.936	0.029	-0.02	26.1468	0.00E+00
10/12/2019	8:08:16 AM	34.692	15.4389	35.3523	0.659	4.76E-02	0.2329	4.38E+04	5.8335	72.452	34.939	0.021	-0.02	26.1462	0.00E+00
10/12/2019	8:08:16 AM	34.693	15.4384	35.3523	0.6148	4.76E-02	0.2158	4.38E+04	5.8346	72.47	34.938	0.025	-0.02	26.1463	0.00E+00

TRANSECT 1 - 0 m

DD MMM YYYY HH:MM:SS	DD MMM YYYY HH:MM:SS	DepSM	Tv290C	Sal00	FlECO-AFL	Par	TurbWETntu0	C0uS/cm	Sbeox0Mg/L	Sbeox0PS	PrdM	Dz/dtM	AccM	Sigma-t00	Flag
10/12/2019	8:18:49 AM	0.636	18.0429	35.317	0.4187	4.76E-02	1.8273	4.63E+04	7.7998	101.941	0.586	0.207	0.04	25.5047	0.00E+00
10/12/2019	8:18:49 AM	0.687	18.044	35.3174	0.4187	4.76E-02	1.8305	4.63E+04	7.8338	102.382	0.639	0.203	-0.02	25.5048	0.00E+00
10/12/2019	8:18:49 AM	0.741	18.0455	35.3179	0.4187	4.76E-02	1.8305	4.63E+04	7.8699	102.852	0.699	0.193	-0.04	25.505	0.00E+00
10/12/2019	8:18:49 AM	0.798	18.0476	35.3187	0.4218	4.76E-02	1.8289	4.63E+04	7.9038	103.296	0.736	0.185	-0.03	25.5053	0.00E+00
10/12/2019	8:18:50 AM	0.86	18.0503	35.32	0.3569	4.76E-02	1.5429	4.63E+04	7.9257	103.582	0.772	0.182	-0.01	25.5059	0.00E+00
10/12/2019	8:18:50 AM	0.927	18.0532	35.3212	0.3561	4.76E-02	1.5538	4.63E+04	7.923	103.55	0.837	0.186	0.01	25.5063	0.00E+00
10/12/2019	8:18:50 AM	1	18.0563	35.3218	0.36	4.76E-02	1.5507	4.63E+04	7.907	103.345	0.898	0.194	0.03	25.5062	0.00E+00
10/12/2019	8:20:13 AM	1.027	18.0679	35.3177	0.3928	4.76E-02	0.7302	4.63E+04	7.131	93.154	0.844	-0.871	0.05	25.4984	0.00E+00
10/12/2019	8:18:51 AM	1.08	18.0594	35.3222	0.3569	4.76E-02	1.5492	4.63E+04	7.8906	103.129	0.923	0.195	0.01	25.5057	0.00E+00
10/12/2019	8:18:51 AM	1.171	18.0621	35.3223	0.3546	4.76E-02	1.1715	4.63E+04	7.8638	102.775	0.952	0.188	-0.03	25.505	0.00E+00
10/12/2019	8:20:12 AM	1.179	18.0683	35.3175	0.3928	4.76E-02	0.7286	4.63E+04	7.24	94.58	0.989	-0.882	-0.1	25.4981	0.00E+00
10/12/2019	8:18:51 AM	1.275	18.0643	35.3219	0.3607	4.76E-02	1.1746	4.63E+04	7.8407	102.472	1.051	0.194	0.02	25.5039	0.00E+00
10/12/2019	8:20:12 AM	1.342	18.0688	35.3173	0.3973	4.76E-02	0.7286	4.63E+04	7.3443	95.947	1.201	-0.857	-0.15	25.4978	0.00E+00
10/12/2019	8:18:51 AM	1.392	18.0661	35.3211	0.3592	4.76E-02	1.1684	4.63E+04	7.8281	102.305	1.215	0.23	0.15	25.5027	0.00E+00
10/12/2019	8:20:12 AM	1.514	18.0693	35.317	0.3966	4.76E-02	0.7286	4.63E+04	7.4406	97.207	1.413	-0.82	-0.22	25.4974	0.00E+00
10/12/2019	8:18:51 AM	1.521	18.0675	35.3203	0.3577	4.76E-02	1.1669	4.63E+04	7.827	102.276	1.399	0.297	0.27	25.5015	0.00E+00
10/12/2019	8:18:52 AM	1.658	18.0683	35.3196	0.3653	4.76E-02	0.9042	4.63E+04	7.8339	102.353	1.582	0.379	0.33	25.5005	0.00E+00
10/12/2019	8:20:11 AM	1.693	18.07	35.3168	0.3951	4.76E-02	0.7286	4.63E+04	7.5274	98.344	1.651	-0.764	-0.26	25.497	0.00E+00
10/12/2019	8:18:52 AM	1.8	18.0688	35.3188	0.3706	4.76E-02	0.898	4.63E+04	7.8481	102.523	1.748	0.461	0.33	25.4996	0.00E+00
10/12/2019	8:20:11 AM	1.876	18.0709	35.3168	0.4187	4.76E-02	0.2577	4.63E+04	7.5969	99.255	1.876	-0.699	-0.33	25.4968	0.00E+00
10/12/2019	8:18:52 AM	1.947	18.0689	35.3183	0.3699	4.76E-02	0.9027	4.63E+04	7.8552	102.605	1.887	0.536	0.3	25.499	0.00E+00
10/12/2019	8:20:11 AM	2.058	18.0717	35.3169	0.421	4.76E-02	0.2624	4.63E+04	7.6595	100.061	2.113	-0.615	-0.36	25.4967	0.00E+00
10/12/2019	8:18:53 AM	2.099	18.0689	35.318	0.3714	4.76E-02	0.9073	4.63E+04	7.8503	102.53	2.016	0.596	0.24	25.4987	0.00E+00
10/12/2019	8:20:11 AM	2.239	18.0725	35.317	0.4195	4.76E-02	0.2639	4.63E+04	7.7115	100.761	2.326	-0.525	-0.28	25.4967	0.00E+00
10/12/2019	8:18:53 AM	2.257	18.0687	35.318	0.3714	4.76E-02	0.9042	4.63E+04	7.8387	102.363	2.159	0.628	0.13	25.4986	0.00E+00
10/12/2019	8:20:11 AM	2.415	18.0732	35.3173	0.4187	4.76E-02	0.2531	4.63E+04	7.7657	101.47	2.534	-0.456	-0.08	25.4968	0.00E+00
10/12/2019	8:18:53 AM	2.421	18.0682	35.3178	0.3813	4.76E-02	0.7768	4.63E+04	7.8211	102.123	2.322	0.63	0.01	25.4985	0.00E+00
10/12/2019	8:20:10 AM	2.584	18.0737	35.3178	0.3966	4.76E-02	0.2111	4.63E+04	7.8265	102.269	2.725	-0.436	0.07	25.4972	0.00E+00
10/12/2019	8:18:53 AM	2.591	18.0675	35.3175	0.3821	4.76E-02	0.7815	4.63E+04	7.8085	101.953	2.499	0.622	-0.03	25.4983	0.00E+00
10/12/2019	8:20:10 AM	2.747	18.074	35.3183	0.3958	4.76E-02	0.2064	4.63E+04	7.8783	102.955	2.878	-0.452	0.17	25.4977	0.00E+00
10/12/2019	8:18:54 AM	2.769	18.0669	35.3174	0.3821	4.76E-02	0.7783	4.63E+04	7.7935	101.758	2.694	0.624	0.01	25.4983	0.00E+00
10/12/2019	8:20:10 AM	2.901	18.074	35.3192	0.3951	4.76E-02	0.2064	4.63E+04	7.9197	103.499	3.039	-0.493	0.23	25.4986	0.00E+00
10/12/2019	8:18:54 AM	2.951	18.0663	35.3175	0.3851	4.76E-02	0.7815	4.63E+04	7.7836	101.627	2.91	0.646	0.09	25.4986	0.00E+00
10/12/2019	8:20:09 AM	3.049	18.0735	35.3208	0.3951	4.76E-02	0.2033	4.63E+04	7.9495	103.889	3.164	-0.552	0.24	25.5003	0.00E+00
10/12/2019	8:18:54 AM	3.137	18.0659	35.3176	0.4042	4.76E-02	0.9011	4.63E+04	7.775	101.513	3.141	0.689	0.18	25.4988	0.00E+00
10/12/2019	8:20:09 AM	3.19	18.0725	35.3227	0.4416	4.76E-02	0.1396	4.63E+04	7.9639	104.081	3.267	-0.612	0.25	25.5025	0.00E+00
10/12/2019	8:18:54 AM	3.324	18.0657	35.318	0.4057	4.76E-02	0.9011	4.63E+04	7.7738	101.493	3.36	0.743	0.21	25.4992	0.00E+00
10/12/2019	8:20:09 AM	3.329	18.0705	35.3243	0.4454	4.76E-02	0.1287	4.63E+04	7.9625	104.064	3.322	-0.675	0.18	25.5046	0.00E+00
10/12/2019	8:20:09 AM	3.47	18.0675	35.3248	0.4416	4.76E-02	0.1334	4.63E+04	7.9611	104.048	3.361	-0.719	0.06	25.506	0.00E+00
10/12/2019	8:18:54 AM	3.511	18.0658	35.3186	0.4073	4.76E-02	0.9027	4.63E+04	7.7846	101.634	3.56	0.788	0.18	25.4998	0.00E+00
10/12/2019	8:20:09 AM	3.617	18.0638	35.3242	0.4439	4.76E-02	0.1334	4.63E+04	7.9583	104.013	3.488	-0.734	-0.03	25.5064	0.00E+00
10/12/2019	8:18:55 AM	3.696	18.0659	35.3191	0.4042	4.76E-02	0.8949	4.63E+04	7.8021	101.864	3.743	0.815	0.1	25.5003	0.00E+00
10/12/2019	8:20:08 AM	3.773	18.06	35.3235	0.4813	4.76E-02	0.1179	4.63E+04	7.9555	103.977	3.701	-0.726	-0.01	25.5067	0.00E+00
10/12/2019	8:18:55 AM	3.879	18.0656	35.3192	0.4797	4.76E-02	1.0052	4.63E+04	7.8268	102.185	3.91	0.818	0.01	25.5003	0.00E+00
10/12/2019	8:20:08 AM	3.935	18.0566	35.3235	0.4805	4.76E-02	0.1179	4.63E+04	7.9509	103.917	3.891	-0.723	0.01	25.5074	0.00E+00
10/12/2019	8:18:55 AM	4.062	18.0645	35.3185	0.479	4.76E-02	1.0006	4.63E+04	7.8499	102.486	4.066	0.8	-0.07	25.4997	0.00E+00
10/12/2019	8:20:08 AM	4.101	18.0535	35.3235	0.4813	4.76E-02	0.1194	4.63E+04	7.9439	103.826	4.085	-0.726	0.07	25.5081	0.00E+00
10/12/2019	8:18:56 AM	4.246	18.0626	35.3173	0.4797	4.76E-02	1.0006	4.63E+04	7.8689	102.743	4.222	0.767	-0.13	25.4989	0.00E+00
10/12/2019	8:20:07 AM	4.269	18.0505	35.323	0.4813	4.76E-02	0.1179	4.63E+04	7.9437	103.824	4.25	-0.742	0.05	25.5083	0.00E+00
10/12/2019	8:18:56 AM	4.433	18.0599	35.3162	0.479	4.76E-02	1.0037	4.63E+04	7.88	102.911	4.392	0.729	-0.15	25.4983	0.00E+00

10/12/2019	8:20:07 AM	4.441	18.0477	35.3223	0.479	4.76E-02	0.1163	4.63E+04	7.9452	103.844	4.404	-0.755	0	25.5082	0.00E+00
10/12/2019	8:20:07 AM	4.616	18.0453	35.3219	0.5034	4.76E-02	0.1085	4.63E+04	7.9432	103.819	4.591	-0.755	-0.04	25.5083	0.00E+00
10/12/2019	8:18:56 AM	4.624	18.056	35.3151	0.4912	4.76E-02	0.6835	4.63E+04	7.8801	102.935	4.577	0.699	-0.12	25.4979	0.00E+00
10/12/2019	8:20:07 AM	4.794	18.0433	35.3215	0.5042	4.76E-02	0.121	4.63E+04	7.9442	103.833	4.787	-0.746	-0.03	25.5084	0.00E+00
10/12/2019	8:18:56 AM	4.818	18.0507	35.3132	0.4919	4.76E-02	0.682	4.63E+04	7.8776	102.918	4.786	0.691	-0.03	25.4972	0.00E+00
10/12/2019	8:20:06 AM	4.974	18.0416	35.321	0.5034	4.76E-02	0.1163	4.63E+04	7.9504	103.916	4.995	-0.739	0	25.5082	0.00E+00
10/12/2019	8:18:56 AM	5.017	18.0448	35.3115	0.4912	4.76E-02	0.6773	4.63E+04	7.8681	102.801	4.998	0.702	0.05	25.4968	0.00E+00
10/12/2019	8:20:06 AM	5.155	18.0402	35.3206	0.5042	4.76E-02	0.1116	4.63E+04	7.9543	103.97	5.159	-0.739	0.01	25.5082	0.00E+00
10/12/2019	8:18:57 AM	5.219	18.0388	35.3112	0.4912	4.76E-02	0.682	4.63E+04	7.8533	102.61	5.201	0.726	0.09	25.4979	0.00E+00
10/12/2019	8:20:06 AM	5.338	18.039	35.3206	0.5301	4.76E-02	0.1396	4.63E+04	7.9567	104.003	5.327	-0.742	0.03	25.5085	0.00E+00
10/12/2019	8:18:57 AM	5.423	18.0331	35.3119	0.4927	4.76E-02	0.6804	4.63E+04	7.8456	102.511	5.406	0.756	0.12	25.4999	0.00E+00
10/12/2019	8:20:06 AM	5.523	18.0381	35.3211	0.5286	4.76E-02	0.1334	4.63E+04	7.9594	104.04	5.522	-0.749	0.08	25.5092	0.00E+00
10/12/2019	8:18:57 AM	5.631	18.0276	35.3129	0.611	4.76E-02	1.4932	4.63E+04	7.8452	102.504	5.602	0.782	0.11	25.5022	0.00E+00
10/12/2019	8:20:06 AM	5.709	18.0371	35.3218	0.5278	4.76E-02	0.1318	4.63E+04	7.9546	103.978	5.735	-0.769	0.12	25.5101	0.00E+00
10/12/2019	8:18:58 AM	5.843	18.0228	35.3138	0.6117	4.76E-02	1.4963	4.63E+04	7.8547	102.623	5.801	0.801	0.08	25.5043	0.00E+00
10/12/2019	8:20:05 AM	5.897	18.0359	35.3226	0.5278	4.76E-02	0.1318	4.63E+04	7.9517	103.942	5.926	-0.798	0.11	25.5112	0.00E+00
10/12/2019	8:18:58 AM	6.059	18.019	35.3151	0.6102	4.76E-02	1.4994	4.63E+04	7.857	102.651	6.027	0.817	0.06	25.5066	0.00E+00
10/12/2019	8:20:05 AM	6.085	18.0342	35.3232	0.5644	4.76E-02	0.1396	4.63E+04	7.95	103.919	6.108	-0.825	0.07	25.5122	0.00E+00
10/12/2019	8:20:05 AM	6.273	18.0322	35.3235	0.5614	4.76E-02	0.1318	4.63E+04	7.9475	103.886	6.264	-0.842	-0.02	25.5131	0.00E+00
10/12/2019	8:18:58 AM	6.278	18.0164	35.3171	0.611	4.76E-02	1.4963	4.63E+04	7.8631	102.729	6.27	0.833	0.07	25.5093	0.00E+00
10/12/2019	8:20:04 AM	6.464	18.0299	35.3239	0.5644	4.76E-02	0.1365	4.63E+04	7.9437	103.837	6.447	-0.837	-0.04	25.514	0.00E+00
10/12/2019	8:18:58 AM	6.501	18.0147	35.3192	0.7307	4.76E-02	2.0946	4.63E+04	7.8674	102.784	6.496	0.847	0.05	25.5119	0.00E+00
10/12/2019	8:20:04 AM	6.659	18.0275	35.3245	0.5637	4.76E-02	0.1365	4.63E+04	7.9393	103.774	6.626	-0.827	-0.08	25.5152	0.00E+00
10/12/2019	8:18:58 AM	6.726	18.0134	35.3207	0.7315	4.76E-02	2.0962	4.63E+04	7.8682	102.794	6.724	0.863	0.06	25.5137	0.00E+00
10/12/2019	8:20:04 AM	6.857	18.0248	35.3251	0.611	4.76E-02	0.1179	4.63E+04	7.9359	103.72	6.841	-0.808	-0.04	25.5165	0.00E+00
10/12/2019	8:18:59 AM	6.953	18.0124	35.3215	0.7315	4.76E-02	2.1024	4.63E+04	7.8708	102.825	6.958	0.883	0.08	25.5147	0.00E+00
10/12/2019	8:20:04 AM	7.059	18.0218	35.3254	0.6125	4.76E-02	0.121	4.63E+04	7.9386	103.743	7.067	-0.797	0	25.5176	0.00E+00
10/12/2019	8:18:59 AM	7.183	18.0119	35.3219	0.7307	4.76E-02	2.09	4.63E+04	7.8721	102.839	7.196	0.903	0.08	25.5153	0.00E+00
10/12/2019	8:20:04 AM	7.263	18.0186	35.3259	0.6125	4.76E-02	0.1179	4.63E+04	7.9423	103.782	7.304	-0.796	0.07	25.5188	0.00E+00
10/12/2019	8:18:59 AM	7.414	18.0122	35.3228	0.8009	4.76E-02	2.5515	4.63E+04	7.8732	102.845	7.431	0.921	0.07	25.5163	0.00E+00
10/12/2019	8:20:03 AM	7.467	18.0153	35.3261	0.6133	4.76E-02	0.1272	4.63E+04	7.9442	103.802	7.521	-0.813	0.09	25.5198	0.00E+00
10/12/2019	8:19:00 AM	7.647	18.0133	35.324	0.8025	4.76E-02	2.5531	4.63E+04	7.8817	102.95	7.666	0.932	0.04	25.5173	0.00E+00
10/12/2019	8:20:03 AM	7.67	18.0118	35.3258	0.6087	4.76E-02	0.1194	4.63E+04	7.9474	103.84	7.72	-0.836	0.09	25.5203	0.00E+00
10/12/2019	8:20:03 AM	7.873	18.0083	35.3253	0.6255	4.76E-02	0.1318	4.63E+04	7.9462	103.816	7.902	-0.859	0.11	25.5207	0.00E+00
10/12/2019	8:19:00 AM	7.881	18.0153	35.325	0.8048	4.76E-02	2.55	4.63E+04	7.8919	103.08	7.9	0.935	0.01	25.518	0.00E+00
10/12/2019	8:20:02 AM	8.077	18.0051	35.3249	0.6262	4.76E-02	0.1318	4.63E+04	7.949	103.847	8.074	-0.886	0.07	25.521	0.00E+00
10/12/2019	8:19:00 AM	8.117	18.0188	35.3262	0.8025	4.76E-02	2.5531	4.63E+04	7.9061	103.266	8.142	0.937	0.01	25.5187	0.00E+00
10/12/2019	8:20:02 AM	8.284	18.0022	35.3245	0.6255	4.76E-02	0.1318	4.63E+04	7.9525	103.888	8.282	-0.904	0.08	25.5213	0.00E+00
10/12/2019	8:19:00 AM	8.354	18.0242	35.3284	0.8009	4.76E-02	2.1646	4.63E+04	7.9171	103.401	8.391	0.946	0.03	25.5199	0.00E+00
10/12/2019	8:20:02 AM	8.494	17.9996	35.3242	0.6209	4.76E-02	0.1287	4.63E+04	7.956	103.932	8.479	-0.923	0.03	25.5216	0.00E+00
10/12/2019	8:19:01 AM	8.592	18.0308	35.3312	0.7925	4.76E-02	2.1724	4.63E+04	7.926	103.505	8.638	0.954	0.03	25.5211	0.00E+00
10/12/2019	8:20:02 AM	8.707	17.9974	35.3242	0.6834	4.76E-02	0.1241	4.63E+04	7.9515	103.871	8.707	-0.931	0.05	25.5221	0.00E+00
10/12/2019	8:19:01 AM	8.829	18.0371	35.3327	0.7903	4.76E-02	2.1646	4.63E+04	7.9302	103.545	8.881	0.961	0.03	25.521	0.00E+00
10/12/2019	8:20:02 AM	8.924	17.9953	35.3242	0.6827	4.76E-02	0.1225	4.63E+04	7.9482	103.824	8.927	-0.943	0.05	25.5225	0.00E+00
10/12/2019	8:19:01 AM	9.067	18.0422	35.3317	0.7887	4.76E-02	2.1615	4.63E+04	7.9406	103.671	9.113	0.963	0.01	25.5185	0.00E+00
10/12/2019	8:20:01 AM	9.143	17.9933	35.324	0.6827	4.76E-02	0.1179	4.63E+04	7.9446	103.776	9.161	-0.956	0.04	25.5228	0.00E+00
10/12/2019	8:19:01 AM	9.305	18.0457	35.3288	0.791	4.76E-02	2.1708	4.63E+04	7.9415	103.678	9.351	0.965	0.01	25.5147	0.00E+00
10/12/2019	8:20:01 AM	9.365	17.9914	35.3238	0.6865	4.76E-02	0.1148	4.63E+04	7.9407	103.725	9.378	-0.967	-0.01	25.523	0.00E+00
10/12/2019	8:19:01 AM	9.543	18.0477	35.3255	0.6148	4.76E-02	0.8281	4.63E+04	7.9459	103.733	9.582	0.963	-0.01	25.511	0.00E+00
10/12/2019	8:20:01 AM	9.589	17.9897	35.3238	0.6827	4.76E-02	0.1225	4.63E+04	7.9372	103.679	9.594	-0.964	-0.07	25.5234	0.00E+00
10/12/2019	8:19:02 AM	9.782	18.0485	35.3228	0.614	4.76E-02	0.8281	4.63E+04	7.9431	103.704	9.838	0.964	0	25.508	0.00E+00

10/12/2019	8:20:00 AM	9.816	17.9882	35.3239	0.6827	4.76E-02	0.121	4.63E+04	7.9311	103.598	9.848	-0.946	-0.07	25.5238	0.00E+00
10/12/2019	8:19:02 AM	10.02	18.0483	35.3206	0.6117	4.76E-02	0.8343	4.63E+04	7.9357	103.614	10.096	0.968	0.01	25.5059	0.00E+00
10/12/2019	8:20:00 AM	10.044	17.9867	35.3239	0.6819	4.76E-02	0.1194	4.63E+04	7.9318	103.603	10.087	-0.929	-0.09	25.5241	0.00E+00
10/12/2019	8:19:02 AM	10.257	18.0476	35.3191	0.6125	4.76E-02	0.8296	4.63E+04	7.9335	103.582	10.368	0.978	0.04	25.5045	0.00E+00
10/12/2019	8:20:00 AM	10.272	17.9852	35.3238	0.6873	4.76E-02	0.1179	4.63E+04	7.9316	103.595	10.338	-0.906	-0.06	25.5244	0.00E+00
10/12/2019	8:19:03 AM	10.491	18.0468	35.3184	0.5743	4.76E-02	1.0006	4.63E+04	7.9383	103.637	10.611	0.987	0.04	25.504	0.00E+00
10/12/2019	8:20:00 AM	10.501	17.9837	35.3239	0.7071	4.76E-02	0.1132	4.63E+04	7.9342	103.624	10.558	-0.89	-0.11	25.5249	0.00E+00
10/12/2019	8:19:03 AM	10.722	18.0458	35.3183	0.5743	4.76E-02	1.0021	4.63E+04	7.9398	103.651	10.845	0.993	0.02	25.5041	0.00E+00
10/12/2019	8:19:59 AM	10.729	17.9824	35.3241	0.7071	4.76E-02	0.1101	4.63E+04	7.9389	103.681	10.814	-0.863	-0.11	25.5254	0.00E+00
10/12/2019	8:19:03 AM	10.948	18.0447	35.3183	0.5751	4.76E-02	1.0052	4.63E+04	7.94	103.65	11.06	0.991	-0.01	25.5043	0.00E+00
10/12/2019	8:19:59 AM	10.956	17.9809	35.3243	0.7086	4.76E-02	0.1148	4.63E+04	7.9465	103.775	11.064	-0.836	-0.09	25.5259	0.00E+00
10/12/2019	8:19:03 AM	11.172	18.0434	35.3183	0.5766	4.76E-02	1.0006	4.63E+04	7.9422	103.677	11.281	0.979	-0.05	25.5045	0.00E+00
10/12/2019	8:19:59 AM	11.18	17.9794	35.3246	0.7117	4.76E-02	0.1194	4.63E+04	7.9558	103.891	11.3	-0.814	-0.02	25.5266	0.00E+00
10/12/2019	8:19:03 AM	11.392	18.0416	35.318	0.6094	4.76E-02	1.1964	4.63E+04	7.9448	103.708	11.505	0.962	-0.07	25.5046	0.00E+00
10/12/2019	8:19:59 AM	11.4	17.9778	35.3248	0.7071	4.76E-02	0.1163	4.63E+04	7.961	103.95	11.513	-0.81	0.03	25.5272	0.00E+00
10/12/2019	8:19:04 AM	11.61	18.0393	35.3174	0.6102	4.76E-02	1.2011	4.63E+04	7.9493	103.766	11.73	0.938	-0.09	25.5045	0.00E+00
10/12/2019	8:19:59 AM	11.618	17.9761	35.3248	0.7315	4.76E-02	0.1194	4.63E+04	7.9723	104.091	11.72	-0.817	0.03	25.5277	0.00E+00
10/12/2019	8:19:04 AM	11.824	18.0367	35.3169	0.6117	4.76E-02	1.2026	4.63E+04	7.953	103.813	11.938	0.912	-0.1	25.5046	0.00E+00
10/12/2019	8:19:58 AM	11.833	17.9743	35.3251	0.7323	4.76E-02	0.1163	4.63E+04	7.9805	104.191	11.934	-0.825	0.08	25.5283	0.00E+00
10/12/2019	8:19:04 AM	12.034	18.0341	35.3167	0.6102	4.76E-02	1.1948	4.63E+04	7.9544	103.827	12.151	0.888	-0.09	25.5049	0.00E+00
10/12/2019	8:19:58 AM	12.046	17.9725	35.3258	0.7323	4.76E-02	0.121	4.63E+04	7.986	104.253	12.137	-0.846	0.06	25.5294	0.00E+00
10/12/2019	8:19:05 AM	12.242	18.0315	35.317	0.6125	4.76E-02	1.0705	4.63E+04	7.9566	103.84	12.374	0.878	-0.04	25.5058	0.00E+00
10/12/2019	8:19:58 AM	12.257	17.9706	35.3268	0.7285	4.76E-02	0.1132	4.63E+04	7.9899	104.299	12.366	-0.862	0.05	25.5309	0.00E+00
10/12/2019	8:19:05 AM	12.445	18.0286	35.3173	0.6957	4.76E-02	1.0565	4.63E+04	7.9613	103.875	12.605	0.877	0	25.5067	0.00E+00
10/12/2019	8:19:57 AM	12.467	17.9682	35.328	0.7208	4.76E-02	0.1303	4.62E+04	7.9886	104.277	12.55	-0.875	-0.02	25.5327	0.00E+00
10/12/2019	8:19:05 AM	12.643	18.0247	35.3164	0.6949	4.76E-02	1.0472	4.63E+04	7.964	103.889	12.8	0.873	-0.02	25.5067	0.00E+00
10/12/2019	8:19:57 AM	12.675	17.9654	35.3293	0.7208	4.76E-02	0.1303	4.62E+04	7.9841	104.214	12.73	-0.87	-0.04	25.5347	0.00E+00
10/12/2019	8:19:05 AM	12.836	18.0202	35.3148	0.6949	4.76E-02	1.0519	4.63E+04	7.9638	103.854	12.986	0.859	-0.05	25.5061	0.00E+00
10/12/2019	8:19:57 AM	12.885	17.9621	35.3302	0.7208	4.76E-02	0.135	4.62E+04	7.978	104.13	12.917	-0.861	-0.09	25.5364	0.00E+00
10/12/2019	8:19:05 AM	13.024	18.0161	35.3141	0.6949	4.76E-02	1.0519	4.63E+04	7.9689	103.882	13.168	0.84	-0.08	25.5066	0.00E+00
10/12/2019	8:19:57 AM	13.096	17.9582	35.3306	0.7208	4.76E-02	0.1303	4.62E+04	7.9744	104.081	13.15	-0.838	-0.08	25.5377	0.00E+00
10/12/2019	8:19:06 AM	13.208	18.0129	35.3152	0.6262	4.76E-02	0.6804	4.63E+04	7.9671	103.814	13.334	0.813	-0.11	25.5085	0.00E+00
10/12/2019	8:19:57 AM	13.308	17.9541	35.3309	0.7674	4.76E-02	0.1194	4.62E+04	7.9703	104.022	13.389	-0.819	-0.07	25.5389	0.00E+00
10/12/2019	8:19:06 AM	13.388	18.0109	35.3173	0.6255	4.76E-02	0.6835	4.63E+04	7.9634	103.743	13.497	0.784	-0.12	25.5112	0.00E+00
10/12/2019	8:19:56 AM	13.521	17.95	35.3318	0.7689	4.76E-02	0.1163	4.62E+04	7.9621	103.911	13.606	-0.802	-0.03	25.5406	0.00E+00
10/12/2019	8:19:06 AM	13.566	18.01	35.3196	0.6232	4.76E-02	0.6835	4.63E+04	7.9557	103.642	13.674	0.752	-0.12	25.5137	0.00E+00
10/12/2019	8:19:56 AM	13.732	17.9459	35.3331	0.7674	4.76E-02	0.1163	4.62E+04	7.9562	103.833	13.853	-0.794	0.02	25.5427	0.00E+00
10/12/2019	8:19:06 AM	13.743	18.0097	35.3218	0.6262	4.76E-02	0.6804	4.63E+04	7.9512	103.59	13.832	0.719	-0.14	25.5159	0.00E+00
10/12/2019	8:19:07 AM	13.918	18.0092	35.3231	0.6506	4.76E-02	0.4038	4.63E+04	7.9405	103.47	13.983	0.687	-0.12	25.5171	0.00E+00
10/12/2019	8:19:56 AM	13.941	17.9416	35.3343	0.7697	4.76E-02	0.1132	4.62E+04	7.9526	103.782	14.063	-0.799	0.06	25.5448	0.00E+00
10/12/2019	8:19:07 AM	14.094	18.0077	35.3225	0.6461	4.76E-02	0.4023	4.63E+04	7.9341	103.39	14.161	0.674	-0.05	25.5167	0.00E+00
10/12/2019	8:19:55 AM	14.147	17.9371	35.3354	0.8864	4.76E-02	0.1179	4.62E+04	7.9518	103.77	14.249	-0.815	0.06	25.5469	0.00E+00
10/12/2019	8:19:07 AM	14.271	18.0057	35.3209	0.6453	4.76E-02	0.4116	4.63E+04	7.9312	103.328	14.347	0.671	-0.01	25.5156	0.00E+00
10/12/2019	8:19:55 AM	14.352	17.9323	35.3363	0.8864	4.76E-02	0.1148	4.62E+04	7.9521	103.77	14.422	-0.83	0.06	25.5488	0.00E+00
10/12/2019	8:19:08 AM	14.448	18.0037	35.3201	0.6491	4.76E-02	0.4069	4.63E+04	7.9303	103.288	14.514	0.671	0	25.5154	0.00E+00
10/12/2019	8:19:55 AM	14.557	17.9273	35.3369	0.8879	4.76E-02	0.1148	4.62E+04	7.9544	103.798	14.646	-0.844	0.08	25.5503	0.00E+00
10/12/2019	8:19:08 AM	14.626	18.0017	35.3203	0.6484	4.76E-02	0.2282	4.63E+04	7.9328	103.281	14.687	0.676	0.02	25.516	0.00E+00
10/12/2019	8:19:55 AM	14.762	17.9225	35.3371	0.8872	4.76E-02	0.1163	4.62E+04	7.9587	103.852	14.842	-0.865	0.05	25.5515	0.00E+00
10/12/2019	8:19:08 AM	14.805	17.9998	35.3208	0.6476	4.76E-02	0.2344	4.63E+04	7.9375	103.309	14.866	0.683	0.03	25.5169	0.00E+00
10/12/2019	8:19:55 AM	14.967	17.918	35.3371	0.8879	4.76E-02	0.1163	4.62E+04	7.9602	103.869	15.046	-0.879	0.03	25.5524	0.00E+00
10/12/2019	8:19:08 AM	14.985	17.9975	35.3209	0.6499	4.76E-02	0.2298	4.63E+04	7.9434	103.332	15.051	0.692	0.03	25.5175	0.00E+00

10/12/2019	8:19:08 AM	15.166	17.9944	35.3205	0.6506	4.76E-02	0.2266	4.63E+04	7.9484	103.352	15.243	0.707	0.06	25.5176	0.00E+00
10/12/2019	8:19:54 AM	15.173	17.9139	35.3369	0.9009	4.76E-02	0.1163	4.62E+04	7.9609	103.874	15.23	-0.885	-0.04	25.5529	0.00E+00
10/12/2019	8:19:09 AM	15.348	17.99	35.3196	0.6461	4.76E-02	0.1893	4.63E+04	7.953	103.319	15.435	0.721	0.06	25.5175	0.00E+00
10/12/2019	8:19:54 AM	15.38	17.9105	35.3364	0.9009	4.76E-02	0.121	4.62E+04	7.9593	103.851	15.452	-0.875	-0.06	25.5532	0.00E+00
10/12/2019	8:19:09 AM	15.53	17.9835	35.3178	0.6728	4.76E-02	0.1365	4.63E+04	7.9587	103.298	15.617	0.727	0.02	25.5169	0.00E+00
10/12/2019	8:19:54 AM	15.588	17.9075	35.3357	0.9024	4.76E-02	0.1194	4.62E+04	7.9584	103.836	15.654	-0.861	-0.1	25.5531	0.00E+00
10/12/2019	8:19:09 AM	15.711	17.9744	35.3149	0.6712	4.76E-02	0.1318	4.63E+04	7.9575	103.195	15.783	0.728	0	25.5158	0.00E+00
10/12/2019	8:19:54 AM	15.796	17.9051	35.3349	0.8978	4.76E-02	0.1179	4.62E+04	7.9565	103.808	15.881	-0.835	-0.11	25.5529	0.00E+00
10/12/2019	8:19:10 AM	15.894	17.9635	35.3115	0.6735	4.76E-02	0.1256	4.63E+04	7.9482	103.012	15.953	0.729	0	25.5148	0.00E+00
10/12/2019	8:19:53 AM	16.005	17.9031	35.3341	0.8681	4.76E-02	0.1318	4.62E+04	7.9554	103.791	16.1	-0.808	-0.17	25.5525	0.00E+00
10/12/2019	8:19:10 AM	16.079	17.9512	35.3092	0.6697	4.76E-02	0.1318	4.62E+04	7.9447	102.94	16.142	0.728	0	25.5152	0.00E+00
10/12/2019	8:19:53 AM	16.213	17.9016	35.333	0.8643	4.76E-02	0.1365	4.62E+04	7.9529	103.755	16.344	-0.766	-0.2	25.5518	0.00E+00
10/12/2019	8:19:10 AM	16.265	17.9373	35.3076	0.685	4.76E-02	0.1334	4.62E+04	7.9408	102.867	16.327	0.726	-0.01	25.5167	0.00E+00
10/12/2019	8:19:53 AM	16.419	17.9006	35.3317	0.8612	4.76E-02	0.1396	4.62E+04	7.9494	103.706	16.571	-0.717	-0.17	25.5507	0.00E+00
10/12/2019	8:19:10 AM	16.453	17.9228	35.3059	0.6827	4.76E-02	0.1334	4.62E+04	7.9404	102.852	16.498	0.719	-0.03	25.5184	0.00E+00
10/12/2019	8:19:52 AM	16.622	17.9002	35.3305	0.8643	4.76E-02	0.135	4.62E+04	7.9494	103.7	16.777	-0.674	-0.06	25.5497	0.00E+00
10/12/2019	8:19:10 AM	16.644	17.9106	35.3071	0.6827	4.76E-02	0.1334	4.62E+04	7.9487	102.889	16.675	0.713	-0.02	25.5228	0.00E+00
10/12/2019	8:19:52 AM	16.82	17.9003	35.3295	0.8536	4.76E-02	0.1334	4.62E+04	7.9565	103.785	16.982	-0.658	0.02	25.5487	0.00E+00
10/12/2019	8:19:11 AM	16.838	17.9025	35.3135	0.6827	4.76E-02	0.135	4.62E+04	7.9579	102.916	16.874	0.716	0.01	25.5313	0.00E+00
10/12/2019	8:19:52 AM	17.015	17.9009	35.3287	0.8521	4.76E-02	0.1287	4.62E+04	7.9614	103.839	17.171	-0.663	0.04	25.5479	0.00E+00
10/12/2019	8:19:11 AM	17.036	17.8981	35.322	0.8292	4.76E-02	0.2064	4.62E+04	7.9617	102.877	17.083	0.729	0.05	25.5408	0.00E+00
10/12/2019	8:19:52 AM	17.205	17.9016	35.3287	0.8528	4.76E-02	0.1303	4.62E+04	7.9714	103.96	17.365	-0.674	0.09	25.5479	0.00E+00
10/12/2019	8:19:11 AM	17.236	17.8952	35.3283	0.8254	4.76E-02	0.208	4.62E+04	7.9624	102.784	17.289	0.749	0.08	25.5476	0.00E+00
10/12/2019	8:19:52 AM	17.392	17.9024	35.3299	0.8536	4.76E-02	0.1334	4.62E+04	7.9835	104.11	17.546	-0.696	0.09	25.549	0.00E+00
10/12/2019	8:19:12 AM	17.44	17.8915	35.3305	0.8269	4.76E-02	0.2049	4.62E+04	7.9627	102.698	17.494	0.766	0.07	25.5504	0.00E+00
10/12/2019	8:19:51 AM	17.574	17.9026	35.3322	0.7903	4.76E-02	0.1272	4.62E+04	7.9925	104.222	17.734	-0.719	0.14	25.5514	0.00E+00
10/12/2019	8:19:12 AM	17.646	17.8841	35.3283	0.8276	4.76E-02	0.208	4.62E+04	7.9626	102.531	17.7	0.781	0.06	25.5494	0.00E+00
10/12/2019	8:19:51 AM	17.754	17.9016	35.3351	0.7895	4.76E-02	0.1365	4.62E+04	7.996	104.261	17.866	-0.754	0.09	25.5547	0.00E+00
10/12/2019	8:19:12 AM	17.854	17.872	35.3215	0.8162	4.76E-02	0.351	4.62E+04	7.9615	102.377	17.922	0.802	0.08	25.5451	0.00E+00
10/12/2019	8:19:51 AM	17.933	17.8991	35.3386	0.7903	4.76E-02	0.1303	4.62E+04	7.9915	104.191	17.974	-0.777	0.04	25.5591	0.00E+00
10/12/2019	8:19:12 AM	18.065	17.8559	35.3138	0.8154	4.76E-02	0.3572	4.62E+04	7.9524	102.132	18.152	0.828	0.1	25.541	0.00E+00
10/12/2019	8:19:50 AM	18.116	17.8945	35.3434	0.7933	4.76E-02	0.135	4.62E+04	7.9882	104.139	18.12	-0.788	0.01	25.5654	0.00E+00
10/12/2019	8:19:12 AM	18.276	17.8364	35.3083	0.8147	4.76E-02	0.3634	4.61E+04	7.9485	101.969	18.379	0.849	0.08	25.5397	0.00E+00
10/12/2019	8:19:50 AM	18.303	17.8876	35.35	0.7887	4.76E-02	0.1396	4.62E+04	7.9853	104.088	18.352	-0.792	0.11	25.574	0.00E+00
10/12/2019	8:19:13 AM	18.488	17.8133	35.3034	0.8193	4.76E-02	0.351	4.61E+04	7.9454	101.818	18.596	0.862	0.05	25.5399	0.00E+00
10/12/2019	8:19:50 AM	18.494	17.8774	35.3575	0.8246	4.76E-02	0.1536	4.62E+04	7.9847	104.073	18.571	-0.818	0.14	25.5843	0.00E+00
10/12/2019	8:19:50 AM	18.686	17.863	35.3663	0.8322	4.76E-02	0.1567	4.62E+04	7.9791	103.989	18.749	-0.853	0.09	25.5969	0.00E+00
10/12/2019	8:19:13 AM	18.7	17.7863	35.2977	0.8154	4.76E-02	0.3448	4.61E+04	7.9416	101.658	18.794	0.866	0.02	25.5404	0.00E+00
10/12/2019	8:19:50 AM	18.882	17.8443	35.3788	0.8292	4.76E-02	0.1552	4.61E+04	7.9774	103.963	18.947	-0.876	0.09	25.6142	0.00E+00
10/12/2019	8:19:13 AM	18.912	17.7551	35.2915	0.9451	4.76E-02	0.3075	4.61E+04	7.9332	101.451	18.985	0.862	-0.01	25.5413	0.00E+00
10/12/2019	8:19:49 AM	19.08	17.8203	35.395	0.8269	4.76E-02	0.1552	4.61E+04	7.9822	104.019	19.12	-0.898	0.02	25.6362	0.00E+00
10/12/2019	8:19:13 AM	19.126	17.72	35.2842	0.9459	4.76E-02	0.3121	4.60E+04	7.9268	101.284	19.186	0.854	-0.03	25.5423	0.00E+00
10/12/2019	8:19:49 AM	19.281	17.7892	35.4106	1.2122	4.76E-02	0.2733	4.61E+04	7.9847	104.046	19.322	-0.903	0.02	25.6598	0.00E+00
10/12/2019	8:19:14 AM	19.343	17.6839	35.2774	0.9436	4.76E-02	0.3059	4.60E+04	7.9185	101.112	19.396	0.844	-0.04	25.5448	0.00E+00
10/12/2019	8:19:49 AM	19.488	17.7495	35.4227	1.2099	4.76E-02	0.2841	4.60E+04	7.9881	104.085	19.506	-0.908	-0.01	25.6821	0.00E+00
10/12/2019	8:19:14 AM	19.563	17.6505	35.277	0.9421	4.76E-02	0.3043	4.59E+04	7.9177	101.046	19.616	0.834	-0.04	25.553	0.00E+00
10/12/2019	8:19:48 AM	19.699	17.702	35.4307	1.2129	4.76E-02	0.2841	4.60E+04	7.9844	104.035	19.74	-0.905	-0.02	25.7018	0.00E+00
10/12/2019	8:19:14 AM	19.787	17.622	35.2843	1.1015	4.76E-02	0.3758	4.59E+04	7.9218	101.038	19.841	0.83	-0.01	25.5675	0.00E+00
10/12/2019	8:19:48 AM	19.915	17.6489	35.4326	1.2091	4.76E-02	0.281	4.59E+04	7.9816	103.994	19.971	-0.899	0.02	25.7169	0.00E+00
10/12/2019	8:19:15 AM	20.014	17.5971	35.2942	1.1023	4.76E-02	0.3727	4.59E+04	7.9232	101.004	20.081	0.84	0.04	25.5832	0.00E+00
10/12/2019	8:19:48 AM	20.133	17.593	35.4314	1.5181	4.76E-02	0.3043	4.59E+04	7.9802	103.975	20.229	-0.903	0.07	25.7291	0.00E+00

10/12/2019	8:19:15 AM	20.244	17.5725	35.3007	1.1023	4.76E-02	0.3774	4.59E+04	7.9186	100.902	20.328	0.862	0.09	25.5952	0.00E+00
10/12/2019	8:19:48 AM	20.353	17.5373	35.4312	1.5174	4.76E-02	0.3075	4.58E+04	7.9758	103.917	20.455	-0.919	0.08	25.7418	0.00E+00
10/12/2019	8:19:15 AM	20.476	17.5437	35.3002	1.1008	4.76E-02	0.3836	4.59E+04	7.9153	100.823	20.573	0.892	0.12	25.6008	0.00E+00
10/12/2019	8:19:48 AM	20.575	17.4832	35.4325	1.5158	4.76E-02	0.3043	4.58E+04	7.97	103.844	20.661	-0.94	0.04	25.7556	0.00E+00
10/12/2019	8:19:15 AM	20.708	17.5074	35.2913	1.3861	4.76E-02	0.452	4.58E+04	7.9089	100.71	20.814	0.921	0.11	25.6	0.00E+00
10/12/2019	8:19:47 AM	20.797	17.4303	35.4371	1.5196	4.76E-02	0.3012	4.57E+04	7.966	103.794	20.887	-0.949	0.02	25.7723	0.00E+00
10/12/2019	8:19:15 AM	20.942	17.4644	35.2774	1.3861	4.76E-02	0.4551	4.58E+04	7.9026	100.603	21.053	0.942	0.08	25.5964	0.00E+00
10/12/2019	8:19:47 AM	21.022	17.3773	35.4458	1.9858	4.76E-02	0.3821	4.57E+04	7.9678	103.82	21.091	-0.953	0.01	25.7932	0.00E+00
10/12/2019	8:19:16 AM	21.175	17.4166	35.2663	1.3823	4.76E-02	0.4582	4.57E+04	7.8786	100.271	21.298	0.957	0.06	25.5966	0.00E+00
10/12/2019	8:19:47 AM	21.249	17.3224	35.4576	1.9858	4.76E-02	0.3821	4.56E+04	7.967	103.814	21.332	-0.954	0.01	25.8179	0.00E+00
10/12/2019	8:19:16 AM	21.408	17.3642	35.2597	1.3854	4.76E-02	0.4535	4.57E+04	7.8602	100.008	21.542	0.967	0.04	25.6019	0.00E+00
10/12/2019	8:19:47 AM	21.479	17.2634	35.4706	1.985	4.76E-02	0.3743	4.56E+04	7.9669	103.817	21.573	-0.956	0.03	25.8448	0.00E+00
10/12/2019	8:19:16 AM	21.641	17.3061	35.2523	1.5456	4.76E-02	0.6804	4.56E+04	7.8319	99.616	21.787	0.973	0.02	25.6078	0.00E+00
10/12/2019	8:19:46 AM	21.71	17.1986	35.4815	1.9889	4.76E-02	0.3789	4.55E+04	7.9679	103.829	21.787	-0.965	0.03	25.8712	0.00E+00
10/12/2019	8:19:17 AM	21.871	17.2434	35.2428	1.5395	4.76E-02	0.6758	4.56E+04	7.8162	99.391	22.034	0.974	0.01	25.6132	0.00E+00
10/12/2019	8:19:46 AM	21.944	17.1278	35.4862	1.9889	4.76E-02	0.3852	4.54E+04	7.9714	103.872	22.049	-0.972	0.04	25.8928	0.00E+00
10/12/2019	8:19:17 AM	22.099	17.1803	35.2361	1.5418	4.76E-02	0.682	4.55E+04	7.7948	99.099	22.27	0.972	-0.01	25.6221	0.00E+00
10/12/2019	8:19:46 AM	22.179	17.0526	35.4798	2.4527	4.76E-02	0.3339	4.54E+04	7.9758	103.923	22.291	-0.982	0.03	25.9047	0.00E+00
10/12/2019	8:19:17 AM	22.325	17.12	35.2384	1.5456	4.76E-02	0.6758	4.54E+04	7.7719	98.788	22.493	0.966	-0.02	25.6389	0.00E+00
10/12/2019	8:19:45 AM	22.414	16.977	35.4655	2.4527	4.76E-02	0.3323	4.53E+04	7.9856	104.039	22.539	-0.99	0	25.9085	0.00E+00
10/12/2019	8:19:17 AM	22.548	17.0627	35.2465	1.541	4.76E-02	0.6789	4.54E+04	7.7529	98.517	22.709	0.956	-0.04	25.6603	0.00E+00
10/12/2019	8:19:45 AM	22.65	16.9063	35.45	2.4527	4.76E-02	0.3323	4.52E+04	7.9904	104.081	22.76	-0.99	-0.05	25.9091	0.00E+00
10/12/2019	8:19:17 AM	22.769	17.008	35.2533	1.7439	4.76E-02	0.2562	4.53E+04	7.7307	98.189	22.92	0.939	-0.07	25.68	0.00E+00
10/12/2019	8:19:45 AM	22.887	16.8444	35.4356	2.452	4.76E-02	0.3385	4.52E+04	8.0039	104.232	22.984	-0.978	-0.07	25.9085	0.00E+00
10/12/2019	8:19:18 AM	22.988	16.957	35.2596	1.7485	4.76E-02	0.2531	4.53E+04	7.7069	97.838	23.126	0.917	-0.09	25.6985	0.00E+00
10/12/2019	8:19:45 AM	23.125	16.7919	35.4233	2.5115	4.76E-02	0.2546	4.51E+04	8.0067	104.229	23.243	-0.962	-0.05	25.9078	0.00E+00
10/12/2019	8:19:18 AM	23.206	16.9108	35.268	1.7439	4.76E-02	0.2546	4.52E+04	7.6791	97.433	23.336	0.893	-0.09	25.718	0.00E+00
10/12/2019	8:19:45 AM	23.365	16.7478	35.4131	2.5145	4.76E-02	0.2593	4.51E+04	8.016	104.32	23.482	-0.95	-0.06	25.9073	0.00E+00
10/12/2019	8:19:18 AM	23.425	16.8698	35.278	1.7455	4.76E-02	0.25	4.52E+04	7.6536	97.053	23.554	0.874	-0.08	25.7378	0.00E+00
10/12/2019	8:19:44 AM	23.605	16.7108	35.4055	2.5115	4.76E-02	0.2577	4.50E+04	8.02	104.302	23.743	-0.935	-0.01	25.9078	0.00E+00
10/12/2019	8:19:19 AM	23.643	16.8337	35.2886	2.1842	4.76E-02	0.309	4.51E+04	7.6198	96.565	23.772	0.861	-0.05	25.7569	0.00E+00
10/12/2019	8:19:44 AM	23.845	16.6796	35.4014	2.5145	4.76E-02	0.2562	4.50E+04	8.0298	104.344	24.012	-0.933	0.03	25.9104	0.00E+00
10/12/2019	8:19:19 AM	23.862	16.8016	35.2986	2.1804	4.76E-02	0.2997	4.51E+04	7.5792	95.992	23.987	0.854	-0.03	25.7744	0.00E+00
10/12/2019	8:19:19 AM	24.081	16.7726	35.3064	2.1788	4.76E-02	0.3043	4.51E+04	7.5352	95.366	24.199	0.853	-0.01	25.789	0.00E+00
10/12/2019	8:19:44 AM	24.083	16.6527	35.4	2.5145	4.76E-02	0.18	4.50E+04	8.0382	104.316	24.254	-0.941	0.03	25.9149	0.00E+00
10/12/2019	8:19:19 AM	24.302	16.7468	35.3126	2.1811	4.76E-02	0.3137	4.51E+04	7.4811	94.617	24.423	0.857	0.02	25.8013	0.00E+00
10/12/2019	8:19:43 AM	24.318	16.6283	35.4009	2.5107	4.76E-02	0.1847	4.49E+04	8.0441	104.287	24.491	-0.949	0.03	25.9212	0.00E+00
10/12/2019	8:19:19 AM	24.523	16.7241	35.3191	2.4756	4.76E-02	0.1614	4.50E+04	7.427	93.872	24.646	0.864	0.03	25.8132	0.00E+00
10/12/2019	8:19:43 AM	24.552	16.6047	35.4028	2.5107	4.76E-02	0.18	4.49E+04	8.0518	104.241	24.704	-0.956	-0.05	25.9285	0.00E+00
10/12/2019	8:19:20 AM	24.745	16.7042	35.3257	2.4771	4.76E-02	0.1629	4.50E+04	7.3698	93.078	24.871	0.872	0.03	25.8244	0.00E+00
10/12/2019	8:19:43 AM	24.785	16.5808	35.4056	2.5115	4.76E-02	0.1769	4.49E+04	8.0467	104.062	24.924	-0.944	-0.12	25.9368	0.00E+00
10/12/2019	8:19:20 AM	24.968	16.6865	35.3312	2.4756	4.76E-02	0.1583	4.50E+04	7.3085	92.195	25.098	0.879	0.03	25.8339	0.00E+00
10/12/2019	8:19:43 AM	25.017	16.556	35.4099	2.204	4.76E-02	0.1132	4.49E+04	8.0502	104.024	25.168	-0.913	-0.14	25.9468	0.00E+00
10/12/2019	8:19:20 AM	25.191	16.6701	35.3351	2.4787	4.76E-02	0.1583	4.50E+04	7.2471	91.287	25.328	0.886	0.03	25.8416	0.00E+00
10/12/2019	8:19:43 AM	25.249	16.5296	35.4144	2.2063	4.76E-02	0.1194	4.49E+04	8.0375	103.753	25.406	-0.878	-0.15	25.9575	0.00E+00
10/12/2019	8:19:20 AM	25.415	16.6545	35.3376	2.4894	4.76E-02	0.1536	4.50E+04	7.1868	90.384	25.552	0.893	0.03	25.8477	0.00E+00
10/12/2019	8:19:42 AM	25.48	16.5012	35.4188	2.201	4.76E-02	0.1163	4.48E+04	8.0219	103.469	25.638	-0.84	-0.12	25.9685	0.00E+00
10/12/2019	8:19:21 AM	25.639	16.639	35.3386	2.4901	4.76E-02	0.1552	4.50E+04	7.1247	89.485	25.778	0.899	0.03	25.8523	0.00E+00
10/12/2019	8:19:42 AM	25.709	16.4705	35.4229	2.2063	4.76E-02	0.1179	4.48E+04	7.9962	103.048	25.899	-0.81	-0.05	25.9796	0.00E+00
10/12/2019	8:19:21 AM	25.864	16.6238	35.3388	2.4924	4.76E-02	0.1598	4.50E+04	7.0616	88.605	26.01	0.905	0.02	25.8562	0.00E+00
10/12/2019	8:19:42 AM	25.935	16.4378	35.4251	2.2063	4.76E-02	0.1241	4.48E+04	7.9745	102.644	26.138	-0.796	-0.01	25.9896	0.00E+00

10/12/2019	8:19:21 AM	26.088	16.609	35.3394	2.4924	4.76E-02	0.1598	4.49E+04	6.9902	87.64	26.238	0.908	0.01	25.8603	0.00E+00
10/12/2019	8:19:41 AM	26.159	16.4033	35.4249	2.1056	4.76E-02	0.1365	4.47E+04	7.9443	102.138	26.369	-0.793	0.06	25.9976	0.00E+00
10/12/2019	8:19:22 AM	26.312	16.5938	35.34	2.4878	4.76E-02	0.1583	4.49E+04	6.9133	86.609	26.464	0.91	0.01	25.8643	0.00E+00
10/12/2019	8:19:41 AM	26.378	16.3678	35.4237	2.1102	4.76E-02	0.1303	4.47E+04	7.9134	101.56	26.597	-0.81	0.11	26.0047	0.00E+00
10/12/2019	8:19:22 AM	26.536	16.577	35.3392	2.5595	4.76E-02	0.1567	4.49E+04	6.8205	85.383	26.684	0.908	-0.01	25.8672	0.00E+00
10/12/2019	8:19:41 AM	26.593	16.3326	35.4244	2.1094	4.76E-02	0.1381	4.47E+04	7.8844	101.035	26.784	-0.837	0.11	26.0133	0.00E+00
10/12/2019	8:19:22 AM	26.76	16.5572	35.3358	2.5626	4.76E-02	0.1583	4.49E+04	6.7167	84.02	26.903	0.905	-0.01	25.8682	0.00E+00
10/12/2019	8:19:41 AM	26.806	16.2983	35.43	2.1056	4.76E-02	0.1334	4.46E+04	7.8637	100.566	26.962	-0.865	0.12	26.0264	0.00E+00
10/12/2019	8:19:22 AM	26.984	16.5342	35.3301	2.5611	4.76E-02	0.1583	4.49E+04	6.6123	82.653	27.133	0.903	-0.01	25.8677	0.00E+00
10/12/2019	8:19:41 AM	27.018	16.2634	35.4381	1.7699	4.76E-02	0.1163	4.46E+04	7.8337	100.04	27.146	-0.895	0.09	26.0422	0.00E+00
10/12/2019	8:19:22 AM	27.208	16.5083	35.324	2.5603	4.76E-02	0.1567	4.48E+04	6.5101	81.304	27.362	0.903	0	25.8677	0.00E+00
10/12/2019	8:19:40 AM	27.231	16.2256	35.4433	1.7714	4.76E-02	0.1179	4.46E+04	7.8039	99.56	27.335	-0.916	0.07	26.0563	0.00E+00
10/12/2019	8:19:23 AM	27.432	16.48	35.3193	2.4672	4.76E-02	0.1365	4.48E+04	6.4233	80.14	27.595	0.904	0	25.8694	0.00E+00
10/12/2019	8:19:40 AM	27.447	16.1841	35.4462	1.7676	4.76E-02	0.1194	4.45E+04	7.7672	98.997	27.557	-0.933	0.07	26.0692	0.00E+00
10/12/2019	8:19:23 AM	27.655	16.4496	35.3156	2.468	4.76E-02	0.1365	4.48E+04	6.3503	79.114	27.827	0.906	0.01	25.8726	0.00E+00
10/12/2019	8:19:40 AM	27.666	16.1401	35.4503	1.7707	4.76E-02	0.1148	4.45E+04	7.7148	98.272	27.774	-0.951	0.03	26.0834	0.00E+00
10/12/2019	8:19:23 AM	27.878	16.4172	35.3122	2.4649	4.76E-02	0.1318	4.47E+04	6.2963	78.343	28.047	0.907	0.01	25.8766	0.00E+00
10/12/2019	8:19:40 AM	27.888	16.0943	35.454	1.1656	4.76E-02	0.0899	4.44E+04	7.6751	97.704	27.982	-0.959	0.03	26.0976	0.00E+00
10/12/2019	8:19:24 AM	28.099	16.3824	35.3089	2.4649	4.76E-02	0.1334	4.47E+04	6.2509	77.705	28.264	0.907	0	25.8812	0.00E+00
10/12/2019	8:19:39 AM	28.113	16.0463	35.4564	1.1656	4.76E-02	0.0961	4.44E+04	7.6219	96.986	28.226	-0.968	0.06	26.1109	0.00E+00
10/12/2019	8:19:24 AM	28.321	16.3452	35.3051	2.0232	4.76E-02	0.1365	4.47E+04	6.2192	77.266	28.476	0.903	-0.01	25.8858	0.00E+00
10/12/2019	8:19:39 AM	28.341	15.9967	35.4545	1.1611	4.76E-02	0.0961	4.43E+04	7.5611	96.183	28.446	-0.983	0.04	26.1205	0.00E+00
10/12/2019	8:19:24 AM	28.542	16.3055	35.3008	2.0247	4.76E-02	0.1287	4.46E+04	6.1859	76.827	28.682	0.893	-0.04	25.8907	0.00E+00
10/12/2019	8:19:39 AM	28.573	15.9468	35.4464	1.1611	4.76E-02	0.0868	4.43E+04	7.505	95.43	28.679	-0.993	0.04	26.1242	0.00E+00
10/12/2019	8:19:24 AM	28.765	16.262	35.2962	2.0194	4.76E-02	0.1318	4.46E+04	6.1439	76.289	28.893	0.88	-0.05	25.8958	0.00E+00
10/12/2019	8:19:38 AM	28.807	15.8988	35.4374	0.8749	4.76E-02	0.0899	4.42E+04	7.4492	94.686	28.935	-1.003	0.03	26.1263	0.00E+00
10/12/2019	8:19:24 AM	28.989	16.2124	35.2886	2.0217	4.76E-02	0.1365	4.45E+04	6.0897	75.609	29.122	0.872	-0.03	25.8991	0.00E+00
10/12/2019	8:19:38 AM	29.044	15.8551	35.4318	0.8757	4.76E-02	0.0899	4.42E+04	7.3949	93.958	29.17	-1.011	0	26.1304	0.00E+00
10/12/2019	8:19:25 AM	29.216	16.1556	35.2759	1.834	4.76E-02	0.1318	4.45E+04	6.0082	74.592	29.357	0.87	-0.01	25.8994	0.00E+00
10/12/2019	8:19:38 AM	29.283	15.8156	35.4302	0.8765	4.76E-02	0.0883	4.41E+04	7.3451	93.278	29.42	-1.011	0.03	26.1376	0.00E+00
10/12/2019	8:19:25 AM	29.444	16.0943	35.2621	1.8302	4.76E-02	0.1287	4.44E+04	5.9556	73.935	29.591	0.874	0.02	25.9003	0.00E+00
10/12/2019	8:19:38 AM	29.524	15.7786	35.4311	0.8772	4.76E-02	0.0868	4.41E+04	7.2959	92.612	29.667	-1.017	0.03	26.1467	0.00E+00
10/12/2019	8:19:25 AM	29.673	16.0332	35.2545	1.8302	4.76E-02	0.1303	4.44E+04	5.8951	73.18	29.818	0.884	0.04	25.9075	0.00E+00
10/12/2019	8:19:38 AM	29.766	15.7419	35.4317	0.878	4.76E-02	0.0961	4.41E+04	7.2506	91.984	29.89	-1.024	-0.01	26.1558	0.00E+00
10/12/2019	8:19:26 AM	29.903	15.9766	35.2564	1.8317	4.76E-02	0.135	4.43E+04	5.8416	72.514	30.053	0.897	0.05	25.9231	0.00E+00
10/12/2019	8:19:37 AM	30.011	15.7047	35.4311	0.791	4.76E-02	0.0681	4.40E+04	7.1879	91.127	30.157	-1.022	-0.01	26.1639	0.00E+00
10/12/2019	8:19:26 AM	30.134	15.9259	35.2658	1.8309	4.76E-02	0.135	4.42E+04	5.804	72.048	30.288	0.912	0.06	25.9444	0.00E+00
10/12/2019	8:19:37 AM	30.257	15.6668	35.4273	0.7895	4.76E-02	0.0666	4.40E+04	7.1207	90.224	30.421	-1.02	-0.04	26.1691	0.00E+00
10/12/2019	8:19:26 AM	30.366	15.8798	35.2769	1.3709	4.76E-02	0.1179	4.42E+04	5.7752	71.694	30.52	0.924	0.05	25.966	0.00E+00
10/12/2019	8:19:37 AM	30.503	15.629	35.4206	0.7933	4.76E-02	0.0743	4.39E+04	7.0418	89.149	30.679	-1.012	-0.05	26.1714	0.00E+00
10/12/2019	8:19:26 AM	30.599	15.8361	35.2841	1.3716	4.76E-02	0.1194	4.42E+04	5.7651	71.574	30.753	0.931	0.03	25.9831	0.00E+00
10/12/2019	8:19:36 AM	30.749	15.5929	35.4146	0.791	4.76E-02	0.0666	4.39E+04	6.9566	88.003	30.943	-1	-0.03	26.1736	0.00E+00
10/12/2019	8:19:26 AM	30.833	15.7936	35.2871	1.3754	4.76E-02	0.1148	4.41E+04	5.7658	71.589	30.993	0.934	0.01	25.996	0.00E+00
10/12/2019	8:19:36 AM	30.995	15.5597	35.4095	0.6239	4.76E-02	0.1194	4.39E+04	6.8726	86.883	31.179	-0.991	-0.03	26.176	0.00E+00
10/12/2019	8:19:27 AM	31.068	15.7509	35.2876	1.3701	4.76E-02	0.1132	4.41E+04	5.7693	71.637	31.232	0.936	0.01	26.0063	0.00E+00
10/12/2019	8:19:36 AM	31.239	15.5293	35.403	0.6262	4.76E-02	0.1163	4.38E+04	6.7859	85.744	31.418	-0.983	-0.04	26.1765	0.00E+00
10/12/2019	8:19:27 AM	31.304	15.7068	35.2855	0.9078	4.76E-02	0.1194	4.40E+04	5.7738	71.694	31.468	0.94	0.01	26.0144	0.00E+00
10/12/2019	8:19:36 AM	31.482	15.5014	35.3949	0.6232	4.76E-02	0.1179	4.38E+04	6.7005	84.615	31.693	-0.974	-0.01	26.175	0.00E+00
10/12/2019	8:19:27 AM	31.54	15.6598	35.2805	0.907	4.76E-02	0.121	4.40E+04	5.7833	71.813	31.722	0.948	0.03	26.0203	0.00E+00
10/12/2019	8:19:36 AM	31.724	15.4767	35.3854	0.6224	4.76E-02	0.1194	4.38E+04	6.6263	83.622	31.954	-0.972	0.04	26.1713	0.00E+00
10/12/2019	8:19:27 AM	31.776	15.6099	35.2732	0.9108	4.76E-02	0.1101	4.39E+04	5.7987	72.007	31.965	0.955	0.03	26.0246	0.00E+00

10/12/2019	8:19:35 AM	31.962	15.456	35.375	0.5743	4.76E-02	0.1148	4.38E+04	6.5697	82.83	32.214	-0.982	0.01	26.1657	0.00E+00
10/12/2019	8:19:28 AM	32.011	15.5595	35.266	0.9047	4.76E-02	0.121	4.39E+04	5.8082	72.133	32.205	0.961	0.02	26.0297	0.00E+00
10/12/2019	8:19:35 AM	32.196	15.44	35.3659	0.5759	4.76E-02	0.1179	4.38E+04	6.5185	82.098	32.462	-0.985	-0.06	26.1602	0.00E+00
10/12/2019	8:19:28 AM	32.245	15.5137	35.2645	0.8635	4.76E-02	0.1225	4.38E+04	5.8196	72.283	32.455	0.968	0.03	26.0398	0.00E+00
10/12/2019	8:19:35 AM	32.425	15.4291	35.3593	0.5751	4.76E-02	0.1241	4.37E+04	6.4771	81.522	32.682	-0.97	-0.23	26.1559	0.00E+00
10/12/2019	8:19:28 AM	32.478	15.4763	35.2737	0.8643	4.76E-02	0.1179	4.38E+04	5.8291	72.403	32.714	0.978	0.04	26.0583	0.00E+00
10/12/2019	8:19:34 AM	32.649	15.4225	35.3553	0.5721	4.76E-02	0.1179	4.37E+04	6.4407	80.966	32.913	-0.913	-0.41	26.1531	0.00E+00
10/12/2019	8:19:29 AM	32.706	15.4483	35.2903	0.8635	4.76E-02	0.1225	4.38E+04	5.8368	72.501	32.985	0.991	0.05	26.0814	0.00E+00
10/12/2019	8:19:34 AM	32.868	15.4191	35.3533	0.585	4.76E-02	0.1598	4.37E+04	6.4008	80.382	33.154	-0.811	-0.58	26.1517	0.00E+00
10/12/2019	8:19:29 AM	32.929	15.4281	35.3072	0.865	4.76E-02	0.1225	4.37E+04	5.8434	72.583	33.253	1.007	0.06	26.1028	0.00E+00
10/12/2019	8:19:34 AM	33.08	15.4176	35.3528	0.5866	4.76E-02	0.1583	4.37E+04	6.3558	79.738	33.411	-0.667	-0.65	26.1514	0.00E+00
10/12/2019	8:19:29 AM	33.143	15.4141	35.3212	0.6827	4.76E-02	0.1148	4.37E+04	5.8503	72.666	33.52	1.023	0.06	26.12	0.00E+00
10/12/2019	8:19:34 AM	33.282	15.417	35.3536	0.5866	4.76E-02	0.1614	4.37E+04	6.3074	79.03	33.67	-0.503	-0.66	26.1522	0.00E+00
10/12/2019	8:19:29 AM	33.345	15.4045	35.3319	0.6819	4.76E-02	0.1132	4.37E+04	5.8574	72.752	33.779	1.035	0.05	26.1327	0.00E+00
10/12/2019	8:19:34 AM	33.472	15.4166	35.3548	0.5896	4.76E-02	0.1536	4.37E+04	6.2451	78.202	33.916	-0.338	-0.61	26.1534	0.00E+00
10/12/2019	8:19:29 AM	33.531	15.398	35.3396	0.6819	4.76E-02	0.1179	4.37E+04	5.8627	72.814	34.037	1.045	0.04	26.1418	0.00E+00
10/12/2019	8:19:33 AM	33.646	15.4159	35.3565	0.5873	4.76E-02	0.1552	4.37E+04	6.1763	77.291	34.187	-0.185	-0.46	26.1551	0.00E+00
10/12/2019	8:19:30 AM	33.698	15.3937	35.3447	0.685	4.76E-02	0.1194	4.37E+04	5.875	72.964	34.308	1.055	0.04	26.1479	0.00E+00
10/12/2019	8:19:33 AM	33.799	15.4146	35.3585	0.5965	4.76E-02	0.2329	4.37E+04	6.1239	76.587	34.398	-0.071	-0.31	26.1573	0.00E+00
10/12/2019	8:19:30 AM	33.838	15.3911	35.3484	0.6827	4.76E-02	0.1132	4.37E+04	5.8817	73.048	34.504	1.041	-0.06	26.1522	0.00E+00
10/12/2019	8:19:33 AM	33.926	15.4126	35.3595	0.6003	4.76E-02	0.2298	4.37E+04	6.0547	75.679	34.565	0.007	-0.16	26.1589	0.00E+00
10/12/2019	8:19:30 AM	33.951	15.3901	35.3515	0.611	4.76E-02	0.1287	4.37E+04	5.889	73.146	34.569	0.974	-0.27	26.1555	0.00E+00
10/12/2019	8:19:33 AM	34.026	15.4097	35.3591	0.6003	4.76E-02	0.2329	4.37E+04	6.0068	75.015	34.655	0.047	-0.06	26.1591	0.00E+00
10/12/2019	8:19:31 AM	34.038	15.3906	35.3541	0.611	4.76E-02	0.1365	4.37E+04	5.8907	73.188	34.585	0.857	-0.47	26.1581	0.00E+00
10/12/2019	8:19:32 AM	34.099	15.4065	35.3581	0.6026	4.76E-02	0.2298	4.37E+04	5.9654	74.439	34.693	0.062	-0.06	26.1589	0.00E+00
10/12/2019	8:19:31 AM	34.102	15.3922	35.3562	0.6163	4.76E-02	0.1318	4.37E+04	5.8928	73.247	34.603	0.71	-0.59	26.1599	0.00E+00
10/12/2019	8:19:31 AM	34.146	15.3945	35.3579	0.6148	4.76E-02	0.1272	4.37E+04	5.8976	73.34	34.62	0.549	-0.64	26.1612	0.00E+00
10/12/2019	8:19:32 AM	34.147	15.4037	35.3576	0.598	4.76E-02	0.2593	4.37E+04	5.9416	74.08	34.68	0.077	-0.23	26.159	0.00E+00
10/12/2019	8:19:31 AM	34.173	15.3971	35.3589	0.5957	4.76E-02	0.2546	4.37E+04	5.9	73.422	34.635	0.39	-0.64	26.1616	0.00E+00
10/12/2019	8:19:32 AM	34.174	15.4015	35.358	0.5995	4.76E-02	0.2593	4.37E+04	5.9204	73.754	34.666	0.136	-0.44	26.1598	0.00E+00
10/12/2019	8:19:31 AM	34.182	15.3994	35.3588	0.6003	4.76E-02	0.2562	4.37E+04	5.9078	73.554	34.65	0.247	-0.57	26.1609	0.00E+00

TRANSECT 1 - 250 m

DD MMM YYYY HH:MM:SS	DD MMM YYYY HH:MM:SS	DepSM	Tv290C	Sal00	FlECO-AFL	Par	TurbWETntu0	C0uS/cm	Sbeox0Mg/L	Sbeox0PS	PrdM	Dz/dtM	AccM	Sigma-t00	Flag
10/12/2019	8:23:12 AM	0.498	18.0572	35.3172	0.3119	4.76E-02	0.3028	4.63E+04	7.3735	96.274	0.228	-0.678	0.17	25.5011	0.00E+00
10/12/2019	8:23:12 AM	0.59	18.0572	35.3187	0.3088	4.76E-02	0.3012	4.63E+04	7.399	96.609	0.311	-0.719	0.12	25.5025	0.00E+00
10/12/2019	8:23:12 AM	0.699	18.0566	35.32	0.3111	4.76E-02	0.3043	4.63E+04	7.4039	96.676	0.472	-0.748	0.06	25.504	0.00E+00
10/12/2019	8:21:40 AM	0.731	18.0769	35.3205	0.3149	4.76E-02	0.8265	4.64E+04	7.9412	103.734	0.692	0.247	0.09	25.4988	0.00E+00
10/12/2019	8:21:41 AM	0.793	18.0771	35.3199	0.3119	4.76E-02	0.825	4.64E+04	7.9431	103.75	0.741	0.25	0.01	25.4982	0.00E+00
10/12/2019	8:23:12 AM	0.823	18.0554	35.3214	0.3592	4.76E-02	0.1334	4.63E+04	7.4014	96.648	0.62	-0.764	-0.01	25.5058	0.00E+00
10/12/2019	8:21:41 AM	0.86	18.0769	35.3194	0.3088	4.76E-02	0.8312	4.64E+04	7.9456	103.773	0.761	0.228	-0.09	25.4977	0.00E+00
10/12/2019	8:21:41 AM	0.934	18.0766	35.319	0.3127	4.76E-02	0.8234	4.64E+04	7.9443	103.747	0.778	0.199	-0.12	25.4973	0.00E+00
10/12/2019	8:23:11 AM	0.959	18.0534	35.3228	0.3592	4.76E-02	0.135	4.63E+04	7.4159	96.843	0.787	-0.761	-0.07	25.5076	0.00E+00
10/12/2019	8:21:42 AM	1.016	18.0759	35.3185	0.2989	4.76E-02	0.1303	4.63E+04	7.9456	103.75	0.837	0.18	-0.07	25.497	0.00E+00
10/12/2019	8:23:11 AM	1.106	18.0505	35.3235	0.3554	4.76E-02	0.1303	4.63E+04	7.4408	97.171	0.989	-0.742	-0.11	25.509	0.00E+00
10/12/2019	8:21:42 AM	1.11	18.075	35.3181	0.2982	4.76E-02	0.1365	4.63E+04	7.9467	103.751	0.946	0.189	0.03	25.4968	0.00E+00
10/12/2019	8:21:42 AM	1.214	18.0739	35.3177	0.2997	4.76E-02	0.135	4.63E+04	7.9445	103.711	1.073	0.222	0.13	25.4967	0.00E+00
10/12/2019	8:23:11 AM	1.262	18.0473	35.3238	0.3607	4.76E-02	0.1303	4.63E+04	7.4818	97.707	1.15	-0.714	-0.1	25.51	0.00E+00
10/12/2019	8:21:42 AM	1.328	18.0727	35.3176	0.2989	4.76E-02	0.1334	4.63E+04	7.9416	103.666	1.186	0.259	0.15	25.4968	0.00E+00
10/12/2019	8:23:10 AM	1.424	18.044	35.3241	0.3584	4.76E-02	0.1179	4.63E+04	7.5494	98.593	1.361	-0.687	-0.04	25.5111	0.00E+00
10/12/2019	8:21:43 AM	1.452	18.0708	35.3173	0.2959	4.76E-02	0.1396	4.63E+04	7.9384	103.619	1.298	0.303	0.18	25.4968	0.00E+00
10/12/2019	8:21:43 AM	1.585	18.068	35.3163	0.2989	4.76E-02	0.135	4.63E+04	7.9397	103.632	1.435	0.363	0.24	25.4964	0.00E+00
10/12/2019	8:23:10 AM	1.591	18.0408	35.3246	0.3554	4.76E-02	0.1116	4.63E+04	7.592	99.151	1.552	-0.678	0	25.5123	0.00E+00
10/12/2019	8:21:43 AM	1.728	18.0642	35.3145	0.2982	4.76E-02	0.1303	4.63E+04	7.9429	103.671	1.602	0.433	0.28	25.4955	0.00E+00
10/12/2019	8:23:10 AM	1.761	18.0376	35.3248	0.3577	4.76E-02	0.1132	4.63E+04	7.6252	99.584	1.737	-0.678	0.04	25.5133	0.00E+00
10/12/2019	8:21:43 AM	1.879	18.0601	35.313	0.2989	4.76E-02	0.1334	4.63E+04	7.9505	103.765	1.785	0.502	0.27	25.495	0.00E+00
10/12/2019	8:23:10 AM	1.933	18.0342	35.3249	0.3607	4.76E-02	0.1163	4.63E+04	7.6534	99.959	1.964	-0.687	0.07	25.5142	0.00E+00
10/12/2019	8:21:43 AM	2.036	18.0563	35.3129	0.3287	4.76E-02	0.1179	4.63E+04	7.9617	103.907	1.982	0.56	0.23	25.4959	0.00E+00
10/12/2019	8:23:10 AM	2.104	18.0308	35.3254	0.405	4.76E-02	0.1318	4.63E+04	7.6934	100.491	2.127	-0.705	0.06	25.5155	0.00E+00
10/12/2019	8:21:44 AM	2.198	18.0531	35.3139	0.3348	4.76E-02	0.1132	4.63E+04	7.9696	104.006	2.177	0.61	0.2	25.4977	0.00E+00
10/12/2019	8:23:09 AM	2.275	18.0275	35.3262	0.4073	4.76E-02	0.1318	4.63E+04	7.7549	101.303	2.285	-0.722	0.07	25.517	0.00E+00
10/12/2019	8:21:44 AM	2.362	18.0502	35.315	0.334	4.76E-02	0.1179	4.63E+04	7.9744	104.062	2.348	0.653	0.17	25.4994	0.00E+00
10/12/2019	8:23:09 AM	2.446	18.024	35.3268	0.4073	4.76E-02	0.1365	4.63E+04	7.8234	102.21	2.435	-0.74	0.07	25.5184	0.00E+00
10/12/2019	8:21:44 AM	2.528	18.0475	35.3157	0.3348	4.76E-02	0.1163	4.63E+04	7.9793	104.115	2.507	0.687	0.13	25.5008	0.00E+00
10/12/2019	8:23:09 AM	2.619	18.0201	35.3268	0.405	4.76E-02	0.1318	4.63E+04	7.8768	102.921	2.556	-0.757	0.02	25.5194	0.00E+00
10/12/2019	8:21:45 AM	2.696	18.0447	35.316	0.3348	4.76E-02	0.1163	4.63E+04	7.9808	104.123	2.668	0.705	0.08	25.5017	0.00E+00
10/12/2019	8:23:09 AM	2.795	18.0161	35.3268	0.4324	4.76E-02	0.1256	4.63E+04	7.9265	103.569	2.756	-0.763	0.01	25.5203	0.00E+00
10/12/2019	8:21:45 AM	2.866	18.0419	35.3162	0.3462	4.76E-02	0.1318	4.63E+04	7.9768	104.057	2.837	0.708	0.01	25.5025	0.00E+00
10/12/2019	8:23:08 AM	2.975	18.0123	35.3272	0.4324	4.76E-02	0.1287	4.63E+04	7.9558	103.957	2.958	-0.764	0.05	25.5216	0.00E+00
10/12/2019	8:21:45 AM	3.04	18.0385	35.3161	0.3462	4.76E-02	0.1287	4.63E+04	7.974	104.004	3.014	0.701	-0.03	25.5031	0.00E+00
10/12/2019	8:23:08 AM	3.158	18.0085	35.328	0.4301	4.76E-02	0.135	4.63E+04	7.9749	104.21	3.151	-0.776	0.06	25.5233	0.00E+00
10/12/2019	8:21:45 AM	3.215	18.0346	35.3155	0.3447	4.76E-02	0.1334	4.63E+04	7.9779	104.013	3.205	0.695	-0.02	25.5034	0.00E+00
10/12/2019	8:23:08 AM	3.341	18.0045	35.3285	0.4279	4.76E-02	0.1318	4.63E+04	7.9876	104.376	3.356	-0.79	0.07	25.5248	0.00E+00
10/12/2019	8:21:45 AM	3.393	18.0302	35.3146	0.3485	4.76E-02	0.1318	4.63E+04	7.981	104.001	3.406	0.696	0.01	25.5035	0.00E+00
10/12/2019	8:23:07 AM	3.526	18.0002	35.3287	0.4324	4.76E-02	0.1287	4.63E+04	7.9894	104.401	3.51	-0.807	0.02	25.526	0.00E+00
10/12/2019	8:21:46 AM	3.57	18.0253	35.3139	0.3569	4.76E-02	0.1287	4.63E+04	7.9858	104.016	3.623	0.713	0.07	25.504	0.00E+00
10/12/2019	8:23:07 AM	3.713	17.9958	35.3292	0.5042	4.76E-02	0.1334	4.63E+04	7.9858	104.355	3.686	-0.812	-0.04	25.5274	0.00E+00
10/12/2019	8:21:46 AM	3.746	18.0201	35.3137	0.3561	4.76E-02	0.1334	4.63E+04	7.9833	103.952	3.83	0.741	0.11	25.5049	0.00E+00
10/12/2019	8:23:07 AM	3.902	17.9915	35.3301	0.5026	4.76E-02	0.1334	4.63E+04	7.9843	104.336	3.885	-0.802	-0.03	25.5293	0.00E+00
10/12/2019	8:21:46 AM	3.918	18.0146	35.3135	0.3584	4.76E-02	0.1303	4.63E+04	7.9802	103.899	4.006	0.763	0.09	25.5059	0.00E+00
10/12/2019	8:21:47 AM	4.086	18.0093	35.3135	0.3607	4.76E-02	0.1334	4.63E+04	7.977	103.853	4.147	0.765	0.01	25.5073	0.00E+00
10/12/2019	8:23:07 AM	4.094	17.9871	35.3317	0.4996	4.76E-02	0.1303	4.63E+04	7.9824	104.309	4.095	-0.795	-0.03	25.5319	0.00E+00
10/12/2019	8:21:47 AM	4.253	18.0046	35.3145	0.3943	4.76E-02	0.1381	4.63E+04	7.9726	103.8	4.27	0.744	-0.09	25.5094	0.00E+00
10/12/2019	8:23:07 AM	4.287	17.9823	35.3336	0.508	4.76E-02	0.1225	4.63E+04	7.9807	104.276	4.313	-0.788	-0.01	25.5348	0.00E+00

10/12/2019	8:21:47 AM	4.419	18.0007	35.3162	0.3951	4.76E-02	0.1303	4.63E+04	7.9682	103.725	4.403	0.708	-0.14	25.512	0.00E+00
10/12/2019	8:23:06 AM	4.48	17.9767	35.335	0.5995	4.76E-02	0.1179	4.63E+04	7.9826	104.295	4.489	-0.785	-0.05	25.5375	0.00E+00
10/12/2019	8:21:47 AM	4.588	17.9974	35.3181	0.3943	4.76E-02	0.1272	4.63E+04	7.9664	103.684	4.556	0.667	-0.16	25.5146	0.00E+00
10/12/2019	8:23:06 AM	4.674	17.9705	35.3362	0.5995	4.76E-02	0.1116	4.63E+04	7.9778	104.225	4.709	-0.773	-0.06	25.5402	0.00E+00
10/12/2019	8:21:47 AM	4.76	17.9943	35.3194	0.3928	4.76E-02	0.1303	4.63E+04	7.9668	103.664	4.731	0.634	-0.13	25.5165	0.00E+00
10/12/2019	8:23:06 AM	4.867	17.964	35.3376	0.6033	4.76E-02	0.1132	4.62E+04	7.9788	104.231	4.913	-0.757	-0.04	25.5431	0.00E+00
10/12/2019	8:21:48 AM	4.935	17.9914	35.3202	0.4469	4.76E-02	0.135	4.63E+04	7.9667	103.656	4.913	0.615	-0.08	25.518	0.00E+00
10/12/2019	8:23:05 AM	5.059	17.9571	35.3393	0.6018	4.76E-02	0.1163	4.62E+04	7.977	104.203	5.108	-0.746	-0.05	25.5463	0.00E+00
10/12/2019	8:21:48 AM	5.114	17.9882	35.3206	0.4462	4.76E-02	0.1318	4.63E+04	7.9681	103.685	5.085	0.613	-0.01	25.5191	0.00E+00
10/12/2019	8:23:05 AM	5.25	17.9499	35.341	0.7094	4.76E-02	0.1194	4.62E+04	7.9773	104.2	5.307	-0.734	-0.06	25.5497	0.00E+00
10/12/2019	8:21:48 AM	5.296	17.9846	35.3207	0.4431	4.76E-02	0.1318	4.63E+04	7.966	103.672	5.254	0.628	0.06	25.5198	0.00E+00
10/12/2019	8:23:05 AM	5.439	17.942	35.3426	0.7071	4.76E-02	0.1148	4.62E+04	7.9789	104.213	5.481	-0.72	-0.09	25.553	0.00E+00
10/12/2019	8:21:48 AM	5.482	17.9803	35.3203	0.4431	4.76E-02	0.1318	4.63E+04	7.9728	103.73	5.441	0.657	0.11	25.5204	0.00E+00
10/12/2019	8:23:05 AM	5.627	17.9337	35.344	0.7086	4.76E-02	0.1148	4.62E+04	7.9784	104.201	5.69	-0.698	-0.09	25.5562	0.00E+00
10/12/2019	8:21:49 AM	5.673	17.9749	35.3194	0.4446	4.76E-02	0.1287	4.63E+04	7.9724	103.698	5.644	0.691	0.14	25.5205	0.00E+00
10/12/2019	8:23:05 AM	5.813	17.9251	35.3452	0.7079	4.76E-02	0.1241	4.62E+04	7.9827	104.253	5.884	-0.674	-0.03	25.5592	0.00E+00
10/12/2019	8:21:49 AM	5.868	17.968	35.3179	0.5042	4.76E-02	0.135	4.63E+04	7.9647	103.574	5.85	0.721	0.12	25.5204	0.00E+00
10/12/2019	8:23:04 AM	5.997	17.9164	35.3463	0.7803	4.76E-02	0.152	4.62E+04	7.9839	104.261	6.07	-0.667	0.02	25.5623	0.00E+00
10/12/2019	8:21:49 AM	6.065	17.9593	35.3161	0.5042	4.76E-02	0.1318	4.62E+04	7.9576	103.465	6.055	0.745	0.09	25.5204	0.00E+00
10/12/2019	8:23:04 AM	6.178	17.9077	35.3479	0.7826	4.76E-02	0.1536	4.62E+04	7.9866	104.286	6.255	-0.672	0.05	25.5657	0.00E+00
10/12/2019	8:21:50 AM	6.266	17.9484	35.3141	0.5042	4.76E-02	0.135	4.62E+04	7.9582	103.443	6.256	0.763	0.07	25.5206	0.00E+00
10/12/2019	8:23:04 AM	6.357	17.8989	35.3496	0.7796	4.76E-02	0.1567	4.62E+04	7.9926	104.357	6.408	-0.686	0.07	25.5695	0.00E+00
10/12/2019	8:21:50 AM	6.469	17.9346	35.3115	0.5072	4.76E-02	0.1303	4.62E+04	7.957	103.385	6.469	0.783	0.08	25.5207	0.00E+00
10/12/2019	8:23:03 AM	6.535	17.8898	35.3521	0.7796	4.76E-02	0.1583	4.62E+04	7.9991	104.434	6.597	-0.704	0.07	25.574	0.00E+00
10/12/2019	8:21:50 AM	6.675	17.9181	35.308	0.5408	4.76E-02	0.1132	4.62E+04	7.9563	103.34	6.684	0.805	0.09	25.5207	0.00E+00
10/12/2019	8:23:03 AM	6.711	17.8801	35.3564	0.7826	4.76E-02	0.1552	4.62E+04	8	104.44	6.772	-0.723	0.06	25.5805	0.00E+00
10/12/2019	8:21:50 AM	6.882	17.9007	35.3047	0.5415	4.76E-02	0.1132	4.62E+04	7.9556	103.332	6.902	0.825	0.08	25.5215	0.00E+00
10/12/2019	8:23:03 AM	6.886	17.8692	35.3627	0.9223	4.76E-02	0.208	4.62E+04	8.0033	104.475	6.929	-0.738	0.06	25.5894	0.00E+00
10/12/2019	8:23:03 AM	7.061	17.8561	35.3701	0.9207	4.76E-02	0.2142	4.62E+04	8.0023	104.453	7.087	-0.754	0.03	25.6	0.00E+00
10/12/2019	8:21:50 AM	7.09	17.8852	35.3052	0.5423	4.76E-02	0.1148	4.62E+04	7.9492	103.311	7.117	0.837	0.05	25.526	0.00E+00
10/12/2019	8:23:02 AM	7.237	17.8396	35.3766	0.9177	4.76E-02	0.1987	4.61E+04	8	104.414	7.222	-0.761	-0.03	25.6109	0.00E+00
10/12/2019	8:21:51 AM	7.3	17.8733	35.3105	0.5408	4.76E-02	0.107	4.62E+04	7.9557	103.441	7.334	0.845	0.03	25.5344	0.00E+00
10/12/2019	8:23:02 AM	7.415	17.8193	35.382	0.9223	4.76E-02	0.1987	4.61E+04	8.0039	104.459	7.422	-0.752	-0.07	25.6214	0.00E+00
10/12/2019	8:21:51 AM	7.51	17.8645	35.3175	0.7925	4.76E-02	0.3556	4.62E+04	7.9684	103.647	7.534	0.848	0.01	25.5435	0.00E+00
10/12/2019	8:23:02 AM	7.596	17.7957	35.3862	1.1145	4.76E-02	0.7255	4.61E+04	8.0095	104.524	7.625	-0.734	-0.1	25.6317	0.00E+00
10/12/2019	8:21:51 AM	7.721	17.8578	35.3233	0.7941	4.76E-02	0.3587	4.62E+04	7.9756	103.706	7.719	0.843	-0.02	25.551	0.00E+00
10/12/2019	8:23:02 AM	7.777	17.7692	35.3882	1.1145	4.76E-02	0.7271	4.61E+04	8.0123	104.553	7.811	-0.708	-0.09	25.6404	0.00E+00
10/12/2019	8:21:52 AM	7.935	17.8518	35.327	0.7933	4.76E-02	0.3494	4.61E+04	7.9842	103.77	7.906	0.832	-0.05	25.5559	0.00E+00
10/12/2019	8:23:02 AM	7.959	17.7407	35.3892	1.116	4.76E-02	0.7271	4.60E+04	8.0185	104.621	8.027	-0.686	-0.03	25.6483	0.00E+00
10/12/2019	8:23:01 AM	8.14	17.7114	35.388	1.1153	4.76E-02	0.7286	4.60E+04	8.0237	104.675	8.195	-0.679	0.01	25.6542	0.00E+00
10/12/2019	8:21:52 AM	8.153	17.8452	35.3275	0.7933	4.76E-02	0.3587	4.61E+04	7.9873	103.775	8.111	0.819	-0.05	25.558	0.00E+00
10/12/2019	8:23:01 AM	8.32	17.6822	35.3831	1.2961	4.76E-02	0.9726	4.60E+04	8.0244	104.672	8.367	-0.683	0.04	25.6566	0.00E+00
10/12/2019	8:21:52 AM	8.376	17.8381	35.3258	0.9223	4.76E-02	0.5546	4.61E+04	7.9835	103.703	8.341	0.815	-0.02	25.5582	0.00E+00
10/12/2019	8:23:01 AM	8.5	17.6543	35.3774	1.2991	4.76E-02	0.971	4.59E+04	8.0302	104.737	8.568	-0.693	0.1	25.6575	0.00E+00
10/12/2019	8:21:52 AM	8.605	17.8319	35.3253	0.9238	4.76E-02	0.5514	4.61E+04	7.9867	103.747	8.581	0.821	0.03	25.5594	0.00E+00
10/12/2019	8:23:00 AM	8.678	17.6293	35.3711	1.3007	4.76E-02	0.9726	4.59E+04	8.0269	104.678	8.749	-0.718	0.15	25.6568	0.00E+00
10/12/2019	8:21:52 AM	8.838	17.8276	35.3278	0.92	4.76E-02	0.5499	4.61E+04	7.9818	103.659	8.827	0.839	0.07	25.5631	0.00E+00
10/12/2019	8:23:00 AM	8.855	17.6079	35.3637	1.3007	4.76E-02	0.9819	4.59E+04	8.0215	104.592	8.936	-0.755	0.14	25.6545	0.00E+00
10/12/2019	8:23:00 AM	9.031	17.5905	35.3583	1.4311	4.76E-02	0.926	4.59E+04	8.0148	104.486	9.078	-0.79	0.07	25.6528	0.00E+00
10/12/2019	8:21:53 AM	9.074	17.8242	35.3319	0.9177	4.76E-02	0.5514	4.61E+04	7.9841	103.666	9.081	0.869	0.12	25.5677	0.00E+00
10/12/2019	8:23:00 AM	9.207	17.5771	35.3558	1.4334	4.76E-02	0.9229	4.59E+04	8.0074	104.372	9.211	-0.808	-0.04	25.6531	0.00E+00

10/12/2019	8:21:53 AM	9.313	17.8189	35.3336	0.9215	4.76E-02	0.5623	4.61E+04	7.9803	103.588	9.34	0.908	0.16	25.5701	0.00E+00
10/12/2019	8:23:00 AM	9.386	17.5667	35.3551	1.4342	4.76E-02	0.9306	4.59E+04	8.0031	104.302	9.391	-0.798	-0.1	25.6547	0.00E+00
10/12/2019	8:21:53 AM	9.554	17.8103	35.3294	1.0298	4.76E-02	0.8763	4.61E+04	7.9836	103.606	9.597	0.949	0.16	25.5677	0.00E+00
10/12/2019	8:22:59 AM	9.567	17.5577	35.3553	1.4304	4.76E-02	0.9322	4.59E+04	7.9982	104.22	9.57	-0.772	-0.14	25.657	0.00E+00
10/12/2019	8:22:59 AM	9.751	17.549	35.3559	1.4334	4.76E-02	0.9306	4.58E+04	7.9961	104.179	9.784	-0.738	-0.15	25.6596	0.00E+00
10/12/2019	8:21:54 AM	9.795	17.8003	35.3229	1.0291	4.76E-02	0.8763	4.61E+04	7.9855	103.606	9.857	0.984	0.14	25.564	0.00E+00
10/12/2019	8:22:59 AM	9.936	17.5401	35.3558	1.422	4.76E-02	1.1047	4.58E+04	7.9947	104.145	9.992	-0.7	-0.12	25.6618	0.00E+00
10/12/2019	8:21:54 AM	10.036	17.7903	35.3207	1.0298	4.76E-02	0.8763	4.61E+04	7.9863	103.595	10.111	1.006	0.09	25.5644	0.00E+00
10/12/2019	8:22:58 AM	10.121	17.531	35.3548	1.4212	4.76E-02	1.0969	4.58E+04	7.9934	104.114	10.204	-0.671	-0.11	25.6632	0.00E+00
10/12/2019	8:21:54 AM	10.276	17.7799	35.3209	1.0291	4.76E-02	0.8778	4.61E+04	7.9852	103.57	10.362	1.017	0.04	25.567	0.00E+00
10/12/2019	8:22:58 AM	10.304	17.5219	35.3539	1.4189	4.76E-02	1.0985	4.58E+04	7.9928	104.094	10.433	-0.643	-0.06	25.6645	0.00E+00
10/12/2019	8:22:58 AM	10.483	17.5131	35.3534	1.422	4.76E-02	1.1016	4.58E+04	7.9901	104.036	10.613	-0.627	0	25.6661	0.00E+00
10/12/2019	8:21:54 AM	10.514	17.7692	35.3198	1.0794	4.76E-02	0.5717	4.61E+04	7.9827	103.546	10.606	1.019	0.01	25.5687	0.00E+00
10/12/2019	8:22:58 AM	10.658	17.5047	35.3535	1.4212	4.76E-02	0.811	4.58E+04	7.9838	103.919	10.789	-0.628	0.01	25.6681	0.00E+00
10/12/2019	8:21:54 AM	10.75	17.7605	35.3197	1.0794	4.76E-02	0.5763	4.61E+04	7.9841	103.571	10.843	1.013	-0.02	25.5711	0.00E+00
10/12/2019	8:22:58 AM	10.829	17.4966	35.3537	1.4197	4.76E-02	0.8094	4.58E+04	7.9759	103.774	10.944	-0.63	-0.03	25.6702	0.00E+00
10/12/2019	8:21:55 AM	10.984	17.7567	35.3239	1.0787	4.76E-02	0.5794	4.60E+04	7.9811	103.528	11.086	1.004	-0.04	25.5769	0.00E+00
10/12/2019	8:22:57 AM	10.996	17.4887	35.3538	1.422	4.76E-02	0.8017	4.58E+04	7.9627	103.54	11.094	-0.623	-0.05	25.6722	0.00E+00
10/12/2019	8:22:57 AM	11.161	17.4808	35.3545	1.4227	4.76E-02	0.8001	4.58E+04	7.9489	103.306	11.265	-0.611	-0.06	25.6747	0.00E+00
10/12/2019	8:21:55 AM	11.215	17.7599	35.3339	1.0787	4.76E-02	0.5779	4.61E+04	7.9832	103.532	11.318	0.99	-0.05	25.5867	0.00E+00
10/12/2019	8:22:57 AM	11.323	17.473	35.3555	1.5524	4.76E-02	1.1933	4.58E+04	7.9413	103.137	11.41	-0.596	-0.03	25.6775	0.00E+00
10/12/2019	8:21:55 AM	11.444	17.768	35.3473	1.1397	4.76E-02	1.0534	4.61E+04	7.9805	103.478	11.537	0.972	-0.07	25.598	0.00E+00
10/12/2019	8:22:56 AM	11.483	17.4648	35.3562	1.554	4.76E-02	1.1948	4.58E+04	7.9328	102.964	11.586	-0.589	0.03	25.6802	0.00E+00
10/12/2019	8:22:56 AM	11.642	17.4563	35.3568	1.5563	4.76E-02	1.1948	4.58E+04	7.9302	102.872	11.725	-0.597	0.01	25.6829	0.00E+00
10/12/2019	8:21:55 AM	11.671	17.7746	35.3551	1.1389	4.76E-02	1.0472	4.61E+04	7.9802	103.451	11.764	0.953	-0.07	25.6032	0.00E+00
10/12/2019	8:22:56 AM	11.799	17.4475	35.3575	1.5563	4.76E-02	1.2042	4.57E+04	7.9308	102.803	11.863	-0.599	0	25.6856	0.00E+00
10/12/2019	8:21:56 AM	11.896	17.7748	35.3504	1.1366	4.76E-02	1.0456	4.61E+04	7.9796	103.433	11.997	0.939	-0.06	25.5976	0.00E+00
10/12/2019	8:22:56 AM	11.955	17.4384	35.3582	1.6638	4.76E-02	1.3673	4.57E+04	7.9307	102.764	12.06	-0.6	0.04	25.6885	0.00E+00
10/12/2019	8:22:55 AM	12.11	17.4291	35.3581	1.6638	4.76E-02	1.3673	4.57E+04	7.938	102.817	12.203	-0.609	0.04	25.6906	0.00E+00
10/12/2019	8:21:56 AM	12.119	17.7679	35.3375	1.1412	4.76E-02	1.0503	4.61E+04	7.9754	103.427	12.21	0.924	-0.06	25.5861	0.00E+00
10/12/2019	8:22:55 AM	12.263	17.4196	35.3571	1.6684	4.76E-02	1.372	4.57E+04	7.9413	102.828	12.331	-0.619	0.05	25.6919	0.00E+00
10/12/2019	8:21:56 AM	12.341	17.7572	35.3249	1.1008	4.76E-02	0.9058	4.61E+04	7.9687	103.399	12.416	0.907	-0.07	25.5764	0.00E+00
10/12/2019	8:22:55 AM	12.416	17.4103	35.356	1.6684	4.76E-02	1.3673	4.57E+04	7.9461	102.88	12.473	-0.631	0.05	25.693	0.00E+00
10/12/2019	8:21:57 AM	12.562	17.7464	35.319	1.0672	4.76E-02	0.9011	4.60E+04	7.9827	103.459	12.631	0.892	-0.06	25.5735	0.00E+00
10/12/2019	8:22:55 AM	12.571	17.4016	35.3547	1.6669	4.76E-02	1.3767	4.57E+04	7.9502	102.925	12.591	-0.644	0.02	25.6938	0.00E+00
10/12/2019	8:22:55 AM	12.727	17.3937	35.3528	1.6188	4.76E-02	1.3969	4.57E+04	7.9495	102.905	12.772	-0.649	0.02	25.6937	0.00E+00
10/12/2019	8:21:57 AM	12.783	17.7369	35.3201	1.0672	4.76E-02	0.8996	4.60E+04	7.995	103.427	12.848	0.879	-0.05	25.577	0.00E+00
10/12/2019	8:22:54 AM	12.885	17.3866	35.3512	1.6142	4.76E-02	1.4031	4.57E+04	7.9517	102.918	12.949	-0.655	0.06	25.6938	0.00E+00
10/12/2019	8:21:57 AM	13.004	17.7278	35.3234	1.0657	4.76E-02	0.9042	4.60E+04	7.9935	103.187	13.064	0.871	-0.03	25.5822	0.00E+00
10/12/2019	8:22:54 AM	13.044	17.3806	35.3505	1.615	4.76E-02	1.3938	4.57E+04	7.9526	102.912	13.094	-0.67	0.04	25.6944	0.00E+00
10/12/2019	8:22:54 AM	13.205	17.3753	35.3502	1.6165	4.76E-02	1.386	4.57E+04	7.9521	102.885	13.257	-0.681	0.07	25.6953	0.00E+00
10/12/2019	8:21:57 AM	13.227	17.7178	35.3241	1.0672	4.76E-02	0.9089	4.60E+04	7.9836	102.931	13.286	0.868	-0.01	25.585	0.00E+00
10/12/2019	8:22:53 AM	13.367	17.3703	35.3504	1.6432	4.76E-02	1.6144	4.57E+04	7.9495	102.831	13.394	-0.698	0.06	25.6966	0.00E+00
10/12/2019	8:21:57 AM	13.45	17.7068	35.3216	1.1267	4.76E-02	1.0705	4.60E+04	7.9542	102.549	13.514	0.867	0	25.5854	0.00E+00
10/12/2019	8:22:53 AM	13.531	17.3656	35.3512	1.6387	4.76E-02	1.6129	4.57E+04	7.948	102.793	13.548	-0.713	0.05	25.6985	0.00E+00
10/12/2019	8:21:58 AM	13.674	17.6957	35.3196	1.1275	4.76E-02	1.0736	4.60E+04	7.9166	102.12	13.743	0.871	0.02	25.5863	0.00E+00
10/12/2019	8:22:53 AM	13.699	17.3607	35.3525	1.6387	4.76E-02	1.6129	4.57E+04	7.9439	102.727	13.734	-0.726	0.11	25.701	0.00E+00
10/12/2019	8:22:53 AM	13.87	17.3554	35.3536	1.6417	4.76E-02	1.6129	4.57E+04	7.9397	102.657	13.911	-0.754	0.11	25.7034	0.00E+00
10/12/2019	8:21:58 AM	13.898	17.6854	35.3197	1.1252	4.76E-02	1.0752	4.60E+04	7.8858	101.743	13.962	0.88	0.03	25.589	0.00E+00
10/12/2019	8:22:53 AM	14.043	17.3494	35.3537	1.602	4.76E-02	1.5989	4.56E+04	7.9391	102.637	14.093	-0.781	0.09	25.7051	0.00E+00
10/12/2019	8:21:58 AM	14.122	17.6762	35.321	1.1267	4.76E-02	1.0736	4.60E+04	7.8658	101.501	14.191	0.889	0.04	25.5927	0.00E+00

10/12/2019	8:22:52 AM	14.218	17.3429	35.3537	1.6005	4.76E-02	1.5911	4.56E+04	7.9365	102.588	14.246	-0.805	0	25.7067	0.00E+00
10/12/2019	8:21:59 AM	14.348	17.669	35.3232	1.1878	4.76E-02	0.7504	4.60E+04	7.8435	101.214	14.419	0.896	0.03	25.597	0.00E+00
10/12/2019	8:22:52 AM	14.396	17.3364	35.3544	1.6036	4.76E-02	1.5911	4.56E+04	7.9322	102.519	14.427	-0.805	-0.04	25.7089	0.00E+00
10/12/2019	8:21:59 AM	14.574	17.6642	35.3268	1.1862	4.76E-02	0.7566	4.60E+04	7.8369	101.114	14.64	0.899	0.01	25.602	0.00E+00
10/12/2019	8:22:52 AM	14.577	17.3298	35.355	1.6051	4.76E-02	1.588	4.56E+04	7.9296	102.468	14.598	-0.795	-0.08	25.711	0.00E+00
10/12/2019	8:22:51 AM	14.761	17.323	35.3552	1.7813	4.76E-02	1.8755	4.56E+04	7.9282	102.433	14.794	-0.775	-0.08	25.7128	0.00E+00
10/12/2019	8:21:59 AM	14.801	17.6609	35.3312	1.1878	4.76E-02	0.7566	4.60E+04	7.8419	101.173	14.854	0.899	0	25.6071	0.00E+00
10/12/2019	8:22:51 AM	14.948	17.3159	35.3539	1.7844	4.76E-02	1.8802	4.56E+04	7.9312	102.455	15.001	-0.756	-0.05	25.7133	0.00E+00
10/12/2019	8:21:59 AM	15.03	17.6573	35.3339	1.1862	4.76E-02	0.7519	4.60E+04	7.855	101.321	15.087	0.898	0	25.6103	0.00E+00
10/12/2019	8:22:51 AM	15.138	17.3091	35.3504	1.7821	4.76E-02	1.8755	4.56E+04	7.9306	102.428	15.2	-0.743	-0.06	25.7115	0.00E+00
10/12/2019	8:21:59 AM	15.26	17.6519	35.3329	1.1748	4.76E-02	0.8794	4.60E+04	7.8704	101.523	15.325	0.9	0.01	25.6104	0.00E+00
10/12/2019	8:22:51 AM	15.328	17.3033	35.3464	1.7859	4.76E-02	1.8771	4.56E+04	7.9322	102.432	15.438	-0.729	0.02	25.7089	0.00E+00
10/12/2019	8:22:00 AM	15.492	17.6444	35.3289	1.1748	4.76E-02	0.8778	4.59E+04	7.8819	101.661	15.57	0.908	0.03	25.6082	0.00E+00
10/12/2019	8:22:51 AM	15.517	17.2995	35.3434	1.7829	4.76E-02	1.8755	4.56E+04	7.9382	102.486	15.642	-0.734	0.04	25.7065	0.00E+00
10/12/2019	8:22:50 AM	15.704	17.2979	35.3413	1.7226	4.76E-02	1.2725	4.56E+04	7.9409	102.502	15.832	-0.744	0.05	25.7046	0.00E+00
10/12/2019	8:22:00 AM	15.724	17.6362	35.3256	1.1771	4.76E-02	0.8809	4.59E+04	7.8915	101.793	15.817	0.921	0.05	25.607	0.00E+00
10/12/2019	8:22:50 AM	15.889	17.2978	35.3398	1.7264	4.76E-02	1.2741	4.56E+04	7.9417	102.493	15.987	-0.758	0	25.7031	0.00E+00
10/12/2019	8:22:00 AM	15.956	17.6282	35.3251	1.1748	4.76E-02	0.8778	4.59E+04	7.8994	101.895	16.051	0.931	0.04	25.6085	0.00E+00
10/12/2019	8:22:50 AM	16.073	17.2989	35.3391	1.7226	4.76E-02	1.271	4.56E+04	7.9345	102.389	16.161	-0.759	-0.02	25.702	0.00E+00
10/12/2019	8:22:01 AM	16.187	17.6204	35.3261	1.1878	4.76E-02	1.2275	4.59E+04	7.9148	102.085	16.278	0.939	0.03	25.6112	0.00E+00
10/12/2019	8:22:49 AM	16.257	17.3008	35.3399	1.7211	4.76E-02	1.2694	4.56E+04	7.9305	102.319	16.338	-0.754	-0.05	25.7023	0.00E+00
10/12/2019	8:22:01 AM	16.418	17.6093	35.3268	1.3106	4.76E-02	1.2213	4.59E+04	7.9251	102.206	16.512	0.945	0.03	25.6137	0.00E+00
10/12/2019	8:22:49 AM	16.442	17.3028	35.3427	1.6425	4.76E-02	0.9773	4.56E+04	7.924	102.23	16.533	-0.741	-0.07	25.7046	0.00E+00
10/12/2019	8:22:49 AM	16.626	17.3042	35.347	1.6417	4.76E-02	0.9773	4.56E+04	7.9163	102.12	16.735	-0.723	-0.05	25.7085	0.00E+00
10/12/2019	8:22:01 AM	16.649	17.5853	35.3204	1.3091	4.76E-02	1.2244	4.59E+04	7.9313	102.26	16.744	0.948	0.01	25.6107	0.00E+00
10/12/2019	8:22:49 AM	16.81	17.3037	35.3522	1.641	4.76E-02	0.9788	4.56E+04	7.9095	102.026	16.914	-0.709	-0.07	25.714	0.00E+00
10/12/2019	8:22:01 AM	16.88	17.5421	35.2945	1.3075	4.76E-02	1.2228	4.59E+04	7.9391	102.339	16.98	0.945	-0.01	25.5935	0.00E+00
10/12/2019	8:22:48 AM	16.993	17.3008	35.3575	1.6425	4.76E-02	0.9773	4.56E+04	7.9026	101.931	17.117	-0.693	-0.03	25.7201	0.00E+00
10/12/2019	8:22:01 AM	17.111	17.4873	35.2578	1.3075	4.76E-02	1.2244	4.58E+04	7.9394	102.323	17.214	0.94	-0.02	25.5712	0.00E+00
10/12/2019	8:22:48 AM	17.174	17.2949	35.3625	1.7974	4.76E-02	0.7333	4.56E+04	7.9	101.889	17.299	-0.685	-0.05	25.7267	0.00E+00
10/12/2019	8:22:02 AM	17.341	17.4369	35.2405	1.3114	4.76E-02	0.7504	4.57E+04	7.9436	102.362	17.452	0.936	-0.02	25.5684	0.00E+00
10/12/2019	8:22:48 AM	17.353	17.2862	35.3671	1.7935	4.76E-02	0.7286	4.56E+04	7.8999	101.878	17.49	-0.673	-0.05	25.7335	0.00E+00
10/12/2019	8:22:48 AM	17.53	17.2749	35.3697	1.7935	4.76E-02	0.7302	4.56E+04	7.9012	101.881	17.663	-0.661	-0.07	25.739	0.00E+00
10/12/2019	8:22:02 AM	17.571	17.403	35.2549	1.3106	4.76E-02	0.7488	4.57E+04	7.9466	102.388	17.692	0.936	0	25.5928	0.00E+00
10/12/2019	8:22:48 AM	17.704	17.2613	35.3703	1.7966	4.76E-02	0.7302	4.56E+04	7.9021	101.877	17.844	-0.644	-0.02	25.743	0.00E+00
10/12/2019	8:22:02 AM	17.798	17.388	35.2899	1.3091	4.76E-02	0.7504	4.57E+04	7.9446	102.331	17.928	0.94	0.01	25.6318	0.00E+00
10/12/2019	8:22:47 AM	17.876	17.2467	35.371	1.6547	4.76E-02	0.8483	4.56E+04	7.903	101.876	18.011	-0.638	0	25.7471	0.00E+00
10/12/2019	8:22:02 AM	18.024	17.3843	35.3251	1.3106	4.76E-02	0.7566	4.57E+04	7.9399	102.295	18.157	0.942	0.01	25.6671	0.00E+00
10/12/2019	8:22:47 AM	18.045	17.232	35.372	1.6547	4.76E-02	0.8498	4.55E+04	7.905	101.89	18.168	-0.638	-0.01	25.7514	0.00E+00
10/12/2019	8:22:47 AM	18.214	17.2172	35.3712	1.6562	4.76E-02	0.8514	4.55E+04	7.9055	101.882	18.341	-0.635	0.02	25.7542	0.00E+00
10/12/2019	8:22:03 AM	18.248	17.3833	35.3428	1.7119	4.76E-02	0.5794	4.57E+04	7.9308	102.191	18.37	0.936	-0.02	25.6843	0.00E+00
10/12/2019	8:22:46 AM	18.38	17.2023	35.3681	1.6539	4.76E-02	0.8514	4.55E+04	7.9095	101.916	18.506	-0.64	0.04	25.7548	0.00E+00
10/12/2019	8:22:03 AM	18.471	17.382	35.3451	1.7104	4.76E-02	0.5825	4.57E+04	7.9341	102.238	18.583	0.926	-0.04	25.6869	0.00E+00
10/12/2019	8:22:46 AM	18.545	17.188	35.3654	1.6524	4.76E-02	0.8545	4.55E+04	7.9146	101.965	18.686	-0.649	0.06	25.7554	0.00E+00
10/12/2019	8:22:03 AM	18.693	17.3799	35.3438	1.7096	4.76E-02	0.5748	4.57E+04	7.9377	102.236	18.788	0.909	-0.07	25.6862	0.00E+00
10/12/2019	8:22:46 AM	18.708	17.1755	35.3647	1.8195	4.76E-02	0.6292	4.55E+04	7.9202	102.017	18.832	-0.665	-0.01	25.7575	0.00E+00
10/12/2019	8:22:46 AM	18.869	17.1643	35.3654	1.8195	4.76E-02	0.6276	4.55E+04	7.9227	102.047	18.978	-0.662	-0.06	25.7608	0.00E+00
10/12/2019	8:22:04 AM	18.916	17.3767	35.342	1.7119	4.76E-02	0.5717	4.57E+04	7.9463	102.219	18.999	0.891	-0.07	25.6851	0.00E+00
10/12/2019	8:22:46 AM	19.031	17.1534	35.3658	1.818	4.76E-02	0.6229	4.55E+04	7.9221	102.042	19.116	-0.646	-0.1	25.7637	0.00E+00
10/12/2019	8:22:04 AM	19.14	17.3727	35.3393	1.6417	4.76E-02	0.8731	4.57E+04	7.9468	102.025	19.226	0.878	-0.06	25.6835	0.00E+00
10/12/2019	8:22:45 AM	19.193	17.1422	35.3652	1.818	4.76E-02	0.626	4.54E+04	7.9176	101.989	19.294	-0.622	-0.02	25.7659	0.00E+00

10/12/2019	8:22:45 AM	19.356	17.131	35.3652	1.8065	4.76E-02	0.8234	4.54E+04	7.9081	101.873	19.468	-0.617	0.03	25.7684	0.00E+00
10/12/2019	8:22:04 AM	19.366	17.3691	35.3382	1.6402	4.76E-02	0.8778	4.57E+04	7.9507	101.809	19.447	0.868	-0.04	25.6835	0.00E+00
10/12/2019	8:22:45 AM	19.518	17.1203	35.3658	1.8096	4.76E-02	0.8265	4.54E+04	7.9003	101.781	19.627	-0.624	0.04	25.7714	0.00E+00
10/12/2019	8:22:04 AM	19.593	17.3666	35.3392	1.641	4.76E-02	0.8794	4.57E+04	7.939	101.416	19.668	0.864	-0.02	25.6852	0.00E+00
10/12/2019	8:22:44 AM	19.68	17.1096	35.366	1.8073	4.76E-02	0.8312	4.54E+04	7.89	101.658	19.805	-0.635	0.06	25.7742	0.00E+00
10/12/2019	8:22:04 AM	19.821	17.3646	35.3405	1.6448	4.76E-02	0.8778	4.57E+04	7.9093	100.85	19.9	0.869	0.02	25.6871	0.00E+00
10/12/2019	8:22:44 AM	19.842	17.0988	35.3661	1.8088	4.76E-02	0.8219	4.54E+04	7.8729	101.447	19.98	-0.651	0.08	25.777	0.00E+00
10/12/2019	8:22:44 AM	20.002	17.0879	35.3686	1.808	4.76E-02	0.7271	4.54E+04	7.8635	101.326	20.147	-0.67	0.05	25.782	0.00E+00
10/12/2019	8:22:05 AM	20.052	17.362	35.3403	1.6402	4.76E-02	1.1047	4.57E+04	7.879	100.323	20.143	0.883	0.06	25.6876	0.00E+00
10/12/2019	8:22:44 AM	20.161	17.0769	35.3751	1.8057	4.76E-02	0.7333	4.54E+04	7.8565	101.231	20.26	-0.684	-0.01	25.7908	0.00E+00
10/12/2019	8:22:05 AM	20.284	17.3582	35.339	1.734	4.76E-02	1.1746	4.57E+04	7.836	99.649	20.384	0.901	0.07	25.6871	0.00E+00
10/12/2019	8:22:44 AM	20.32	17.0641	35.3828	1.8042	4.76E-02	0.7271	4.54E+04	7.8553	101.2	20.386	-0.68	-0.06	25.8015	0.00E+00
10/12/2019	8:22:43 AM	20.482	17.0479	35.3882	1.8088	4.76E-02	0.7286	4.54E+04	7.8503	101.113	20.534	-0.666	-0.03	25.811	0.00E+00
10/12/2019	8:22:05 AM	20.517	17.3528	35.3372	1.7333	4.76E-02	1.17	4.57E+04	7.8043	99.097	20.619	0.918	0.07	25.6863	0.00E+00
10/12/2019	8:22:43 AM	20.647	17.0278	35.3895	2.072	4.76E-02	0.6742	4.53E+04	7.8595	101.205	20.74	-0.658	0.03	25.8173	0.00E+00
10/12/2019	8:22:06 AM	20.751	17.3456	35.3343	1.7325	4.76E-02	1.1684	4.57E+04	7.756	98.324	20.856	0.93	0.05	25.6849	0.00E+00
10/12/2019	8:22:43 AM	20.813	17.0055	35.3864	2.072	4.76E-02	0.6773	4.53E+04	7.855	101.111	20.93	-0.664	0.07	25.8197	0.00E+00
10/12/2019	8:22:42 AM	20.98	16.9832	35.3806	2.0743	4.76E-02	0.682	4.53E+04	7.8666	101.224	21.109	-0.682	0.08	25.8193	0.00E+00
10/12/2019	8:22:06 AM	20.985	17.3369	35.3308	1.7317	4.76E-02	1.1808	4.56E+04	7.704	97.525	21.098	0.94	0.04	25.6835	0.00E+00
10/12/2019	8:22:42 AM	21.146	16.963	35.3743	2.0743	4.76E-02	0.6804	4.53E+04	7.8777	101.346	21.274	-0.702	0.09	25.8176	0.00E+00
10/12/2019	8:22:06 AM	21.219	17.3277	35.3282	1.7233	4.76E-02	1.3207	4.56E+04	7.6449	96.69	21.346	0.951	0.05	25.6833	0.00E+00
10/12/2019	8:22:42 AM	21.311	16.9462	35.3699	2.0743	4.76E-02	0.6835	4.53E+04	7.8709	101.224	21.437	-0.726	0.06	25.8169	0.00E+00
10/12/2019	8:22:06 AM	21.453	17.319	35.3279	1.7203	4.76E-02	1.3161	4.56E+04	7.5768	95.781	21.593	0.961	0.04	25.6851	0.00E+00
10/12/2019	8:22:42 AM	21.477	16.9328	35.3693	1.9499	4.76E-02	0.7768	4.52E+04	7.8675	101.149	21.572	-0.74	0	25.819	0.00E+00
10/12/2019	8:22:41 AM	21.643	16.9216	35.3707	1.9545	4.76E-02	0.7768	4.52E+04	7.8746	101.203	21.724	-0.741	-0.08	25.8228	0.00E+00
10/12/2019	8:22:06 AM	21.686	17.3103	35.3285	1.7211	4.76E-02	1.3207	4.56E+04	7.5032	94.828	21.839	0.967	0.02	25.6878	0.00E+00
10/12/2019	8:22:41 AM	21.812	16.9107	35.3717	1.9515	4.76E-02	0.7752	4.52E+04	7.8717	101.154	21.892	-0.721	-0.19	25.8264	0.00E+00
10/12/2019	8:22:07 AM	21.917	17.3008	35.328	1.7218	4.76E-02	1.3269	4.56E+04	7.4137	93.671	22.066	0.966	0	25.6895	0.00E+00
10/12/2019	8:22:41 AM	21.983	16.8993	35.3715	1.953	4.76E-02	0.7752	4.52E+04	7.8651	101.052	22.104	-0.674	-0.18	25.829	0.00E+00
10/12/2019	8:22:07 AM	22.147	17.2911	35.327	1.8088	4.76E-02	1.6144	4.56E+04	7.3246	92.525	22.264	0.955	-0.05	25.6909	0.00E+00
10/12/2019	8:22:41 AM	22.154	16.8876	35.371	2.1117	4.76E-02	0.8467	4.52E+04	7.8601	100.969	22.295	-0.628	-0.12	25.8313	0.00E+00
10/12/2019	8:22:41 AM	22.325	16.8761	35.3709	2.1079	4.76E-02	0.8467	4.52E+04	7.8484	100.793	22.488	-0.597	-0.08	25.8338	0.00E+00
10/12/2019	8:22:07 AM	22.377	17.2803	35.328	1.8073	4.76E-02	1.6175	4.56E+04	7.2408	91.444	22.475	0.939	-0.07	25.694	0.00E+00
10/12/2019	8:22:40 AM	22.493	16.8649	35.3703	2.1094	4.76E-02	0.856	4.52E+04	7.8354	100.604	22.664	-0.576	-0.07	25.8358	0.00E+00
10/12/2019	8:22:08 AM	22.608	17.2635	35.3274	1.8042	4.76E-02	1.6207	4.56E+04	7.1708	90.533	22.702	0.922	-0.07	25.6958	0.00E+00
10/12/2019	8:22:40 AM	22.657	16.8539	35.3695	2.1071	4.76E-02	0.8529	4.52E+04	7.8228	100.426	22.859	-0.558	-0.06	25.8376	0.00E+00
10/12/2019	8:22:40 AM	22.818	16.8433	35.3698	2.2437	4.76E-02	0.6835	4.52E+04	7.8146	100.301	23.015	-0.545	-0.05	25.8403	0.00E+00
10/12/2019	8:22:08 AM	22.842	17.2336	35.3156	1.808	4.76E-02	1.6191	4.56E+04	7.1164	89.794	22.937	0.908	-0.06	25.6893	0.00E+00
10/12/2019	8:22:39 AM	22.974	16.8331	35.3716	2.2406	4.76E-02	0.6758	4.51E+04	7.8056	100.163	23.19	-0.533	-0.02	25.8446	0.00E+00
10/12/2019	8:22:08 AM	23.077	17.1851	35.2903	1.7829	4.76E-02	1.5414	4.55E+04	7.0719	89.143	23.181	0.901	-0.03	25.6739	0.00E+00
10/12/2019	8:22:39 AM	23.125	16.8224	35.376	2.2383	4.76E-02	0.682	4.51E+04	7.7978	100.046	23.329	-0.527	0.02	25.8514	0.00E+00
10/12/2019	8:22:39 AM	23.271	16.8105	35.3815	2.2414	4.76E-02	0.682	4.51E+04	7.7894	99.929	23.417	-0.531	0	25.8597	0.00E+00
10/12/2019	8:22:08 AM	23.314	17.1162	35.2557	1.7821	4.76E-02	1.5445	4.54E+04	7.0421	88.656	23.426	0.902	0.01	25.6545	0.00E+00
10/12/2019	8:22:39 AM	23.417	16.7961	35.3846	2.2887	4.76E-02	1.0192	4.51E+04	7.7798	99.788	23.537	-0.53	0.05	25.8664	0.00E+00
10/12/2019	8:22:08 AM	23.552	17.0298	35.2187	1.7806	4.76E-02	1.5398	4.53E+04	7.0247	88.308	23.67	0.913	0.04	25.6377	0.00E+00
10/12/2019	8:22:39 AM	23.562	16.779	35.3849	2.2887	4.76E-02	1.0223	4.51E+04	7.7787	99.742	23.714	-0.542	0.12	25.8708	0.00E+00
10/12/2019	8:22:38 AM	23.706	16.7606	35.3836	2.2895	4.76E-02	1.0239	4.51E+04	7.774	99.618	23.863	-0.571	0.14	25.8739	0.00E+00
10/12/2019	8:22:09 AM	23.791	16.9339	35.1886	1.7859	4.76E-02	1.5429	4.52E+04	7.0017	87.913	23.911	0.932	0.07	25.6311	0.00E+00
10/12/2019	8:22:38 AM	23.849	16.7424	35.3832	2.2917	4.76E-02	1.0192	4.51E+04	7.7724	99.552	24.002	-0.606	0.12	25.8777	0.00E+00
10/12/2019	8:22:38 AM	23.991	16.7252	35.3856	2.2917	4.76E-02	1.0254	4.50E+04	7.7651	99.389	24.107	-0.637	0.1	25.8839	0.00E+00
10/12/2019	8:22:09 AM	24.031	16.8394	35.1762	1.779	4.76E-02	1.5383	4.51E+04	6.9771	87.517	24.151	0.952	0.08	25.6421	0.00E+00

10/12/2019	8:22:37 AM	24.134	16.7081	35.3912	2.011	4.76E-02	1.1171	4.50E+04	7.7657	99.367	24.229	-0.661	0.06	25.8933	0.00E+00
10/12/2019	8:22:09 AM	24.271	16.753	35.185	1.8569	4.76E-02	1.515	4.51E+04	6.9398	86.977	24.391	0.963	0.04	25.6718	0.00E+00
10/12/2019	8:22:37 AM	24.28	16.6896	35.4005	2.0125	4.76E-02	1.1233	4.50E+04	7.7664	99.341	24.338	-0.677	0.03	25.9067	0.00E+00
10/12/2019	8:22:37 AM	24.43	16.6677	35.4102	2.0148	4.76E-02	1.1202	4.50E+04	7.7667	99.339	24.488	-0.684	0	25.9216	0.00E+00
10/12/2019	8:22:09 AM	24.513	16.6739	35.2035	1.8576	4.76E-02	1.5227	4.50E+04	6.8779	86.151	24.63	0.967	0.01	25.7083	0.00E+00
10/12/2019	8:22:37 AM	24.584	16.641	35.4174	2.0095	4.76E-02	1.128	4.50E+04	7.7657	99.315	24.652	-0.685	0.01	25.9353	0.00E+00
10/12/2019	8:22:37 AM	24.743	16.6095	35.4229	1.9766	4.76E-02	0.7286	4.49E+04	7.7674	99.321	24.853	-0.687	0.05	25.9484	0.00E+00
10/12/2019	8:22:10 AM	24.756	16.5993	35.2182	1.8538	4.76E-02	1.515	4.49E+04	6.7959	85.066	24.873	0.967	0	25.7401	0.00E+00
10/12/2019	8:22:36 AM	24.904	16.5746	35.4314	1.9751	4.76E-02	0.7317	4.49E+04	7.7667	99.283	25.029	-0.7	0.06	25.9649	0.00E+00
10/12/2019	8:22:10 AM	25	16.528	35.2269	1.8538	4.76E-02	1.5134	4.48E+04	6.6984	83.801	25.12	0.967	0	25.7655	0.00E+00
10/12/2019	8:22:36 AM	25.065	16.5367	35.4459	1.9774	4.76E-02	0.7286	4.49E+04	7.7701	99.306	25.193	-0.714	0.01	25.9877	0.00E+00
10/12/2019	8:22:36 AM	25.228	16.4942	35.4621	1.9721	4.76E-02	0.7302	4.48E+04	7.7725	99.311	25.335	-0.716	-0.07	26.0137	0.00E+00
10/12/2019	8:22:10 AM	25.245	16.462	35.2338	2.2544	4.76E-02	1.0317	4.48E+04	6.5991	82.489	25.372	0.969	0.01	25.7883	0.00E+00
10/12/2019	8:22:36 AM	25.393	16.4443	35.4745	1.8805	4.76E-02	0.9959	4.48E+04	7.7765	99.344	25.512	-0.697	-0.12	26.038	0.00E+00
10/12/2019	8:22:11 AM	25.491	16.4058	35.246	2.2528	4.76E-02	1.0208	4.47E+04	6.5047	81.231	25.624	0.975	0.02	25.8144	0.00E+00
10/12/2019	8:22:35 AM	25.559	16.3864	35.4776	1.8836	4.76E-02	1.0052	4.47E+04	7.7758	99.311	25.681	-0.667	-0.16	26.0552	0.00E+00
10/12/2019	8:22:35 AM	25.725	16.323	35.4709	1.879	4.76E-02	1.0021	4.46E+04	7.7764	99.302	25.874	-0.628	-0.15	26.0636	0.00E+00
10/12/2019	8:22:11 AM	25.738	16.362	35.2676	2.2544	4.76E-02	1.0254	4.47E+04	6.4211	80.093	25.88	0.983	0.03	25.8465	0.00E+00
10/12/2019	8:22:35 AM	25.892	16.2593	35.4589	1.8798	4.76E-02	0.9944	4.46E+04	7.7743	99.262	26.047	-0.592	-0.12	26.0666	0.00E+00
10/12/2019	8:22:11 AM	25.985	16.329	35.2928	2.2551	4.76E-02	1.0285	4.46E+04	6.3536	79.167	26.141	0.994	0.04	25.879	0.00E+00
10/12/2019	8:22:34 AM	26.058	16.2003	35.4483	1.9416	4.76E-02	0.7752	4.45E+04	7.7687	99.176	26.239	-0.562	-0.04	26.0693	0.00E+00
10/12/2019	8:22:34 AM	26.221	16.1478	35.4408	1.9416	4.76E-02	0.7768	4.45E+04	7.7623	99.073	26.423	-0.551	0.04	26.0734	0.00E+00
10/12/2019	8:22:11 AM	26.231	16.3027	35.3127	2.0026	4.76E-02	0.8001	4.46E+04	6.3052	78.484	26.4	1.006	0.05	25.9046	0.00E+00
10/12/2019	8:22:34 AM	26.382	16.1008	35.4313	1.9408	4.76E-02	0.7706	4.44E+04	7.7502	98.896	26.6	-0.56	0.11	26.0746	0.00E+00
10/12/2019	8:22:11 AM	26.476	16.2797	35.3246	1.9972	4.76E-02	0.7954	4.46E+04	6.2691	77.964	26.647	1.013	0.03	25.9214	0.00E+00
10/12/2019	8:22:34 AM	26.538	16.0581	35.4179	1.9416	4.76E-02	0.7737	4.44E+04	7.7351	98.646	26.742	-0.587	0.13	26.0712	0.00E+00
10/12/2019	8:22:34 AM	26.691	16.021	35.4061	1.94	4.76E-02	0.783	4.43E+04	7.7075	98.26	26.875	-0.619	0.12	26.0677	0.00E+00
10/12/2019	8:22:12 AM	26.719	16.2571	35.3301	2.0003	4.76E-02	0.8001	4.46E+04	6.243	77.584	26.893	1.016	0.01	25.9317	0.00E+00
10/12/2019	8:22:33 AM	26.842	15.9911	35.4021	1.1244	4.76E-02	0.2049	4.43E+04	7.666	97.691	26.994	-0.65	0.07	26.0698	0.00E+00
10/12/2019	8:22:12 AM	26.961	16.2322	35.3302	2.0011	4.76E-02	0.8017	4.46E+04	6.2065	77.095	27.123	1.009	-0.03	25.9371	0.00E+00
10/12/2019	8:22:33 AM	26.993	15.9669	35.4051	1.1275	4.76E-02	0.2002	4.43E+04	7.6146	97.014	27.121	-0.668	0.03	26.0775	0.00E+00
10/12/2019	8:22:33 AM	27.145	15.9445	35.4096	1.1313	4.76E-02	0.2018	4.43E+04	7.5526	96.208	27.251	-0.676	0	26.0869	0.00E+00
10/12/2019	8:22:12 AM	27.203	16.2018	35.3244	1.8393	4.76E-02	0.3463	4.45E+04	6.1658	76.572	27.347	0.995	-0.06	25.9379	0.00E+00
10/12/2019	8:22:32 AM	27.3	15.9205	35.4119	1.126	4.76E-02	0.208	4.42E+04	7.4797	95.248	27.403	-0.677	-0.03	26.0949	0.00E+00
10/12/2019	8:22:13 AM	27.444	16.1631	35.3124	1.8408	4.76E-02	0.351	4.45E+04	6.1166	75.951	27.582	0.979	-0.06	25.9344	0.00E+00
10/12/2019	8:22:32 AM	27.457	15.8943	35.4122	0.9429	4.76E-02	0.1536	4.42E+04	7.3942	94.129	27.572	-0.668	-0.04	26.1014	0.00E+00
10/12/2019	8:22:32 AM	27.617	15.8672	35.4124	0.9459	4.76E-02	0.1536	4.42E+04	7.3072	92.967	27.75	-0.658	-0.03	26.1079	0.00E+00
10/12/2019	8:22:13 AM	27.687	16.1159	35.2956	1.8447	4.76E-02	0.3541	4.45E+04	6.0488	75.104	27.817	0.963	-0.07	25.9286	0.00E+00
10/12/2019	8:22:32 AM	27.778	15.8399	35.4135	0.9459	4.76E-02	0.1505	4.42E+04	7.2096	91.649	27.927	-0.649	0	26.1152	0.00E+00
10/12/2019	8:22:13 AM	27.931	16.0629	35.2792	1.8424	4.76E-02	0.3556	4.44E+04	5.9914	74.388	28.065	0.951	-0.05	25.9249	0.00E+00
10/12/2019	8:22:32 AM	27.94	15.8123	35.4155	0.9451	4.76E-02	0.1552	4.41E+04	7.1125	90.37	28.104	-0.648	-0.01	26.1234	0.00E+00
10/12/2019	8:22:31 AM	28.101	15.7839	35.4193	0.923	4.76E-02	0.18	4.41E+04	7.0218	89.139	28.268	-0.645	-0.03	26.1337	0.00E+00
10/12/2019	8:22:13 AM	28.177	16.0083	35.2688	1.8424	4.76E-02	0.3448	4.43E+04	5.9331	73.662	28.312	0.947	-0.02	25.9278	0.00E+00
10/12/2019	8:22:31 AM	28.262	15.7541	35.424	0.9207	4.76E-02	0.1831	4.41E+04	6.9403	88.078	28.425	-0.637	-0.07	26.1452	0.00E+00
10/12/2019	8:22:31 AM	28.422	15.7218	35.4252	0.92	4.76E-02	0.1862	4.40E+04	6.8698	87.055	28.583	-0.619	-0.07	26.1541	0.00E+00
10/12/2019	8:22:13 AM	28.423	15.9566	35.2672	1.7104	4.76E-02	0.2049	4.43E+04	5.885	73.064	28.563	0.952	0.02	25.9387	0.00E+00
10/12/2019	8:22:30 AM	28.582	15.6871	35.4239	0.9207	4.76E-02	0.18	4.40E+04	6.8103	86.206	28.759	-0.601	-0.05	26.1609	0.00E+00
10/12/2019	8:22:14 AM	28.671	15.9098	35.2736	1.7104	4.76E-02	0.2096	4.42E+04	5.8429	72.542	28.814	0.961	0.04	25.9561	0.00E+00
10/12/2019	8:22:30 AM	28.742	15.6519	35.4236	0.8269	4.76E-02	0.1318	4.40E+04	6.7615	85.42	28.913	-0.588	-0.01	26.1686	0.00E+00
10/12/2019	8:22:30 AM	28.901	15.6172	35.4209	0.8276	4.76E-02	0.1381	4.39E+04	6.7201	84.798	29.07	-0.585	0.03	26.1741	0.00E+00
10/12/2019	8:22:14 AM	28.92	15.8674	35.2825	1.7096	4.76E-02	0.2002	4.42E+04	5.8203	72.265	29.063	0.974	0.05	25.9749	0.00E+00

10/12/2019	8:22:30 AM	29.059	15.5824	35.4122	0.8269	4.76E-02	0.1303	4.39E+04	6.6856	84.243	29.23	-0.592	0.09	26.174	0.00E+00
10/12/2019	8:22:14 AM	29.171	15.828	35.2896	1.7104	4.76E-02	0.2033	4.42E+04	5.8075	72.113	29.303	0.984	0.04	25.9911	0.00E+00
10/12/2019	8:22:30 AM	29.216	15.549	35.401	0.8299	4.76E-02	0.1318	4.39E+04	6.6482	83.713	29.407	-0.614	0.13	26.1707	0.00E+00
10/12/2019	8:22:29 AM	29.373	15.5197	35.3903	0.8284	4.76E-02	0.1396	4.38E+04	6.6052	83.093	29.548	-0.647	0.11	26.1667	0.00E+00
10/12/2019	8:22:15 AM	29.423	15.7895	35.2936	1.1138	4.76E-02	0.3261	4.41E+04	5.8022	72.05	29.543	0.987	0.01	26.0038	0.00E+00
10/12/2019	8:22:29 AM	29.529	15.4959	35.3809	0.6834	4.76E-02	0.1381	4.38E+04	6.5664	82.54	29.687	-0.675	0.09	26.1627	0.00E+00
10/12/2019	8:22:15 AM	29.678	15.7495	35.2932	1.1176	4.76E-02	0.3277	4.41E+04	5.8084	72.13	29.804	0.991	0.02	26.0125	0.00E+00
10/12/2019	8:22:29 AM	29.685	15.4772	35.3744	0.6865	4.76E-02	0.1381	4.38E+04	6.532	82.035	29.805	-0.698	0.04	26.1602	0.00E+00
10/12/2019	8:22:29 AM	29.844	15.4629	35.3718	0.6857	4.76E-02	0.1303	4.38E+04	6.4966	81.57	29.954	-0.707	0.03	26.1606	0.00E+00
10/12/2019	8:22:15 AM	29.935	15.7063	35.2881	1.113	4.76E-02	0.3308	4.40E+04	5.8152	72.216	30.068	0.996	0.02	26.0173	0.00E+00
10/12/2019	8:22:28 AM	30.006	15.4513	35.3713	0.6865	4.76E-02	0.1381	4.38E+04	6.4618	81.119	30.096	-0.714	0	26.1626	0.00E+00
10/12/2019	8:22:28 AM	30.173	15.4406	35.3693	0.6598	4.76E-02	0.0961	4.38E+04	6.4288	80.69	30.275	-0.714	0.06	26.1632	0.00E+00
10/12/2019	8:22:15 AM	30.195	15.6599	35.28	1.1107	4.76E-02	0.3308	4.40E+04	5.8253	72.344	30.334	1.004	0.03	26.0201	0.00E+00
10/12/2019	8:22:28 AM	30.344	15.43	35.365	0.6613	4.76E-02	0.0883	4.37E+04	6.3953	80.221	30.456	-0.731	0.09	26.1616	0.00E+00
10/12/2019	8:22:16 AM	30.456	15.6124	35.2729	0.9444	4.76E-02	0.3261	4.39E+04	5.8306	72.413	30.612	1.018	0.06	26.0244	0.00E+00
10/12/2019	8:22:27 AM	30.519	15.4205	35.3603	0.6628	4.76E-02	0.0945	4.37E+04	6.3515	79.627	30.662	-0.753	0.15	26.159	0.00E+00
10/12/2019	8:22:27 AM	30.695	15.4133	35.3566	0.6628	4.76E-02	0.0961	4.37E+04	6.303	78.97	30.837	-0.791	0.15	26.1569	0.00E+00
10/12/2019	8:22:16 AM	30.718	15.5667	35.2707	0.9451	4.76E-02	0.3277	4.39E+04	5.8517	72.676	30.894	1.037	0.08	26.0333	0.00E+00
10/12/2019	8:22:27 AM	30.874	15.4083	35.3542	0.5423	4.76E-02	0.18	4.37E+04	6.2526	78.303	31	-0.828	0.13	26.1556	0.00E+00
10/12/2019	8:22:16 AM	30.981	15.5248	35.2738	0.9429	4.76E-02	0.3246	4.38E+04	5.858	72.755	31.164	1.057	0.08	26.0464	0.00E+00
10/12/2019	8:22:27 AM	31.055	15.4052	35.3528	0.5392	4.76E-02	0.18	4.37E+04	6.2029	77.637	31.17	-0.86	0.09	26.1548	0.00E+00
10/12/2019	8:22:27 AM	31.24	15.4031	35.3519	0.54	4.76E-02	0.1785	4.37E+04	6.1549	77.005	31.343	-0.882	0.02	26.1543	0.00E+00
10/12/2019	8:22:16 AM	31.242	15.4883	35.2806	0.9429	4.76E-02	0.3323	4.38E+04	5.8698	72.901	31.435	1.074	0.07	26.0619	0.00E+00
10/12/2019	8:22:26 AM	31.43	15.4017	35.3511	0.5392	4.76E-02	0.1785	4.37E+04	6.1034	76.306	31.533	-0.888	0.01	26.1538	0.00E+00
10/12/2019	8:22:16 AM	31.502	15.4589	35.2904	0.8269	4.76E-02	0.1334	4.38E+04	5.8791	73.017	31.705	1.086	0.05	26.079	0.00E+00
10/12/2019	8:22:26 AM	31.624	15.4008	35.3502	0.5751	4.76E-02	0.2608	4.37E+04	6.066	75.797	31.723	-0.89	-0.03	26.153	0.00E+00
10/12/2019	8:22:17 AM	31.761	15.4371	35.3036	0.8276	4.76E-02	0.1303	4.37E+04	5.8822	73.057	31.976	1.09	0.02	26.0974	0.00E+00
10/12/2019	8:22:26 AM	31.822	15.4004	35.3494	0.5782	4.76E-02	0.2531	4.37E+04	6.0362	75.352	31.967	-0.884	-0.01	26.1523	0.00E+00
10/12/2019	8:22:17 AM	32.017	15.422	35.3176	0.8284	4.76E-02	0.1303	4.37E+04	5.89	73.153	32.247	1.091	0	26.1147	0.00E+00
10/12/2019	8:22:25 AM	32.023	15.4005	35.3487	0.5766	4.76E-02	0.2608	4.37E+04	6.0093	74.972	32.188	-0.882	0.01	26.1516	0.00E+00
10/12/2019	8:22:25 AM	32.224	15.401	35.3479	0.5782	4.76E-02	0.2562	4.37E+04	5.9801	74.55	32.42	-0.884	-0.09	26.1507	0.00E+00
10/12/2019	8:22:17 AM	32.27	15.4117	35.3291	0.8276	4.76E-02	0.1318	4.37E+04	5.8929	73.192	32.522	1.091	0	26.1285	0.00E+00
10/12/2019	8:22:25 AM	32.424	15.4019	35.347	0.5774	4.76E-02	0.2546	4.37E+04	5.9607	74.255	32.639	-0.862	-0.26	26.1496	0.00E+00
10/12/2019	8:22:18 AM	32.518	15.405	35.3375	0.8292	4.76E-02	0.135	4.37E+04	5.8913	73.171	32.799	1.089	-0.01	26.1384	0.00E+00
10/12/2019	8:22:25 AM	32.623	15.4032	35.3462	0.5866	4.76E-02	0.4271	4.37E+04	5.9445	73.978	32.862	-0.797	-0.35	26.1485	0.00E+00
10/12/2019	8:22:18 AM	32.761	15.4008	35.3434	0.5751	4.76E-02	0.135	4.37E+04	5.8906	73.164	33.072	1.089	0	26.1452	0.00E+00
10/12/2019	8:22:25 AM	32.818	15.405	35.346	0.5888	4.76E-02	0.4302	4.37E+04	5.9299	73.763	33.082	-0.71	-0.38	26.1478	0.00E+00
10/12/2019	8:22:18 AM	32.995	15.3984	35.3475	0.5751	4.76E-02	0.135	4.37E+04	5.8918	73.182	33.35	1.092	0.01	26.1499	0.00E+00
10/12/2019	8:22:24 AM	33.008	15.4072	35.3465	0.5896	4.76E-02	0.4287	4.37E+04	5.9172	73.571	33.281	-0.615	-0.42	26.1477	0.00E+00
10/12/2019	8:22:24 AM	33.192	15.4094	35.3474	0.5896	4.76E-02	0.4318	4.37E+04	5.9081	73.444	33.518	-0.512	-0.39	26.148	0.00E+00
10/12/2019	8:22:18 AM	33.218	15.3975	35.3506	0.5782	4.76E-02	0.135	4.37E+04	5.893	73.198	33.625	1.096	0.01	26.1532	0.00E+00
10/12/2019	8:22:24 AM	33.367	15.4114	35.3482	0.611	4.76E-02	0.3494	4.37E+04	5.9012	73.345	33.743	-0.414	-0.35	26.1484	0.00E+00
10/12/2019	8:22:18 AM	33.427	15.398	35.3531	0.5759	4.76E-02	0.1287	4.37E+04	5.9	73.284	33.893	1.097	0	26.1558	0.00E+00
10/12/2019	8:22:23 AM	33.531	15.4131	35.3493	0.6133	4.76E-02	0.3479	4.37E+04	5.8973	73.293	33.961	-0.326	-0.31	26.149	0.00E+00
10/12/2019	8:22:19 AM	33.619	15.3994	35.3553	0.5881	4.76E-02	0.2577	4.37E+04	5.8973	73.248	34.165	1.097	0	26.1577	0.00E+00
10/12/2019	8:22:23 AM	33.679	15.4143	35.3506	0.6125	4.76E-02	0.3572	4.37E+04	5.8945	73.241	34.196	-0.248	-0.19	26.15	0.00E+00
10/12/2019	8:22:19 AM	33.788	15.4013	35.3569	0.5904	4.76E-02	0.2577	4.37E+04	5.898	73.254	34.444	1.097	0	26.1588	0.00E+00
10/12/2019	8:22:23 AM	33.809	15.4151	35.3517	0.6102	4.76E-02	0.351	4.37E+04	5.8904	73.168	34.315	-0.2	-0.16	26.151	0.00E+00
10/12/2019	8:22:23 AM	33.919	15.4152	35.3522	0.6384	4.76E-02	0.4784	4.37E+04	5.888	73.121	34.357	-0.16	-0.2	26.1515	0.00E+00
10/12/2019	8:22:19 AM	33.93	15.4032	35.3576	0.5873	4.76E-02	0.25	4.37E+04	5.9002	73.278	34.629	1.073	-0.1	26.159	0.00E+00
10/12/2019	8:22:23 AM	34.014	15.4148	35.3523	0.6392	4.76E-02	0.4753	4.37E+04	5.8832	73.054	34.425	-0.109	-0.19	26.1517	0.00E+00

10/12/2019	8:22:20 AM	34.041	15.4049	35.3574	0.585	4.76E-02	0.2515	4.37E+04	5.9005	73.276	34.666	0.991	-0.33	26.1584	0.00E+00
10/12/2019	8:22:22 AM	34.094	15.4142	35.3524	0.6384	4.76E-02	0.48	4.37E+04	5.881	73.025	34.512	-0.061	-0.14	26.152	0.00E+00
10/12/2019	8:22:20 AM	34.126	15.4065	35.3566	0.614	4.76E-02	0.7069	4.37E+04	5.8962	73.219	34.667	0.859	-0.53	26.1574	0.00E+00
10/12/2019	8:22:22 AM	34.16	15.4136	35.3526	0.6369	4.76E-02	0.48	4.37E+04	5.8786	72.995	34.587	-0.025	-0.08	26.1523	0.00E+00
10/12/2019	8:22:20 AM	34.189	15.408	35.356	0.6133	4.76E-02	0.6975	4.37E+04	5.8948	73.197	34.667	0.694	-0.66	26.1566	0.00E+00
10/12/2019	8:22:22 AM	34.212	15.413	35.3529	0.6728	4.76E-02	0.6758	4.37E+04	5.8774	72.979	34.641	-0.004	-0.03	26.1526	0.00E+00
10/12/2019	8:22:20 AM	34.233	15.4093	35.3555	0.611	4.76E-02	0.7053	4.37E+04	5.8902	73.139	34.666	0.514	-0.72	26.1558	0.00E+00
10/12/2019	8:22:22 AM	34.249	15.4124	35.3529	0.6728	4.76E-02	0.682	4.37E+04	5.8789	72.996	34.675	0.004	-0.03	26.1527	0.00E+00
10/12/2019	8:22:20 AM	34.262	15.4102	35.3548	0.6133	4.76E-02	0.7037	4.37E+04	5.8872	73.1	34.667	0.339	-0.7	26.1549	0.00E+00
10/12/2019	8:22:21 AM	34.271	15.4118	35.3529	0.672	4.76E-02	0.6804	4.37E+04	5.8768	72.969	34.674	0.013	-0.22	26.1528	0.00E+00
10/12/2019	8:22:21 AM	34.278	15.4108	35.3539	0.6728	4.76E-02	0.6804	4.37E+04	5.8878	73.106	34.669	0.184	-0.62	26.1539	0.00E+00
10/12/2019	8:22:21 AM	34.281	15.4113	35.3532	0.6705	4.76E-02	0.6789	4.37E+04	5.8826	73.041	34.671	0.068	-0.46	26.1532	0.00E+00

TRANSECT 1 - 750 m

DD MMM YYYY HH:MM:SS	DD MMM YYYY HH:MM:SS	DepSM	Tv290C	Sal00	FlECO-AFL	Par	TurbWETntu0	C0uS/cm	Sbeox0Mg/L	Sbeox0PS	PrdM	Dz/dtM	AccM	Sigma-t00	Flag
10/12/2019	8:29:11 AM	0.566	17.9898	35.3263	0.3607	4.76E-02	0.5825	4.63E+04	7.9736	104.051	0.316	-0.451	0.01	25.5248	0.00E+00
10/12/2019	8:29:11 AM	0.568	17.9902	35.3265	0.36	4.76E-02	0.5794	4.63E+04	7.9743	104.054	0.287	-0.4	0.2	25.5248	0.00E+00
10/12/2019	8:29:11 AM	0.58	17.9894	35.326	0.3584	4.76E-02	0.5887	4.63E+04	7.9757	104.083	0.354	-0.452	-0.16	25.5246	0.00E+00
10/12/2019	8:29:11 AM	0.588	17.9905	35.3265	0.36	4.76E-02	0.626	4.63E+04	7.9743	104.053	0.279	-0.307	0.37	25.5247	0.00E+00
10/12/2019	8:29:12 AM	0.627	17.9906	35.3263	0.3355	4.76E-02	0.6369	4.63E+04	7.9789	104.112	0.295	-0.203	0.41	25.5244	0.00E+00
10/12/2019	8:29:12 AM	0.687	17.9906	35.3261	0.3378	4.76E-02	0.6354	4.63E+04	7.9789	104.116	0.375	-0.101	0.41	25.5242	0.00E+00
10/12/2019	8:29:12 AM	0.765	17.9906	35.326	0.3348	4.76E-02	0.6307	4.63E+04	7.9811	104.147	0.484	-0.006	0.38	25.5241	0.00E+00
10/12/2019	8:29:13 AM	0.862	17.9905	35.3261	0.3317	4.76E-02	0.6338	4.63E+04	7.9802	104.138	0.583	0.085	0.36	25.5242	0.00E+00
10/12/2019	8:29:13 AM	0.977	17.9905	35.3263	0.3218	4.76E-02	0.6369	4.63E+04	7.9791	104.129	0.701	0.178	0.37	25.5243	0.00E+00
10/12/2019	8:30:35 AM	1.099	17.9645	35.3274	0.405	4.76E-02	0.6307	4.62E+04	7.3925	96.383	0.895	-0.812	-0.05	25.5323	0.00E+00
10/12/2019	8:29:13 AM	1.109	17.9906	35.3264	0.3233	4.76E-02	0.6338	4.63E+04	7.9835	104.185	0.832	0.273	0.38	25.5244	0.00E+00
10/12/2019	8:29:13 AM	1.259	17.9908	35.3265	0.3203	4.76E-02	0.6292	4.63E+04	7.9799	104.122	0.994	0.367	0.37	25.5245	0.00E+00
10/12/2019	8:30:35 AM	1.262	17.9633	35.3287	0.4073	4.76E-02	0.6292	4.62E+04	8.4181	97.829	1.108	-0.799	0.01	25.5337	0.00E+00
10/12/2019	8:29:13 AM	1.425	17.9911	35.3266	0.3233	4.76E-02	0.6323	4.63E+04	7.9805	104.113	1.203	0.461	0.38	25.5245	0.00E+00
10/12/2019	8:30:34 AM	1.435	17.9618	35.3298	0.4332	4.76E-02	0.6556	4.62E+04	8.4698	99.325	1.303	-0.802	0.04	25.5351	0.00E+00
10/12/2019	8:29:14 AM	1.606	17.9916	35.3268	0.3226	4.76E-02	0.6323	4.63E+04	7.9765	104.045	1.418	0.549	0.35	25.5246	0.00E+00
10/12/2019	8:30:34 AM	1.616	17.9601	35.3307	0.4301	4.76E-02	0.6587	4.62E+04	8.3983	100.77	1.552	-0.81	0.1	25.5364	0.00E+00
10/12/2019	8:29:14 AM	1.798	17.992	35.3268	0.321	4.76E-02	0.6292	4.63E+04	7.969	103.939	1.653	0.63	0.32	25.5246	0.00E+00
10/12/2019	8:30:34 AM	1.802	17.958	35.3317	0.4332	4.76E-02	0.6587	4.62E+04	7.832	102.137	1.771	-0.836	0.15	25.5379	0.00E+00
10/12/2019	8:30:33 AM	1.991	17.9555	35.3324	0.434	4.76E-02	0.6556	4.62E+04	7.9085	103.143	1.97	-0.873	0.14	25.5392	0.00E+00
10/12/2019	8:29:14 AM	2	17.992	35.3265	0.3241	4.76E-02	0.6385	4.63E+04	7.9647	103.872	1.913	0.715	0.34	25.5242	0.00E+00
10/12/2019	8:30:33 AM	2.182	17.9525	35.3324	0.5186	4.76E-02	0.5561	4.62E+04	7.9579	103.794	2.155	-0.907	0.1	25.5399	0.00E+00
10/12/2019	8:29:14 AM	2.208	17.9914	35.3255	0.3256	4.76E-02	0.6323	4.63E+04	7.9649	103.873	2.168	0.803	0.35	25.5234	0.00E+00
10/12/2019	8:30:33 AM	2.376	17.9494	35.3317	0.5171	4.76E-02	0.5514	4.62E+04	7.9831	104.125	2.31	-0.933	-0.04	25.5399	0.00E+00
10/12/2019	8:29:15 AM	2.42	17.9902	35.3242	0.3348	4.76E-02	0.6043	4.63E+04	7.9607	103.814	2.425	0.879	0.31	25.5224	0.00E+00
10/12/2019	8:30:33 AM	2.575	17.9464	35.3312	0.5186	4.76E-02	0.5623	4.62E+04	7.9949	104.287	2.507	-0.924	-0.15	25.5401	0.00E+00
10/12/2019	8:29:15 AM	2.632	17.9885	35.3233	0.3355	4.76E-02	0.6121	4.63E+04	7.9664	103.889	2.667	0.937	0.23	25.5218	0.00E+00
10/12/2019	8:30:33 AM	2.778	17.9439	35.3315	0.5179	4.76E-02	0.5654	4.62E+04	7.9989	104.344	2.728	-0.886	-0.14	25.5409	0.00E+00
10/12/2019	8:29:15 AM	2.844	17.9867	35.3227	0.3363	4.76E-02	0.6074	4.63E+04	7.9717	103.969	2.886	0.966	0.11	25.5217	0.00E+00
10/12/2019	8:30:32 AM	2.985	17.9417	35.3322	0.5873	4.76E-02	0.5328	4.62E+04	8.001	104.374	2.974	-0.85	-0.2	25.5422	0.00E+00
10/12/2019	8:29:16 AM	3.054	17.9847	35.3224	0.3355	4.76E-02	0.6027	4.63E+04	7.979	104.075	3.091	0.967	0	25.5219	0.00E+00
10/12/2019	8:30:32 AM	3.194	17.9393	35.332	0.5911	4.76E-02	0.5312	4.62E+04	8.0072	104.456	3.221	-0.8	-0.25	25.5426	0.00E+00
10/12/2019	8:29:16 AM	3.262	17.9829	35.3224	0.3348	4.76E-02	0.4349	4.63E+04	7.9869	104.192	3.3	0.953	-0.06	25.5224	0.00E+00
10/12/2019	8:30:32 AM	3.402	17.9366	35.3304	0.5927	4.76E-02	0.5375	4.62E+04	8.0112	104.51	3.453	-0.739	-0.2	25.5417	0.00E+00
10/12/2019	8:29:16 AM	3.47	17.9815	35.323	0.3821	4.76E-02	0.4038	4.63E+04	7.9911	104.237	3.507	0.926	-0.11	25.5233	0.00E+00
10/12/2019	8:30:31 AM	3.608	17.9343	35.329	0.5858	4.76E-02	0.5297	4.62E+04	8.0151	104.563	3.698	-0.689	-0.14	25.5408	0.00E+00
10/12/2019	8:29:16 AM	3.676	17.9808	35.324	0.3851	4.76E-02	0.4038	4.63E+04	7.997	104.294	3.708	0.892	-0.14	25.5245	0.00E+00
10/12/2019	8:30:31 AM	3.81	17.933	35.3295	0.5866	4.76E-02	0.5281	4.62E+04	8.0124	104.531	3.92	-0.655	-0.1	25.5414	0.00E+00
10/12/2019	8:29:16 AM	3.882	17.9806	35.3252	0.3821	4.76E-02	0.396	4.63E+04	7.9975	104.275	3.92	0.864	-0.11	25.5258	0.00E+00
10/12/2019	8:30:31 AM	4.006	17.9323	35.3313	0.6148	4.76E-02	0.5499	4.62E+04	8.0097	104.499	4.145	-0.63	-0.01	25.5433	0.00E+00
10/12/2019	8:29:17 AM	4.086	17.9807	35.3262	0.3836	4.76E-02	0.4085	4.63E+04	7.9945	104.21	4.117	0.839	-0.1	25.5267	0.00E+00
10/12/2019	8:30:31 AM	4.196	17.9313	35.3332	0.6117	4.76E-02	0.5546	4.62E+04	8.0072	104.465	4.318	-0.627	-0.01	25.5455	0.00E+00
10/12/2019	8:29:17 AM	4.291	17.9808	35.3268	0.4088	4.76E-02	0.3572	4.63E+04	7.9876	104.106	4.281	0.815	-0.1	25.5272	0.00E+00
10/12/2019	8:30:31 AM	4.38	17.9292	35.3343	0.6125	4.76E-02	0.553	4.62E+04	7.9985	104.347	4.466	-0.624	-0.02	25.5472	0.00E+00
10/12/2019	8:29:17 AM	4.498	17.9804	35.3267	0.408	4.76E-02	0.3541	4.63E+04	7.9819	104.027	4.434	0.787	-0.11	25.5271	0.00E+00
10/12/2019	8:30:30 AM	4.558	17.9262	35.3346	0.614	4.76E-02	0.5499	4.62E+04	7.9941	104.284	4.685	-0.62	0.09	25.5482	0.00E+00
10/12/2019	8:29:18 AM	4.71	17.9788	35.3259	0.4065	4.76E-02	0.3603	4.63E+04	7.9781	103.978	4.606	0.761	-0.11	25.5264	0.00E+00
10/12/2019	8:30:30 AM	4.732	17.9228	35.3341	0.685	4.76E-02	0.6276	4.62E+04	7.9906	104.236	4.814	-0.641	0.06	25.5486	0.00E+00
10/12/2019	8:30:30 AM	4.903	17.9194	35.3332	0.685	4.76E-02	0.6292	4.62E+04	7.9913	104.245	4.923	-0.657	0.08	25.5484	0.00E+00
10/12/2019	8:29:18 AM	4.93	17.9756	35.3242	0.4103	4.76E-02	0.3572	4.63E+04	7.9733	103.909	4.81	0.743	-0.07	25.5252	0.00E+00

10/12/2019	8:30:29 AM	5.073	17.9164	35.332	0.688	4.76E-02	0.626	4.62E+04	7.9907	104.234	5.101	-0.676	0.15	25.548	0.00E+00
10/12/2019	8:29:18 AM	5.158	17.9708	35.3215	0.4439	4.76E-02	0.525	4.63E+04	7.9691	103.843	5.037	0.741	-0.01	25.5236	0.00E+00
10/12/2019	8:30:29 AM	5.243	17.9142	35.3313	0.6865	4.76E-02	0.6323	4.62E+04	7.9902	104.224	5.267	-0.714	0.17	25.5477	0.00E+00
10/12/2019	8:29:18 AM	5.396	17.9653	35.3192	0.4446	4.76E-02	0.5344	4.62E+04	7.9602	103.716	5.282	0.757	0.06	25.5226	0.00E+00
10/12/2019	8:30:29 AM	5.414	17.9126	35.3312	0.7208	4.76E-02	0.4582	4.62E+04	7.9863	104.169	5.418	-0.757	0.12	25.5479	0.00E+00
10/12/2019	8:30:29 AM	5.586	17.9114	35.3315	0.7193	4.76E-02	0.4551	4.62E+04	7.9809	104.093	5.592	-0.787	0.07	25.5484	0.00E+00
10/12/2019	8:29:18 AM	5.643	17.9604	35.3192	0.4454	4.76E-02	0.5328	4.62E+04	7.9564	103.663	5.541	0.791	0.14	25.5238	0.00E+00
10/12/2019	8:30:29 AM	5.76	17.9103	35.332	0.7216	4.76E-02	0.4535	4.62E+04	7.9773	104.038	5.739	-0.804	0.02	25.5492	0.00E+00
10/12/2019	8:29:19 AM	5.898	17.9566	35.321	0.4462	4.76E-02	0.5266	4.62E+04	7.9563	103.659	5.818	0.847	0.23	25.5265	0.00E+00
10/12/2019	8:30:28 AM	5.937	17.909	35.3324	0.7224	4.76E-02	0.4598	4.62E+04	7.971	103.946	5.902	-0.808	-0.04	25.55	0.00E+00
10/12/2019	8:30:28 AM	6.118	17.9074	35.3328	0.7689	4.76E-02	0.5002	4.62E+04	7.9684	103.907	6.084	-0.797	-0.06	25.5507	0.00E+00
10/12/2019	8:29:19 AM	6.16	17.9537	35.3231	0.5637	4.76E-02	0.4986	4.62E+04	7.9576	103.674	6.116	0.922	0.3	25.5293	0.00E+00
10/12/2019	8:30:28 AM	6.303	17.9056	35.3334	0.7689	4.76E-02	0.5095	4.62E+04	7.9671	103.889	6.252	-0.782	-0.12	25.5518	0.00E+00
10/12/2019	8:29:19 AM	6.427	17.9518	35.325	0.5629	4.76E-02	0.5048	4.62E+04	7.9604	103.709	6.413	0.998	0.3	25.5317	0.00E+00
10/12/2019	8:30:28 AM	6.493	17.9037	35.3346	0.7689	4.76E-02	0.5079	4.62E+04	7.9689	103.91	6.486	-0.753	-0.07	25.5535	0.00E+00
10/12/2019	8:30:27 AM	6.685	17.9015	35.3367	0.7674	4.76E-02	0.5126	4.62E+04	7.9738	103.966	6.726	-0.736	0.02	25.556	0.00E+00
10/12/2019	8:29:20 AM	6.696	17.9512	35.327	0.5637	4.76E-02	0.5064	4.62E+04	7.9688	103.815	6.726	1.066	0.27	25.534	0.00E+00
10/12/2019	8:30:27 AM	6.878	17.8985	35.3393	0.7674	4.76E-02	0.5064	4.62E+04	7.9791	104.027	6.946	-0.74	0.09	25.5593	0.00E+00
10/12/2019	8:29:20 AM	6.967	17.9516	35.3291	0.5652	4.76E-02	0.5017	4.62E+04	7.9769	103.912	7.032	1.12	0.22	25.5361	0.00E+00
10/12/2019	8:30:27 AM	7.069	17.8944	35.3418	0.878	4.76E-02	0.2531	4.62E+04	7.9863	104.113	7.123	-0.762	0.09	25.5629	0.00E+00
10/12/2019	8:29:20 AM	7.235	17.9527	35.331	0.5644	4.76E-02	0.4815	4.62E+04	7.977	103.904	7.351	1.165	0.18	25.5377	0.00E+00
10/12/2019	8:30:26 AM	7.259	17.8891	35.344	0.8818	4.76E-02	0.2593	4.62E+04	7.9892	104.156	7.289	-0.786	0.08	25.5663	0.00E+00
10/12/2019	8:30:26 AM	7.45	17.8827	35.3454	0.8772	4.76E-02	0.2562	4.62E+04	7.9878	104.142	7.477	-0.806	0.11	25.5693	0.00E+00
10/12/2019	8:29:20 AM	7.499	17.9533	35.3321	0.6773	4.76E-02	0.4815	4.62E+04	7.9793	103.927	7.653	1.197	0.13	25.5385	0.00E+00
10/12/2019	8:30:26 AM	7.641	17.8753	35.3451	0.8772	4.76E-02	0.2577	4.62E+04	7.9835	104.087	7.655	-0.834	0.09	25.5709	0.00E+00
10/12/2019	8:29:20 AM	7.756	17.9518	35.331	0.6728	4.76E-02	0.4737	4.62E+04	7.9787	103.918	7.938	1.212	0.06	25.5373	0.00E+00
10/12/2019	8:30:26 AM	7.835	17.8677	35.3445	1.0069	4.76E-02	0.2158	4.62E+04	7.9787	104.016	7.848	-0.857	0.07	25.572	0.00E+00
10/12/2019	8:29:21 AM	8.005	17.9473	35.3271	0.6712	4.76E-02	0.4753	4.62E+04	7.9783	103.913	8.187	1.203	-0.04	25.5342	0.00E+00
10/12/2019	8:30:26 AM	8.03	17.8605	35.3451	1.0069	4.76E-02	0.2142	4.62E+04	7.9744	103.95	8.025	-0.874	-0.02	25.5741	0.00E+00
10/12/2019	8:30:25 AM	8.229	17.8539	35.3469	1.0039	4.76E-02	0.2096	4.61E+04	7.9711	103.896	8.223	-0.869	-0.05	25.5773	0.00E+00
10/12/2019	8:29:21 AM	8.245	17.9402	35.322	0.6697	4.76E-02	0.4784	4.62E+04	7.9783	103.918	8.4	1.167	-0.15	25.5306	0.00E+00
10/12/2019	8:30:25 AM	8.43	17.8471	35.3488	1.0077	4.76E-02	0.2064	4.61E+04	7.9695	103.868	8.436	-0.858	-0.06	25.5809	0.00E+00
10/12/2019	8:29:21 AM	8.479	17.9322	35.3187	0.7338	4.76E-02	0.5048	4.62E+04	7.9808	103.952	8.609	1.114	-0.21	25.5292	0.00E+00
10/12/2019	8:30:25 AM	8.633	17.8395	35.351	0.9696	4.76E-02	0.1831	4.61E+04	7.9716	103.89	8.655	-0.844	-0.05	25.585	0.00E+00
10/12/2019	8:29:21 AM	8.708	17.925	35.3187	0.7315	4.76E-02	0.5095	4.62E+04	7.984	103.993	8.812	1.047	-0.27	25.531	0.00E+00
10/12/2019	8:30:24 AM	8.839	17.8309	35.3538	0.9703	4.76E-02	0.1816	4.61E+04	7.9805	104.001	8.867	-0.831	-0.09	25.59	0.00E+00
10/12/2019	8:29:22 AM	8.933	17.9193	35.3212	0.7315	4.76E-02	0.5048	4.62E+04	7.9847	103.998	9.023	0.981	-0.26	25.5348	0.00E+00
10/12/2019	8:30:24 AM	9.046	17.8212	35.3577	0.9688	4.76E-02	0.1831	4.61E+04	7.9898	104.124	9.086	-0.809	-0.1	25.5963	0.00E+00
10/12/2019	8:29:22 AM	9.156	17.9149	35.3246	0.7353	4.76E-02	0.5033	4.62E+04	7.9884	104.043	9.226	0.919	-0.25	25.5392	0.00E+00
10/12/2019	8:30:24 AM	9.253	17.8098	35.3632	0.9718	4.76E-02	0.1909	4.61E+04	7.9929	104.164	9.326	-0.784	-0.04	25.6046	0.00E+00
10/12/2019	8:29:22 AM	9.377	17.9111	35.3274	0.8536	4.76E-02	0.5483	4.62E+04	7.9897	104.063	9.408	0.865	-0.22	25.5428	0.00E+00
10/12/2019	8:30:24 AM	9.458	17.7962	35.3707	1.0901	4.76E-02	0.1194	4.61E+04	7.9975	104.222	9.547	-0.773	-0.01	25.6155	0.00E+00
10/12/2019	8:29:23 AM	9.6	17.9071	35.3286	0.8528	4.76E-02	0.5483	4.62E+04	7.9907	104.073	9.599	0.825	-0.16	25.5447	0.00E+00
10/12/2019	8:30:24 AM	9.662	17.7794	35.3803	1.0916	4.76E-02	0.1148	4.61E+04	7.9976	104.221	9.758	-0.771	0.03	25.6293	0.00E+00
10/12/2019	8:29:23 AM	9.826	17.9031	35.3287	0.8551	4.76E-02	0.5592	4.62E+04	7.9888	104.045	9.839	0.814	-0.04	25.5458	0.00E+00
10/12/2019	8:30:23 AM	9.864	17.7583	35.3916	1.0893	4.76E-02	0.1225	4.61E+04	7.9995	104.242	9.931	-0.778	0	25.6459	0.00E+00
10/12/2019	8:29:23 AM	10.054	17.8997	35.3293	0.8551	4.76E-02	0.5608	4.62E+04	7.992	104.069	10.112	0.833	0.08	25.5473	0.00E+00
10/12/2019	8:30:23 AM	10.064	17.7318	35.4031	1.0947	4.76E-02	0.1194	4.60E+04	7.997	104.206	10.137	-0.777	0.04	25.6641	0.00E+00
10/12/2019	8:30:23 AM	10.264	17.6994	35.4154	1.0893	4.76E-02	0.1194	4.60E+04	7.9898	104.112	10.339	-0.788	0.05	25.6845	0.00E+00
10/12/2019	8:29:23 AM	10.281	17.8969	35.3307	0.8872	4.76E-02	0.3789	4.62E+04	7.9949	104.05	10.384	0.867	0.14	25.5493	0.00E+00
10/12/2019	8:30:22 AM	10.462	17.6609	35.4327	1.435	4.76E-02	0.1567	4.60E+04	7.9839	104.03	10.542	-0.801	0.08	25.7109	0.00E+00

10/12/2019	8:29:23 AM	10.506	17.8947	35.3321	0.8902	4.76E-02	0.3852	4.62E+04	7.997	104.007	10.646	0.908	0.16	25.5512	0.00E+00
10/12/2019	8:30:22 AM	10.659	17.6158	35.4527	1.4319	4.76E-02	0.1583	4.59E+04	7.9789	103.964	10.716	-0.822	0.03	25.7418	0.00E+00
10/12/2019	8:29:24 AM	10.726	17.8927	35.3332	0.891	4.76E-02	0.3789	4.62E+04	7.9974	103.904	10.892	0.947	0.15	25.5527	0.00E+00
10/12/2019	8:30:22 AM	10.856	17.5617	35.4681	1.4304	4.76E-02	0.1629	4.59E+04	7.97	103.836	10.895	-0.83	-0.02	25.7707	0.00E+00
10/12/2019	8:29:24 AM	10.94	17.8906	35.3338	0.894	4.76E-02	0.3727	4.62E+04	7.994	103.762	11.079	0.967	0.08	25.5537	0.00E+00
10/12/2019	8:30:22 AM	11.055	17.4979	35.4727	1.4342	4.76E-02	0.1598	4.58E+04	7.9669	103.787	11.101	-0.825	-0.01	25.7916	0.00E+00
10/12/2019	8:29:24 AM	11.149	17.888	35.3337	0.8864	4.76E-02	0.3075	4.62E+04	7.9845	103.534	11.247	0.963	-0.02	25.5542	0.00E+00
10/12/2019	8:30:22 AM	11.254	17.4274	35.47	1.8569	4.76E-02	0.1583	4.57E+04	7.9586	103.658	11.297	-0.824	-0.03	25.8063	0.00E+00
10/12/2019	8:29:25 AM	11.356	17.8851	35.3332	0.9223	4.76E-02	0.2857	4.62E+04	7.9812	103.38	11.427	0.932	-0.12	25.5543	0.00E+00
10/12/2019	8:30:21 AM	11.454	17.3559	35.4683	1.8531	4.76E-02	0.1598	4.57E+04	7.9605	103.669	11.51	-0.816	-0.02	25.8215	0.00E+00
10/12/2019	8:29:25 AM	11.562	17.8824	35.3331	0.9215	4.76E-02	0.2841	4.62E+04	7.9765	103.196	11.627	0.884	-0.19	25.5549	0.00E+00
10/12/2019	8:30:21 AM	11.656	17.2861	35.4669	1.8538	4.76E-02	0.1583	4.56E+04	7.9645	103.697	11.7	-0.81	-0.07	25.8364	0.00E+00
10/12/2019	8:29:25 AM	11.768	17.8804	35.334	0.9177	4.76E-02	0.281	4.62E+04	7.9721	103.013	11.838	0.837	-0.19	25.5563	0.00E+00
10/12/2019	8:30:21 AM	11.858	17.2177	35.4606	1.8592	4.76E-02	0.1567	4.55E+04	7.9711	103.775	11.927	-0.793	-0.01	25.8463	0.00E+00
10/12/2019	8:29:25 AM	11.973	17.8794	35.3357	0.9207	4.76E-02	0.281	4.62E+04	7.9722	102.886	12.063	0.807	-0.12	25.5582	0.00E+00
10/12/2019	8:30:21 AM	12.06	17.1511	35.4474	2.0125	4.76E-02	0.18	4.55E+04	7.9777	103.853	12.133	-0.791	0	25.849	0.00E+00
10/12/2019	8:29:25 AM	12.177	17.879	35.3373	0.9451	4.76E-02	0.1816	4.62E+04	7.9735	102.785	12.273	0.794	-0.05	25.56	0.00E+00
10/12/2019	8:30:20 AM	12.261	17.0897	35.4349	2.0102	4.76E-02	0.1785	4.54E+04	7.9878	103.976	12.356	-0.792	0.06	25.8504	0.00E+00
10/12/2019	8:29:26 AM	12.38	17.8786	35.3383	0.9467	4.76E-02	0.1847	4.62E+04	7.984	102.806	12.474	0.797	0.01	25.561	0.00E+00
10/12/2019	8:30:20 AM	12.462	17.0364	35.4266	2.0133	4.76E-02	0.1831	4.53E+04	7.9969	104.077	12.545	-0.807	0.02	25.8537	0.00E+00
10/12/2019	8:29:26 AM	12.581	17.8778	35.3382	0.9436	4.76E-02	0.1862	4.62E+04	7.9819	102.683	12.665	0.81	0.05	25.561	0.00E+00
10/12/2019	8:30:20 AM	12.661	16.9905	35.4171	2.0117	4.76E-02	0.1862	4.53E+04	8.0083	104.211	12.729	-0.812	-0.02	25.8547	0.00E+00
10/12/2019	8:29:26 AM	12.781	17.8763	35.3372	0.9444	4.76E-02	0.1847	4.62E+04	7.9844	102.626	12.852	0.818	0.03	25.5603	0.00E+00
10/12/2019	8:30:19 AM	12.86	16.9499	35.4067	2.2399	4.76E-02	0.2515	4.53E+04	8.0172	104.313	12.942	-0.808	-0.02	25.8535	0.00E+00
10/12/2019	8:29:27 AM	12.981	17.8738	35.3358	0.92	4.76E-02	0.2344	4.62E+04	7.9814	102.503	13.058	0.818	0	25.5594	0.00E+00
10/12/2019	8:30:19 AM	13.059	16.9152	35.3989	2.2391	4.76E-02	0.2546	4.52E+04	8.0232	104.367	13.134	-0.804	-0.03	25.8533	0.00E+00
10/12/2019	8:29:27 AM	13.181	17.8704	35.3344	0.9192	4.76E-02	0.2344	4.62E+04	7.9825	102.409	13.275	0.815	-0.01	25.5587	0.00E+00
10/12/2019	8:30:19 AM	13.257	16.8864	35.3935	2.2429	4.76E-02	0.2531	4.52E+04	8.0332	104.481	13.334	-0.797	-0.03	25.8541	0.00E+00
10/12/2019	8:29:27 AM	13.379	17.8652	35.3326	0.92	4.76E-02	0.236	4.62E+04	7.9786	102.257	13.497	0.815	0	25.558	0.00E+00
10/12/2019	8:30:19 AM	13.456	16.8621	35.3883	2.2429	4.76E-02	0.2624	4.52E+04	8.0386	104.516	13.513	-0.789	-0.08	25.8545	0.00E+00
10/12/2019	8:29:27 AM	13.574	17.8568	35.3292	0.9215	4.76E-02	0.2375	4.62E+04	7.9695	102.047	13.713	0.818	0.01	25.5562	0.00E+00
10/12/2019	8:30:19 AM	13.655	16.8409	35.3833	2.2406	4.76E-02	0.2593	4.51E+04	8.0398	104.499	13.736	-0.769	-0.03	25.8544	0.00E+00
10/12/2019	8:29:28 AM	13.766	17.8431	35.323	0.968	4.76E-02	0.2064	4.61E+04	7.9579	101.828	13.903	0.822	0.01	25.5527	0.00E+00
10/12/2019	8:30:18 AM	13.854	16.8225	35.3788	2.3162	4.76E-02	0.2033	4.51E+04	8.0399	104.439	13.942	-0.762	-0.02	25.854	0.00E+00
10/12/2019	8:29:28 AM	13.955	17.8218	35.3134	0.968	4.76E-02	0.2127	4.61E+04	7.947	101.631	14.074	0.818	-0.01	25.5474	0.00E+00
10/12/2019	8:30:18 AM	14.052	16.8068	35.3753	2.3123	4.76E-02	0.2173	4.51E+04	8.0353	104.319	14.168	-0.756	0.04	25.854	0.00E+00
10/12/2019	8:29:28 AM	14.141	17.7918	35.2996	0.9718	4.76E-02	0.2127	4.61E+04	7.9399	101.489	14.23	0.804	-0.06	25.5402	0.00E+00
10/12/2019	8:30:18 AM	14.248	16.7936	35.3731	2.3116	4.76E-02	0.2127	4.51E+04	8.0303	104.175	14.35	-0.767	0.02	25.8548	0.00E+00
10/12/2019	8:29:28 AM	14.326	17.7535	35.2837	0.9688	4.76E-02	0.2049	4.61E+04	7.9386	101.418	14.387	0.777	-0.11	25.5332	0.00E+00
10/12/2019	8:30:17 AM	14.442	16.7823	35.3718	2.3116	4.76E-02	0.2033	4.51E+04	8.0171	103.927	14.535	-0.772	0.04	25.856	0.00E+00
10/12/2019	8:29:28 AM	14.512	17.7086	35.2695	0.9703	4.76E-02	0.1925	4.60E+04	7.9375	101.36	14.561	0.745	-0.13	25.5297	0.00E+00
10/12/2019	8:30:17 AM	14.636	16.7723	35.3711	2.6091	4.76E-02	0.2096	4.51E+04	8.0078	103.698	14.721	-0.781	0.03	25.8574	0.00E+00
10/12/2019	8:29:29 AM	14.7	17.6591	35.2588	1.0062	4.76E-02	0.1893	4.60E+04	7.9465	101.443	14.751	0.718	-0.11	25.5309	0.00E+00
10/12/2019	8:30:17 AM	14.829	16.763	35.3713	2.6137	4.76E-02	0.2096	4.51E+04	8.0017	103.435	14.917	-0.789	0.05	25.8596	0.00E+00
10/12/2019	8:29:29 AM	14.89	17.6061	35.2522	1.0069	4.76E-02	0.1831	4.59E+04	7.9533	101.511	14.946	0.703	-0.06	25.5368	0.00E+00
10/12/2019	8:30:17 AM	15.022	16.7543	35.3723	2.6068	4.76E-02	0.2049	4.51E+04	8.0044	103.323	15.104	-0.802	0.03	25.8625	0.00E+00
10/12/2019	8:29:29 AM	15.082	17.5499	35.2475	1.0062	4.76E-02	0.1769	4.59E+04	7.9666	101.666	15.147	0.703	0	25.5453	0.00E+00
10/12/2019	8:30:17 AM	15.216	16.7457	35.3731	2.6091	4.76E-02	0.208	4.51E+04	8.0081	103.181	15.282	-0.81	0.01	25.8653	0.00E+00
10/12/2019	8:29:30 AM	15.274	17.4913	35.2428	1.0062	4.76E-02	0.18	4.58E+04	7.9723	101.725	15.353	0.721	0.07	25.5546	0.00E+00
10/12/2019	8:30:16 AM	15.41	16.7367	35.3735	2.5893	4.76E-02	0.2298	4.50E+04	8.0058	103.056	15.491	-0.814	0.01	25.8678	0.00E+00
10/12/2019	8:29:30 AM	15.467	17.4317	35.2399	1.4334	4.76E-02	0.2577	4.57E+04	7.9782	101.788	15.563	0.748	0.11	25.566	0.00E+00

10/12/2019	8:30:16 AM	15.605	16.7274	35.3736	2.584	4.76E-02	0.2329	4.50E+04	8.0005	102.813	15.68	-0.816	-0.03	25.8701	0.00E+00
10/12/2019	8:29:30 AM	15.659	17.3728	35.2401	1.4342	4.76E-02	0.2546	4.57E+04	7.978	101.772	15.763	0.776	0.11	25.5804	0.00E+00
10/12/2019	8:30:16 AM	15.8	16.7182	35.3737	2.5885	4.76E-02	0.2313	4.50E+04	7.9984	102.659	15.891	-0.809	-0.04	25.8723	0.00E+00
10/12/2019	8:29:30 AM	15.851	17.3159	35.2434	1.4311	4.76E-02	0.2562	4.56E+04	7.9787	101.75	15.954	0.793	0.07	25.5973	0.00E+00
10/12/2019	8:30:15 AM	15.995	16.7091	35.3734	2.5855	4.76E-02	0.2329	4.50E+04	7.9977	102.506	16.073	-0.798	-0.12	25.8741	0.00E+00
10/12/2019	8:29:30 AM	16.042	17.2618	35.2487	1.4311	4.76E-02	0.2655	4.56E+04	7.9735	101.648	16.133	0.796	0.01	25.6157	0.00E+00
10/12/2019	8:30:15 AM	16.191	16.7001	35.3728	2.8128	4.76E-02	0.1816	4.50E+04	7.9874	102.293	16.291	-0.767	-0.11	25.8755	0.00E+00
10/12/2019	8:29:31 AM	16.232	17.2109	35.2552	1.6577	4.76E-02	0.2033	4.55E+04	7.9666	101.527	16.305	0.787	-0.04	25.6344	0.00E+00
10/12/2019	8:30:15 AM	16.386	16.6915	35.3719	2.8136	4.76E-02	0.1847	4.50E+04	7.9689	101.992	16.49	-0.741	-0.11	25.8765	0.00E+00
10/12/2019	8:29:31 AM	16.424	17.1621	35.2617	1.6532	4.76E-02	0.2033	4.55E+04	7.9602	101.418	16.485	0.772	-0.06	25.6524	0.00E+00
10/12/2019	8:30:15 AM	16.58	16.6835	35.3711	2.8159	4.76E-02	0.1862	4.50E+04	7.9587	101.769	16.707	-0.713	-0.09	25.8775	0.00E+00
10/12/2019	8:29:31 AM	16.618	17.1139	35.266	1.6524	4.76E-02	0.2127	4.54E+04	7.952	101.291	16.678	0.759	-0.06	25.668	0.00E+00
10/12/2019	8:30:14 AM	16.772	16.6761	35.3701	2.8167	4.76E-02	0.1862	4.50E+04	7.9475	101.575	16.903	-0.691	-0.1	25.8783	0.00E+00
10/12/2019	8:29:32 AM	16.813	17.0663	35.2677	1.6524	4.76E-02	0.2111	4.54E+04	7.9445	101.178	16.873	0.748	-0.04	25.681	0.00E+00
10/12/2019	8:30:14 AM	16.962	16.6693	35.3691	2.8128	4.76E-02	0.1862	4.50E+04	7.9366	101.391	17.113	-0.665	-0.01	25.8787	0.00E+00
10/12/2019	8:29:32 AM	17.011	17.0211	35.2699	1.9545	4.76E-02	0.4318	4.53E+04	7.9359	101.053	17.07	0.744	-0.02	25.6942	0.00E+00
10/12/2019	8:30:14 AM	17.148	16.6632	35.3679	2.5038	4.76E-02	0.1785	4.50E+04	7.9428	101.442	17.304	-0.662	0.04	25.8789	0.00E+00
10/12/2019	8:29:32 AM	17.211	16.9806	35.2766	1.9461	4.76E-02	0.4333	4.53E+04	7.9272	100.929	17.261	0.746	0.01	25.7107	0.00E+00
10/12/2019	8:30:14 AM	17.331	16.6577	35.3665	2.5023	4.76E-02	0.18	4.50E+04	7.9308	101.239	17.487	-0.673	0.06	25.8787	0.00E+00
10/12/2019	8:29:32 AM	17.414	16.9453	35.2868	1.9507	4.76E-02	0.4349	4.53E+04	7.9144	100.753	17.46	0.755	0.04	25.7293	0.00E+00
10/12/2019	8:30:14 AM	17.51	16.6531	35.3656	2.5031	4.76E-02	0.18	4.50E+04	7.9195	101.07	17.66	-0.688	0.04	25.8787	0.00E+00
10/12/2019	8:29:32 AM	17.619	16.9144	35.2968	1.9515	4.76E-02	0.4287	4.52E+04	7.8978	100.531	17.684	0.774	0.08	25.7467	0.00E+00
10/12/2019	8:30:13 AM	17.686	16.6493	35.3652	2.5023	4.76E-02	0.1816	4.50E+04	7.9229	101.081	17.8	-0.698	-0.02	25.8792	0.00E+00
10/12/2019	8:29:33 AM	17.826	16.8871	35.3049	1.9522	4.76E-02	0.4131	4.52E+04	7.8797	100.289	17.927	0.802	0.11	25.7613	0.00E+00
10/12/2019	8:30:13 AM	17.86	16.6459	35.3652	2.3131	4.76E-02	0.1567	4.50E+04	7.9181	101.007	17.977	-0.693	0	25.8799	0.00E+00
10/12/2019	8:29:33 AM	18.033	16.8629	35.3113	2.2063	4.76E-02	0.2577	4.52E+04	7.8575	99.997	18.172	0.834	0.12	25.7736	0.00E+00
10/12/2019	8:30:13 AM	18.034	16.6427	35.3656	2.3131	4.76E-02	0.1645	4.50E+04	7.908	100.858	18.142	-0.694	0.02	25.881	0.00E+00
10/12/2019	8:30:12 AM	18.208	16.6395	35.3664	2.3108	4.76E-02	0.1583	4.50E+04	7.8968	100.701	18.307	-0.698	0.03	25.8826	0.00E+00
10/12/2019	8:29:33 AM	18.239	16.8425	35.3176	2.2071	4.76E-02	0.2577	4.52E+04	7.8402	99.762	18.4	0.861	0.11	25.7848	0.00E+00
10/12/2019	8:30:12 AM	18.381	16.636	35.3673	2.3154	4.76E-02	0.1536	4.50E+04	7.8871	100.562	18.449	-0.705	-0.03	25.8843	0.00E+00
10/12/2019	8:29:34 AM	18.44	16.8262	35.325	2.2071	4.76E-02	0.2593	4.51E+04	7.8319	99.637	18.612	0.882	0.08	25.7963	0.00E+00
10/12/2019	8:30:12 AM	18.556	16.6321	35.3675	2.6229	4.76E-02	0.1862	4.49E+04	7.8729	100.368	18.657	-0.698	0.01	25.8855	0.00E+00
10/12/2019	8:29:34 AM	18.638	16.8131	35.3327	2.204	4.76E-02	0.2562	4.51E+04	7.8182	99.44	18.799	0.889	0.03	25.8071	0.00E+00
10/12/2019	8:30:12 AM	18.732	16.6278	35.3671	2.6183	4.76E-02	0.1831	4.49E+04	7.8605	100.197	18.858	-0.7	0.01	25.8862	0.00E+00
10/12/2019	8:29:34 AM	18.832	16.802	35.3387	2.4672	4.76E-02	0.3075	4.51E+04	7.8065	99.276	18.965	0.878	-0.05	25.8156	0.00E+00
10/12/2019	8:30:12 AM	18.906	16.6234	35.3666	2.6213	4.76E-02	0.1785	4.49E+04	7.8501	100.04	19.031	-0.703	0.02	25.8868	0.00E+00
10/12/2019	8:29:34 AM	19.025	16.7917	35.3421	2.4688	4.76E-02	0.3012	4.51E+04	7.8004	99.186	19.121	0.845	-0.13	25.8213	0.00E+00
10/12/2019	8:30:11 AM	19.08	16.6192	35.3666	2.6229	4.76E-02	0.1816	4.49E+04	7.8352	99.838	19.182	-0.709	0	25.8876	0.00E+00
10/12/2019	8:29:35 AM	19.218	16.7812	35.3434	2.4665	4.76E-02	0.3059	4.51E+04	7.7889	99.033	19.29	0.799	-0.18	25.8249	0.00E+00
10/12/2019	8:30:11 AM	19.254	16.6153	35.3668	2.4321	4.76E-02	0.2064	4.49E+04	7.8226	99.654	19.33	-0.71	-0.02	25.8887	0.00E+00
10/12/2019	8:29:35 AM	19.413	16.7694	35.3429	2.4665	4.76E-02	0.309	4.51E+04	7.7752	98.849	19.478	0.757	-0.17	25.827	0.00E+00
10/12/2019	8:30:11 AM	19.429	16.6115	35.3669	2.4329	4.76E-02	0.208	4.49E+04	7.8105	99.486	19.516	-0.704	-0.01	25.8897	0.00E+00
10/12/2019	8:30:10 AM	19.605	16.6075	35.3667	2.4337	4.76E-02	0.2033	4.49E+04	7.7987	99.314	19.706	-0.703	0	25.8905	0.00E+00
10/12/2019	8:29:35 AM	19.61	16.7561	35.3406	2.4527	4.76E-02	0.1816	4.51E+04	7.7606	98.654	19.689	0.732	-0.1	25.8277	0.00E+00
10/12/2019	8:30:10 AM	19.782	16.6036	35.3662	2.4352	4.76E-02	0.2158	4.49E+04	7.7998	99.314	19.902	-0.703	0.06	25.8909	0.00E+00
10/12/2019	8:29:35 AM	19.81	16.742	35.3378	2.4504	4.76E-02	0.18	4.51E+04	7.7409	98.391	19.907	0.729	-0.01	25.8283	0.00E+00
10/12/2019	8:30:10 AM	19.959	16.5998	35.3655	2.4314	4.76E-02	0.2173	4.49E+04	7.7967	99.257	20.072	-0.717	0.07	25.8911	0.00E+00
10/12/2019	8:29:35 AM	20.01	16.7285	35.3372	2.455	4.76E-02	0.1862	4.50E+04	7.7241	98.164	20.111	0.742	0.05	25.831	0.00E+00
10/12/2019	8:30:10 AM	20.135	16.5962	35.3649	2.5893	4.76E-02	0.1303	4.49E+04	7.7923	99.19	20.247	-0.734	0.09	25.8914	0.00E+00
10/12/2019	8:29:36 AM	20.211	16.7164	35.3392	2.4527	4.76E-02	0.1847	4.50E+04	7.7136	98.014	20.323	0.767	0.1	25.8359	0.00E+00
10/12/2019	8:30:10 AM	20.312	16.593	35.3648	2.5878	4.76E-02	0.135	4.49E+04	7.7879	99.12	20.401	-0.757	0.04	25.892	0.00E+00

10/12/2019	8:29:36 AM	20.412	16.7056	35.3423	2.7434	4.76E-02	0.2546	4.50E+04	7.6982	97.802	20.54	0.799	0.13	25.8415	0.00E+00
10/12/2019	8:30:09 AM	20.49	16.5899	35.3652	2.587	4.76E-02	0.1396	4.49E+04	7.7827	99.04	20.581	-0.767	0.02	25.8931	0.00E+00
10/12/2019	8:29:36 AM	20.611	16.6962	35.3452	2.7396	4.76E-02	0.2531	4.50E+04	7.6809	97.564	20.77	0.831	0.13	25.8465	0.00E+00
10/12/2019	8:30:09 AM	20.669	16.5869	35.3661	2.584	4.76E-02	0.1303	4.49E+04	7.7682	98.849	20.759	-0.771	-0.01	25.8947	0.00E+00
10/12/2019	8:29:37 AM	20.809	16.6877	35.3475	2.7434	4.76E-02	0.2593	4.50E+04	7.6628	97.316	20.978	0.85	0.08	25.8509	0.00E+00
10/12/2019	8:30:09 AM	20.85	16.5836	35.3674	2.3375	4.76E-02	0.1598	4.49E+04	7.763	98.774	20.946	-0.77	-0.03	25.8968	0.00E+00
10/12/2019	8:29:37 AM	21.003	16.6801	35.3494	2.7449	4.76E-02	0.2593	4.50E+04	7.6436	97.055	21.166	0.852	0.01	25.8546	0.00E+00
10/12/2019	8:30:08 AM	21.033	16.5799	35.3688	2.336	4.76E-02	0.1598	4.49E+04	7.7497	98.601	21.133	-0.762	-0.05	25.899	0.00E+00
10/12/2019	8:29:37 AM	21.195	16.673	35.3508	2.7449	4.76E-02	0.2577	4.50E+04	7.6271	96.818	21.334	0.836	-0.06	25.8576	0.00E+00
10/12/2019	8:30:08 AM	21.216	16.5754	35.37	2.3368	4.76E-02	0.1645	4.49E+04	7.7386	98.455	21.305	-0.749	-0.11	25.9013	0.00E+00
10/12/2019	8:29:37 AM	21.385	16.6661	35.3516	2.6	4.76E-02	0.18	4.50E+04	7.6054	96.492	21.488	0.808	-0.11	25.86	0.00E+00
10/12/2019	8:30:08 AM	21.401	16.5703	35.3712	2.3375	4.76E-02	0.1583	4.49E+04	7.7297	98.338	21.511	-0.72	-0.08	25.9037	0.00E+00
10/12/2019	8:29:37 AM	21.577	16.6593	35.352	2.5969	4.76E-02	0.1878	4.50E+04	7.5816	96.126	21.633	0.771	-0.15	25.862	0.00E+00
10/12/2019	8:30:08 AM	21.587	16.5646	35.3721	2.3864	4.76E-02	0.1567	4.49E+04	7.724	98.259	21.71	-0.701	-0.06	25.906	0.00E+00
10/12/2019	8:30:07 AM	21.772	16.5583	35.3732	2.3848	4.76E-02	0.1567	4.49E+04	7.7157	98.148	21.927	-0.686	0.02	25.9086	0.00E+00
10/12/2019	8:29:38 AM	21.773	16.6521	35.3519	2.6015	4.76E-02	0.18	4.50E+04	7.5533	95.709	21.8	0.732	-0.16	25.8635	0.00E+00
10/12/2019	8:30:07 AM	21.955	16.5514	35.3744	2.3825	4.76E-02	0.1552	4.49E+04	7.7104	98.073	22.105	-0.691	0.03	25.9113	0.00E+00
10/12/2019	8:29:38 AM	21.974	16.6442	35.351	2.5954	4.76E-02	0.18	4.50E+04	7.5265	95.317	21.997	0.703	-0.11	25.8644	0.00E+00
10/12/2019	8:30:07 AM	22.137	16.5441	35.3752	2.3856	4.76E-02	0.152	4.49E+04	7.7045	97.986	22.284	-0.698	0.04	25.9139	0.00E+00
10/12/2019	8:29:38 AM	22.181	16.6358	35.3496	2.7549	4.76E-02	0.2158	4.50E+04	7.4963	94.892	22.216	0.694	-0.04	25.8651	0.00E+00
10/12/2019	8:30:07 AM	22.317	16.5361	35.3751	2.2383	4.76E-02	0.1567	4.49E+04	7.6959	97.867	22.465	-0.708	0.03	25.9158	0.00E+00
10/12/2019	8:29:39 AM	22.393	16.6277	35.3488	2.7579	4.76E-02	0.2064	4.50E+04	7.46	94.391	22.45	0.712	0.07	25.8663	0.00E+00
10/12/2019	8:30:07 AM	22.496	16.5278	35.3746	2.2399	4.76E-02	0.1645	4.48E+04	7.6957	97.857	22.635	-0.715	0.04	25.9173	0.00E+00
10/12/2019	8:29:39 AM	22.609	16.6203	35.3495	2.7556	4.76E-02	0.2064	4.49E+04	7.4215	93.862	22.683	0.749	0.15	25.8688	0.00E+00
10/12/2019	8:30:06 AM	22.675	16.5195	35.3753	2.2406	4.76E-02	0.1536	4.48E+04	7.6926	97.813	22.803	-0.725	0.05	25.9199	0.00E+00
10/12/2019	8:29:39 AM	22.829	16.6138	35.3512	2.7549	4.76E-02	0.2096	4.49E+04	7.3761	93.245	22.916	0.798	0.19	25.872	0.00E+00
10/12/2019	8:30:06 AM	22.853	16.5114	35.3779	2.2406	4.76E-02	0.1567	4.48E+04	7.6889	97.758	22.948	-0.737	0.05	25.9243	0.00E+00
10/12/2019	8:30:06 AM	23.033	16.5027	35.381	2.2414	4.76E-02	0.1645	4.48E+04	7.6851	97.703	23.134	-0.75	0.07	25.9295	0.00E+00
10/12/2019	8:29:39 AM	23.052	16.6077	35.3527	2.6595	4.76E-02	0.1862	4.49E+04	7.3401	92.712	23.144	0.846	0.2	25.8749	0.00E+00
10/12/2019	8:30:05 AM	23.215	16.4925	35.3839	1.998	4.76E-02	0.1365	4.48E+04	7.6762	97.579	23.311	-0.767	0.08	25.9349	0.00E+00
10/12/2019	8:29:39 AM	23.276	16.6015	35.3534	2.6595	4.76E-02	0.1816	4.49E+04	7.3041	92.144	23.376	0.888	0.16	25.877	0.00E+00
10/12/2019	8:30:05 AM	23.398	16.4805	35.3862	2.0003	4.76E-02	0.135	4.48E+04	7.6668	97.454	23.514	-0.788	0.07	25.9401	0.00E+00
10/12/2019	8:29:40 AM	23.503	16.5948	35.3532	2.6564	4.76E-02	0.1847	4.49E+04	7.26	91.445	23.605	0.912	0.1	25.8782	0.00E+00
10/12/2019	8:30:05 AM	23.583	16.4669	35.3878	2.0003	4.76E-02	0.1412	4.48E+04	7.656	97.308	23.693	-0.807	0.04	25.9449	0.00E+00
10/12/2019	8:29:40 AM	23.731	16.5874	35.3523	2.6603	4.76E-02	0.1847	4.49E+04	7.2123	90.714	23.84	0.924	0.05	25.879	0.00E+00
10/12/2019	8:30:05 AM	23.769	16.4522	35.3903	2.0026	4.76E-02	0.135	4.48E+04	7.6472	97.193	23.879	-0.816	0	25.9508	0.00E+00
10/12/2019	8:30:05 AM	23.957	16.4367	35.3952	2.011	4.76E-02	0.135	4.48E+04	7.6327	97.003	24.043	-0.817	-0.05	25.959	0.00E+00
10/12/2019	8:29:40 AM	23.96	16.5792	35.351	2.5275	4.76E-02	0.1303	4.49E+04	7.1604	89.958	24.072	0.927	0.01	25.8796	0.00E+00
10/12/2019	8:30:04 AM	24.147	16.4199	35.4001	2.0133	4.76E-02	0.1334	4.47E+04	7.6147	96.772	24.234	-0.805	-0.07	25.9678	0.00E+00
10/12/2019	8:29:41 AM	24.192	16.5702	35.3496	2.5237	4.76E-02	0.1334	4.49E+04	7.101	89.136	24.302	0.926	0	25.8802	0.00E+00
10/12/2019	8:30:04 AM	24.341	16.4005	35.4028	2.0117	4.76E-02	0.1334	4.47E+04	7.606	96.656	24.428	-0.786	-0.06	25.9751	0.00E+00
10/12/2019	8:29:41 AM	24.424	16.5601	35.3478	2.5244	4.76E-02	0.1365	4.49E+04	7.0364	88.265	24.528	0.924	-0.01	25.8808	0.00E+00
10/12/2019	8:30:04 AM	24.537	16.379	35.4034	2.0133	4.76E-02	0.135	4.47E+04	7.5918	96.469	24.659	-0.772	-0.03	25.9808	0.00E+00
10/12/2019	8:29:41 AM	24.659	16.5486	35.3456	2.526	4.76E-02	0.1365	4.49E+04	6.9528	87.166	24.748	0.92	-0.02	25.8812	0.00E+00
10/12/2019	8:30:03 AM	24.734	16.3565	35.4027	1.9644	4.76E-02	0.1179	4.47E+04	7.5793	96.302	24.872	-0.764	0	25.9853	0.00E+00
10/12/2019	8:29:41 AM	24.897	16.5354	35.3431	2.5244	4.76E-02	0.1287	4.49E+04	6.8537	85.878	24.959	0.912	-0.03	25.8817	0.00E+00
10/12/2019	8:30:03 AM	24.93	16.3341	35.4018	1.9644	4.76E-02	0.121	4.47E+04	7.5637	96.091	25.098	-0.764	0.03	25.9894	0.00E+00
10/12/2019	8:30:03 AM	25.126	16.3124	35.401	1.9637	4.76E-02	0.1179	4.46E+04	7.5532	95.948	25.282	-0.772	0.04	25.9935	0.00E+00
10/12/2019	8:29:42 AM	25.14	16.5193	35.3398	2.5382	4.76E-02	0.1427	4.48E+04	6.75	84.538	25.174	0.902	-0.04	25.8818	0.00E+00
10/12/2019	8:30:03 AM	25.321	16.2915	35.4014	1.9622	4.76E-02	0.1163	4.46E+04	7.5355	95.71	25.468	-0.782	0.06	25.9986	0.00E+00
10/12/2019	8:29:42 AM	25.389	16.4993	35.3346	2.5374	4.76E-02	0.1381	4.48E+04	6.6453	83.192	25.424	0.9	-0.01	25.881	0.00E+00

10/12/2019	8:30:03 AM	25.515	16.2712	35.4055	1.7218	4.76E-02	0.1241	4.46E+04	7.5282	95.606	25.646	-0.798	0.06	26.0071	0.00E+00
10/12/2019	8:29:42 AM	25.645	16.4748	35.3271	2.5405	4.76E-02	0.1334	4.48E+04	6.552	81.952	25.696	0.91	0.04	25.879	0.00E+00
10/12/2019	8:30:02 AM	25.71	16.2507	35.4119	1.7226	4.76E-02	0.1194	4.46E+04	7.5168	95.446	25.832	-0.811	0.06	26.0181	0.00E+00
10/12/2019	8:29:42 AM	25.906	16.4477	35.3196	2.542	4.76E-02	0.1334	4.48E+04	6.4746	80.879	25.979	0.935	0.1	25.8779	0.00E+00
10/12/2019	8:30:02 AM	25.906	16.2277	35.4173	1.7218	4.76E-02	0.1163	4.46E+04	7.4992	95.205	26.018	-0.826	0.03	26.0289	0.00E+00
10/12/2019	8:30:02 AM	26.104	16.2015	35.4211	1.7218	4.76E-02	0.1163	4.45E+04	7.483	94.983	26.238	-0.834	0.06	26.0389	0.00E+00
10/12/2019	8:29:42 AM	26.171	16.4199	35.3158	2.2254	4.76E-02	0.1365	4.47E+04	6.4102	79.959	26.272	0.973	0.15	25.8807	0.00E+00
10/12/2019	8:30:01 AM	26.304	16.1727	35.4252	1.7211	4.76E-02	0.1225	4.45E+04	7.4603	94.677	26.422	-0.849	0.05	26.0497	0.00E+00
10/12/2019	8:29:43 AM	26.44	16.3922	35.3159	2.2299	4.76E-02	0.1396	4.47E+04	6.3574	79.186	26.563	1.018	0.18	25.8871	0.00E+00
10/12/2019	8:30:01 AM	26.504	16.1418	35.4312	1.3709	4.76E-02	0.0899	4.45E+04	7.4367	94.375	26.628	-0.861	0.03	26.0627	0.00E+00
10/12/2019	8:30:01 AM	26.707	16.1087	35.4373	1.3754	4.76E-02	0.0899	4.44E+04	7.4072	93.984	26.818	-0.87	0.01	26.0763	0.00E+00
10/12/2019	8:29:43 AM	26.71	16.3643	35.317	2.2299	4.76E-02	0.135	4.47E+04	6.3205	78.643	26.838	1.061	0.17	25.8944	0.00E+00
10/12/2019	8:30:01 AM	26.911	16.0724	35.4381	1.3709	4.76E-02	0.093	4.44E+04	7.3823	93.653	27.024	-0.872	-0.02	26.0859	0.00E+00
10/12/2019	8:29:43 AM	26.981	16.3348	35.3167	2.2277	4.76E-02	0.1365	4.47E+04	6.282	78.113	27.12	1.099	0.15	25.9006	0.00E+00
10/12/2019	8:30:00 AM	27.118	16.0334	35.4327	1.3709	4.76E-02	0.0914	4.44E+04	7.3521	93.239	27.246	-0.866	-0.04	26.09	0.00E+00
10/12/2019	8:29:44 AM	27.253	16.3018	35.3135	2.0499	4.76E-02	0.1427	4.46E+04	6.2341	77.493	27.404	1.125	0.1	25.9047	0.00E+00
10/12/2019	8:30:00 AM	27.327	15.9944	35.4241	0.9444	4.76E-02	0.1148	4.43E+04	7.3219	92.831	27.462	-0.856	-0.03	26.0907	0.00E+00
10/12/2019	8:29:44 AM	27.526	16.2628	35.3065	2.0476	4.76E-02	0.1287	4.46E+04	6.1785	76.791	27.685	1.134	0.04	25.9061	0.00E+00
10/12/2019	8:30:00 AM	27.536	15.9586	35.4162	0.9474	4.76E-02	0.1241	4.43E+04	7.2941	92.45	27.685	-0.849	-0.03	26.091	0.00E+00
10/12/2019	8:30:00 AM	27.746	15.9269	35.4103	0.9451	4.76E-02	0.121	4.43E+04	7.2706	92.131	27.894	-0.841	-0.04	26.0922	0.00E+00
10/12/2019	8:29:44 AM	27.798	16.2156	35.2943	2.0453	4.76E-02	0.135	4.45E+04	6.1103	75.934	27.96	1.133	-0.01	25.9044	0.00E+00
10/12/2019	8:30:00 AM	27.956	15.899	35.4062	0.9436	4.76E-02	0.1194	4.42E+04	7.246	91.791	28.113	-0.83	-0.05	26.0943	0.00E+00
10/12/2019	8:29:44 AM	28.069	16.1606	35.2779	2.0507	4.76E-02	0.1318	4.45E+04	6.0449	75.113	28.238	1.127	-0.02	25.9007	0.00E+00
10/12/2019	8:29:59 AM	28.166	15.8739	35.4041	0.9459	4.76E-02	0.1101	4.42E+04	7.2214	91.442	28.343	-0.818	-0.05	26.0978	0.00E+00
10/12/2019	8:29:44 AM	28.34	16.1023	35.2636	1.9538	4.76E-02	0.1334	4.44E+04	5.9676	74.148	28.513	1.12	-0.03	25.9007	0.00E+00
10/12/2019	8:29:59 AM	28.376	15.8506	35.4037	0.9459	4.76E-02	0.1163	4.42E+04	7.1975	91.087	28.549	-0.806	-0.04	26.1027	0.00E+00
10/12/2019	8:29:59 AM	28.584	15.8282	35.4059	0.9451	4.76E-02	0.1179	4.42E+04	7.1627	90.606	28.77	-0.796	0	26.11	0.00E+00
10/12/2019	8:29:45 AM	28.61	16.0463	35.2588	1.9515	4.76E-02	0.1272	4.44E+04	5.9067	73.387	28.794	1.116	-0.02	25.9097	0.00E+00
10/12/2019	8:29:58 AM	28.791	15.8054	35.4104	0.9459	4.76E-02	0.121	4.41E+04	7.1162	89.973	28.969	-0.795	0.02	26.1196	0.00E+00
10/12/2019	8:29:45 AM	28.878	15.9961	35.2648	1.9538	4.76E-02	0.1381	4.43E+04	5.8556	72.75	29.073	1.115	0	25.9277	0.00E+00
10/12/2019	8:29:58 AM	28.996	15.781	35.4146	0.9825	4.76E-02	0.0945	4.41E+04	7.0669	89.315	29.161	-0.8	0.03	26.1295	0.00E+00
10/12/2019	8:29:45 AM	29.145	15.9523	35.2765	1.9522	4.76E-02	0.1412	4.43E+04	5.8198	72.304	29.345	1.112	-0.01	25.9497	0.00E+00
10/12/2019	8:29:58 AM	29.202	15.7539	35.4154	0.981	4.76E-02	0.1008	4.41E+04	7.0024	88.468	29.383	-0.809	0.04	26.1369	0.00E+00
10/12/2019	8:29:58 AM	29.406	15.7246	35.4135	0.9818	4.76E-02	0.0945	4.40E+04	6.9351	87.593	29.582	-0.82	0.04	26.1421	0.00E+00
10/12/2019	8:29:46 AM	29.408	15.9135	35.2881	1.9507	4.76E-02	0.1256	4.42E+04	5.8029	72.094	29.616	1.107	-0.02	25.9701	0.00E+00
10/12/2019	8:29:58 AM	29.61	15.6947	35.4128	0.9833	4.76E-02	0.0945	4.40E+04	6.8598	86.615	29.783	-0.83	0.06	26.1482	0.00E+00
10/12/2019	8:29:46 AM	29.67	15.878	35.2966	1.2602	4.76E-02	0.1132	4.42E+04	5.7936	71.98	29.867	1.098	-0.04	25.9867	0.00E+00
10/12/2019	8:29:57 AM	29.813	15.6653	35.414	0.9825	4.76E-02	0.093	4.40E+04	6.7919	85.724	29.976	-0.844	0.05	26.1559	0.00E+00
10/12/2019	8:29:46 AM	29.929	15.8437	35.3015	1.261	4.76E-02	0.1194	4.42E+04	5.7944	71.993	30.122	1.086	-0.05	25.9993	0.00E+00
10/12/2019	8:29:57 AM	30.016	15.6359	35.4151	0.6857	4.76E-02	0.093	4.40E+04	6.7242	84.812	30.153	-0.856	0.04	26.1637	0.00E+00
10/12/2019	8:29:46 AM	30.187	15.8084	35.3023	1.2648	4.76E-02	0.1148	4.41E+04	5.805	72.129	30.384	1.073	-0.05	26.0081	0.00E+00
10/12/2019	8:29:57 AM	30.222	15.6058	35.4138	0.6857	4.76E-02	0.093	4.39E+04	6.6668	84.044	30.358	-0.866	0.06	26.1693	0.00E+00
10/12/2019	8:29:56 AM	30.429	15.5753	35.4069	0.6865	4.76E-02	0.093	4.39E+04	6.6376	83.624	30.57	-0.88	0.05	26.1699	0.00E+00
10/12/2019	8:29:46 AM	30.443	15.769	35.2986	1.2602	4.76E-02	0.1194	4.41E+04	5.8156	72.264	30.648	1.062	-0.05	26.013	0.00E+00
10/12/2019	8:29:56 AM	30.638	15.5458	35.3955	0.6827	4.76E-02	0.0961	4.39E+04	6.5875	82.942	30.791	-0.893	0.08	26.1658	0.00E+00
10/12/2019	8:29:47 AM	30.697	15.7225	35.2883	0.9322	4.76E-02	0.0992	4.41E+04	5.8252	72.383	30.906	1.05	-0.05	26.0131	0.00E+00
10/12/2019	8:29:56 AM	30.848	15.5199	35.3843	0.6133	4.76E-02	0.1148	4.38E+04	6.5582	82.509	31.02	-0.912	0.06	26.1605	0.00E+00
10/12/2019	8:29:47 AM	30.949	15.6698	35.2722	0.9337	4.76E-02	0.0961	4.40E+04	5.8355	72.509	31.158	1.04	-0.04	26.0097	0.00E+00
10/12/2019	8:29:56 AM	31.058	15.4993	35.3755	0.6125	4.76E-02	0.1163	4.38E+04	6.5323	82.093	31.218	-0.929	0.01	26.1562	0.00E+00
10/12/2019	8:29:47 AM	31.199	15.6159	35.2592	0.936	4.76E-02	0.0899	4.39E+04	5.8601	72.815	31.412	1.033	-0.03	26.0102	0.00E+00
10/12/2019	8:29:56 AM	31.269	15.484	35.3689	0.6133	4.76E-02	0.1225	4.38E+04	6.5052	81.685	31.423	-0.931	-0.01	26.153	0.00E+00

10/12/2019	8:29:48 AM	31.446	15.5666	35.2576	0.9314	4.76E-02	0.0914	4.39E+04	5.8552	72.757	31.666	1.029	-0.02	26.021	0.00E+00
10/12/2019	8:29:55 AM	31.482	15.473	35.3646	0.6133	4.76E-02	0.1241	4.38E+04	6.4726	81.212	31.647	-0.928	-0.04	26.151	0.00E+00
10/12/2019	8:29:48 AM	31.691	15.5261	35.2673	0.8284	4.76E-02	0.1163	4.38E+04	5.8688	72.929	31.916	1.026	-0.01	26.0406	0.00E+00
10/12/2019	8:29:55 AM	31.695	15.4651	35.362	0.5896	4.76E-02	0.1116	4.38E+04	6.4375	80.73	31.861	-0.917	-0.09	26.15	0.00E+00
10/12/2019	8:29:55 AM	31.908	15.4591	35.3598	0.5919	4.76E-02	0.1194	4.38E+04	6.3947	80.161	32.108	-0.895	-0.1	26.1491	0.00E+00
10/12/2019	8:29:48 AM	31.933	15.496	35.2845	0.8269	4.76E-02	0.1179	4.38E+04	5.8763	73.028	32.148	1.016	-0.04	26.065	0.00E+00
10/12/2019	8:29:54 AM	32.12	15.4545	35.3577	0.5896	4.76E-02	0.1225	4.38E+04	6.3431	79.476	32.354	-0.871	-0.11	26.148	0.00E+00
10/12/2019	8:29:48 AM	32.172	15.475	35.3039	0.8261	4.76E-02	0.1194	4.38E+04	5.8814	73.095	32.405	1.008	-0.03	26.0891	0.00E+00
10/12/2019	8:29:54 AM	32.328	15.4511	35.356	0.5866	4.76E-02	0.1194	4.38E+04	6.2889	78.773	32.586	-0.843	-0.24	26.1471	0.00E+00
10/12/2019	8:29:49 AM	32.407	15.4603	35.3199	0.8246	4.76E-02	0.1194	4.38E+04	5.8869	73.164	32.679	1.007	0	26.1083	0.00E+00
10/12/2019	8:29:54 AM	32.532	15.4486	35.3548	0.5888	4.76E-02	0.1598	4.38E+04	6.2362	78.083	32.834	-0.782	-0.36	26.1464	0.00E+00
10/12/2019	8:29:49 AM	32.637	15.4499	35.3307	0.6384	4.76E-02	0.0945	4.38E+04	5.8946	73.259	32.96	1.017	0.04	26.1213	0.00E+00
10/12/2019	8:29:54 AM	32.729	15.4471	35.3544	0.5866	4.76E-02	0.1598	4.38E+04	6.1811	77.363	33.048	-0.691	-0.48	26.1462	0.00E+00
10/12/2019	8:29:49 AM	32.857	15.4424	35.3375	0.6377	4.76E-02	0.0945	4.38E+04	5.8987	73.309	33.245	1.034	0.07	26.1298	0.00E+00
10/12/2019	8:29:53 AM	32.917	15.4462	35.3549	0.5881	4.76E-02	0.1552	4.38E+04	6.1257	76.64	33.256	-0.571	-0.55	26.1468	0.00E+00
10/12/2019	8:29:49 AM	33.065	15.4372	35.3426	0.6369	4.76E-02	0.093	4.38E+04	5.903	73.362	33.535	1.057	0.09	26.1361	0.00E+00
10/12/2019	8:29:53 AM	33.095	15.4454	35.3559	0.5904	4.76E-02	0.1567	4.38E+04	6.0781	75.99	33.492	-0.433	-0.53	26.1479	0.00E+00
10/12/2019	8:29:49 AM	33.256	15.4337	35.3467	0.6361	4.76E-02	0.0992	4.38E+04	5.9106	73.458	33.808	1.079	0.09	26.1409	0.00E+00
10/12/2019	8:29:53 AM	33.26	15.4443	35.3568	0.5904	4.76E-02	0.1645	4.38E+04	6.0387	75.451	33.697	-0.3	-0.49	26.149	0.00E+00
10/12/2019	8:29:53 AM	33.409	15.4428	35.3571	0.6239	4.76E-02	0.236	4.38E+04	6.0035	74.956	33.901	-0.179	-0.39	26.1497	0.00E+00
10/12/2019	8:29:50 AM	33.422	15.4315	35.3496	0.6354	4.76E-02	0.093	4.38E+04	5.9119	73.478	34.092	1.101	0.09	26.1443	0.00E+00
10/12/2019	8:29:53 AM	33.54	15.4408	35.3567	0.6247	4.76E-02	0.2313	4.38E+04	5.9803	74.631	34.093	-0.082	-0.25	26.1498	0.00E+00
10/12/2019	8:29:50 AM	33.56	15.4305	35.3519	0.5995	4.76E-02	0.135	4.37E+04	5.9185	73.566	34.284	1.096	-0.02	26.1468	0.00E+00
10/12/2019	8:29:52 AM	33.647	15.4388	35.3558	0.6232	4.76E-02	0.2329	4.38E+04	5.9638	74.385	34.266	-0.018	-0.14	26.1494	0.00E+00
10/12/2019	8:29:50 AM	33.667	15.4305	35.3538	0.5988	4.76E-02	0.1334	4.37E+04	5.9214	73.606	34.333	1.024	-0.29	26.1488	0.00E+00
10/12/2019	8:29:52 AM	33.729	15.4371	35.3549	0.6239	4.76E-02	0.2375	4.38E+04	5.9514	74.182	34.332	0.017	-0.26	26.1488	0.00E+00
10/12/2019	8:29:51 AM	33.744	15.4312	35.3554	0.598	4.76E-02	0.1412	4.38E+04	5.9274	73.687	34.338	0.893	-0.52	26.1503	0.00E+00
10/12/2019	8:29:52 AM	33.786	15.436	35.355	0.5873	4.76E-02	0.2298	4.38E+04	5.9449	74.047	34.346	0.082	-0.48	26.149	0.00E+00
10/12/2019	8:29:51 AM	33.795	15.4324	35.3565	0.6026	4.76E-02	0.1318	4.38E+04	5.9324	73.758	34.341	0.725	-0.67	26.1511	0.00E+00
10/12/2019	8:29:51 AM	33.82	15.4354	35.3559	0.5911	4.76E-02	0.2329	4.38E+04	5.9393	73.924	34.347	0.202	-0.63	26.1499	0.00E+00
10/12/2019	8:29:51 AM	33.824	15.4337	35.3569	0.5881	4.76E-02	0.2406	4.38E+04	5.9326	73.771	34.342	0.541	-0.74	26.1513	0.00E+00
10/12/2019	8:29:51 AM	33.832	15.4347	35.3567	0.5896	4.76E-02	0.2329	4.38E+04	5.9403	73.889	34.345	0.359	-0.72	26.1509	0.00E+00

TRANSECT 1 - 1,000 m

DD MMM YYYY HH:MM:SS	DD MMM YYYY HH:MM:SS	DepSM	Tv290C	Sal00	FlECO-AFL	Par	TurbWETntu0	C0uS/cm	Sbeox0Mg/L	Sbeox0PS	PrdM	Dz/dtM	AccM	Sigma-t00	Flag
10/12/2019	8:31:34 AM	0.446	17.9916	35.3279	0.3264	4.76E-02	0.5577	4.63E+04	7.984	104.205	0.278	-0.134	-0.03	25.5258	0.00E+00
10/12/2019	8:31:34 AM	0.451	17.9927	35.3281	0.3645	4.76E-02	0.5732	4.63E+04	7.9795	104.154	0.289	-0.143	-0.04	25.5257	0.00E+00
10/12/2019	8:31:33 AM	0.452	17.9906	35.3275	0.321	4.76E-02	0.5577	4.63E+04	7.9804	104.155	0.306	-0.126	0.01	25.5257	0.00E+00
10/12/2019	8:31:33 AM	0.466	17.9897	35.3271	0.3226	4.76E-02	0.553	4.63E+04	7.9681	104.003	0.369	-0.13	0.1	25.5254	0.00E+00
10/12/2019	8:31:34 AM	0.466	17.9939	35.3282	0.3584	4.76E-02	0.5763	4.63E+04	7.9747	104.096	0.294	-0.139	0.02	25.5255	0.00E+00
10/12/2019	8:31:33 AM	0.487	17.9891	35.3265	0.3279	4.76E-02	0.5499	4.63E+04	7.952	103.806	0.432	-0.154	0.22	25.525	0.00E+00
10/12/2019	8:31:34 AM	0.492	17.995	35.3282	0.3607	4.76E-02	0.5856	4.63E+04	7.9685	104.019	0.307	-0.117	0.09	25.5252	0.00E+00
10/12/2019	8:31:34 AM	0.529	17.9957	35.3279	0.3607	4.76E-02	0.5763	4.63E+04	7.9616	103.935	0.38	-0.064	0.21	25.5248	0.00E+00
10/12/2019	8:31:35 AM	0.576	17.9958	35.3274	0.3355	4.76E-02	0.5996	4.63E+04	7.9527	103.822	0.452	0.009	0.29	25.5241	0.00E+00
10/12/2019	8:31:35 AM	0.631	17.9951	35.3262	0.3363	4.76E-02	0.6105	4.63E+04	7.9486	103.771	0.51	0.082	0.29	25.523	0.00E+00
10/12/2019	8:31:35 AM	0.693	17.9941	35.3248	0.334	4.76E-02	0.6058	4.63E+04	7.9471	103.738	0.606	0.154	0.29	25.5219	0.00E+00
10/12/2019	8:31:36 AM	0.761	17.9932	35.3243	0.3371	4.76E-02	0.6136	4.63E+04	7.9538	103.814	0.718	0.219	0.26	25.5217	0.00E+00
10/12/2019	8:31:36 AM	0.832	17.9929	35.3249	0.3355	4.76E-02	0.5748	4.63E+04	7.963	103.913	0.777	0.264	0.18	25.5224	0.00E+00
10/12/2019	8:31:36 AM	0.908	17.9934	35.326	0.334	4.76E-02	0.5748	4.63E+04	7.9678	103.956	0.793	0.283	0.08	25.5235	0.00E+00
10/12/2019	8:31:36 AM	0.991	17.9947	35.3274	0.3378	4.76E-02	0.5825	4.63E+04	7.9707	103.976	0.821	0.277	-0.02	25.5246	0.00E+00
10/12/2019	8:33:00 AM	1.041	18.035	35.3056	0.3096	4.76E-02	0.4784	4.63E+04	9.2611	99.018	0.859	-0.713	0.06	25.498	0.00E+00
10/12/2019	8:31:37 AM	1.084	17.9965	35.3287	0.3333	4.76E-02	0.5794	4.63E+04	7.9695	103.945	0.893	0.26	-0.07	25.5255	0.00E+00
10/12/2019	8:33:00 AM	1.172	18.034	35.3123	0.3111	4.76E-02	0.4784	4.63E+04	9.1562	98.6	0.981	-0.728	0	25.5034	0.00E+00
10/12/2019	8:31:37 AM	1.19	17.9981	35.3293	0.3363	4.76E-02	0.5825	4.63E+04	7.9744	103.999	1	0.256	-0.01	25.5256	0.00E+00
10/12/2019	8:31:37 AM	1.307	17.999	35.3286	0.3493	4.76E-02	0.5794	4.63E+04	7.9774	104.035	1.146	0.275	0.07	25.5247	0.00E+00
10/12/2019	8:32:59 AM	1.314	18.033	35.3165	0.3249	4.76E-02	0.424	4.63E+04	9.1391	98.371	1.17	-0.728	0.03	25.5069	0.00E+00
10/12/2019	8:31:37 AM	1.434	17.9991	35.3273	0.3455	4.76E-02	0.5841	4.63E+04	7.9831	104.095	1.321	0.313	0.15	25.5233	0.00E+00
10/12/2019	8:32:59 AM	1.466	18.032	35.3196	0.3241	4.76E-02	0.4302	4.63E+04	9.17	98.442	1.352	-0.735	0.04	25.5095	0.00E+00
10/12/2019	8:31:37 AM	1.569	17.9978	35.3254	0.347	4.76E-02	0.5825	4.63E+04	7.9856	104.114	1.506	0.378	0.26	25.5216	0.00E+00
10/12/2019	8:32:59 AM	1.625	18.031	35.3222	0.3218	4.76E-02	0.4318	4.63E+04	9.1089	98.964	1.559	-0.745	0.09	25.512	0.00E+00
10/12/2019	8:31:38 AM	1.709	17.9961	35.3232	0.3523	4.76E-02	0.581	4.63E+04	7.9866	104.114	1.68	0.467	0.36	25.5198	0.00E+00
10/12/2019	8:32:59 AM	1.79	18.0297	35.3245	0.3241	4.76E-02	0.4287	4.63E+04	9.1121	100.155	1.722	-0.768	0.08	25.5144	0.00E+00
10/12/2019	8:31:38 AM	1.851	17.9954	35.3227	0.3584	4.76E-02	0.6043	4.63E+04	7.981	104.04	1.841	0.554	0.35	25.5198	0.00E+00
10/12/2019	8:32:59 AM	1.959	18.0278	35.3267	0.334	4.76E-02	0.4287	4.63E+04	9.0968	101.495	1.905	-0.788	0.05	25.5169	0.00E+00
10/12/2019	8:31:38 AM	1.994	17.9961	35.325	0.3607	4.76E-02	0.6043	4.63E+04	7.9798	104.019	1.983	0.614	0.24	25.522	0.00E+00
10/12/2019	8:32:58 AM	2.133	18.0253	35.3291	0.3348	4.76E-02	0.4318	4.63E+04	8.092	102.649	2.08	-0.8	0.03	25.5198	0.00E+00
10/12/2019	8:31:39 AM	2.139	17.9974	35.3275	0.3592	4.76E-02	0.6074	4.63E+04	7.9785	103.999	2.12	0.64	0.11	25.5241	0.00E+00
10/12/2019	8:31:39 AM	2.287	17.9987	35.3282	0.36	4.76E-02	0.6089	4.63E+04	7.9732	103.93	2.252	0.639	0	25.5244	0.00E+00
10/12/2019	8:32:58 AM	2.311	18.022	35.3316	0.3348	4.76E-02	0.4271	4.63E+04	7.9128	103.346	2.25	-0.806	-0.02	25.523	0.00E+00
10/12/2019	8:31:39 AM	2.437	17.9996	35.3277	0.3683	4.76E-02	0.6571	4.63E+04	7.9749	103.953	2.358	0.612	-0.11	25.5238	0.00E+00
10/12/2019	8:32:58 AM	2.492	18.0178	35.3339	0.3355	4.76E-02	0.4333	4.63E+04	7.946	103.785	2.452	-0.8	-0.01	25.5263	0.00E+00
10/12/2019	8:31:39 AM	2.594	17.9999	35.3271	0.3706	4.76E-02	0.6618	4.63E+04	7.9742	103.941	2.448	0.566	-0.18	25.523	0.00E+00
10/12/2019	8:32:57 AM	2.678	18.0126	35.3358	0.4187	4.76E-02	0.4551	4.63E+04	7.9608	103.98	2.64	-0.798	-0.01	25.5294	0.00E+00
10/12/2019	8:31:39 AM	2.76	17.9989	35.326	0.3729	4.76E-02	0.654	4.63E+04	7.9785	103.993	2.574	0.525	-0.16	25.5219	0.00E+00
10/12/2019	8:32:57 AM	2.867	18.0066	35.3374	0.4179	4.76E-02	0.452	4.63E+04	7.9708	104.118	2.845	-0.794	0	25.5323	0.00E+00
10/12/2019	8:31:40 AM	2.937	17.996	35.3239	0.3722	4.76E-02	0.6494	4.63E+04	7.9824	104.04	2.778	0.517	-0.03	25.5202	0.00E+00
10/12/2019	8:32:57 AM	3.057	17.9999	35.3383	0.4195	4.76E-02	0.4582	4.63E+04	7.9797	104.237	3.049	-0.794	0.03	25.5347	0.00E+00
10/12/2019	8:31:40 AM	3.126	17.9911	35.3208	0.3745	4.76E-02	0.6525	4.63E+04	7.9881	104.113	3.013	0.545	0.11	25.5181	0.00E+00
10/12/2019	8:32:57 AM	3.25	17.9928	35.338	0.4179	4.76E-02	0.4566	4.63E+04	7.9775	104.207	3.265	-0.801	0.03	25.5362	0.00E+00
10/12/2019	8:31:40 AM	3.322	17.9847	35.3178	0.3737	4.76E-02	0.6509	4.63E+04	7.9885	104.119	3.235	0.597	0.21	25.5165	0.00E+00
10/12/2019	8:32:56 AM	3.442	17.9857	35.3372	0.5621	4.76E-02	0.4722	4.63E+04	7.9737	104.157	3.475	-0.809	0.02	25.5371	0.00E+00
10/12/2019	8:31:41 AM	3.525	17.9772	35.3158	0.3691	4.76E-02	0.654	4.63E+04	7.9896	104.135	3.458	0.663	0.26	25.5162	0.00E+00
10/12/2019	8:32:56 AM	3.635	17.9789	35.3363	0.5644	4.76E-02	0.4769	4.63E+04	7.9709	104.119	3.653	-0.815	-0.09	25.5377	0.00E+00
10/12/2019	8:31:41 AM	3.734	17.9695	35.3149	0.3706	4.76E-02	0.654	4.63E+04	7.9891	104.13	3.695	0.739	0.3	25.5171	0.00E+00
10/12/2019	8:32:56 AM	3.827	17.9729	35.3351	0.5652	4.76E-02	0.4831	4.63E+04	7.9698	104.101	3.851	-0.791	-0.17	25.5379	0.00E+00

10/12/2019	8:31:41 AM	3.946	17.9622	35.3153	0.3722	4.76E-02	0.6571	4.62E+04	7.9916	104.166	3.92	0.814	0.3	25.5193	0.00E+00
10/12/2019	8:32:56 AM	4.019	17.9676	35.3334	0.566	4.76E-02	0.4815	4.63E+04	7.9684	104.085	4.034	-0.749	-0.2	25.5374	0.00E+00
10/12/2019	8:31:41 AM	4.162	17.9557	35.3169	0.4546	4.76E-02	0.6494	4.62E+04	7.9945	104.199	4.123	0.868	0.21	25.5224	0.00E+00
10/12/2019	8:32:56 AM	4.211	17.9632	35.3318	0.5637	4.76E-02	0.4784	4.62E+04	7.9687	104.089	4.243	-0.7	-0.18	25.5368	0.00E+00
10/12/2019	8:31:41 AM	4.381	17.9499	35.3188	0.4561	4.76E-02	0.654	4.62E+04	7.9928	104.158	4.336	0.89	0.09	25.5256	0.00E+00
10/12/2019	8:32:55 AM	4.402	17.9599	35.3307	0.5789	4.76E-02	0.525	4.62E+04	7.9676	104.072	4.449	-0.654	-0.09	25.5364	0.00E+00
10/12/2019	8:32:55 AM	4.593	17.9574	35.3299	0.5774	4.76E-02	0.5266	4.62E+04	7.968	104.074	4.658	-0.632	-0.01	25.5361	0.00E+00
10/12/2019	8:31:42 AM	4.605	17.9445	35.3207	0.4599	4.76E-02	0.6587	4.62E+04	7.9915	104.123	4.56	0.889	-0.01	25.5287	0.00E+00
10/12/2019	8:32:55 AM	4.78	17.9556	35.3297	0.5766	4.76E-02	0.5219	4.62E+04	7.976	104.175	4.884	-0.629	0.06	25.5363	0.00E+00
10/12/2019	8:31:42 AM	4.833	17.939	35.3216	0.4599	4.76E-02	0.6587	4.62E+04	7.9881	104.062	4.799	0.887	-0.01	25.5308	0.00E+00
10/12/2019	8:32:54 AM	4.963	17.9541	35.3303	0.5774	4.76E-02	0.5235	4.62E+04	7.9802	104.231	5.078	-0.644	0.12	25.5371	0.00E+00
10/12/2019	8:31:42 AM	5.065	17.9339	35.3218	0.5515	4.76E-02	0.7022	4.62E+04	7.9852	104.017	5.038	0.892	0.02	25.5323	0.00E+00
10/12/2019	8:32:54 AM	5.141	17.9528	35.3314	0.614	4.76E-02	0.5079	4.62E+04	7.9879	104.331	5.258	-0.673	0.13	25.5385	0.00E+00
10/12/2019	8:31:42 AM	5.3	17.93	35.3233	0.5537	4.76E-02	0.7084	4.62E+04	7.9815	103.964	5.279	0.901	0.03	25.5348	0.00E+00
10/12/2019	8:32:54 AM	5.314	17.9513	35.3325	0.6117	4.76E-02	0.5064	4.62E+04	7.9875	104.324	5.372	-0.705	0.1	25.5399	0.00E+00
10/12/2019	8:32:54 AM	5.486	17.9493	35.3336	0.6133	4.76E-02	0.4986	4.62E+04	7.9905	104.361	5.485	-0.729	0.05	25.5415	0.00E+00
10/12/2019	8:31:43 AM	5.539	17.9272	35.3257	0.5553	4.76E-02	0.7022	4.62E+04	7.9786	103.925	5.51	0.909	0.03	25.5379	0.00E+00
10/12/2019	8:32:54 AM	5.658	17.9468	35.3343	0.6125	4.76E-02	0.5048	4.62E+04	7.9938	104.399	5.639	-0.743	0.06	25.5428	0.00E+00
10/12/2019	8:31:43 AM	5.781	17.925	35.3277	0.5507	4.76E-02	0.7006	4.62E+04	7.9747	103.875	5.747	0.922	0.05	25.5403	0.00E+00
10/12/2019	8:32:53 AM	5.834	17.9439	35.3342	0.6857	4.76E-02	0.5002	4.62E+04	7.9952	104.412	5.793	-0.757	0.08	25.5434	0.00E+00
10/12/2019	8:32:53 AM	6.014	17.9407	35.3336	0.6819	4.76E-02	0.4971	4.62E+04	7.9945	104.392	6.009	-0.777	0.12	25.5436	0.00E+00
10/12/2019	8:31:43 AM	6.027	17.9233	35.3289	0.6606	4.76E-02	0.6058	4.62E+04	7.9692	103.797	5.997	0.941	0.07	25.542	0.00E+00
10/12/2019	8:32:53 AM	6.196	17.9378	35.3332	0.6857	4.76E-02	0.5002	4.62E+04	7.993	104.362	6.209	-0.806	0.12	25.5439	0.00E+00
10/12/2019	8:31:44 AM	6.277	17.9221	35.33	0.6613	4.76E-02	0.6136	4.62E+04	7.9701	103.798	6.265	0.96	0.07	25.5433	0.00E+00
10/12/2019	8:32:52 AM	6.38	17.9352	35.3331	0.6865	4.76E-02	0.5017	4.62E+04	7.9905	104.316	6.386	-0.835	0.04	25.5444	0.00E+00
10/12/2019	8:31:44 AM	6.53	17.9209	35.3308	0.6628	4.76E-02	0.5996	4.62E+04	7.9707	103.789	6.538	0.98	0.08	25.5444	0.00E+00
10/12/2019	8:32:52 AM	6.565	17.9328	35.3332	0.7422	4.76E-02	0.5297	4.62E+04	7.9877	104.264	6.568	-0.845	-0.03	25.545	0.00E+00
10/12/2019	8:32:52 AM	6.753	17.9305	35.3334	0.7445	4.76E-02	0.5281	4.62E+04	7.9863	104.231	6.726	-0.838	-0.08	25.5458	0.00E+00
10/12/2019	8:31:44 AM	6.785	17.9196	35.3311	0.6606	4.76E-02	0.6058	4.62E+04	7.9691	103.744	6.812	1.001	0.08	25.5449	0.00E+00
10/12/2019	8:32:52 AM	6.945	17.9282	35.3337	0.7452	4.76E-02	0.5281	4.62E+04	7.9856	104.202	6.923	-0.818	-0.08	25.5466	0.00E+00
10/12/2019	8:31:44 AM	7.04	17.9183	35.3311	0.6911	4.76E-02	0.5312	4.62E+04	7.9656	103.675	7.084	1.024	0.09	25.5452	0.00E+00
10/12/2019	8:32:52 AM	7.14	17.9259	35.3342	0.7445	4.76E-02	0.5328	4.62E+04	7.9832	104.159	7.128	-0.799	-0.1	25.5476	0.00E+00
10/12/2019	8:31:44 AM	7.295	17.9173	35.3315	0.7346	4.76E-02	0.5312	4.62E+04	7.9621	103.611	7.356	1.046	0.09	25.5458	0.00E+00
10/12/2019	8:32:51 AM	7.338	17.9235	35.3352	0.7422	4.76E-02	0.5297	4.62E+04	7.988	104.208	7.35	-0.775	-0.12	25.5491	0.00E+00
10/12/2019	8:32:51 AM	7.538	17.921	35.3367	0.8078	4.76E-02	0.4271	4.62E+04	7.9892	104.215	7.606	-0.745	-0.05	25.5511	0.00E+00
10/12/2019	8:31:45 AM	7.549	17.9166	35.3321	0.7307	4.76E-02	0.525	4.62E+04	7.9592	103.563	7.619	1.065	0.08	25.5466	0.00E+00
10/12/2019	8:32:51 AM	7.736	17.918	35.3386	0.807	4.76E-02	0.4271	4.62E+04	7.9904	104.221	7.826	-0.733	-0.01	25.5536	0.00E+00
10/12/2019	8:31:45 AM	7.801	17.916	35.3327	0.7307	4.76E-02	0.525	4.62E+04	7.9625	103.587	7.868	1.072	0.03	25.5473	0.00E+00
10/12/2019	8:32:50 AM	7.932	17.9145	35.3408	0.8032	4.76E-02	0.4349	4.62E+04	7.9927	104.248	8.029	-0.731	0.06	25.5565	0.00E+00
10/12/2019	8:31:45 AM	8.052	17.9153	35.3332	0.7315	4.76E-02	0.5297	4.62E+04	7.9696	103.57	8.118	1.067	-0.02	25.5479	0.00E+00
10/12/2019	8:32:50 AM	8.125	17.9102	35.3429	0.804	4.76E-02	0.4302	4.62E+04	7.9917	104.233	8.188	-0.745	0.05	25.5596	0.00E+00
10/12/2019	8:31:46 AM	8.302	17.9139	35.3332	0.8429	4.76E-02	0.5748	4.62E+04	7.9825	103.566	8.36	1.051	-0.06	25.548	0.00E+00
10/12/2019	8:32:50 AM	8.317	17.9051	35.345	0.9604	4.76E-02	0.3075	4.62E+04	7.9934	104.253	8.349	-0.757	0.06	25.5628	0.00E+00
10/12/2019	8:32:50 AM	8.509	17.8992	35.3462	0.9581	4.76E-02	0.309	4.62E+04	7.9878	104.179	8.549	-0.772	0.13	25.5655	0.00E+00
10/12/2019	8:31:46 AM	8.55	17.9114	35.3324	0.8391	4.76E-02	0.5779	4.62E+04	7.9813	103.346	8.605	1.033	-0.07	25.5476	0.00E+00
10/12/2019	8:32:49 AM	8.701	17.8926	35.3466	0.9551	4.76E-02	0.3043	4.62E+04	7.9877	104.179	8.762	-0.805	0.18	25.5674	0.00E+00
10/12/2019	8:31:46 AM	8.799	17.9072	35.3307	0.8399	4.76E-02	0.581	4.62E+04	7.9783	103.085	8.851	1.015	-0.07	25.5466	0.00E+00
10/12/2019	8:32:49 AM	8.894	17.8857	35.3471	0.9589	4.76E-02	0.3059	4.62E+04	7.9855	104.147	8.946	-0.849	0.12	25.5694	0.00E+00
10/12/2019	8:31:46 AM	9.047	17.9014	35.3282	0.8399	4.76E-02	0.5779	4.62E+04	7.9729	102.788	9.093	0.999	-0.06	25.5453	0.00E+00
10/12/2019	8:32:49 AM	9.086	17.879	35.348	0.9718	4.76E-02	0.1878	4.62E+04	7.9869	104.162	9.101	-0.88	-0.01	25.5717	0.00E+00
10/12/2019	8:32:49 AM	9.28	17.8724	35.3489	0.9688	4.76E-02	0.1831	4.62E+04	7.9883	104.173	9.286	-0.877	-0.09	25.5741	0.00E+00

10/12/2019	8:31:46 AM	9.296	17.8954	35.3264	0.8772	4.76E-02	0.3479	4.62E+04	7.9672	102.512	9.336	0.986	-0.05	25.545	0.00E+00
10/12/2019	8:32:49 AM	9.477	17.8657	35.35	0.9718	4.76E-02	0.1847	4.62E+04	7.9901	104.189	9.469	-0.855	-0.14	25.5768	0.00E+00
10/12/2019	8:31:47 AM	9.545	17.8901	35.3268	0.8772	4.76E-02	0.3572	4.62E+04	7.9526	102.174	9.579	0.979	-0.03	25.5467	0.00E+00
10/12/2019	8:32:48 AM	9.677	17.8587	35.3516	0.9711	4.76E-02	0.1847	4.62E+04	7.9854	104.12	9.689	-0.819	-0.12	25.5799	0.00E+00
10/12/2019	8:31:47 AM	9.795	17.8858	35.3288	0.8803	4.76E-02	0.3556	4.62E+04	7.9435	101.952	9.826	0.977	-0.01	25.5497	0.00E+00
10/12/2019	8:32:48 AM	9.88	17.8514	35.353	1.0054	4.76E-02	0.1769	4.61E+04	7.9861	104.121	9.894	-0.79	-0.14	25.583	0.00E+00
10/12/2019	8:31:47 AM	10.047	17.8822	35.3309	0.8811	4.76E-02	0.3541	4.62E+04	7.9384	101.811	10.069	0.976	0	25.5526	0.00E+00
10/12/2019	8:32:48 AM	10.085	17.8436	35.3538	1.0046	4.76E-02	0.1738	4.61E+04	7.9858	104.115	10.133	-0.754	-0.08	25.5857	0.00E+00
10/12/2019	8:32:47 AM	10.291	17.8355	35.3548	1.0069	4.76E-02	0.1754	4.61E+04	7.9847	104.096	10.392	-0.734	0.02	25.5885	0.00E+00
10/12/2019	8:31:48 AM	10.301	17.8787	35.3322	0.9451	4.76E-02	0.2577	4.62E+04	7.9338	101.709	10.328	0.98	0.02	25.5547	0.00E+00
10/12/2019	8:32:47 AM	10.494	17.8271	35.3567	1.0069	4.76E-02	0.1738	4.61E+04	7.9859	104.109	10.632	-0.738	0.12	25.5923	0.00E+00
10/12/2019	8:31:48 AM	10.556	17.8743	35.3322	0.9459	4.76E-02	0.2515	4.62E+04	7.937	101.72	10.597	0.99	0.04	25.5556	0.00E+00
10/12/2019	8:32:47 AM	10.692	17.8186	35.3607	1.0062	4.76E-02	0.1831	4.61E+04	7.9895	104.151	10.82	-0.768	0.12	25.598	0.00E+00
10/12/2019	8:31:48 AM	10.812	17.8683	35.3308	0.949	4.76E-02	0.2515	4.62E+04	7.9456	101.779	10.883	1.008	0.07	25.5554	0.00E+00
10/12/2019	8:32:47 AM	10.887	17.8094	35.3676	1.0672	4.76E-02	0.1552	4.61E+04	7.988	104.127	10.965	-0.798	0.1	25.6067	0.00E+00
10/12/2019	8:31:48 AM	11.068	17.86	35.3278	0.9467	4.76E-02	0.2546	4.62E+04	7.9466	101.726	11.158	1.029	0.09	25.5542	0.00E+00
10/12/2019	8:32:47 AM	11.08	17.7985	35.3766	1.0695	4.76E-02	0.1598	4.61E+04	7.988	104.123	11.131	-0.823	0.07	25.618	0.00E+00
10/12/2019	8:32:46 AM	11.274	17.7846	35.3874	1.0672	4.76E-02	0.1583	4.61E+04	7.9892	104.136	11.312	-0.841	0.06	25.6318	0.00E+00
10/12/2019	8:31:48 AM	11.322	17.8491	35.324	0.9459	4.76E-02	0.2375	4.62E+04	7.9538	101.733	11.414	1.046	0.07	25.5528	0.00E+00
10/12/2019	8:32:46 AM	11.47	17.7668	35.3999	1.0664	4.76E-02	0.1552	4.61E+04	7.9871	104.105	11.52	-0.855	-0.03	25.6483	0.00E+00
10/12/2019	8:31:49 AM	11.575	17.8356	35.3198	0.9703	4.76E-02	0.2313	4.61E+04	7.951	101.622	11.668	1.057	0.04	25.5515	0.00E+00
10/12/2019	8:32:46 AM	11.666	17.7441	35.414	1.2	4.76E-02	0.1303	4.61E+04	7.9819	104.03	11.697	-0.849	-0.15	25.6676	0.00E+00
10/12/2019	8:31:49 AM	11.826	17.8191	35.3154	0.9703	4.76E-02	0.2282	4.61E+04	7.9485	101.52	11.924	1.061	0.02	25.5508	0.00E+00
10/12/2019	8:32:45 AM	11.864	17.7158	35.4298	1.2007	4.76E-02	0.135	4.60E+04	7.9793	103.988	11.911	-0.811	-0.13	25.6898	0.00E+00
10/12/2019	8:32:45 AM	12.063	17.6812	35.4473	1.2	4.76E-02	0.1334	4.60E+04	7.9767	103.943	12.119	-0.778	-0.11	25.7154	0.00E+00
10/12/2019	8:31:49 AM	12.075	17.7982	35.3104	0.968	4.76E-02	0.2282	4.61E+04	7.9452	101.41	12.168	1.057	-0.02	25.5503	0.00E+00
10/12/2019	8:32:45 AM	12.263	17.6394	35.4651	1.2015	4.76E-02	0.1334	4.60E+04	7.9738	103.892	12.346	-0.75	-0.09	25.743	0.00E+00
10/12/2019	8:31:49 AM	12.322	17.7694	35.3025	0.9696	4.76E-02	0.236	4.61E+04	7.9414	101.31	12.405	1.041	-0.07	25.5483	0.00E+00
10/12/2019	8:32:45 AM	12.463	17.5896	35.4786	1.483	4.76E-02	0.1365	4.59E+04	7.9731	103.867	12.544	-0.726	-0.08	25.7685	0.00E+00
10/12/2019	8:31:50 AM	12.569	17.727	35.2877	1.068	4.76E-02	0.1754	4.60E+04	7.9373	101.222	12.627	1.014	-0.11	25.5421	0.00E+00
10/12/2019	8:32:45 AM	12.661	17.5322	35.4836	1.4815	4.76E-02	0.1334	4.59E+04	7.9705	103.817	12.774	-0.706	-0.04	25.7877	0.00E+00
10/12/2019	8:31:50 AM	12.816	17.6665	35.2619	1.0649	4.76E-02	0.1847	4.60E+04	7.9313	101.112	12.871	0.989	-0.1	25.5293	0.00E+00
10/12/2019	8:32:44 AM	12.856	17.4697	35.4815	1.4823	4.76E-02	0.1303	4.58E+04	7.9659	103.748	12.992	-0.696	0.03	25.8012	0.00E+00
10/12/2019	8:32:44 AM	13.047	17.4061	35.4811	1.4853	4.76E-02	0.1303	4.57E+04	7.9647	103.719	13.218	-0.703	0.1	25.8159	0.00E+00
10/12/2019	8:31:50 AM	13.064	17.5898	35.2289	1.0664	4.76E-02	0.1862	4.59E+04	7.9251	101.006	13.129	0.977	-0.05	25.5143	0.00E+00
10/12/2019	8:32:44 AM	13.234	17.3439	35.4863	2.0095	4.76E-02	0.1567	4.57E+04	7.969	103.764	13.357	-0.728	0.07	25.8354	0.00E+00
10/12/2019	8:31:51 AM	13.312	17.5033	35.2021	1.0657	4.76E-02	0.1878	4.58E+04	7.9165	100.874	13.373	0.972	-0.02	25.5085	0.00E+00
10/12/2019	8:32:43 AM	13.417	17.2816	35.4873	2.014	4.76E-02	0.1567	4.56E+04	7.9695	103.756	13.475	-0.746	0	25.8513	0.00E+00
10/12/2019	8:31:51 AM	13.561	17.4129	35.1878	1.277	4.76E-02	0.1287	4.57E+04	7.9053	100.711	13.619	0.97	-0.01	25.5163	0.00E+00
10/12/2019	8:32:43 AM	13.6	17.2176	35.4782	2.0133	4.76E-02	0.1552	4.55E+04	7.9704	103.756	13.672	-0.745	-0.02	25.8583	0.00E+00
10/12/2019	8:32:43 AM	13.784	17.1543	35.4653	2.0156	4.76E-02	0.1552	4.55E+04	7.9807	103.874	13.871	-0.74	0.02	25.8609	0.00E+00
10/12/2019	8:31:51 AM	13.812	17.3245	35.1833	1.2732	4.76E-02	0.1334	4.56E+04	7.89	100.501	13.86	0.969	0	25.5338	0.00E+00
10/12/2019	8:32:43 AM	13.967	17.096	35.4537	2.0117	4.76E-02	0.1583	4.54E+04	7.9829	103.882	14.041	-0.745	0	25.8631	0.00E+00
10/12/2019	8:31:51 AM	14.064	17.2449	35.1901	1.2778	4.76E-02	0.1334	4.55E+04	7.874	100.284	14.11	0.975	0.02	25.5609	0.00E+00
10/12/2019	8:32:42 AM	14.15	17.044	35.4428	2.5	4.76E-02	0.2515	4.54E+04	7.991	103.975	14.23	-0.746	-0.01	25.8646	0.00E+00
10/12/2019	8:31:51 AM	14.318	17.1784	35.2098	1.277	4.76E-02	0.1303	4.55E+04	7.859	100.086	14.362	0.983	0.03	25.5974	0.00E+00
10/12/2019	8:32:42 AM	14.334	16.9976	35.4305	2.5016	4.76E-02	0.2546	4.53E+04	8.002	104.105	14.4	-0.743	-0.08	25.8636	0.00E+00
10/12/2019	8:32:42 AM	14.518	16.9563	35.4191	2.5016	4.76E-02	0.2593	4.53E+04	8.0098	104.198	14.603	-0.724	-0.06	25.862	0.00E+00
10/12/2019	8:31:52 AM	14.575	17.1248	35.2353	1.7333	4.76E-02	0.1536	4.54E+04	7.8431	99.877	14.621	0.993	0.04	25.6362	0.00E+00
10/12/2019	8:32:42 AM	14.701	16.9208	35.4101	2.4993	4.76E-02	0.2593	4.52E+04	8.0223	104.346	14.788	-0.71	-0.03	25.8611	0.00E+00
10/12/2019	8:31:52 AM	14.833	17.0818	35.2582	1.7333	4.76E-02	0.1614	4.54E+04	7.8411	99.844	14.879	0.999	0.02	25.6697	0.00E+00

10/12/2019	8:32:42 AM	14.885	16.8908	35.4029	2.336	4.76E-02	0.152	4.52E+04	8.0349	104.491	14.978	-0.701	0.01	25.8609	0.00E+00
10/12/2019	8:32:41 AM	15.067	16.8652	35.3983	2.3375	4.76E-02	0.1567	4.52E+04	8.0451	104.586	15.168	-0.704	0.03	25.862	0.00E+00
10/12/2019	8:31:52 AM	15.093	17.0465	35.2761	1.7363	4.76E-02	0.1598	4.53E+04	7.8201	99.566	15.151	1.007	0.04	25.6963	0.00E+00
10/12/2019	8:32:41 AM	15.25	16.8431	35.3942	2.336	4.76E-02	0.1598	4.52E+04	8.0539	104.667	15.328	-0.71	0.02	25.8632	0.00E+00
10/12/2019	8:31:53 AM	15.356	17.0148	35.2884	1.7317	4.76E-02	0.1505	4.53E+04	7.83	99.677	15.421	1.022	0.06	25.7161	0.00E+00
10/12/2019	8:32:41 AM	15.432	16.8232	35.3888	2.3406	4.76E-02	0.152	4.51E+04	8.06	104.682	15.534	-0.716	0.06	25.8626	0.00E+00
10/12/2019	8:32:40 AM	15.613	16.8054	35.3835	2.3993	4.76E-02	0.2329	4.51E+04	8.0596	104.621	15.718	-0.731	0.08	25.8615	0.00E+00
10/12/2019	8:31:53 AM	15.619	16.9828	35.2922	1.7325	4.76E-02	0.135	4.53E+04	7.8398	99.788	15.701	1.04	0.07	25.7275	0.00E+00
10/12/2019	8:32:40 AM	15.793	16.7902	35.3824	2.3955	4.76E-02	0.2344	4.51E+04	8.0544	104.458	15.89	-0.75	0.06	25.8636	0.00E+00
10/12/2019	8:31:53 AM	15.882	16.9489	35.2881	2.0018	4.76E-02	0.1334	4.53E+04	7.8379	99.752	15.974	1.058	0.07	25.7319	0.00E+00
10/12/2019	8:32:40 AM	15.973	16.7774	35.3848	2.3947	4.76E-02	0.2313	4.51E+04	8.0403	104.177	16.032	-0.766	0.06	25.8686	0.00E+00
10/12/2019	8:31:53 AM	16.146	16.9141	35.2822	2.0003	4.76E-02	0.1365	4.52E+04	7.8271	99.6	16.245	1.072	0.05	25.7349	0.00E+00
10/12/2019	8:32:40 AM	16.154	16.7651	35.3855	2.397	4.76E-02	0.2329	4.51E+04	8.0309	103.905	16.201	-0.78	0.04	25.8723	0.00E+00
10/12/2019	8:32:40 AM	16.338	16.7519	35.383	2.4794	4.76E-02	0.2018	4.51E+04	8.029	103.741	16.393	-0.789	0.03	25.8731	0.00E+00
10/12/2019	8:31:53 AM	16.409	16.8801	35.2794	1.9995	4.76E-02	0.1318	4.52E+04	7.8187	99.478	16.504	1.079	0.03	25.7409	0.00E+00
10/12/2019	8:32:39 AM	16.524	16.7387	35.3797	2.4756	4.76E-02	0.208	4.51E+04	8.0206	103.483	16.599	-0.796	0	25.873	0.00E+00
10/12/2019	8:31:54 AM	16.671	16.8483	35.2814	2.0003	4.76E-02	0.1334	4.51E+04	7.8094	99.339	16.777	1.083	0.02	25.7506	0.00E+00
10/12/2019	8:32:39 AM	16.711	16.7268	35.3774	2.4771	4.76E-02	0.2064	4.50E+04	8.0021	103.143	16.779	-0.795	-0.03	25.8734	0.00E+00
10/12/2019	8:32:39 AM	16.899	16.7165	35.3756	2.4794	4.76E-02	0.2096	4.50E+04	7.986	102.812	16.978	-0.788	-0.04	25.8739	0.00E+00
10/12/2019	8:31:54 AM	16.933	16.8195	35.2864	2.1376	4.76E-02	0.1567	4.51E+04	7.7981	99.179	17.065	1.089	0.02	25.7626	0.00E+00
10/12/2019	8:32:38 AM	17.089	16.7074	35.3743	2.4771	4.76E-02	0.2064	4.50E+04	7.9778	102.579	17.169	-0.779	-0.06	25.8747	0.00E+00
10/12/2019	8:31:54 AM	17.192	16.7946	35.2937	2.1308	4.76E-02	0.1536	4.51E+04	7.783	98.975	17.345	1.093	0.02	25.7757	0.00E+00
10/12/2019	8:32:38 AM	17.279	16.6994	35.3737	2.4649	4.76E-02	0.2298	4.50E+04	7.976	102.372	17.366	-0.764	-0.06	25.8759	0.00E+00
10/12/2019	8:31:55 AM	17.448	16.7736	35.3031	2.1338	4.76E-02	0.1583	4.51E+04	7.765	98.738	17.622	1.097	0.02	25.7898	0.00E+00
10/12/2019	8:32:38 AM	17.47	16.692	35.3732	2.4665	4.76E-02	0.2282	4.50E+04	7.9648	102.146	17.547	-0.749	-0.08	25.8771	0.00E+00
10/12/2019	8:32:38 AM	17.662	16.6849	35.3722	2.468	4.76E-02	0.236	4.50E+04	7.9508	101.852	17.778	-0.729	-0.03	25.8778	0.00E+00
10/12/2019	8:31:55 AM	17.699	16.7559	35.3125	2.1346	4.76E-02	0.1536	4.51E+04	7.7469	98.502	17.887	1.097	0	25.8029	0.00E+00
10/12/2019	8:32:38 AM	17.853	16.6782	35.3708	2.468	4.76E-02	0.2329	4.50E+04	7.93	101.52	17.987	-0.721	0.01	25.878	0.00E+00
10/12/2019	8:31:55 AM	17.945	16.7408	35.3201	2.645	4.76E-02	0.1831	4.50E+04	7.7381	98.386	18.15	1.096	0	25.8137	0.00E+00
10/12/2019	8:32:37 AM	18.042	16.6721	35.3698	2.526	4.76E-02	0.18	4.50E+04	7.945	101.609	18.182	-0.723	0.06	25.8783	0.00E+00
10/12/2019	8:31:55 AM	18.184	16.7281	35.3267	2.6458	4.76E-02	0.1847	4.50E+04	7.7263	98.232	18.392	1.087	-0.03	25.823	0.00E+00
10/12/2019	8:32:37 AM	18.229	16.6667	35.3697	2.5283	4.76E-02	0.1862	4.50E+04	7.9265	101.324	18.345	-0.739	0.06	25.8793	0.00E+00
10/12/2019	8:32:37 AM	18.415	16.6618	35.3702	2.5275	4.76E-02	0.1862	4.50E+04	7.9143	101.122	18.533	-0.755	0.07	25.8809	0.00E+00
10/12/2019	8:31:55 AM	18.417	16.7175	35.3329	2.6458	4.76E-02	0.1847	4.50E+04	7.7159	98.099	18.61	1.066	-0.09	25.8313	0.00E+00
10/12/2019	8:32:36 AM	18.6	16.6571	35.3713	2.5244	4.76E-02	0.1754	4.50E+04	7.9065	100.978	18.713	-0.773	0.04	25.883	0.00E+00
10/12/2019	8:31:56 AM	18.644	16.7087	35.3381	2.6496	4.76E-02	0.1785	4.50E+04	7.7078	97.995	18.822	1.029	-0.14	25.8383	0.00E+00
10/12/2019	8:32:36 AM	18.785	16.6522	35.3726	2.5145	4.76E-02	0.208	4.50E+04	7.8889	100.727	18.889	-0.784	-0.03	25.8854	0.00E+00
10/12/2019	8:31:56 AM	18.866	16.7014	35.3425	2.6366	4.76E-02	0.2018	4.50E+04	7.6998	97.891	19.047	0.989	-0.16	25.8442	0.00E+00
10/12/2019	8:32:36 AM	18.969	16.6467	35.3738	2.5115	4.76E-02	0.2096	4.50E+04	7.8769	100.527	19.073	-0.775	-0.07	25.8879	0.00E+00
10/12/2019	8:31:56 AM	19.083	16.6952	35.3463	2.6336	4.76E-02	0.2096	4.50E+04	7.6915	97.783	19.28	0.956	-0.13	25.8492	0.00E+00
10/12/2019	8:32:36 AM	19.153	16.6407	35.3749	2.5115	4.76E-02	0.2096	4.50E+04	7.8671	100.372	19.252	-0.759	-0.11	25.8903	0.00E+00
10/12/2019	8:31:56 AM	19.294	16.6894	35.349	2.6336	4.76E-02	0.2096	4.50E+04	7.6951	97.825	19.509	0.93	-0.1	25.8529	0.00E+00
10/12/2019	8:32:35 AM	19.338	16.6342	35.3757	2.5168	4.76E-02	0.2033	4.50E+04	7.8603	100.257	19.437	-0.732	-0.12	25.8926	0.00E+00
10/12/2019	8:31:57 AM	19.499	16.6836	35.3503	2.6366	4.76E-02	0.2018	4.50E+04	7.6902	97.751	19.725	0.91	-0.08	25.8554	0.00E+00
10/12/2019	8:32:35 AM	19.524	16.6273	35.3757	2.6458	4.76E-02	0.208	4.49E+04	7.8503	100.123	19.626	-0.701	-0.14	25.8943	0.00E+00
10/12/2019	8:31:57 AM	19.697	16.6773	35.3504	2.6328	4.76E-02	0.2531	4.50E+04	7.6902	97.735	19.91	0.886	-0.09	25.8568	0.00E+00
10/12/2019	8:32:35 AM	19.709	16.62	35.3746	2.6465	4.76E-02	0.2018	4.49E+04	7.8391	99.965	19.844	-0.667	-0.06	25.8951	0.00E+00
10/12/2019	8:31:57 AM	19.888	16.6707	35.3497	2.645	4.76E-02	0.2826	4.50E+04	7.6918	97.736	20.103	0.867	-0.08	25.8577	0.00E+00
10/12/2019	8:32:35 AM	19.893	16.6129	35.3728	2.6442	4.76E-02	0.1987	4.49E+04	7.8323	99.842	20.057	-0.652	0.01	25.895	0.00E+00
10/12/2019	8:31:58 AM	20.073	16.6639	35.349	2.6496	4.76E-02	0.2841	4.50E+04	7.6924	97.719	20.297	0.85	-0.07	25.8586	0.00E+00
10/12/2019	8:32:35 AM	20.073	16.6063	35.3708	2.648	4.76E-02	0.2049	4.49E+04	7.8261	99.727	20.258	-0.653	0.06	25.8946	0.00E+00

10/12/2019	8:32:34 AM	20.25	16.6005	35.3696	2.6465	4.76E-02	0.2049	4.49E+04	7.821	99.642	20.436	-0.668	0.04	25.8947	0.00E+00
10/12/2019	8:31:58 AM	20.251	16.6568	35.3487	2.645	4.76E-02	0.2795	4.50E+04	7.6898	97.663	20.485	0.83	-0.08	25.86	0.00E+00
10/12/2019	8:31:58 AM	20.422	16.6494	35.3484	2.6442	4.76E-02	0.281	4.50E+04	7.6827	97.545	20.642	0.796	-0.13	25.8614	0.00E+00
10/12/2019	8:32:34 AM	20.422	16.5957	35.3696	2.4771	4.76E-02	0.2033	4.49E+04	7.8165	99.57	20.574	-0.679	-0.02	25.8957	0.00E+00
10/12/2019	8:31:58 AM	20.586	16.6418	35.3478	2.4688	4.76E-02	0.7037	4.50E+04	7.6638	97.28	20.782	0.754	-0.17	25.8626	0.00E+00
10/12/2019	8:32:34 AM	20.591	16.5914	35.37	2.4802	4.76E-02	0.2064	4.49E+04	7.8073	99.438	20.737	-0.674	-0.04	25.8971	0.00E+00
10/12/2019	8:31:58 AM	20.745	16.6343	35.3473	2.4672	4.76E-02	0.7022	4.50E+04	7.6467	97.027	20.916	0.71	-0.18	25.864	0.00E+00
10/12/2019	8:32:33 AM	20.759	16.5871	35.3705	2.481	4.76E-02	0.2064	4.49E+04	7.8006	99.339	20.887	-0.663	-0.08	25.8986	0.00E+00
10/12/2019	8:31:59 AM	20.901	16.6276	35.3478	2.4649	4.76E-02	0.7006	4.49E+04	7.6232	96.68	21.044	0.666	-0.17	25.8661	0.00E+00
10/12/2019	8:32:33 AM	20.926	16.5826	35.371	2.4787	4.76E-02	0.2064	4.49E+04	7.8013	99.339	21.054	-0.643	-0.09	25.9002	0.00E+00
10/12/2019	8:31:59 AM	21.055	16.6221	35.3495	2.4665	4.76E-02	0.7084	4.49E+04	7.5887	96.188	21.178	0.629	-0.15	25.8692	0.00E+00
10/12/2019	8:32:33 AM	21.092	16.5778	35.3716	2.4985	4.76E-02	0.1862	4.49E+04	7.7971	99.269	21.207	-0.619	-0.09	25.9018	0.00E+00
10/12/2019	8:31:59 AM	21.209	16.6176	35.352	2.6259	4.76E-02	0.2313	4.49E+04	7.5483	95.63	21.32	0.594	-0.14	25.8727	0.00E+00
10/12/2019	8:32:33 AM	21.258	16.5727	35.3728	2.5038	4.76E-02	0.1816	4.49E+04	7.7922	99.194	21.402	-0.596	-0.02	25.9041	0.00E+00
10/12/2019	8:32:00 AM	21.363	16.6141	35.3543	2.6229	4.76E-02	0.2266	4.49E+04	7.5094	95.1	21.475	0.57	-0.09	25.8757	0.00E+00
10/12/2019	8:32:33 AM	21.422	16.5674	35.3747	2.5046	4.76E-02	0.1847	4.49E+04	7.7843	99.08	21.588	-0.59	0.03	25.9071	0.00E+00
10/12/2019	8:32:00 AM	21.517	16.6112	35.3562	2.6206	4.76E-02	0.2298	4.49E+04	7.4673	94.53	21.642	0.564	-0.02	25.8782	0.00E+00
10/12/2019	8:32:32 AM	21.584	16.5616	35.3769	2.5031	4.76E-02	0.1831	4.49E+04	7.7714	98.909	21.769	-0.598	0.05	25.9106	0.00E+00
10/12/2019	8:32:00 AM	21.671	16.6088	35.3577	2.6236	4.76E-02	0.2298	4.49E+04	7.4256	93.969	21.813	0.577	0.05	25.8802	0.00E+00
10/12/2019	8:32:32 AM	21.742	16.5549	35.3791	2.4802	4.76E-02	0.2049	4.49E+04	7.7581	98.734	21.91	-0.611	0.02	25.9143	0.00E+00
10/12/2019	8:32:00 AM	21.824	16.6067	35.3588	2.6587	4.76E-02	0.18	4.49E+04	7.3828	93.393	21.956	0.592	0.06	25.8818	0.00E+00
10/12/2019	8:32:32 AM	21.897	16.5474	35.3813	2.4794	4.76E-02	0.2064	4.49E+04	7.7477	98.594	22.046	-0.616	-0.04	25.9182	0.00E+00
10/12/2019	8:32:00 AM	21.976	16.6045	35.3594	2.6564	4.76E-02	0.1831	4.49E+04	7.339	92.806	22.067	0.596	0.01	25.8828	0.00E+00
10/12/2019	8:32:31 AM	22.051	16.5389	35.3836	2.4771	4.76E-02	0.2064	4.49E+04	7.7301	98.364	22.187	-0.606	-0.06	25.9224	0.00E+00
10/12/2019	8:32:01 AM	22.132	16.602	35.3593	2.6587	4.76E-02	0.1831	4.49E+04	7.2983	92.256	22.114	0.571	-0.1	25.8832	0.00E+00
10/12/2019	8:32:31 AM	22.204	16.5294	35.3862	2.4787	4.76E-02	0.2049	4.49E+04	7.7228	98.259	22.326	-0.591	-0.07	25.9271	0.00E+00
10/12/2019	8:32:01 AM	22.297	16.5985	35.3582	2.658	4.76E-02	0.18	4.49E+04	7.2617	91.734	22.18	0.526	-0.18	25.8829	0.00E+00
10/12/2019	8:32:31 AM	22.356	16.5189	35.3884	2.3825	4.76E-02	0.1614	4.48E+04	7.7141	98.138	22.466	-0.575	-0.02	25.9317	0.00E+00
10/12/2019	8:32:01 AM	22.474	16.5935	35.356	2.6564	4.76E-02	0.1816	4.49E+04	7.2314	91.246	22.353	0.496	-0.12	25.8818	0.00E+00
10/12/2019	8:32:31 AM	22.51	16.5072	35.389	2.3841	4.76E-02	0.1598	4.48E+04	7.7099	98.07	22.629	-0.571	0.05	25.9352	0.00E+00
10/12/2019	8:32:31 AM	22.663	16.4947	35.3879	2.3848	4.76E-02	0.1567	4.48E+04	7.7001	97.931	22.805	-0.583	0.1	25.9371	0.00E+00
10/12/2019	8:32:02 AM	22.667	16.5865	35.3526	2.6603	4.76E-02	0.2049	4.49E+04	7.1992	90.713	22.584	0.497	0	25.88	0.00E+00
10/12/2019	8:32:30 AM	22.816	16.4821	35.3869	2.3856	4.76E-02	0.1536	4.48E+04	7.6887	97.77	22.978	-0.608	0.09	25.939	0.00E+00
10/12/2019	8:32:02 AM	22.873	16.5775	35.3484	2.6595	4.76E-02	0.208	4.49E+04	7.1738	90.277	22.822	0.529	0.13	25.8779	0.00E+00
10/12/2019	8:32:30 AM	22.967	16.4701	35.3881	2.3879	4.76E-02	0.1629	4.48E+04	7.6771	97.604	23.117	-0.63	0.06	25.9428	0.00E+00
10/12/2019	8:32:02 AM	23.089	16.567	35.3445	2.658	4.76E-02	0.2096	4.49E+04	7.123	89.539	23.073	0.594	0.26	25.8765	0.00E+00
10/12/2019	8:32:30 AM	23.116	16.4586	35.3919	2.0224	4.76E-02	0.2251	4.48E+04	7.6645	97.431	23.247	-0.645	0.03	25.949	0.00E+00
10/12/2019	8:32:30 AM	23.266	16.4466	35.3976	2.0232	4.76E-02	0.222	4.48E+04	7.6551	97.3	23.356	-0.653	0.01	25.9571	0.00E+00
10/12/2019	8:32:02 AM	23.315	16.5548	35.3409	2.6549	4.76E-02	0.2064	4.49E+04	7.082	88.95	23.33	0.689	0.38	25.8759	0.00E+00
10/12/2019	8:32:29 AM	23.418	16.4327	35.4024	2.024	4.76E-02	0.236	4.48E+04	7.6387	97.089	23.49	-0.655	-0.01	25.965	0.00E+00
10/12/2019	8:32:02 AM	23.548	16.5411	35.3373	2.4367	4.76E-02	0.1831	4.49E+04	7.0273	88.208	23.585	0.798	0.44	25.8756	0.00E+00
10/12/2019	8:32:29 AM	23.574	16.4164	35.4042	2.024	4.76E-02	0.2313	4.47E+04	7.6256	96.917	23.635	-0.653	0	25.9707	0.00E+00
10/12/2019	8:32:29 AM	23.733	16.3983	35.402	1.9522	4.76E-02	0.1738	4.47E+04	7.6144	96.769	23.831	-0.653	0.03	25.9731	0.00E+00
10/12/2019	8:32:03 AM	23.787	16.5257	35.3338	2.4352	4.76E-02	0.1754	4.48E+04	6.967	87.405	23.84	0.904	0.42	25.8758	0.00E+00
10/12/2019	8:32:28 AM	23.895	16.3797	35.3965	1.953	4.76E-02	0.18	4.47E+04	7.6046	96.633	24.033	-0.661	0.08	25.9723	0.00E+00
10/12/2019	8:32:03 AM	24.031	16.5083	35.3303	2.4306	4.76E-02	0.1785	4.48E+04	6.8831	86.304	24.095	0.975	0.29	25.8763	0.00E+00
10/12/2019	8:32:28 AM	24.056	16.3625	35.392	1.9499	4.76E-02	0.1831	4.47E+04	7.5887	96.424	24.209	-0.681	0.1	25.9716	0.00E+00
10/12/2019	8:32:28 AM	24.217	16.348	35.3923	1.9522	4.76E-02	0.18	4.47E+04	7.5706	96.184	24.332	-0.705	0.05	25.9747	0.00E+00
10/12/2019	8:32:03 AM	24.279	16.4883	35.326	2.4337	4.76E-02	0.1862	4.48E+04	6.7913	85.108	24.347	1.004	0.11	25.8766	0.00E+00
10/12/2019	8:32:28 AM	24.38	16.3357	35.3963	1.9187	4.76E-02	0.1287	4.47E+04	7.5507	95.924	24.474	-0.717	-0.01	25.981	0.00E+00
10/12/2019	8:32:03 AM	24.532	16.4659	35.3205	2.3734	4.76E-02	0.1598	4.48E+04	6.6923	83.819	24.598	1.012	0.03	25.8765	0.00E+00

10/12/2019	8:32:28 AM	24.544	16.3234	35.4011	1.9187	4.76E-02	0.1334	4.47E+04	7.5351	95.715	24.622	-0.715	-0.08	25.9884	0.00E+00
10/12/2019	8:32:27 AM	24.712	16.3097	35.4063	1.9156	4.76E-02	0.1303	4.46E+04	7.5091	95.375	24.81	-0.695	-0.08	25.9966	0.00E+00
10/12/2019	8:32:04 AM	24.789	16.4426	35.316	2.3711	4.76E-02	0.1567	4.48E+04	6.6042	82.631	24.865	1.02	0.03	25.8777	0.00E+00
10/12/2019	8:32:27 AM	24.883	16.2938	35.4114	1.9141	4.76E-02	0.1272	4.46E+04	7.4972	95.207	24.989	-0.675	-0.08	26.0054	0.00E+00
10/12/2019	8:32:04 AM	25.05	16.4197	35.315	2.3711	4.76E-02	0.1552	4.47E+04	6.5281	81.559	25.147	1.029	0.04	25.8821	0.00E+00
10/12/2019	8:32:27 AM	25.055	16.2755	35.4161	1.8904	4.76E-02	0.3292	4.46E+04	7.4839	95.025	25.191	-0.654	0.02	26.0142	0.00E+00
10/12/2019	8:32:26 AM	25.228	16.2548	35.4201	1.8935	4.76E-02	0.3292	4.46E+04	7.4632	94.741	25.364	-0.66	0.11	26.0229	0.00E+00
10/12/2019	8:32:04 AM	25.313	16.3976	35.3166	2.3741	4.76E-02	0.1645	4.47E+04	6.4556	80.526	25.427	1.042	0.05	25.8888	0.00E+00
10/12/2019	8:32:26 AM	25.401	16.232	35.4219	1.8904	4.76E-02	0.3354	4.46E+04	7.441	94.444	25.537	-0.687	0.15	26.03	0.00E+00
10/12/2019	8:32:26 AM	25.574	16.2078	35.4227	1.8904	4.76E-02	0.3277	4.45E+04	7.4144	94.077	25.711	-0.725	0.17	26.0363	0.00E+00
10/12/2019	8:32:05 AM	25.578	16.3756	35.3183	1.9782	4.76E-02	0.2282	4.47E+04	6.3952	79.676	25.709	1.059	0.07	25.8955	0.00E+00
10/12/2019	8:32:26 AM	25.748	16.1832	35.4261	1.8943	4.76E-02	0.3323	4.45E+04	7.39	93.743	25.887	-0.768	0.16	26.0451	0.00E+00
10/12/2019	8:32:05 AM	25.844	16.353	35.3187	1.9744	4.76E-02	0.2298	4.47E+04	6.3414	78.948	25.988	1.076	0.07	25.9009	0.00E+00
10/12/2019	8:32:26 AM	25.922	16.1583	35.4347	1.6028	4.76E-02	0.208	4.45E+04	7.3668	93.419	26.048	-0.807	0.11	26.0588	0.00E+00
10/12/2019	8:32:25 AM	26.098	16.1316	35.4457	1.6036	4.76E-02	0.208	4.45E+04	7.3498	93.186	26.188	-0.835	0.03	26.0755	0.00E+00
10/12/2019	8:32:05 AM	26.11	16.3288	35.3175	1.9744	4.76E-02	0.2391	4.46E+04	6.2947	78.327	26.249	1.088	0.05	25.9051	0.00E+00
10/12/2019	8:32:25 AM	26.277	16.1009	35.4542	1.6028	4.76E-02	0.2018	4.45E+04	7.332	92.95	26.344	-0.843	-0.08	26.0911	0.00E+00
10/12/2019	8:32:05 AM	26.377	16.3014	35.3139	1.9766	4.76E-02	0.2282	4.46E+04	6.2354	77.561	26.496	1.09	0.01	25.9076	0.00E+00
10/12/2019	8:32:25 AM	26.461	16.0653	35.4564	1.6036	4.76E-02	0.2127	4.44E+04	7.3206	92.789	26.5	-0.825	-0.15	26.102	0.00E+00
10/12/2019	8:32:05 AM	26.645	16.2685	35.3067	1.9759	4.76E-02	0.2282	4.46E+04	6.1697	76.72	26.743	1.082	-0.03	25.9077	0.00E+00
10/12/2019	8:32:24 AM	26.651	16.0261	35.4519	1.0428	4.76E-02	0.18	4.44E+04	7.3146	92.69	26.724	-0.787	-0.11	26.1073	0.00E+00
10/12/2019	8:32:24 AM	26.845	15.9859	35.4439	1.0451	4.76E-02	0.1723	4.43E+04	7.3049	92.534	26.974	-0.758	-0.06	26.1092	0.00E+00
10/12/2019	8:32:06 AM	26.917	16.2279	35.2943	1.9858	4.76E-02	0.1816	4.45E+04	6.0981	75.811	27.015	1.071	-0.05	25.9045	0.00E+00
10/12/2019	8:32:24 AM	27.041	15.9475	35.4345	1.0428	4.76E-02	0.1847	4.43E+04	7.2917	92.316	27.199	-0.743	0.01	26.109	0.00E+00
10/12/2019	8:32:06 AM	27.191	16.1796	35.2767	1.9919	4.76E-02	0.1831	4.45E+04	6.0308	74.958	27.305	1.065	-0.02	25.8986	0.00E+00
10/12/2019	8:32:24 AM	27.237	15.9126	35.426	1.0413	4.76E-02	0.18	4.42E+04	7.2743	92.059	27.415	-0.744	0.03	26.1087	0.00E+00
10/12/2019	8:32:24 AM	27.432	15.8817	35.4194	0.878	4.76E-02	0.1179	4.42E+04	7.2491	91.697	27.606	-0.753	0.04	26.1092	0.00E+00
10/12/2019	8:32:06 AM	27.468	16.1273	35.2595	1.9911	4.76E-02	0.18	4.44E+04	5.96	74.066	27.595	1.067	0.01	25.8947	0.00E+00
10/12/2019	8:32:23 AM	27.625	15.8545	35.4155	0.878	4.76E-02	0.1132	4.42E+04	7.2248	91.379	27.797	-0.762	0.06	26.1113	0.00E+00
10/12/2019	8:32:07 AM	27.747	16.0759	35.2508	1.9858	4.76E-02	0.1769	4.44E+04	5.9042	73.364	27.875	1.074	0.03	25.8992	0.00E+00
10/12/2019	8:32:23 AM	27.817	15.8302	35.4164	0.8757	4.76E-02	0.1163	4.42E+04	7.1974	91.021	27.982	-0.778	0.09	26.1174	0.00E+00
10/12/2019	8:32:23 AM	28.009	15.8075	35.4204	0.878	4.76E-02	0.1163	4.41E+04	7.1573	90.511	28.135	-0.801	0.12	26.1262	0.00E+00
10/12/2019	8:32:07 AM	28.027	16.0286	35.2531	1.6768	4.76E-02	0.1163	4.43E+04	5.8571	72.774	28.156	1.087	0.05	25.913	0.00E+00
10/12/2019	8:32:23 AM	28.203	15.7841	35.4248	0.7933	4.76E-02	0.0914	4.41E+04	7.1207	90.016	28.316	-0.83	0.13	26.1358	0.00E+00
10/12/2019	8:32:07 AM	28.309	15.9865	35.2619	1.6799	4.76E-02	0.1148	4.43E+04	5.8233	72.352	28.437	1.105	0.07	25.9316	0.00E+00
10/12/2019	8:32:22 AM	28.399	15.7586	35.4282	0.7933	4.76E-02	0.0961	4.41E+04	7.0809	89.493	28.526	-0.863	0.17	26.1451	0.00E+00
10/12/2019	8:32:07 AM	28.593	15.9486	35.2723	1.6776	4.76E-02	0.1179	4.43E+04	5.8104	72.19	28.707	1.118	0.05	25.9505	0.00E+00
10/12/2019	8:32:22 AM	28.597	15.731	35.429	0.7887	4.76E-02	0.093	4.41E+04	7.0254	88.753	28.713	-0.905	0.11	26.1527	0.00E+00
10/12/2019	8:32:22 AM	28.797	15.7015	35.4297	0.791	4.76E-02	0.0883	4.40E+04	6.9646	87.944	28.929	-0.933	0.05	26.1603	0.00E+00
10/12/2019	8:32:07 AM	28.88	15.9129	35.2806	1.6791	4.76E-02	0.1148	4.42E+04	5.8044	72.115	28.979	1.123	0.02	25.9665	0.00E+00
10/12/2019	8:32:21 AM	29	15.671	35.4313	0.7941	4.76E-02	0.0945	4.40E+04	6.8925	86.994	29.118	-0.946	-0.03	26.169	0.00E+00
10/12/2019	8:32:08 AM	29.171	15.877	35.284	1.0565	4.76E-02	0.1334	4.42E+04	5.8058	72.134	29.279	1.124	0.01	25.9779	0.00E+00
10/12/2019	8:32:21 AM	29.205	15.6396	35.4299	0.6506	4.76E-02	0.1179	4.40E+04	6.8134	85.945	29.307	-0.94	-0.13	26.1752	0.00E+00
10/12/2019	8:32:21 AM	29.415	15.607	35.423	0.6499	4.76E-02	0.1148	4.39E+04	6.7421	85.011	29.517	-0.908	-0.17	26.1765	0.00E+00
10/12/2019	8:32:08 AM	29.465	15.8388	35.2823	1.0535	4.76E-02	0.135	4.41E+04	5.8112	72.205	29.589	1.13	0.02	25.9847	0.00E+00
10/12/2019	8:32:21 AM	29.627	15.5746	35.4115	0.6499	4.76E-02	0.1194	4.39E+04	6.6762	84.147	29.746	-0.866	-0.2	26.1733	0.00E+00
10/12/2019	8:32:08 AM	29.761	15.7957	35.2761	1.0535	4.76E-02	0.1303	4.41E+04	5.8194	72.31	29.909	1.146	0.06	25.9881	0.00E+00
10/12/2019	8:32:21 AM	29.842	15.5451	35.3988	0.6491	4.76E-02	0.1225	4.39E+04	6.6204	83.413	30.016	-0.815	-0.15	26.1679	0.00E+00
10/12/2019	8:32:20 AM	30.057	15.5203	35.3874	0.6232	4.76E-02	0.1132	4.38E+04	6.5741	82.782	30.277	-0.776	-0.14	26.1624	0.00E+00
10/12/2019	8:32:09 AM	30.059	15.7459	35.2639	1.0542	4.76E-02	0.135	4.41E+04	5.8267	72.404	30.224	1.169	0.09	25.9874	0.00E+00
10/12/2019	8:32:20 AM	30.269	15.5008	35.3777	0.6255	4.76E-02	0.1101	4.38E+04	6.543	82.318	30.538	-0.74	-0.12	26.1574	0.00E+00

10/12/2019	8:32:09 AM	30.357	15.6914	35.2475	0.8803	4.76E-02	0.1101	4.40E+04	5.8348	72.509	30.539	1.194	0.1	25.9846	0.00E+00
10/12/2019	8:32:20 AM	30.474	15.4862	35.3701	0.627	4.76E-02	0.1194	4.38E+04	6.515	81.89	30.755	-0.711	-0.12	26.1532	0.00E+00
10/12/2019	8:32:09 AM	30.654	15.6384	35.2367	0.8765	4.76E-02	0.1194	4.39E+04	5.835	72.514	30.853	1.219	0.1	25.9876	0.00E+00
10/12/2019	8:32:19 AM	30.674	15.4756	35.3644	0.6239	4.76E-02	0.1163	4.38E+04	6.4878	81.455	30.937	-0.681	-0.16	26.1498	0.00E+00
10/12/2019	8:32:19 AM	30.867	15.4683	35.3603	0.6712	4.76E-02	0.1148	4.38E+04	6.4612	81.066	31.132	-0.641	-0.1	26.1474	0.00E+00
10/12/2019	8:32:09 AM	30.949	15.5923	35.2395	0.8765	4.76E-02	0.1179	4.39E+04	5.8503	72.706	31.159	1.239	0.08	26.0021	0.00E+00
10/12/2019	8:32:19 AM	31.055	15.4634	35.3578	0.6728	4.76E-02	0.1148	4.38E+04	6.419	80.471	31.305	-0.615	-0.05	26.1459	0.00E+00
10/12/2019	8:32:19 AM	31.239	15.4601	35.356	0.6728	4.76E-02	0.1148	4.38E+04	6.3778	79.918	31.5	-0.602	0.01	26.1449	0.00E+00
10/12/2019	8:32:10 AM	31.242	15.5551	35.2537	0.8811	4.76E-02	0.1163	4.38E+04	5.8596	72.826	31.472	1.251	0.05	26.0251	0.00E+00
10/12/2019	8:32:19 AM	31.416	15.458	35.3546	0.6697	4.76E-02	0.1116	4.38E+04	6.3288	79.269	31.676	-0.605	0.04	26.144	0.00E+00
10/12/2019	8:32:10 AM	31.532	15.5258	35.2721	0.8757	4.76E-02	0.1194	4.38E+04	5.8663	72.913	31.782	1.253	0.01	26.0496	0.00E+00
10/12/2019	8:32:18 AM	31.589	15.4566	35.3537	0.5873	4.76E-02	0.0914	4.38E+04	6.2671	78.466	31.87	-0.613	0.09	26.1434	0.00E+00
10/12/2019	8:32:18 AM	31.755	15.4558	35.3533	0.5888	4.76E-02	0.0945	4.38E+04	6.2062	77.685	32.016	-0.635	0.07	26.1432	0.00E+00
10/12/2019	8:32:10 AM	31.817	15.5027	35.2887	0.6918	4.76E-02	0.121	4.38E+04	5.8772	73.051	32.101	1.252	0	26.0708	0.00E+00
10/12/2019	8:32:18 AM	31.917	15.4554	35.3534	0.5896	4.76E-02	0.0961	4.38E+04	6.145	76.89	32.149	-0.654	0.08	26.1433	0.00E+00
10/12/2019	8:32:17 AM	32.075	15.4552	35.354	0.5866	4.76E-02	0.093	4.38E+04	6.0826	76.063	32.28	-0.674	0.04	26.1439	0.00E+00
10/12/2019	8:32:10 AM	32.095	15.4843	35.3015	0.6972	4.76E-02	0.121	4.38E+04	5.8863	73.164	32.409	1.249	-0.01	26.0873	0.00E+00
10/12/2019	8:32:17 AM	32.231	15.4549	35.3547	0.5919	4.76E-02	0.0914	4.38E+04	6.0344	75.425	32.393	-0.685	-0.04	26.1446	0.00E+00
10/12/2019	8:32:10 AM	32.365	15.4697	35.3115	0.6979	4.76E-02	0.1101	4.38E+04	5.8985	73.315	32.727	1.249	0	26.1002	0.00E+00
10/12/2019	8:32:17 AM	32.388	15.4544	35.355	0.6102	4.76E-02	0.121	4.38E+04	5.995	74.875	32.569	-0.676	-0.06	26.1451	0.00E+00
10/12/2019	8:32:17 AM	32.545	15.4536	35.3549	0.6117	4.76E-02	0.1163	4.38E+04	5.9645	74.448	32.761	-0.661	-0.09	26.1451	0.00E+00
10/12/2019	8:32:11 AM	32.623	15.4581	35.3198	0.6934	4.76E-02	0.1163	4.38E+04	5.904	73.382	33.034	1.249	0	26.1107	0.00E+00
10/12/2019	8:32:17 AM	32.7	15.4526	35.3546	0.614	4.76E-02	0.1148	4.38E+04	5.9423	74.133	32.938	-0.638	-0.13	26.1451	0.00E+00
10/12/2019	8:32:16 AM	32.852	15.4518	35.3544	0.614	4.76E-02	0.1225	4.38E+04	5.9323	73.94	33.101	-0.606	-0.23	26.145	0.00E+00
10/12/2019	8:32:11 AM	32.867	15.4492	35.3267	0.6636	4.76E-02	0.1194	4.38E+04	5.9136	73.5	33.338	1.247	-0.01	26.1194	0.00E+00
10/12/2019	8:32:16 AM	33	15.4512	35.354	0.5766	4.76E-02	0.1318	4.38E+04	5.9271	73.821	33.264	-0.549	-0.32	26.1448	0.00E+00
10/12/2019	8:32:11 AM	33.093	15.4427	35.3328	0.6636	4.76E-02	0.121	4.38E+04	5.9169	73.544	33.645	1.245	-0.01	26.1267	0.00E+00
10/12/2019	8:32:16 AM	33.143	15.4507	35.3537	0.5766	4.76E-02	0.1318	4.38E+04	5.9289	73.786	33.417	-0.469	-0.39	26.1445	0.00E+00
10/12/2019	8:32:16 AM	33.279	15.4504	35.3538	0.5804	4.76E-02	0.1334	4.38E+04	5.9309	73.782	33.607	-0.371	-0.37	26.1447	0.00E+00
10/12/2019	8:32:12 AM	33.296	15.4382	35.3382	0.6606	4.76E-02	0.1101	4.37E+04	5.9281	73.683	33.954	1.241	-0.01	26.1329	0.00E+00
10/12/2019	8:32:15 AM	33.407	15.4502	35.3548	0.5766	4.76E-02	0.1334	4.38E+04	5.932	73.771	33.774	-0.278	-0.34	26.1456	0.00E+00
10/12/2019	8:32:12 AM	33.47	15.4354	35.343	0.6621	4.76E-02	0.1163	4.37E+04	5.9307	73.717	34.245	1.233	-0.03	26.138	0.00E+00
10/12/2019	8:32:15 AM	33.524	15.45	35.3563	0.627	4.76E-02	0.2313	4.38E+04	5.9336	73.775	33.931	-0.193	-0.28	26.147	0.00E+00
10/12/2019	8:32:12 AM	33.609	15.4338	35.3468	0.5866	4.76E-02	0.1396	4.37E+04	5.9329	73.745	34.337	1.168	-0.26	26.142	0.00E+00
10/12/2019	8:32:15 AM	33.628	15.4494	35.3575	0.6239	4.76E-02	0.2329	4.38E+04	5.9323	73.751	34.071	-0.124	-0.2	26.1483	0.00E+00
10/12/2019	8:32:12 AM	33.716	15.4334	35.3499	0.5881	4.76E-02	0.1256	4.37E+04	5.9353	73.779	34.368	1.047	-0.48	26.145	0.00E+00
10/12/2019	8:32:14 AM	33.716	15.4481	35.3579	0.6255	4.76E-02	0.2313	4.38E+04	5.9357	73.787	34.18	-0.074	-0.13	26.1491	0.00E+00
10/12/2019	8:32:14 AM	33.786	15.4464	35.358	0.6239	4.76E-02	0.2313	4.38E+04	5.9359	73.787	34.277	-0.041	-0.09	26.1495	0.00E+00
10/12/2019	8:32:12 AM	33.793	15.434	35.3524	0.5873	4.76E-02	0.1287	4.38E+04	5.9342	73.766	34.368	0.878	-0.68	26.1473	0.00E+00
10/12/2019	8:32:14 AM	33.839	15.4446	35.358	0.5751	4.76E-02	0.2546	4.38E+04	5.9394	73.831	34.317	-0.019	-0.15	26.15	0.00E+00
10/12/2019	8:32:13 AM	33.847	15.4353	35.3547	0.585	4.76E-02	0.1303	4.38E+04	5.9392	73.828	34.364	0.683	-0.78	26.1492	0.00E+00
10/12/2019	8:32:14 AM	33.874	15.4427	35.3579	0.5782	4.76E-02	0.2593	4.38E+04	5.9402	73.839	34.328	0.019	-0.42	26.1503	0.00E+00
10/12/2019	8:32:13 AM	33.879	15.437	35.3564	0.5789	4.76E-02	0.2593	4.38E+04	5.9408	73.847	34.355	0.478	-0.82	26.1503	0.00E+00
10/12/2019	8:32:14 AM	33.892	15.4408	35.3576	0.5759	4.76E-02	0.2593	4.38E+04	5.9414	73.852	34.338	0.125	-0.64	26.1505	0.00E+00
10/12/2019	8:32:13 AM	33.894	15.4389	35.3572	0.5751	4.76E-02	0.2531	4.38E+04	5.9395	73.829	34.347	0.285	-0.77	26.1506	0.00E+00

TRANSECT 1 - 1,250 m

DD MMM YYYY HH:MM:SS	DD MMM YYYY HH:MM:SS	DepSM	Tv290C	Sal00	FlECO-AFL	Par	TurbWETntu0	C0uS/cm	Sbeox0Mg/L	Sbeox0PS	PrdM	Dz/dtM	AccM	Sigma-t00	Flag
10/12/2019	8:34:42 AM	0.589	18.0468	35.3216	0.0624	4.76E-02	0.6058	4.63E+04	7.8781	102.943	0.627	0.172	0.35	25.5074	0.00E+00
10/12/2019	8:34:43 AM	0.642	18.0484	35.3225	0.2974	4.76E-02	0.6043	4.63E+04	7.8797	102.96	0.701	0.246	0.3	25.5079	0.00E+00
10/12/2019	8:34:43 AM	0.692	18.0495	35.3226	0.2974	4.76E-02	0.6074	4.63E+04	7.8754	102.898	0.748	0.289	0.17	25.5076	0.00E+00
10/12/2019	8:34:43 AM	0.739	18.05	35.3217	0.2989	4.76E-02	0.6074	4.63E+04	7.8662	102.774	0.768	0.306	0.07	25.5065	0.00E+00
10/12/2019	8:34:44 AM	0.785	18.0499	35.3205	0.2997	4.76E-02	0.6074	4.63E+04	7.8576	102.66	0.765	0.301	-0.02	25.5053	0.00E+00
10/12/2019	8:34:44 AM	0.832	18.0498	35.3195	0.2264	4.76E-02	0.4737	4.63E+04	7.8542	102.617	0.771	0.267	-0.13	25.5045	0.00E+00
10/12/2019	8:34:44 AM	0.883	18.0501	35.3193	0.2264	4.76E-02	0.4769	4.63E+04	7.8502	102.57	0.781	0.204	-0.26	25.5043	0.00E+00
10/12/2019	8:34:44 AM	0.941	18.0509	35.3198	0.231	4.76E-02	0.48	4.63E+04	7.8521	102.596	0.798	0.124	-0.32	25.5047	0.00E+00
10/12/2019	8:36:15 AM	0.95	18.0036	35.1562	0.3737	4.76E-02	0.8048	4.61E+04	7.2327	94.216	0.788	-0.672	0.08	25.3907	0.00E+00
10/12/2019	8:34:44 AM	1.008	18.0521	35.3206	0.2272	4.76E-02	0.4753	4.63E+04	7.8661	102.775	0.848	0.083	-0.16	25.5053	0.00E+00
10/12/2019	8:36:15 AM	1.078	18.0055	35.2223	0.3699	4.76E-02	0.8048	4.62E+04	7.6334	96.76	0.931	-0.691	0.05	25.4408	0.00E+00
10/12/2019	8:34:45 AM	1.084	18.0536	35.3212	0.2226	4.76E-02	0.5996	4.63E+04	7.8833	102.994	0.938	0.088	0.02	25.5056	0.00E+00
10/12/2019	8:34:45 AM	1.17	18.055	35.3214	0.2264	4.76E-02	0.6043	4.63E+04	7.9035	103.252	1.058	0.129	0.16	25.5054	0.00E+00
10/12/2019	8:36:15 AM	1.215	18.0071	35.263	0.347	4.76E-02	0.7271	4.62E+04	8.2771	98.976	1.102	-0.703	-0.03	25.4719	0.00E+00
10/12/2019	8:34:45 AM	1.263	18.0561	35.321	0.2249	4.76E-02	0.6074	4.63E+04	7.9198	103.46	1.178	0.195	0.26	25.5047	0.00E+00
10/12/2019	8:36:14 AM	1.36	18.008	35.2891	0.347	4.76E-02	0.7333	4.62E+04	7.9561	100.759	1.299	-0.696	-0.02	25.4922	0.00E+00
10/12/2019	8:34:45 AM	1.362	18.0569	35.3203	0.2249	4.76E-02	0.6058	4.63E+04	7.931	103.602	1.304	0.271	0.31	25.5039	0.00E+00
10/12/2019	8:34:46 AM	1.465	18.0573	35.3196	0.2264	4.76E-02	0.5856	4.63E+04	7.9387	103.697	1.431	0.345	0.3	25.5031	0.00E+00
10/12/2019	8:36:14 AM	1.509	18.0078	35.3064	0.35	4.76E-02	0.7364	4.63E+04	7.865	101.965	1.463	-0.691	-0.04	25.5062	0.00E+00
10/12/2019	8:34:46 AM	1.571	18.0575	35.3191	0.2287	4.76E-02	0.5856	4.63E+04	7.9373	103.674	1.531	0.403	0.23	25.5025	0.00E+00
10/12/2019	8:36:14 AM	1.663	18.006	35.3177	0.347	4.76E-02	0.7302	4.63E+04	7.9773	102.643	1.591	-0.682	-0.1	25.516	0.00E+00
10/12/2019	8:34:46 AM	1.681	18.0575	35.3187	0.2257	4.76E-02	0.581	4.63E+04	7.9287	103.556	1.597	0.432	0.11	25.502	0.00E+00
10/12/2019	8:34:47 AM	1.797	18.0571	35.3184	0.2264	4.76E-02	0.5872	4.63E+04	7.9161	103.384	1.653	0.426	-0.02	25.5017	0.00E+00
10/12/2019	8:36:14 AM	1.821	18.0026	35.3246	0.3958	4.76E-02	0.7037	4.63E+04	8.5742	102.987	1.779	-0.657	-0.02	25.5226	0.00E+00
10/12/2019	8:34:47 AM	1.922	18.0565	35.3181	0.2501	4.76E-02	0.8079	4.63E+04	7.9128	103.319	1.76	0.409	-0.07	25.5015	0.00E+00
10/12/2019	8:36:14 AM	1.982	17.9979	35.3287	0.3958	4.76E-02	0.7131	4.63E+04	9.1503	103.206	1.959	-0.651	0.01	25.5272	0.00E+00
10/12/2019	8:34:47 AM	2.057	18.0556	35.3178	0.2493	4.76E-02	0.8032	4.63E+04	7.9093	103.249	1.911	0.402	-0.03	25.5014	0.00E+00
10/12/2019	8:36:13 AM	2.145	17.9924	35.3315	0.3928	4.76E-02	0.7053	4.63E+04	9.6365	103.387	2.125	-0.654	0	25.5309	0.00E+00
10/12/2019	8:34:47 AM	2.201	18.0543	35.3175	0.2524	4.76E-02	0.8017	4.63E+04	7.9084	103.218	2.088	0.416	0.06	25.5013	0.00E+00
10/12/2019	8:36:13 AM	2.309	17.9866	35.3336	0.3935	4.76E-02	0.7053	4.63E+04	9.5254	103.609	2.345	-0.655	0.1	25.534	0.00E+00
10/12/2019	8:34:47 AM	2.353	18.0529	35.3172	0.2501	4.76E-02	0.8063	4.63E+04	7.9051	103.17	2.285	0.455	0.15	25.5013	0.00E+00
10/12/2019	8:36:13 AM	2.473	17.9804	35.3348	0.5049	4.76E-02	0.7053	4.63E+04	9.6017	103.696	2.529	-0.68	0.08	25.5364	0.00E+00
10/12/2019	8:34:48 AM	2.51	18.0514	35.317	0.2509	4.76E-02	0.8063	4.63E+04	7.9159	103.306	2.46	0.508	0.21	25.5015	0.00E+00
10/12/2019	8:36:12 AM	2.635	17.9742	35.3348	0.5026	4.76E-02	0.7037	4.63E+04	8.8794	103.738	2.644	-0.701	-0.03	25.5377	0.00E+00
10/12/2019	8:34:48 AM	2.672	18.0504	35.3174	0.26	4.76E-02	0.6789	4.63E+04	7.9312	103.493	2.629	0.572	0.25	25.5021	0.00E+00
10/12/2019	8:36:12 AM	2.797	17.9681	35.3341	0.5049	4.76E-02	0.7037	4.62E+04	7.9464	103.731	2.794	-0.692	-0.07	25.5383	0.00E+00
10/12/2019	8:34:48 AM	2.837	18.0498	35.3183	0.2608	4.76E-02	0.6789	4.63E+04	7.9444	103.65	2.789	0.631	0.24	25.5032	0.00E+00
10/12/2019	8:36:12 AM	2.96	17.9628	35.3332	0.5064	4.76E-02	0.7053	4.62E+04	7.9414	103.666	2.942	-0.676	-0.1	25.5385	0.00E+00
10/12/2019	8:34:49 AM	3.007	18.0497	35.3193	0.2646	4.76E-02	0.6867	4.63E+04	7.9539	103.763	2.94	0.669	0.15	25.5042	0.00E+00
10/12/2019	8:36:12 AM	3.125	17.9583	35.3323	0.5881	4.76E-02	0.6742	4.62E+04	7.942	103.674	3.095	-0.65	-0.1	25.5385	0.00E+00
10/12/2019	8:34:49 AM	3.182	18.0494	35.3199	0.2631	4.76E-02	0.6789	4.63E+04	7.9599	103.834	3.095	0.678	0.04	25.5048	0.00E+00
10/12/2019	8:36:11 AM	3.292	17.9547	35.3313	0.5881	4.76E-02	0.6773	4.62E+04	7.9493	103.766	3.306	-0.625	-0.01	25.5382	0.00E+00
10/12/2019	8:34:49 AM	3.362	18.0484	35.3196	0.2715	4.76E-02	0.6571	4.63E+04	7.9657	103.903	3.281	0.676	-0.01	25.5046	0.00E+00
10/12/2019	8:36:11 AM	3.459	17.9519	35.3303	0.5919	4.76E-02	0.6758	4.62E+04	7.9565	103.859	3.498	-0.622	0.05	25.5378	0.00E+00
10/12/2019	8:34:49 AM	3.549	18.0465	35.3185	0.2745	4.76E-02	0.6602	4.63E+04	7.9721	103.978	3.508	0.683	0.03	25.5038	0.00E+00
10/12/2019	8:36:11 AM	3.626	17.9498	35.3296	0.5934	4.76E-02	0.6727	4.62E+04	7.96	103.905	3.667	-0.633	0.09	25.5375	0.00E+00
10/12/2019	8:34:49 AM	3.739	18.0442	35.3174	0.2768	4.76E-02	0.6509	4.63E+04	7.976	104.024	3.738	0.704	0.08	25.5033	0.00E+00
10/12/2019	8:36:11 AM	3.791	17.9484	35.3293	0.5888	4.76E-02	0.682	4.62E+04	7.9678	103.995	3.869	-0.656	0.12	25.5375	0.00E+00
10/12/2019	8:34:50 AM	3.931	18.0416	35.317	0.2745	4.76E-02	0.654	4.63E+04	7.9734	103.986	3.95	0.738	0.13	25.5034	0.00E+00
10/12/2019	8:36:11 AM	3.953	17.9474	35.3295	0.6239	4.76E-02	0.7022	4.62E+04	7.977	104.136	4.002	-0.685	0.07	25.5378	0.00E+00

10/12/2019	8:36:10 AM	4.114	17.9467	35.3302	0.6262	4.76E-02	0.7053	4.62E+04	7.9855	104.254	4.117	-0.702	0.01	25.5387	0.00E+00
10/12/2019	8:34:50 AM	4.124	18.0389	35.317	0.3104	4.76E-02	0.6835	4.63E+04	7.9712	103.957	4.15	0.772	0.14	25.504	0.00E+00
10/12/2019	8:36:10 AM	4.276	17.9458	35.3313	0.6247	4.76E-02	0.71	4.62E+04	7.9934	104.362	4.269	-0.704	-0.01	25.54	0.00E+00
10/12/2019	8:34:50 AM	4.316	18.0359	35.317	0.3119	4.76E-02	0.6804	4.63E+04	7.9686	103.925	4.359	0.805	0.13	25.5046	0.00E+00
10/12/2019	8:36:10 AM	4.439	17.9445	35.3319	0.6239	4.76E-02	0.6991	4.62E+04	7.9992	104.441	4.418	-0.702	-0.01	25.541	0.00E+00
10/12/2019	8:34:51 AM	4.506	18.0324	35.3168	0.3127	4.76E-02	0.6773	4.63E+04	7.9674	103.911	4.57	0.832	0.11	25.5051	0.00E+00
10/12/2019	8:36:09 AM	4.605	17.9427	35.3322	0.6865	4.76E-02	0.7006	4.62E+04	8.0034	104.496	4.596	-0.701	-0.06	25.5417	0.00E+00
10/12/2019	8:34:51 AM	4.695	18.0284	35.3164	0.3081	4.76E-02	0.6789	4.63E+04	7.9668	103.903	4.76	0.843	0.04	25.5055	0.00E+00
10/12/2019	8:36:09 AM	4.773	17.9407	35.3328	0.685	4.76E-02	0.7084	4.62E+04	8.0071	104.54	4.792	-0.685	-0.11	25.5428	0.00E+00
10/12/2019	8:34:51 AM	4.881	18.0233	35.3156	0.347	4.76E-02	0.5546	4.63E+04	7.9632	103.854	4.924	0.827	-0.06	25.5058	0.00E+00
10/12/2019	8:36:09 AM	4.941	17.9385	35.3335	0.6827	4.76E-02	0.7146	4.62E+04	8.0122	104.595	4.977	-0.657	-0.12	25.544	0.00E+00
10/12/2019	8:34:51 AM	5.067	18.0167	35.3143	0.3455	4.76E-02	0.5514	4.63E+04	7.9633	103.851	5.087	0.794	-0.13	25.5058	0.00E+00
10/12/2019	8:36:09 AM	5.109	17.936	35.3337	0.6865	4.76E-02	0.7006	4.62E+04	8.012	104.579	5.177	-0.628	-0.08	25.5448	0.00E+00
10/12/2019	8:34:52 AM	5.253	18.0088	35.3123	0.3462	4.76E-02	0.5561	4.63E+04	7.9661	103.886	5.25	0.761	-0.13	25.5055	0.00E+00
10/12/2019	8:36:09 AM	5.275	17.9333	35.3333	0.8162	4.76E-02	0.6385	4.62E+04	8.0097	104.537	5.329	-0.607	-0.06	25.5451	0.00E+00
10/12/2019	8:36:08 AM	5.439	17.9307	35.3327	0.8139	4.76E-02	0.6369	4.62E+04	8.0071	104.49	5.478	-0.592	-0.04	25.5451	0.00E+00
10/12/2019	8:34:52 AM	5.441	18.0008	35.311	0.3462	4.76E-02	0.5546	4.63E+04	7.966	103.866	5.425	0.734	-0.11	25.5062	0.00E+00
10/12/2019	8:36:08 AM	5.602	17.9284	35.3324	0.8154	4.76E-02	0.626	4.62E+04	8.0044	104.442	5.652	-0.581	-0.01	25.5452	0.00E+00
10/12/2019	8:34:52 AM	5.631	17.9939	35.3123	0.3485	4.76E-02	0.5639	4.63E+04	7.9677	103.857	5.615	0.717	-0.07	25.5091	0.00E+00
10/12/2019	8:36:08 AM	5.764	17.9266	35.3327	0.8162	4.76E-02	0.6354	4.62E+04	8.0028	104.405	5.828	-0.579	0.07	25.5459	0.00E+00
10/12/2019	8:34:52 AM	5.825	17.9882	35.3153	0.3943	4.76E-02	0.8312	4.63E+04	7.9689	103.836	5.803	0.704	-0.05	25.5134	0.00E+00
10/12/2019	8:36:07 AM	5.924	17.925	35.3337	0.8269	4.76E-02	0.5779	4.62E+04	7.9999	104.356	6.033	-0.596	0.14	25.5472	0.00E+00
10/12/2019	8:34:52 AM	6.022	17.9827	35.3179	0.3935	4.76E-02	0.8296	4.63E+04	7.9688	103.806	5.995	0.703	-0.01	25.5171	0.00E+00
10/12/2019	8:36:07 AM	6.08	17.9232	35.3351	0.8276	4.76E-02	0.581	4.62E+04	7.9961	104.294	6.164	-0.632	0.13	25.549	0.00E+00
10/12/2019	8:34:53 AM	6.222	17.977	35.3187	0.3973	4.76E-02	0.8265	4.63E+04	7.9682	103.781	6.195	0.716	0.05	25.5192	0.00E+00
10/12/2019	8:36:07 AM	6.234	17.9209	35.3371	0.8269	4.76E-02	0.5794	4.62E+04	7.9922	104.238	6.262	-0.664	0.06	25.5515	0.00E+00
10/12/2019	8:36:07 AM	6.387	17.9179	35.3397	0.8284	4.76E-02	0.5825	4.62E+04	7.9875	104.17	6.394	-0.679	-0.03	25.5549	0.00E+00
10/12/2019	8:34:53 AM	6.427	17.9714	35.3188	0.3966	4.76E-02	0.8265	4.63E+04	7.9665	103.751	6.407	0.741	0.1	25.5206	0.00E+00
10/12/2019	8:36:07 AM	6.542	17.9138	35.3423	0.8284	4.76E-02	0.5825	4.62E+04	7.9856	104.14	6.53	-0.672	-0.09	25.5585	0.00E+00
10/12/2019	8:34:53 AM	6.635	17.9665	35.3197	0.5263	4.76E-02	0.8296	4.63E+04	7.9629	103.7	6.618	0.768	0.11	25.5227	0.00E+00
10/12/2019	8:36:06 AM	6.7	17.9084	35.3448	0.907	4.76E-02	0.4737	4.62E+04	7.9868	104.153	6.699	-0.651	-0.06	25.5623	0.00E+00
10/12/2019	8:34:54 AM	6.846	17.9623	35.3215	0.5293	4.76E-02	0.8312	4.62E+04	7.9636	103.705	6.834	0.793	0.1	25.5254	0.00E+00
10/12/2019	8:36:06 AM	6.86	17.9018	35.3466	0.9093	4.76E-02	0.4784	4.62E+04	7.9853	104.133	6.874	-0.636	-0.01	25.5657	0.00E+00
10/12/2019	8:36:06 AM	7.022	17.8941	35.3467	0.907	4.76E-02	0.48	4.62E+04	7.985	104.13	7.035	-0.633	0.06	25.5677	0.00E+00
10/12/2019	8:34:54 AM	7.06	17.9586	35.3231	0.5324	4.76E-02	0.8343	4.62E+04	7.9695	103.779	7.049	0.813	0.08	25.5278	0.00E+00
10/12/2019	8:36:06 AM	7.185	17.8859	35.3463	0.9093	4.76E-02	0.4831	4.62E+04	7.9848	104.129	7.232	-0.647	0.1	25.5691	0.00E+00
10/12/2019	8:34:54 AM	7.277	17.9554	35.3242	0.5278	4.76E-02	0.8265	4.62E+04	7.9723	103.813	7.269	0.831	0.07	25.5297	0.00E+00
10/12/2019	8:36:05 AM	7.348	17.8782	35.3463	0.9604	4.76E-02	0.2826	4.62E+04	7.9893	104.186	7.399	-0.672	0.08	25.5707	0.00E+00
10/12/2019	8:34:54 AM	7.497	17.953	35.3255	0.672	4.76E-02	0.7317	4.62E+04	7.9709	103.793	7.492	0.848	0.07	25.5316	0.00E+00
10/12/2019	8:36:05 AM	7.511	17.8712	35.3457	0.9596	4.76E-02	0.281	4.62E+04	7.9866	104.148	7.562	-0.691	0.08	25.5717	0.00E+00
10/12/2019	8:36:05 AM	7.672	17.8646	35.3443	0.9558	4.76E-02	0.2748	4.62E+04	7.9839	104.109	7.727	-0.712	0.05	25.5718	0.00E+00
10/12/2019	8:34:54 AM	7.72	17.9513	35.3271	0.6728	4.76E-02	0.7302	4.62E+04	7.9697	103.773	7.718	0.863	0.06	25.5336	0.00E+00
10/12/2019	8:36:04 AM	7.834	17.8587	35.3429	0.9589	4.76E-02	0.2779	4.62E+04	7.9859	104.129	7.843	-0.725	-0.04	25.5716	0.00E+00
10/12/2019	8:34:55 AM	7.946	17.9503	35.3287	0.6728	4.76E-02	0.7224	4.62E+04	7.9651	103.71	7.958	0.878	0.06	25.5355	0.00E+00
10/12/2019	8:36:04 AM	7.997	17.854	35.3417	1.0787	4.76E-02	0.1629	4.61E+04	7.9866	104.134	7.983	-0.715	-0.1	25.5715	0.00E+00
10/12/2019	8:36:04 AM	8.164	17.8503	35.341	1.0787	4.76E-02	0.1629	4.61E+04	7.9852	104.112	8.161	-0.69	-0.12	25.5715	0.00E+00
10/12/2019	8:34:55 AM	8.174	17.9495	35.3299	0.6728	4.76E-02	0.7333	4.62E+04	7.9636	103.683	8.207	0.895	0.07	25.5368	0.00E+00
10/12/2019	8:36:04 AM	8.333	17.8474	35.3408	1.0748	4.76E-02	0.1583	4.61E+04	7.9857	104.109	8.349	-0.661	-0.09	25.572	0.00E+00
10/12/2019	8:34:55 AM	8.402	17.9483	35.3301	0.7117	4.76E-02	0.6618	4.62E+04	7.9599	103.626	8.452	0.915	0.08	25.5372	0.00E+00
10/12/2019	8:36:04 AM	8.504	17.8449	35.3412	1.0794	4.76E-02	0.1567	4.61E+04	7.987	104.12	8.581	-0.639	-0.03	25.5729	0.00E+00
10/12/2019	8:34:56 AM	8.631	17.9463	35.3294	0.7094	4.76E-02	0.6525	4.62E+04	7.9603	103.622	8.684	0.93	0.06	25.5369	0.00E+00

10/12/2019	8:36:03 AM	8.673	17.8425	35.3418	1.0542	4.76E-02	0.1598	4.61E+04	7.9827	104.06	8.763	-0.631	-0.01	25.5741	0.00E+00
10/12/2019	8:36:03 AM	8.841	17.8398	35.3426	1.052	4.76E-02	0.1614	4.61E+04	7.9811	104.039	8.917	-0.629	-0.01	25.5756	0.00E+00
10/12/2019	8:34:56 AM	8.859	17.9432	35.3283	0.7079	4.76E-02	0.6556	4.62E+04	7.9604	103.612	8.902	0.938	0.03	25.5364	0.00E+00
10/12/2019	8:36:03 AM	9.006	17.8367	35.3437	1.0565	4.76E-02	0.1583	4.61E+04	7.9775	103.992	9.098	-0.626	0	25.5775	0.00E+00
10/12/2019	8:34:56 AM	9.088	17.9387	35.3269	0.7071	4.76E-02	0.6587	4.62E+04	7.9598	103.586	9.127	0.939	0.01	25.5357	0.00E+00
10/12/2019	8:36:02 AM	9.169	17.8332	35.3449	1.055	4.76E-02	0.1567	4.61E+04	7.9711	103.905	9.245	-0.625	0.01	25.5796	0.00E+00
10/12/2019	8:34:56 AM	9.318	17.9321	35.325	0.7117	4.76E-02	0.6525	4.62E+04	7.9687	103.672	9.355	0.936	-0.01	25.535	0.00E+00
10/12/2019	8:36:02 AM	9.33	17.829	35.3462	1.0542	4.76E-02	0.1629	4.61E+04	7.9692	103.878	9.391	-0.628	0	25.5819	0.00E+00
10/12/2019	8:36:02 AM	9.491	17.8242	35.3476	1.0809	4.76E-02	0.1552	4.61E+04	7.9659	103.831	9.552	-0.629	0.03	25.5845	0.00E+00
10/12/2019	8:34:56 AM	9.548	17.9227	35.3219	0.7903	4.76E-02	0.581	4.62E+04	7.9752	103.726	9.583	0.929	-0.03	25.5338	0.00E+00
10/12/2019	8:36:02 AM	9.651	17.8187	35.3494	1.0794	4.76E-02	0.1567	4.61E+04	7.9635	103.791	9.705	-0.637	0.01	25.5878	0.00E+00
10/12/2019	8:34:57 AM	9.779	17.9112	35.3177	0.7895	4.76E-02	0.5794	4.62E+04	7.9745	103.685	9.811	0.919	-0.04	25.5322	0.00E+00
10/12/2019	8:36:02 AM	9.811	17.8123	35.352	1.0794	4.76E-02	0.1552	4.61E+04	7.9601	103.736	9.88	-0.64	0.01	25.592	0.00E+00
10/12/2019	8:36:01 AM	9.971	17.8047	35.3543	1.0756	4.76E-02	0.1598	4.61E+04	7.9627	103.751	10.027	-0.642	0.03	25.5962	0.00E+00
10/12/2019	8:34:57 AM	10.012	17.8996	35.3154	0.791	4.76E-02	0.5841	4.62E+04	7.9724	103.629	10.047	0.913	-0.03	25.5328	0.00E+00
10/12/2019	8:36:01 AM	10.13	17.7958	35.3561	1.1527	4.76E-02	0.1754	4.61E+04	7.9683	103.805	10.183	-0.65	0.05	25.6003	0.00E+00
10/12/2019	8:34:57 AM	10.246	17.8897	35.3173	0.7903	4.76E-02	0.581	4.62E+04	7.9704	103.566	10.282	0.912	0	25.5371	0.00E+00
10/12/2019	8:36:01 AM	10.289	17.7856	35.358	1.1504	4.76E-02	0.1816	4.61E+04	7.9719	103.831	10.341	-0.663	0.07	25.6048	0.00E+00
10/12/2019	8:36:00 AM	10.449	17.7745	35.3603	1.1496	4.76E-02	0.18	4.61E+04	7.9719	103.816	10.482	-0.68	0	25.6098	0.00E+00
10/12/2019	8:34:58 AM	10.482	17.8823	35.3219	0.8856	4.76E-02	0.3789	4.62E+04	7.9641	103.434	10.523	0.919	0.03	25.5434	0.00E+00
10/12/2019	8:36:00 AM	10.61	17.7624	35.3634	1.1481	4.76E-02	0.1754	4.61E+04	7.9755	103.853	10.654	-0.68	-0.03	25.6159	0.00E+00
10/12/2019	8:34:58 AM	10.718	17.8769	35.3268	0.891	4.76E-02	0.3821	4.62E+04	7.9561	103.265	10.758	0.929	0.04	25.5495	0.00E+00
10/12/2019	8:36:00 AM	10.772	17.7489	35.3664	1.203	4.76E-02	0.135	4.60E+04	7.9746	103.824	10.819	-0.671	-0.02	25.6223	0.00E+00
10/12/2019	8:36:00 AM	10.934	17.7338	35.3695	1.1992	4.76E-02	0.1318	4.60E+04	7.9745	103.813	11.001	-0.666	0	25.6292	0.00E+00
10/12/2019	8:34:58 AM	10.956	17.8729	35.3307	0.8887	4.76E-02	0.3774	4.62E+04	7.9523	103.123	11.004	0.938	0.04	25.5543	0.00E+00
10/12/2019	8:36:00 AM	11.097	17.7171	35.3726	1.2015	4.76E-02	0.1396	4.60E+04	7.9728	103.784	11.153	-0.666	-0.01	25.6364	0.00E+00
10/12/2019	8:34:58 AM	11.194	17.8699	35.3333	0.8902	4.76E-02	0.3774	4.62E+04	7.9444	102.931	11.273	0.954	0.06	25.5577	0.00E+00
10/12/2019	8:35:59 AM	11.26	17.6987	35.3752	1.203	4.76E-02	0.1334	4.60E+04	7.969	103.73	11.292	-0.664	-0.07	25.6436	0.00E+00
10/12/2019	8:35:59 AM	11.424	17.6788	35.3775	1.1733	4.76E-02	0.1303	4.60E+04	7.973	103.778	11.484	-0.648	-0.06	25.6508	0.00E+00
10/12/2019	8:34:59 AM	11.431	17.8673	35.335	1.0176	4.76E-02	0.1598	4.62E+04	7.9367	102.765	11.543	0.974	0.08	25.5599	0.00E+00
10/12/2019	8:35:59 AM	11.589	17.6575	35.3789	1.1763	4.76E-02	0.1318	4.60E+04	7.9768	103.828	11.673	-0.633	-0.04	25.6574	0.00E+00
10/12/2019	8:34:59 AM	11.665	17.8649	35.3358	1.0199	4.76E-02	0.1567	4.62E+04	7.9318	102.657	11.797	0.993	0.07	25.5613	0.00E+00
10/12/2019	8:35:59 AM	11.752	17.6352	35.3793	1.1771	4.76E-02	0.1303	4.59E+04	7.9857	103.939	11.863	-0.622	-0.02	25.6632	0.00E+00
10/12/2019	8:34:59 AM	11.895	17.8624	35.3362	1.0161	4.76E-02	0.1567	4.62E+04	7.9333	102.636	12.034	1.003	0.04	25.5622	0.00E+00
10/12/2019	8:35:58 AM	11.913	17.6125	35.3792	1.1778	4.76E-02	0.1287	4.59E+04	7.9868	103.949	12.001	-0.617	-0.02	25.6685	0.00E+00
10/12/2019	8:35:58 AM	12.073	17.5901	35.3803	1.1778	4.76E-02	0.1272	4.59E+04	7.989	103.971	12.137	-0.613	-0.04	25.675	0.00E+00
10/12/2019	8:34:59 AM	12.12	17.8594	35.336	1.0138	4.76E-02	0.1505	4.62E+04	7.9448	102.708	12.248	1.001	-0.01	25.5627	0.00E+00
10/12/2019	8:35:58 AM	12.233	17.5678	35.3843	1.3831	4.76E-02	0.1583	4.59E+04	7.9871	103.94	12.312	-0.603	0.01	25.6843	0.00E+00
10/12/2019	8:34:59 AM	12.342	17.8557	35.3352	1.0336	4.76E-02	0.1334	4.62E+04	7.9658	102.866	12.47	0.989	-0.05	25.5628	0.00E+00
10/12/2019	8:35:57 AM	12.391	17.5447	35.3901	1.3861	4.76E-02	0.1598	4.58E+04	7.9874	103.937	12.477	-0.605	0.04	25.6956	0.00E+00
10/12/2019	8:35:57 AM	12.549	17.5193	35.3965	1.3831	4.76E-02	0.1567	4.58E+04	7.9887	103.942	12.65	-0.615	0.08	25.7082	0.00E+00
10/12/2019	8:35:00 AM	12.56	17.851	35.334	1.0474	4.76E-02	0.1303	4.62E+04	7.9811	102.926	12.689	0.971	-0.07	25.5626	0.00E+00
10/12/2019	8:35:57 AM	12.705	17.4909	35.4018	1.3846	4.76E-02	0.1583	4.58E+04	7.9905	103.958	12.796	-0.637	0.09	25.7203	0.00E+00
10/12/2019	8:35:00 AM	12.775	17.8452	35.3322	1.0397	4.76E-02	0.1318	4.61E+04	7.9984	102.989	12.9	0.942	-0.11	25.5622	0.00E+00
10/12/2019	8:35:57 AM	12.86	17.4595	35.4042	1.4342	4.76E-02	0.1536	4.58E+04	7.9928	103.973	12.936	-0.659	0.03	25.7305	0.00E+00
10/12/2019	8:35:00 AM	12.986	17.8379	35.3303	1.0397	4.76E-02	0.1334	4.61E+04	8.0111	103.005	13.118	0.911	-0.12	25.5618	0.00E+00
10/12/2019	8:35:57 AM	13.015	17.426	35.4033	1.4334	4.76E-02	0.1536	4.57E+04	7.9947	103.985	13.081	-0.666	-0.03	25.738	0.00E+00
10/12/2019	8:35:56 AM	13.17	17.3916	35.4	1.4342	4.76E-02	0.1583	4.57E+04	7.9997	104.031	13.216	-0.658	-0.11	25.7431	0.00E+00
10/12/2019	8:35:01 AM	13.193	17.8289	35.3279	1.0436	4.76E-02	0.1334	4.61E+04	8.0154	102.93	13.33	0.886	-0.1	25.5614	0.00E+00
10/12/2019	8:35:56 AM	13.327	17.3579	35.3957	1.4342	4.76E-02	0.1552	4.57E+04	8.0006	104.016	13.383	-0.631	-0.11	25.7468	0.00E+00
10/12/2019	8:35:01 AM	13.397	17.8173	35.3246	1.0291	4.76E-02	0.1334	4.61E+04	8.0147	102.794	13.525	0.865	-0.08	25.5607	0.00E+00

10/12/2019	8:35:56 AM	13.484	17.3262	35.3909	1.6188	4.76E-02	0.1598	4.56E+04	7.9967	103.951	13.542	-0.603	-0.09	25.7494	0.00E+00
10/12/2019	8:35:01 AM	13.597	17.8033	35.3202	1.0298	4.76E-02	0.1318	4.61E+04	8.0036	102.531	13.716	0.847	-0.07	25.5595	0.00E+00
10/12/2019	8:35:55 AM	13.643	17.2974	35.3885	1.6188	4.76E-02	0.1598	4.56E+04	7.9906	103.842	13.715	-0.581	-0.05	25.7534	0.00E+00
10/12/2019	8:35:01 AM	13.795	17.7872	35.3158	1.0275	4.76E-02	0.135	4.61E+04	7.9864	102.206	13.907	0.832	-0.06	25.559	0.00E+00
10/12/2019	8:35:55 AM	13.802	17.2714	35.3889	1.6165	4.76E-02	0.1536	4.56E+04	7.9867	103.77	13.89	-0.568	0.01	25.7596	0.00E+00
10/12/2019	8:35:55 AM	13.96	17.247	35.3901	1.612	4.76E-02	0.1583	4.56E+04	7.9901	103.781	14.069	-0.569	0.07	25.7664	0.00E+00
10/12/2019	8:35:01 AM	13.99	17.7693	35.3127	1.0306	4.76E-02	0.1287	4.61E+04	7.9653	101.856	14.107	0.816	-0.06	25.56	0.00E+00
10/12/2019	8:35:55 AM	14.116	17.2227	35.3946	1.7684	4.76E-02	0.1769	4.55E+04	7.9966	103.828	14.247	-0.587	0.17	25.7764	0.00E+00
10/12/2019	8:35:02 AM	14.182	17.7487	35.3096	1.1893	4.76E-02	0.1287	4.61E+04	7.9491	101.596	14.33	0.81	-0.02	25.5616	0.00E+00
10/12/2019	8:35:55 AM	14.269	17.1978	35.4035	1.7714	4.76E-02	0.1816	4.55E+04	8.0031	103.881	14.376	-0.631	0.19	25.7909	0.00E+00
10/12/2019	8:35:02 AM	14.37	17.7244	35.3048	1.1839	4.76E-02	0.135	4.60E+04	7.9353	101.388	14.557	0.813	0.01	25.5623	0.00E+00
10/12/2019	8:35:54 AM	14.421	17.1705	35.4127	1.7699	4.76E-02	0.1769	4.55E+04	8.01	103.92	14.497	-0.677	0.18	25.8064	0.00E+00
10/12/2019	8:35:02 AM	14.551	17.6954	35.298	1.1893	4.76E-02	0.1365	4.60E+04	7.9315	101.308	14.767	0.818	0.02	25.5621	0.00E+00
10/12/2019	8:35:54 AM	14.574	17.1389	35.4173	1.7691	4.76E-02	0.1769	4.54E+04	8.0174	103.978	14.614	-0.722	0.12	25.8188	0.00E+00
10/12/2019	8:35:03 AM	14.725	17.6619	35.2899	1.1893	4.76E-02	0.1272	4.60E+04	7.9343	101.295	14.942	0.819	0	25.5619	0.00E+00
10/12/2019	8:35:54 AM	14.728	17.1033	35.4174	1.7729	4.76E-02	0.1862	4.54E+04	8.0302	104.087	14.749	-0.752	0.01	25.8276	0.00E+00
10/12/2019	8:35:53 AM	14.886	17.0661	35.4164	1.9629	4.76E-02	0.1567	4.54E+04	8.0368	104.132	14.914	-0.756	-0.08	25.8355	0.00E+00
10/12/2019	8:35:03 AM	14.89	17.6254	35.282	1.2076	4.76E-02	0.1583	4.59E+04	7.9413	101.336	15.089	0.807	-0.05	25.5629	0.00E+00
10/12/2019	8:35:03 AM	15.048	17.5885	35.2773	1.2114	4.76E-02	0.152	4.59E+04	7.9461	101.355	15.217	0.777	-0.12	25.5675	0.00E+00
10/12/2019	8:35:53 AM	15.048	17.0293	35.4173	1.9644	4.76E-02	0.1505	4.53E+04	8.0396	104.127	15.075	-0.737	-0.2	25.8449	0.00E+00
10/12/2019	8:35:03 AM	15.202	17.5529	35.2781	1.2137	4.76E-02	0.152	4.59E+04	7.9581	101.484	15.301	0.721	-0.23	25.577	0.00E+00
10/12/2019	8:35:53 AM	15.213	16.9931	35.4158	1.9629	4.76E-02	0.1567	4.53E+04	8.0419	104.116	15.251	-0.688	-0.21	25.8519	0.00E+00
10/12/2019	8:35:03 AM	15.355	17.517	35.2814	1.2106	4.76E-02	0.1598	4.58E+04	7.9622	101.533	15.354	0.636	-0.34	25.5885	0.00E+00
10/12/2019	8:35:53 AM	15.381	16.9568	35.4067	1.9629	4.76E-02	0.1583	4.53E+04	8.0372	104.023	15.43	-0.635	-0.19	25.8519	0.00E+00
10/12/2019	8:35:04 AM	15.513	17.4768	35.2805	1.3037	4.76E-02	0.135	4.58E+04	7.959	101.502	15.435	0.544	-0.37	25.5965	0.00E+00
10/12/2019	8:35:53 AM	15.55	16.9222	35.3951	2.2788	4.76E-02	0.1489	4.52E+04	8.0397	104	15.641	-0.587	-0.11	25.8485	0.00E+00
10/12/2019	8:35:04 AM	15.68	17.4285	35.2714	1.3976	4.76E-02	0.1396	4.57E+04	7.9498	101.394	15.594	0.479	-0.26	25.5981	0.00E+00
10/12/2019	8:35:52 AM	15.72	16.8929	35.3861	2.2788	4.76E-02	0.1583	4.52E+04	8.032	103.843	15.84	-0.558	-0.06	25.8458	0.00E+00
10/12/2019	8:35:04 AM	15.857	17.3717	35.2563	1.3991	4.76E-02	0.1303	4.57E+04	7.9423	101.295	15.786	0.457	-0.09	25.5963	0.00E+00
10/12/2019	8:35:52 AM	15.887	16.87	35.3793	2.2757	4.76E-02	0.1583	4.52E+04	8.0288	103.735	16.051	-0.544	0.03	25.8439	0.00E+00
10/12/2019	8:35:05 AM	16.045	17.3087	35.2421	1.3938	4.76E-02	0.1303	4.56E+04	7.9376	101.225	15.989	0.478	0.08	25.5971	0.00E+00
10/12/2019	8:35:52 AM	16.05	16.8522	35.3743	2.2757	4.76E-02	0.1567	4.52E+04	8.0194	103.53	16.235	-0.552	0.12	25.8428	0.00E+00
10/12/2019	8:35:52 AM	16.207	16.8381	35.3703	2.2513	4.76E-02	0.1567	4.51E+04	8.0152	103.399	16.374	-0.581	0.15	25.8418	0.00E+00
10/12/2019	8:35:05 AM	16.242	17.2428	35.2333	1.396	4.76E-02	0.1334	4.55E+04	7.9309	101.114	16.19	0.529	0.2	25.6041	0.00E+00
10/12/2019	8:35:51 AM	16.36	16.827	35.3671	2.2536	4.76E-02	0.152	4.51E+04	8.0172	103.347	16.49	-0.618	0.15	25.841	0.00E+00
10/12/2019	8:35:05 AM	16.447	17.1776	35.2308	1.6265	4.76E-02	0.1287	4.55E+04	7.9319	101.091	16.4	0.601	0.29	25.6174	0.00E+00
10/12/2019	8:35:51 AM	16.512	16.818	35.3655	2.2544	4.76E-02	0.1567	4.51E+04	8.0098	103.193	16.57	-0.655	0.08	25.8413	0.00E+00
10/12/2019	8:35:05 AM	16.661	17.1157	35.2353	1.6265	4.76E-02	0.1318	4.54E+04	7.9317	101.049	16.64	0.693	0.37	25.6367	0.00E+00
10/12/2019	8:35:51 AM	16.664	16.8108	35.3647	2.2544	4.76E-02	0.1552	4.51E+04	8.0152	103.211	16.708	-0.674	0.08	25.8421	0.00E+00
10/12/2019	8:35:50 AM	16.819	16.8044	35.3639	2.2162	4.76E-02	0.1785	4.51E+04	8.0068	103.06	16.868	-0.693	0.07	25.8427	0.00E+00
10/12/2019	8:35:06 AM	16.881	17.058	35.2439	1.6234	4.76E-02	0.1303	4.54E+04	7.9305	100.999	16.898	0.787	0.38	25.659	0.00E+00
10/12/2019	8:35:50 AM	16.977	16.7986	35.3632	2.2185	4.76E-02	0.1847	4.51E+04	8.0092	103.066	17.036	-0.711	0.08	25.8434	0.00E+00
10/12/2019	8:35:06 AM	17.107	17.0054	35.2531	1.631	4.76E-02	0.1303	4.53E+04	7.9261	100.917	17.156	0.861	0.3	25.6808	0.00E+00
10/12/2019	8:35:50 AM	17.137	16.7933	35.3629	2.2162	4.76E-02	0.1785	4.51E+04	8.0054	102.961	17.188	-0.731	0.02	25.8442	0.00E+00
10/12/2019	8:35:50 AM	17.3	16.7884	35.3627	2.2177	4.76E-02	0.1816	4.51E+04	7.9967	102.823	17.348	-0.737	-0.03	25.8451	0.00E+00
10/12/2019	8:35:06 AM	17.335	16.9598	35.264	2.0453	4.76E-02	0.2282	4.53E+04	7.9191	100.809	17.412	0.91	0.2	25.703	0.00E+00
10/12/2019	8:35:50 AM	17.465	16.7837	35.3623	2.2185	4.76E-02	0.1831	4.51E+04	7.9854	102.625	17.519	-0.73	-0.05	25.8458	0.00E+00
10/12/2019	8:35:06 AM	17.565	16.9222	35.2783	2.0484	4.76E-02	0.2329	4.52E+04	7.9045	100.602	17.648	0.943	0.13	25.7265	0.00E+00
10/12/2019	8:35:49 AM	17.634	16.7793	35.3616	2.4321	4.76E-02	0.1816	4.51E+04	7.9742	102.416	17.694	-0.718	-0.09	25.8461	0.00E+00
10/12/2019	8:35:06 AM	17.796	16.8917	35.2939	2.0499	4.76E-02	0.2391	4.52E+04	7.8806	100.274	17.877	0.964	0.08	25.7494	0.00E+00
10/12/2019	8:35:49 AM	17.804	16.7752	35.3605	2.4321	4.76E-02	0.18	4.51E+04	7.9675	102.235	17.884	-0.696	-0.1	25.846	0.00E+00

10/12/2019	8:35:49 AM	17.976	16.7717	35.3592	2.4344	4.76E-02	0.1785	4.51E+04	7.9553	101.993	18.062	-0.67	-0.12	25.8455	0.00E+00
10/12/2019	8:35:07 AM	18.029	16.8664	35.3074	2.0484	4.76E-02	0.2344	4.52E+04	7.8615	100.003	18.087	0.97	0.02	25.7688	0.00E+00
10/12/2019	8:35:48 AM	18.149	16.7687	35.358	2.4352	4.76E-02	0.1831	4.51E+04	7.9401	101.733	18.264	-0.641	-0.06	25.8449	0.00E+00
10/12/2019	8:35:07 AM	18.264	16.8436	35.3165	2.3841	4.76E-02	0.1816	4.52E+04	7.814	99.37	18.309	0.962	-0.03	25.7829	0.00E+00
10/12/2019	8:35:48 AM	18.32	16.7666	35.357	2.4466	4.76E-02	0.18	4.51E+04	7.9291	101.518	18.45	-0.626	-0.03	25.8444	0.00E+00
10/12/2019	8:35:48 AM	18.49	16.7651	35.3565	2.4466	4.76E-02	0.1769	4.51E+04	7.9249	101.386	18.641	-0.619	0.02	25.8441	0.00E+00
10/12/2019	8:35:07 AM	18.502	16.8222	35.3206	2.3841	4.76E-02	0.1816	4.51E+04	7.8034	99.212	18.547	0.946	-0.06	25.7921	0.00E+00
10/12/2019	8:35:48 AM	18.658	16.764	35.3566	2.4451	4.76E-02	0.1862	4.51E+04	7.9214	101.238	18.797	-0.623	0	25.8444	0.00E+00
10/12/2019	8:35:08 AM	18.743	16.803	35.3231	2.3902	4.76E-02	0.18	4.51E+04	7.7792	98.884	18.806	0.936	-0.04	25.7995	0.00E+00
10/12/2019	8:35:48 AM	18.823	16.7633	35.3575	2.4451	4.76E-02	0.1831	4.51E+04	7.921	101.191	18.954	-0.622	0.04	25.8455	0.00E+00
10/12/2019	8:35:47 AM	18.986	16.7624	35.3592	2.613	4.76E-02	0.2002	4.51E+04	7.9228	101.187	19.121	-0.632	0.08	25.8474	0.00E+00
10/12/2019	8:35:08 AM	18.987	16.788	35.3285	2.3856	4.76E-02	0.1723	4.51E+04	7.7572	98.582	19.075	0.939	0.01	25.8087	0.00E+00
10/12/2019	8:35:47 AM	19.148	16.7609	35.3614	2.6099	4.76E-02	0.2018	4.51E+04	7.9191	101.114	19.267	-0.652	0.09	25.8499	0.00E+00
10/12/2019	8:35:08 AM	19.232	16.7778	35.337	2.381	4.76E-02	0.1831	4.51E+04	7.7353	98.283	19.341	0.954	0.06	25.8198	0.00E+00
10/12/2019	8:35:47 AM	19.309	16.7585	35.3636	2.6076	4.76E-02	0.208	4.51E+04	7.9217	101.132	19.408	-0.674	0.04	25.8526	0.00E+00
10/12/2019	8:35:46 AM	19.471	16.7549	35.3655	2.6099	4.76E-02	0.2049	4.51E+04	7.9238	101.141	19.554	-0.684	0.03	25.8555	0.00E+00
10/12/2019	8:35:08 AM	19.477	16.7718	35.3462	2.3482	4.76E-02	0.1831	4.51E+04	7.7115	97.952	19.595	0.977	0.09	25.8304	0.00E+00
10/12/2019	8:35:46 AM	19.634	16.7502	35.3672	2.5267	4.76E-02	0.1754	4.51E+04	7.9081	100.929	19.729	-0.693	0.06	25.8583	0.00E+00
10/12/2019	8:35:08 AM	19.722	16.7681	35.3537	2.3497	4.76E-02	0.1785	4.51E+04	7.6905	97.659	19.824	0.994	0.07	25.8386	0.00E+00
10/12/2019	8:35:46 AM	19.798	16.7445	35.3689	2.5237	4.76E-02	0.1893	4.51E+04	7.9138	100.993	19.891	-0.707	0.06	25.8614	0.00E+00
10/12/2019	8:35:46 AM	19.963	16.738	35.3711	2.5283	4.76E-02	0.1847	4.51E+04	7.9198	101.063	20.055	-0.721	0	25.8651	0.00E+00
10/12/2019	8:35:09 AM	19.967	16.7641	35.3572	2.3474	4.76E-02	0.1831	4.51E+04	7.6623	97.283	20.062	1.005	0.05	25.8427	0.00E+00
10/12/2019	8:35:46 AM	20.129	16.7305	35.374	2.5275	4.76E-02	0.1816	4.50E+04	7.9026	100.829	20.194	-0.72	-0.09	25.8696	0.00E+00
10/12/2019	8:35:09 AM	20.213	16.758	35.3557	2.3497	4.76E-02	0.1862	4.51E+04	7.6382	96.935	20.301	1.005	0	25.8424	0.00E+00
10/12/2019	8:35:45 AM	20.298	16.722	35.376	2.5283	4.76E-02	0.18	4.50E+04	7.9114	100.933	20.387	-0.698	-0.08	25.8737	0.00E+00
10/12/2019	8:35:09 AM	20.461	16.7489	35.3511	2.5168	4.76E-02	0.1785	4.51E+04	7.6081	96.492	20.557	0.999	-0.02	25.8398	0.00E+00
10/12/2019	8:35:45 AM	20.469	16.7122	35.3765	2.5252	4.76E-02	0.1552	4.50E+04	7.9135	100.952	20.577	-0.678	-0.06	25.8765	0.00E+00
10/12/2019	8:35:45 AM	20.639	16.7016	35.3759	2.5267	4.76E-02	0.1552	4.50E+04	7.917	100.987	20.764	-0.663	-0.04	25.8785	0.00E+00
10/12/2019	8:35:10 AM	20.71	16.7367	35.3457	2.5115	4.76E-02	0.18	4.51E+04	7.5815	96.083	20.823	0.993	-0.02	25.8371	0.00E+00
10/12/2019	8:35:45 AM	20.81	16.6909	35.3744	2.5306	4.76E-02	0.152	4.50E+04	7.9104	100.895	20.916	-0.654	-0.04	25.8796	0.00E+00
10/12/2019	8:35:10 AM	20.958	16.7224	35.3404	2.5122	4.76E-02	0.1831	4.50E+04	7.5486	95.6	21.091	0.994	0	25.8352	0.00E+00
10/12/2019	8:35:44 AM	20.981	16.6807	35.3724	2.5267	4.76E-02	0.1567	4.50E+04	7.9094	100.871	21.107	-0.644	0.03	25.8799	0.00E+00
10/12/2019	8:35:44 AM	21.151	16.6715	35.3702	2.4543	4.76E-02	0.1816	4.50E+04	7.9104	100.879	21.298	-0.651	0.07	25.8798	0.00E+00
10/12/2019	8:35:10 AM	21.206	16.7074	35.337	2.5161	4.76E-02	0.1893	4.50E+04	7.5133	95.097	21.357	1.003	0.04	25.8354	0.00E+00
10/12/2019	8:35:44 AM	21.319	16.6634	35.3688	2.4527	4.76E-02	0.1862	4.50E+04	7.9098	100.864	21.485	-0.668	0.07	25.8802	0.00E+00
10/12/2019	8:35:10 AM	21.452	16.693	35.3368	2.4901	4.76E-02	0.1785	4.50E+04	7.4717	94.521	21.61	1.016	0.05	25.8387	0.00E+00
10/12/2019	8:35:43 AM	21.485	16.6566	35.3689	2.4543	4.76E-02	0.1862	4.50E+04	7.9093	100.857	21.626	-0.685	0.01	25.8818	0.00E+00
10/12/2019	8:35:43 AM	21.65	16.6504	35.3696	2.4527	4.76E-02	0.1893	4.50E+04	7.9075	100.833	21.764	-0.687	0	25.8838	0.00E+00
10/12/2019	8:35:10 AM	21.696	16.6798	35.3388	2.4871	4.76E-02	0.1831	4.50E+04	7.4285	93.928	21.834	1.022	0.02	25.8437	0.00E+00
10/12/2019	8:35:43 AM	21.815	16.6441	35.3702	2.4077	4.76E-02	0.2018	4.50E+04	7.9041	100.79	21.92	-0.687	-0.01	25.8859	0.00E+00
10/12/2019	8:35:11 AM	21.939	16.6673	35.3411	2.4909	4.76E-02	0.1893	4.50E+04	7.3838	93.298	22.064	1.016	-0.02	25.8489	0.00E+00
10/12/2019	8:35:43 AM	21.981	16.6376	35.3708	2.4115	4.76E-02	0.2096	4.50E+04	7.9025	100.77	22.088	-0.685	-0.02	25.8881	0.00E+00
10/12/2019	8:35:43 AM	22.147	16.6308	35.3714	2.4077	4.76E-02	0.2049	4.49E+04	7.8947	100.673	22.251	-0.681	-0.07	25.8902	0.00E+00
10/12/2019	8:35:11 AM	22.181	16.6547	35.3423	2.4924	4.76E-02	0.1785	4.50E+04	7.3433	92.68	22.297	1.003	-0.05	25.8529	0.00E+00
10/12/2019	8:35:42 AM	22.315	16.6237	35.3719	2.4085	4.76E-02	0.2049	4.49E+04	7.8823	100.513	22.43	-0.664	-0.08	25.8924	0.00E+00
10/12/2019	8:35:11 AM	22.424	16.6417	35.3421	2.4527	4.76E-02	0.2235	4.50E+04	7.2903	91.872	22.533	0.983	-0.08	25.8557	0.00E+00
10/12/2019	8:35:42 AM	22.483	16.6163	35.3728	2.3482	4.76E-02	0.208	4.49E+04	7.8679	100.325	22.637	-0.645	-0.05	25.895	0.00E+00
10/12/2019	8:35:42 AM	22.649	16.6087	35.3743	2.3513	4.76E-02	0.2096	4.49E+04	7.8541	100.139	22.815	-0.631	-0.03	25.8982	0.00E+00
10/12/2019	8:35:12 AM	22.668	16.6285	35.3413	2.4504	4.76E-02	0.2298	4.50E+04	7.2337	91.027	22.778	0.965	-0.07	25.8581	0.00E+00
10/12/2019	8:35:41 AM	22.814	16.6006	35.3757	2.3467	4.76E-02	0.2064	4.49E+04	7.8446	100.008	22.963	-0.623	-0.04	25.9016	0.00E+00
10/12/2019	8:35:12 AM	22.913	16.6153	35.3409	2.452	4.76E-02	0.2313	4.49E+04	7.1789	90.23	23.024	0.954	-0.05	25.8608	0.00E+00

10/12/2019	8:35:41 AM	22.977	16.5917	35.3767	2.3467	4.76E-02	0.2018	4.49E+04	7.8336	99.855	23.096	-0.615	-0.04	25.9047	0.00E+00
10/12/2019	8:35:41 AM	23.14	16.5821	35.3769	2.3497	4.76E-02	0.1971	4.49E+04	7.8225	99.7	23.287	-0.606	0.06	25.9072	0.00E+00
10/12/2019	8:35:12 AM	23.159	16.6024	35.3413	2.4535	4.76E-02	0.2266	4.49E+04	7.1009	89.168	23.264	0.949	-0.02	25.8642	0.00E+00
10/12/2019	8:35:41 AM	23.302	16.5721	35.3771	2.4192	4.76E-02	0.1583	4.49E+04	7.8153	99.598	23.466	-0.62	0.08	25.9098	0.00E+00
10/12/2019	8:35:12 AM	23.407	16.5896	35.342	2.4527	4.76E-02	0.2127	4.49E+04	7.045	88.389	23.493	0.948	0	25.8679	0.00E+00
10/12/2019	8:35:41 AM	23.462	16.562	35.3783	2.4199	4.76E-02	0.1536	4.49E+04	7.8076	99.48	23.633	-0.64	0.08	25.9134	0.00E+00
10/12/2019	8:35:40 AM	23.62	16.5517	35.3807	2.4192	4.76E-02	0.152	4.49E+04	7.8025	99.395	23.766	-0.661	0.01	25.9182	0.00E+00
10/12/2019	8:35:13 AM	23.657	16.5764	35.3423	2.6206	4.76E-02	0.2064	4.49E+04	6.9682	87.371	23.73	0.953	0.02	25.8711	0.00E+00
10/12/2019	8:35:40 AM	23.777	16.5405	35.3837	2.4222	4.76E-02	0.1583	4.49E+04	7.7965	99.288	23.915	-0.662	-0.03	25.9238	0.00E+00
10/12/2019	8:35:13 AM	23.911	16.5622	35.3414	2.6244	4.76E-02	0.2018	4.49E+04	6.8798	86.219	23.971	0.956	0.01	25.8734	0.00E+00
10/12/2019	8:35:40 AM	23.934	16.5279	35.388	2.4298	4.76E-02	0.1552	4.48E+04	7.7914	99.203	24.048	-0.654	-0.08	25.931	0.00E+00
10/12/2019	8:35:39 AM	24.092	16.5135	35.3935	2.4314	4.76E-02	0.1536	4.48E+04	7.7818	99.056	24.198	-0.634	-0.08	25.9398	0.00E+00
10/12/2019	8:35:13 AM	24.17	16.5466	35.3394	2.6175	4.76E-02	0.208	4.49E+04	6.7835	84.974	24.229	0.961	0.02	25.875	0.00E+00
10/12/2019	8:35:39 AM	24.252	16.4968	35.3976	2.4344	4.76E-02	0.1598	4.48E+04	7.7699	98.891	24.356	-0.613	-0.07	25.9479	0.00E+00
10/12/2019	8:35:39 AM	24.413	16.4775	35.4006	2.4321	4.76E-02	0.1536	4.48E+04	7.7632	98.789	24.538	-0.596	-0.01	25.9556	0.00E+00
10/12/2019	8:35:13 AM	24.433	16.5292	35.3366	2.6198	4.76E-02	0.2096	4.49E+04	6.6962	83.751	24.499	0.972	0.04	25.8761	0.00E+00
10/12/2019	8:35:39 AM	24.575	16.4561	35.4059	2.3726	4.76E-02	0.1816	4.48E+04	7.7481	98.591	24.745	-0.592	0.11	25.9657	0.00E+00
10/12/2019	8:35:13 AM	24.701	16.5089	35.3333	2.3261	4.76E-02	0.2531	4.48E+04	6.6089	82.53	24.782	0.99	0.07	25.8773	0.00E+00
10/12/2019	8:35:38 AM	24.735	16.4331	35.4134	2.3757	4.76E-02	0.1862	4.48E+04	7.7387	98.462	24.911	-0.619	0.15	25.9783	0.00E+00
10/12/2019	8:35:38 AM	24.893	16.4072	35.4201	2.3719	4.76E-02	0.18	4.47E+04	7.7243	98.27	25.064	-0.656	0.15	25.9912	0.00E+00
10/12/2019	8:35:14 AM	24.972	16.4839	35.3276	2.3246	4.76E-02	0.2593	4.48E+04	6.515	81.217	25.067	1.016	0.1	25.877	0.00E+00
10/12/2019	8:35:38 AM	25.05	16.3775	35.4261	2.3696	4.76E-02	0.1862	4.47E+04	7.7127	98.108	25.183	-0.694	0.06	26.0041	0.00E+00
10/12/2019	8:35:38 AM	25.207	16.3446	35.4331	2.0102	4.76E-02	0.1816	4.47E+04	7.7023	97.963	25.315	-0.708	0.02	26.0187	0.00E+00
10/12/2019	8:35:14 AM	25.245	16.4542	35.3188	2.3215	4.76E-02	0.2608	4.48E+04	6.4318	80.08	25.351	1.047	0.12	25.875	0.00E+00
10/12/2019	8:35:38 AM	25.365	16.3087	35.4422	2.0133	4.76E-02	0.1831	4.46E+04	7.701	97.934	25.455	-0.712	-0.04	26.036	0.00E+00
10/12/2019	8:35:14 AM	25.521	16.4221	35.3112	2.3246	4.76E-02	0.2577	4.47E+04	6.3559	79.077	25.633	1.078	0.12	25.875	0.00E+00
10/12/2019	8:35:37 AM	25.527	16.2692	35.4525	2.0125	4.76E-02	0.1831	4.46E+04	7.6902	97.781	25.617	-0.703	-0.05	26.0553	0.00E+00
10/12/2019	8:35:37 AM	25.692	16.2248	35.4573	2.0102	4.76E-02	0.1738	4.46E+04	7.6801	97.642	25.785	-0.69	-0.07	26.0708	0.00E+00
10/12/2019	8:35:15 AM	25.799	16.3893	35.3083	2.1453	4.76E-02	0.2266	4.47E+04	6.2859	78.178	25.919	1.104	0.1	25.8797	0.00E+00
10/12/2019	8:35:37 AM	25.86	16.1753	35.4528	2.014	4.76E-02	0.1785	4.45E+04	7.6691	97.485	25.967	-0.672	-0.04	26.0785	0.00E+00
10/12/2019	8:35:36 AM	26.03	16.1243	35.4425	1.7127	4.76E-02	0.1598	4.44E+04	7.6589	97.342	26.179	-0.663	0.02	26.0802	0.00E+00
10/12/2019	8:35:15 AM	26.079	16.3559	35.3081	2.1407	4.76E-02	0.2251	4.47E+04	6.2098	77.22	26.206	1.123	0.08	25.887	0.00E+00
10/12/2019	8:35:36 AM	26.2	16.0763	35.4306	1.7104	4.76E-02	0.1598	4.44E+04	7.6399	97.074	26.37	-0.668	0.06	26.0792	0.00E+00
10/12/2019	8:35:15 AM	26.359	16.3206	35.3072	2.1483	4.76E-02	0.2344	4.46E+04	6.1358	76.288	26.499	1.136	0.05	25.894	0.00E+00
10/12/2019	8:35:36 AM	26.369	16.0342	35.4208	1.7096	4.76E-02	0.1583	4.44E+04	7.6181	96.781	26.544	-0.682	0.06	26.0787	0.00E+00
10/12/2019	8:35:36 AM	26.536	15.9985	35.4141	1.7111	4.76E-02	0.1567	4.43E+04	7.5866	96.361	26.678	-0.697	0.01	26.0798	0.00E+00
10/12/2019	8:35:15 AM	26.64	16.2812	35.3037	2.1437	4.76E-02	0.2282	4.46E+04	6.062	75.358	26.789	1.144	0.03	25.899	0.00E+00
10/12/2019	8:35:36 AM	26.704	15.9679	35.4094	1.1031	4.76E-02	0.135	4.43E+04	7.5536	95.929	26.85	-0.701	0.01	26.0819	0.00E+00
10/12/2019	8:35:35 AM	26.872	15.9406	35.4062	1.1023	4.76E-02	0.1318	4.43E+04	7.5109	95.367	27.005	-0.704	0	26.0848	0.00E+00
10/12/2019	8:35:15 AM	26.921	16.235	35.2954	1.9972	4.76E-02	0.2282	4.46E+04	5.9876	74.423	27.066	1.144	0	25.9008	0.00E+00
10/12/2019	8:35:35 AM	27.04	15.9157	35.4047	1.1038	4.76E-02	0.1334	4.42E+04	7.466	94.774	27.181	-0.703	-0.02	26.089	0.00E+00
10/12/2019	8:35:16 AM	27.203	16.1811	35.2813	1.9988	4.76E-02	0.2329	4.45E+04	5.9287	73.684	27.347	1.144	0	25.8991	0.00E+00
10/12/2019	8:35:35 AM	27.21	15.8923	35.4049	1.1046	4.76E-02	0.1365	4.42E+04	7.4114	94.058	27.342	-0.699	-0.04	26.0944	0.00E+00
10/12/2019	8:35:34 AM	27.38	15.8693	35.4057	0.9078	4.76E-02	0.0868	4.42E+04	7.337	93.083	27.536	-0.69	-0.02	26.1005	0.00E+00
10/12/2019	8:35:16 AM	27.485	16.1225	35.2661	2.0026	4.76E-02	0.2344	4.44E+04	5.8734	72.992	27.629	1.142	-0.01	25.8981	0.00E+00
10/12/2019	8:35:34 AM	27.55	15.8461	35.407	0.91	4.76E-02	0.0852	4.42E+04	7.2653	92.136	27.717	-0.685	-0.07	26.1072	0.00E+00
10/12/2019	8:35:34 AM	27.719	15.8221	35.4094	0.9093	4.76E-02	0.0899	4.41E+04	7.1831	91.046	27.897	-0.668	-0.11	26.1151	0.00E+00
10/12/2019	8:35:16 AM	27.767	16.0647	35.2585	2.0026	4.76E-02	0.2344	4.44E+04	5.8344	72.503	27.911	1.139	-0.01	25.9048	0.00E+00
10/12/2019	8:35:34 AM	27.887	15.797	35.4124	0.9093	4.76E-02	0.0977	4.41E+04	7.0991	89.957	28.063	-0.64	-0.14	26.1238	0.00E+00
10/12/2019	8:35:17 AM	28.05	16.0114	35.2619	1.998	4.76E-02	0.1769	4.43E+04	5.811	72.213	28.192	1.135	-0.02	25.9209	0.00E+00
10/12/2019	8:35:34 AM	28.054	15.7703	35.4132	0.9413	4.76E-02	0.1101	4.41E+04	7.0126	88.812	28.233	-0.606	-0.13	26.1309	0.00E+00

10/12/2019	8:35:33 AM	28.219	15.7421	35.4095	0.9451	4.76E-02	0.1148	4.41E+04	6.9374	87.805	28.406	-0.573	-0.05	26.1341	0.00E+00
10/12/2019	8:35:17 AM	28.334	15.963	35.271	1.6181	4.76E-02	0.1645	4.43E+04	5.8079	72.173	28.483	1.133	-0.01	25.9412	0.00E+00
10/12/2019	8:35:33 AM	28.383	15.7137	35.4036	0.9459	4.76E-02	0.1116	4.40E+04	6.8616	86.787	28.584	-0.56	0.03	26.135	0.00E+00
10/12/2019	8:35:33 AM	28.544	15.6871	35.4005	0.9459	4.76E-02	0.1132	4.40E+04	6.795	85.892	28.748	-0.567	0.07	26.138	0.00E+00
10/12/2019	8:35:17 AM	28.619	15.9184	35.2797	1.6158	4.76E-02	0.1536	4.42E+04	5.8044	72.126	28.77	1.132	0	25.9601	0.00E+00
10/12/2019	8:35:32 AM	28.702	15.6629	35.4015	0.9444	4.76E-02	0.107	4.40E+04	6.7417	85.157	28.92	-0.585	0.07	26.1443	0.00E+00
10/12/2019	8:35:32 AM	28.857	15.6394	35.4037	0.7315	4.76E-02	0.0914	4.40E+04	6.6941	84.465	29.089	-0.602	0.1	26.1518	0.00E+00
10/12/2019	8:35:17 AM	28.905	15.8761	35.2859	1.6135	4.76E-02	0.152	4.42E+04	5.8171	72.282	29.06	1.135	0.01	25.976	0.00E+00
10/12/2019	8:35:32 AM	29.008	15.6149	35.4049	0.7315	4.76E-02	0.0945	4.39E+04	6.6578	83.912	29.203	-0.628	0.06	26.1587	0.00E+00
10/12/2019	8:35:32 AM	29.157	15.5891	35.4045	0.7346	4.76E-02	0.0883	4.39E+04	6.6188	83.293	29.309	-0.644	0.01	26.1642	0.00E+00
10/12/2019	8:35:17 AM	29.19	15.833	35.2887	1.6142	4.76E-02	0.1598	4.42E+04	5.8271	72.407	29.351	1.142	0.03	25.9884	0.00E+00
10/12/2019	8:35:31 AM	29.307	15.5626	35.399	0.7353	4.76E-02	0.0883	4.39E+04	6.5946	82.922	29.432	-0.646	-0.04	26.165	0.00E+00
10/12/2019	8:35:31 AM	29.458	15.5369	35.3873	0.6232	4.76E-02	0.7037	4.39E+04	6.5624	82.441	29.567	-0.636	-0.06	26.1597	0.00E+00
10/12/2019	8:35:18 AM	29.476	15.7841	35.2845	1.1412	4.76E-02	0.2064	4.41E+04	5.8335	72.489	29.645	1.149	0.03	25.9948	0.00E+00
10/12/2019	8:35:31 AM	29.613	15.5146	35.3757	0.6255	4.76E-02	0.7006	4.38E+04	6.5275	81.972	29.76	-0.622	-0.02	26.1534	0.00E+00
10/12/2019	8:35:18 AM	29.762	15.7269	35.2691	1.1374	4.76E-02	0.2049	4.41E+04	5.8418	72.597	29.936	1.155	0.02	25.9927	0.00E+00
10/12/2019	8:35:31 AM	29.769	15.4979	35.3678	0.6255	4.76E-02	0.7022	4.38E+04	6.4895	81.447	29.948	-0.617	0	26.1489	0.00E+00
10/12/2019	8:35:31 AM	29.924	15.4866	35.3628	0.6255	4.76E-02	0.7006	4.38E+04	6.4507	80.933	30.125	-0.616	0.01	26.1462	0.00E+00
10/12/2019	8:35:18 AM	30.047	15.6657	35.2497	1.1382	4.76E-02	0.2096	4.40E+04	5.8471	72.667	30.228	1.16	0.02	25.989	0.00E+00
10/12/2019	8:35:30 AM	30.077	15.4791	35.36	0.5995	4.76E-02	0.1132	4.38E+04	6.404	80.306	30.255	-0.617	-0.03	26.145	0.00E+00
10/12/2019	8:35:30 AM	30.23	15.4739	35.3585	0.6018	4.76E-02	0.121	4.38E+04	6.3663	79.809	30.407	-0.61	-0.06	26.1445	0.00E+00
10/12/2019	8:35:18 AM	30.331	15.6089	35.2429	1.1405	4.76E-02	0.2096	4.39E+04	5.8518	72.729	30.527	1.166	0.02	25.9967	0.00E+00
10/12/2019	8:35:30 AM	30.382	15.4701	35.3575	0.601	4.76E-02	0.1318	4.38E+04	6.321	79.205	30.556	-0.595	-0.13	26.1444	0.00E+00
10/12/2019	8:35:29 AM	30.534	15.4669	35.3569	0.598	4.76E-02	0.1225	4.38E+04	6.2742	78.588	30.714	-0.562	-0.1	26.1444	0.00E+00
10/12/2019	8:35:19 AM	30.613	15.5623	35.2536	0.8063	4.76E-02	0.2049	4.39E+04	5.8488	72.694	30.818	1.169	0.01	26.0188	0.00E+00
10/12/2019	8:35:29 AM	30.685	15.4642	35.3566	0.6125	4.76E-02	0.0914	4.38E+04	6.2249	77.931	30.861	-0.537	-0.02	26.1447	0.00E+00
10/12/2019	8:35:29 AM	30.836	15.4617	35.3563	0.614	4.76E-02	0.0899	4.38E+04	6.1745	77.267	31.037	-0.532	0.06	26.145	0.00E+00
10/12/2019	8:35:19 AM	30.894	15.5277	35.2744	0.8032	4.76E-02	0.2018	4.38E+04	5.8652	72.899	31.107	1.171	0.01	26.0477	0.00E+00
10/12/2019	8:35:29 AM	30.985	15.4595	35.3557	0.614	4.76E-02	0.0945	4.38E+04	6.1257	76.609	31.197	-0.546	0.08	26.1449	0.00E+00
10/12/2019	8:35:29 AM	31.131	15.4574	35.3547	0.6094	4.76E-02	0.0961	4.38E+04	6.0769	75.95	31.337	-0.566	0.1	26.1444	0.00E+00
10/12/2019	8:35:19 AM	31.171	15.5033	35.2969	0.804	4.76E-02	0.2158	4.38E+04	5.8684	72.938	31.396	1.17	0	26.0755	0.00E+00
10/12/2019	8:35:28 AM	31.276	15.4556	35.3537	0.6117	4.76E-02	0.0899	4.38E+04	6.0399	75.434	31.472	-0.59	0.1	26.1438	0.00E+00
10/12/2019	8:35:28 AM	31.42	15.4543	35.3529	0.6628	4.76E-02	0.1583	4.38E+04	6.0028	74.934	31.612	-0.614	0.13	26.1432	0.00E+00
10/12/2019	8:35:20 AM	31.446	15.486	35.3152	0.8048	4.76E-02	0.2096	4.38E+04	5.8768	73.046	31.688	1.169	0	26.0974	0.00E+00
10/12/2019	8:35:28 AM	31.563	15.4536	35.3524	0.659	4.76E-02	0.1598	4.38E+04	5.9748	74.56	31.733	-0.646	0.11	26.1429	0.00E+00
10/12/2019	8:35:27 AM	31.707	15.4533	35.3523	0.6606	4.76E-02	0.1474	4.38E+04	5.9571	74.312	31.811	-0.673	0.05	26.1429	0.00E+00
10/12/2019	8:35:20 AM	31.716	15.4732	35.3272	0.6476	4.76E-02	0.1318	4.38E+04	5.8876	73.184	31.979	1.167	-0.01	26.1122	0.00E+00
10/12/2019	8:35:27 AM	31.854	15.4533	35.3525	0.6606	4.76E-02	0.1583	4.38E+04	5.9485	74.17	31.958	-0.686	0.04	26.143	0.00E+00
10/12/2019	8:35:20 AM	31.982	15.4632	35.3341	0.6476	4.76E-02	0.1334	4.38E+04	5.8997	73.336	32.27	1.166	-0.01	26.1214	0.00E+00
10/12/2019	8:35:27 AM	32.005	15.4533	35.3527	0.5629	4.76E-02	0.2313	4.38E+04	5.9479	74.112	32.159	-0.695	0.09	26.1431	0.00E+00
10/12/2019	8:35:27 AM	32.159	15.4533	35.3526	0.5644	4.76E-02	0.2313	4.38E+04	5.9437	74.015	32.335	-0.717	0.08	26.1431	0.00E+00
10/12/2019	8:35:20 AM	32.24	15.4555	35.3387	0.6484	4.76E-02	0.1396	4.38E+04	5.9084	73.446	32.567	1.166	0	26.1278	0.00E+00
10/12/2019	8:35:27 AM	32.313	15.4532	35.3524	0.566	4.76E-02	0.2329	4.38E+04	5.9429	73.962	32.481	-0.738	0.04	26.1428	0.00E+00
10/12/2019	8:35:26 AM	32.467	15.4533	35.3522	0.566	4.76E-02	0.2313	4.38E+04	5.9462	73.951	32.645	-0.747	-0.07	26.1425	0.00E+00
10/12/2019	8:35:20 AM	32.489	15.4498	35.3427	0.6476	4.76E-02	0.1303	4.38E+04	5.9191	73.579	32.859	1.166	0	26.1332	0.00E+00
10/12/2019	8:35:26 AM	32.622	15.4536	35.3522	0.5621	4.76E-02	0.135	4.38E+04	5.9489	73.977	32.802	-0.73	-0.21	26.1425	0.00E+00
10/12/2019	8:35:21 AM	32.726	15.4457	35.3462	0.6484	4.76E-02	0.1303	4.38E+04	5.9247	73.646	33.155	1.169	0.01	26.1376	0.00E+00
10/12/2019	8:35:26 AM	32.777	15.454	35.3526	0.5667	4.76E-02	0.1272	4.38E+04	5.9443	73.913	32.986	-0.677	-0.35	26.1428	0.00E+00
10/12/2019	8:35:25 AM	32.93	15.4544	35.3534	0.5652	4.76E-02	0.1334	4.38E+04	5.9436	73.903	33.162	-0.589	-0.47	26.1434	0.00E+00
10/12/2019	8:35:21 AM	32.948	15.4429	35.3489	0.6133	4.76E-02	0.1381	4.38E+04	5.9251	73.651	33.45	1.172	0.01	26.141	0.00E+00
10/12/2019	8:35:25 AM	33.08	15.4546	35.3544	0.5652	4.76E-02	0.1412	4.38E+04	5.9392	73.847	33.371	-0.472	-0.5	26.1443	0.00E+00

10/12/2019	8:35:21 AM	33.149	15.4409	35.351	0.614	4.76E-02	0.1318	4.38E+04	5.9271	73.674	33.744	1.175	0.01	26.1435	0.00E+00
10/12/2019	8:35:25 AM	33.224	15.4546	35.3554	0.6133	4.76E-02	0.3075	4.38E+04	5.9378	73.825	33.564	-0.348	-0.49	26.1453	0.00E+00
10/12/2019	8:35:22 AM	33.325	15.4394	35.3525	0.6117	4.76E-02	0.1303	4.38E+04	5.9273	73.675	34.046	1.178	0.01	26.1453	0.00E+00
10/12/2019	8:35:25 AM	33.358	15.454	35.3563	0.6133	4.76E-02	0.3308	4.38E+04	5.9373	73.817	33.759	-0.226	-0.42	26.1463	0.00E+00
10/12/2019	8:35:22 AM	33.469	15.4386	35.3536	0.611	4.76E-02	0.1365	4.38E+04	5.9267	73.668	34.189	1.141	-0.15	26.1466	0.00E+00
10/12/2019	8:35:24 AM	33.478	15.453	35.3566	0.6133	4.76E-02	0.3339	4.38E+04	5.9346	73.78	33.937	-0.12	-0.33	26.1469	0.00E+00
10/12/2019	8:35:22 AM	33.582	15.4386	35.3546	0.6148	4.76E-02	0.2313	4.38E+04	5.9279	73.683	34.23	1.045	-0.38	26.1476	0.00E+00
10/12/2019	8:35:24 AM	33.582	15.4516	35.3563	0.6102	4.76E-02	0.3308	4.38E+04	5.9371	73.808	34.11	-0.039	-0.19	26.1469	0.00E+00
10/12/2019	8:35:24 AM	33.665	15.4501	35.3562	0.6117	4.76E-02	0.3277	4.38E+04	5.9369	73.802	34.214	0.008	-0.12	26.1471	0.00E+00
10/12/2019	8:35:22 AM	33.666	15.4394	35.3557	0.6148	4.76E-02	0.236	4.38E+04	5.9272	73.675	34.24	0.898	-0.59	26.1487	0.00E+00
10/12/2019	8:35:22 AM	33.725	15.4408	35.3569	0.6125	4.76E-02	0.2313	4.38E+04	5.9279	73.684	34.249	0.721	-0.71	26.1496	0.00E+00
10/12/2019	8:35:24 AM	33.726	15.4489	35.3566	0.5972	4.76E-02	0.2608	4.38E+04	5.9372	73.802	34.273	0.039	-0.19	26.1477	0.00E+00
10/12/2019	8:35:23 AM	33.763	15.4426	35.3578	0.6133	4.76E-02	0.2329	4.38E+04	5.9315	73.728	34.258	0.532	-0.76	26.1501	0.00E+00
10/12/2019	8:35:24 AM	33.765	15.4477	35.3574	0.5988	4.76E-02	0.2608	4.38E+04	5.9365	73.79	34.284	0.087	-0.44	26.1487	0.00E+00
10/12/2019	8:35:23 AM	33.783	15.4446	35.3582	0.6003	4.76E-02	0.2593	4.38E+04	5.9323	73.736	34.267	0.351	-0.72	26.1502	0.00E+00
10/12/2019	8:35:23 AM	33.783	15.4463	35.3581	0.5988	4.76E-02	0.2562	4.38E+04	5.9347	73.767	34.275	0.196	-0.62	26.1496	0.00E+00

TRANSECT 1 - 1,500 m

DD MMM YYYY HH:MM:SS	DD MMM YYYY HH:MM:SS	DepSM	Tv290C	Sal00	FlECO-AFL	Par	TurbWETntu0	C0uS/cm	Sbeox0Mg/L	Sbeox0PS	PrdM	Dz/dtM	AccM	Sigma-t00	Flag
10/12/2019	8:37:44 AM	0.455	18.0541	35.3198	0.2722	4.76E-02	0.724	4.63E+04	7.824	102.236	0.291	-0.294	0.01	25.5037	0.00E+00
10/12/2019	8:37:44 AM	0.455	18.0543	35.3194	0.2783	4.76E-02	0.7271	4.63E+04	7.8338	102.367	0.308	-0.254	0.16	25.5034	0.00E+00
10/12/2019	8:37:43 AM	0.465	18.054	35.3201	0.2737	4.76E-02	0.7271	4.63E+04	7.8056	101.994	0.287	-0.296	-0.14	25.5041	0.00E+00
10/12/2019	8:37:44 AM	0.465	18.0544	35.3191	0.273	4.76E-02	0.7488	4.63E+04	7.8446	102.509	0.348	-0.181	0.29	25.5031	0.00E+00
10/12/2019	8:37:45 AM	0.482	18.0545	35.319	0.2715	4.76E-02	0.7504	4.63E+04	7.8578	102.681	0.365	-0.103	0.32	25.503	0.00E+00
10/12/2019	8:37:43 AM	0.486	18.0538	35.3203	0.2791	4.76E-02	0.7255	4.63E+04	7.797	101.878	0.324	-0.261	-0.25	25.5042	0.00E+00
10/12/2019	8:37:45 AM	0.507	18.0546	35.3192	0.2737	4.76E-02	0.7535	4.63E+04	7.8621	102.737	0.377	-0.034	0.28	25.5031	0.00E+00
10/12/2019	8:37:45 AM	0.54	18.0547	35.3194	0.2768	4.76E-02	0.7457	4.63E+04	7.8609	102.71	0.393	0.023	0.22	25.5032	0.00E+00
10/12/2019	8:37:45 AM	0.582	18.0548	35.3194	0.2623	4.76E-02	0.7535	4.63E+04	7.8635	102.72	0.421	0.062	0.16	25.5032	0.00E+00
10/12/2019	8:37:45 AM	0.634	18.0549	35.3194	0.2592	4.76E-02	0.755	4.63E+04	7.8652	102.725	0.519	0.101	0.16	25.5032	0.00E+00
10/12/2019	8:37:46 AM	0.693	18.0552	35.3196	0.2631	4.76E-02	0.7488	4.63E+04	7.8744	102.814	0.63	0.144	0.17	25.5033	0.00E+00
10/12/2019	8:37:46 AM	0.757	18.0555	35.3197	0.2623	4.76E-02	0.7504	4.63E+04	7.8879	102.966	0.711	0.187	0.17	25.5034	0.00E+00
10/12/2019	8:37:46 AM	0.825	18.0557	35.3198	0.2631	4.76E-02	0.6789	4.63E+04	7.9003	103.112	0.753	0.219	0.13	25.5034	0.00E+00
10/12/2019	8:37:47 AM	0.897	18.0556	35.3196	0.2638	4.76E-02	0.6789	4.63E+04	7.9114	103.246	0.793	0.246	0.1	25.5032	0.00E+00
10/12/2019	8:37:47 AM	0.976	18.0552	35.3193	0.2631	4.76E-02	0.6789	4.63E+04	7.9293	103.472	0.878	0.271	0.1	25.5029	0.00E+00
10/12/2019	8:39:23 AM	1.046	18.036	35.3194	0.2646	4.76E-02	0.2546	4.63E+04	9.0774	97.705	0.903	-0.475	0.07	25.5086	0.00E+00
10/12/2019	8:37:47 AM	1.061	18.0546	35.3189	0.2631	4.76E-02	0.6804	4.63E+04	7.9448	103.665	0.969	0.29	0.08	25.5026	0.00E+00
10/12/2019	8:39:23 AM	1.131	18.0346	35.3209	0.2753	4.76E-02	0.424	4.63E+04	9.006	98.404	0.999	-0.493	0.08	25.5102	0.00E+00
10/12/2019	8:37:47 AM	1.152	18.054	35.3187	0.2638	4.76E-02	0.6773	4.63E+04	7.9526	103.757	1.051	0.297	0.03	25.5025	0.00E+00
10/12/2019	8:39:22 AM	1.224	18.033	35.3218	0.2753	4.76E-02	0.4333	4.63E+04	9.0609	99.466	1.113	-0.513	0.07	25.5114	0.00E+00
10/12/2019	8:37:48 AM	1.25	18.0536	35.3188	0.2623	4.76E-02	0.7037	4.63E+04	7.9525	103.748	1.13	0.29	-0.03	25.5028	0.00E+00
10/12/2019	8:39:22 AM	1.326	18.0312	35.323	0.273	4.76E-02	0.4287	4.63E+04	8.586	100.608	1.222	-0.53	0.1	25.5129	0.00E+00
10/12/2019	8:37:48 AM	1.356	18.0537	35.3194	0.2615	4.76E-02	0.7006	4.63E+04	7.9571	103.803	1.214	0.291	0	25.5034	0.00E+00
10/12/2019	8:39:22 AM	1.434	18.0292	35.3246	0.273	4.76E-02	0.424	4.63E+04	7.7906	101.756	1.332	-0.556	0.09	25.5148	0.00E+00
10/12/2019	8:37:48 AM	1.472	18.0541	35.3202	0.2653	4.76E-02	0.7022	4.63E+04	7.955	103.775	1.319	0.311	0.08	25.5041	0.00E+00
10/12/2019	8:39:22 AM	1.548	18.0268	35.3256	0.3249	4.76E-02	0.5033	4.63E+04	7.8722	102.83	1.464	-0.578	0.09	25.5164	0.00E+00
10/12/2019	8:37:48 AM	1.597	18.0546	35.3206	0.2631	4.76E-02	0.7037	4.63E+04	7.9574	103.805	1.444	0.345	0.14	25.5044	0.00E+00
10/12/2019	8:39:22 AM	1.669	18.0238	35.3261	0.3218	4.76E-02	0.511	4.63E+04	7.9319	103.62	1.603	-0.601	0.1	25.5176	0.00E+00
10/12/2019	8:37:48 AM	1.732	18.0548	35.3206	0.273	4.76E-02	0.7022	4.63E+04	7.9596	103.831	1.585	0.382	0.15	25.5043	0.00E+00
10/12/2019	8:39:21 AM	1.794	18.0205	35.3267	0.3226	4.76E-02	0.5033	4.63E+04	7.9588	103.98	1.726	-0.627	0.05	25.5189	0.00E+00
10/12/2019	8:37:49 AM	1.877	18.0544	35.32	0.2737	4.76E-02	0.7053	4.63E+04	7.9619	103.869	1.738	0.417	0.14	25.5037	0.00E+00
10/12/2019	8:39:21 AM	1.925	18.0171	35.3279	0.3249	4.76E-02	0.5079	4.63E+04	7.9648	104.06	1.835	-0.639	0	25.5209	0.00E+00
10/12/2019	8:37:49 AM	2.031	18.0532	35.3189	0.2768	4.76E-02	0.7037	4.63E+04	7.9674	103.955	1.905	0.463	0.18	25.5028	0.00E+00
10/12/2019	8:39:21 AM	2.061	18.0135	35.3298	0.3363	4.76E-02	0.5048	4.63E+04	7.9671	104.091	1.988	-0.638	0.01	25.5237	0.00E+00
10/12/2019	8:37:49 AM	2.193	18.0507	35.3174	0.2753	4.76E-02	0.6991	4.63E+04	7.9733	104.047	2.088	0.519	0.22	25.5018	0.00E+00
10/12/2019	8:39:21 AM	2.202	18.0093	35.3317	0.3348	4.76E-02	0.5048	4.63E+04	7.9678	104.101	2.144	-0.642	0.02	25.5266	0.00E+00
10/12/2019	8:39:20 AM	2.349	18.0042	35.3324	0.3348	4.76E-02	0.5048	4.63E+04	7.9669	104.083	2.28	-0.647	0.03	25.5285	0.00E+00
10/12/2019	8:37:50 AM	2.362	18.0462	35.3153	0.2753	4.76E-02	0.654	4.63E+04	7.9798	104.141	2.28	0.579	0.24	25.5004	0.00E+00
10/12/2019	8:39:20 AM	2.499	17.9983	35.3321	0.3363	4.76E-02	0.5064	4.63E+04	7.9655	104.063	2.467	-0.654	0.08	25.5296	0.00E+00
10/12/2019	8:37:50 AM	2.538	18.0395	35.3123	0.2745	4.76E-02	0.654	4.63E+04	7.9811	104.152	2.464	0.633	0.21	25.4988	0.00E+00
10/12/2019	8:39:20 AM	2.653	17.9926	35.3319	0.4271	4.76E-02	0.6354	4.63E+04	7.967	104.08	2.63	-0.674	0.09	25.5306	0.00E+00
10/12/2019	8:37:50 AM	2.719	18.0307	35.3088	0.2745	4.76E-02	0.6494	4.63E+04	7.9832	104.165	2.676	0.682	0.2	25.4971	0.00E+00
10/12/2019	8:39:19 AM	2.81	17.9873	35.3315	0.4324	4.76E-02	0.626	4.63E+04	7.9689	104.103	2.792	-0.697	0.11	25.5314	0.00E+00
10/12/2019	8:37:50 AM	2.903	18.0209	35.3063	0.2753	4.76E-02	0.6509	4.63E+04	7.9832	104.147	2.903	0.729	0.19	25.497	0.00E+00
10/12/2019	8:39:19 AM	2.968	17.9825	35.3303	0.4355	4.76E-02	0.6307	4.63E+04	7.9731	104.155	2.958	-0.725	0.07	25.5313	0.00E+00
10/12/2019	8:37:50 AM	3.088	18.0108	35.3059	0.2959	4.76E-02	0.7006	4.63E+04	7.9774	104.052	3.13	0.773	0.18	25.4988	0.00E+00
10/12/2019	8:39:19 AM	3.129	17.9782	35.3285	0.4332	4.76E-02	0.6338	4.63E+04	7.9781	104.218	3.091	-0.743	-0.01	25.5304	0.00E+00
10/12/2019	8:37:51 AM	3.271	18.0015	35.3069	0.3134	4.76E-02	0.7053	4.63E+04	7.9699	103.941	3.375	0.817	0.17	25.502	0.00E+00
10/12/2019	8:39:19 AM	3.292	17.9749	35.3267	0.4324	4.76E-02	0.6307	4.63E+04	7.9809	104.252	3.251	-0.741	-0.07	25.5293	0.00E+00
10/12/2019	8:37:51 AM	3.449	17.9939	35.3096	0.3088	4.76E-02	0.7022	4.63E+04	7.9573	103.763	3.59	0.85	0.13	25.5066	0.00E+00

10/12/2019	8:39:19 AM	3.46	17.9729	35.3252	0.4446	4.76E-02	0.6602	4.63E+04	7.9824	104.267	3.428	-0.723	-0.1	25.5282	0.00E+00
10/12/2019	8:37:51 AM	3.62	17.9876	35.3133	0.3111	4.76E-02	0.7006	4.63E+04	7.9513	103.671	3.798	0.87	0.08	25.5117	0.00E+00
10/12/2019	8:39:18 AM	3.63	17.9719	35.3244	0.4431	4.76E-02	0.6571	4.63E+04	7.9796	104.228	3.599	-0.697	-0.07	25.5276	0.00E+00
10/12/2019	8:37:52 AM	3.781	17.9822	35.3164	0.3096	4.76E-02	0.7084	4.63E+04	7.9477	103.61	3.988	0.876	0.02	25.516	0.00E+00
10/12/2019	8:39:18 AM	3.803	17.9717	35.3244	0.4446	4.76E-02	0.6618	4.63E+04	7.9782	104.209	3.802	-0.679	-0.02	25.5275	0.00E+00
10/12/2019	8:37:52 AM	3.931	17.9775	35.3184	0.4202	4.76E-02	0.769	4.63E+04	7.9463	103.578	4.132	0.857	-0.07	25.519	0.00E+00
10/12/2019	8:39:18 AM	3.978	17.9718	35.325	0.4439	4.76E-02	0.6556	4.63E+04	7.9785	104.21	3.994	-0.673	0.04	25.5281	0.00E+00
10/12/2019	8:37:52 AM	4.071	17.9736	35.3199	0.4187	4.76E-02	0.7752	4.63E+04	7.9455	103.554	4.222	0.801	-0.23	25.5215	0.00E+00
10/12/2019	8:39:17 AM	4.153	17.9718	35.326	0.4813	4.76E-02	0.6556	4.63E+04	7.9785	104.205	4.186	-0.683	0.07	25.5292	0.00E+00
10/12/2019	8:37:52 AM	4.203	17.9706	35.3216	0.4195	4.76E-02	0.7815	4.63E+04	7.9448	103.532	4.267	0.71	-0.36	25.524	0.00E+00
10/12/2019	8:39:17 AM	4.328	17.9714	35.3277	0.4797	4.76E-02	0.6571	4.63E+04	7.9788	104.208	4.39	-0.699	0.06	25.531	0.00E+00
10/12/2019	8:37:52 AM	4.332	17.9688	35.3235	0.4187	4.76E-02	0.7737	4.63E+04	7.9482	103.572	4.303	0.598	-0.45	25.5264	0.00E+00
10/12/2019	8:37:53 AM	4.465	17.9679	35.3255	0.4561	4.76E-02	0.7706	4.63E+04	7.9487	103.573	4.365	0.485	-0.45	25.5287	0.00E+00
10/12/2019	8:39:17 AM	4.5	17.9703	35.33	0.4797	4.76E-02	0.6525	4.63E+04	7.9837	104.267	4.548	-0.714	0.05	25.5337	0.00E+00
10/12/2019	8:37:53 AM	4.604	17.968	35.3273	0.4553	4.76E-02	0.7783	4.63E+04	7.9452	103.523	4.474	0.4	-0.34	25.5305	0.00E+00
10/12/2019	8:39:17 AM	4.672	17.9681	35.3331	0.4797	4.76E-02	0.6571	4.62E+04	7.9849	104.273	4.7	-0.726	0.04	25.5373	0.00E+00
10/12/2019	8:37:53 AM	4.753	17.9693	35.3287	0.4584	4.76E-02	0.7799	4.63E+04	7.9437	103.506	4.62	0.353	-0.19	25.5318	0.00E+00
10/12/2019	8:39:17 AM	4.843	17.9645	35.336	0.5522	4.76E-02	0.5856	4.62E+04	7.9844	104.26	4.843	-0.735	-0.02	25.5411	0.00E+00
10/12/2019	8:37:54 AM	4.912	17.9718	35.3305	0.4584	4.76E-02	0.7737	4.63E+04	7.9458	103.543	4.8	0.354	0	25.5332	0.00E+00
10/12/2019	8:39:16 AM	5.016	17.9593	35.3375	0.5522	4.76E-02	0.5856	4.62E+04	7.985	104.263	4.99	-0.731	-0.04	25.5439	0.00E+00
10/12/2019	8:37:54 AM	5.079	17.9746	35.3323	0.5034	4.76E-02	0.7535	4.63E+04	7.9523	103.634	5.011	0.408	0.22	25.5342	0.00E+00
10/12/2019	8:39:16 AM	5.192	17.9528	35.3378	0.5553	4.76E-02	0.5856	4.62E+04	7.9831	104.234	5.195	-0.72	-0.06	25.5459	0.00E+00
10/12/2019	8:37:54 AM	5.252	17.9765	35.3324	0.5064	4.76E-02	0.755	4.63E+04	7.9588	103.721	5.208	0.495	0.35	25.5337	0.00E+00
10/12/2019	8:39:16 AM	5.369	17.9459	35.3376	0.5537	4.76E-02	0.581	4.62E+04	7.988	104.289	5.388	-0.706	-0.07	25.5473	0.00E+00
10/12/2019	8:37:54 AM	5.43	17.9761	35.3301	0.5049	4.76E-02	0.7504	4.63E+04	7.9715	103.888	5.395	0.59	0.38	25.5312	0.00E+00
10/12/2019	8:39:15 AM	5.547	17.9392	35.3371	0.6499	4.76E-02	0.5483	4.62E+04	7.99	104.303	5.601	-0.689	0	25.5482	0.00E+00
10/12/2019	8:37:55 AM	5.611	17.9729	35.3259	0.5026	4.76E-02	0.7504	4.63E+04	7.9759	103.945	5.61	0.679	0.36	25.5275	0.00E+00
10/12/2019	8:39:15 AM	5.723	17.9329	35.3367	0.6484	4.76E-02	0.5452	4.62E+04	7.9872	104.249	5.789	-0.689	0.01	25.5492	0.00E+00
10/12/2019	8:37:55 AM	5.795	17.9674	35.3213	0.5049	4.76E-02	0.7488	4.63E+04	7.9852	104.06	5.84	0.751	0.29	25.5241	0.00E+00
10/12/2019	8:39:15 AM	5.898	17.9273	35.3371	0.6491	4.76E-02	0.5561	4.62E+04	7.9787	104.126	5.93	-0.692	-0.02	25.5508	0.00E+00
10/12/2019	8:37:55 AM	5.977	17.9607	35.3183	0.5042	4.76E-02	0.7519	4.62E+04	7.9888	104.097	6.071	0.804	0.21	25.5226	0.00E+00
10/12/2019	8:39:15 AM	6.073	17.922	35.3379	0.6476	4.76E-02	0.5561	4.62E+04	7.9707	104.011	6.105	-0.687	-0.05	25.5527	0.00E+00
10/12/2019	8:37:55 AM	6.156	17.9537	35.3174	0.5026	4.76E-02	0.7504	4.62E+04	7.9891	104.096	6.281	0.835	0.12	25.5233	0.00E+00
10/12/2019	8:39:14 AM	6.247	17.9168	35.3386	0.6499	4.76E-02	0.5499	4.62E+04	7.9654	103.934	6.296	-0.675	-0.04	25.5546	0.00E+00
10/12/2019	8:37:55 AM	6.33	17.9468	35.3179	0.5042	4.76E-02	0.7504	4.62E+04	7.9844	104.031	6.475	0.846	0.04	25.5253	0.00E+00
10/12/2019	8:39:14 AM	6.421	17.9114	35.3391	0.7468	4.76E-02	0.581	4.62E+04	7.9636	103.898	6.465	-0.666	0.02	25.5563	0.00E+00
10/12/2019	8:37:56 AM	6.497	17.9399	35.319	0.5087	4.76E-02	0.7535	4.62E+04	7.9828	104.01	6.648	0.839	-0.03	25.5279	0.00E+00
10/12/2019	8:39:14 AM	6.594	17.9058	35.3396	0.7452	4.76E-02	0.5841	4.62E+04	7.9613	103.864	6.66	-0.67	0.09	25.5581	0.00E+00
10/12/2019	8:37:56 AM	6.656	17.9331	35.3199	0.6003	4.76E-02	0.7255	4.62E+04	7.9821	103.963	6.808	0.822	-0.07	25.5303	0.00E+00
10/12/2019	8:39:14 AM	6.766	17.9003	35.34	0.7437	4.76E-02	0.5794	4.62E+04	7.958	103.819	6.811	-0.692	0.12	25.5599	0.00E+00
10/12/2019	8:37:56 AM	6.809	17.9264	35.3206	0.601	4.76E-02	0.7286	4.62E+04	7.9829	103.892	6.961	0.792	-0.12	25.5325	0.00E+00
10/12/2019	8:39:14 AM	6.937	17.8947	35.3402	0.7422	4.76E-02	0.5825	4.62E+04	7.9564	103.8	6.965	-0.721	0.07	25.5613	0.00E+00
10/12/2019	8:37:57 AM	6.955	17.9202	35.3217	0.6018	4.76E-02	0.7255	4.62E+04	7.9825	103.795	7.039	0.728	-0.25	25.5351	0.00E+00
10/12/2019	8:37:57 AM	7.099	17.9147	35.3232	0.6026	4.76E-02	0.7317	4.62E+04	7.9754	103.598	7.091	0.64	-0.35	25.5379	0.00E+00
10/12/2019	8:39:13 AM	7.109	17.889	35.3409	0.8681	4.76E-02	0.4862	4.62E+04	7.9588	103.834	7.152	-0.738	-0.02	25.5634	0.00E+00
10/12/2019	8:37:57 AM	7.246	17.9102	35.3251	0.8139	4.76E-02	0.6789	4.62E+04	7.9737	103.42	7.191	0.557	-0.33	25.5409	0.00E+00
10/12/2019	8:39:13 AM	7.28	17.8835	35.3426	0.8658	4.76E-02	0.4862	4.62E+04	7.9644	103.91	7.319	-0.732	-0.09	25.5663	0.00E+00
10/12/2019	8:37:57 AM	7.398	17.907	35.3275	0.8154	4.76E-02	0.6851	4.62E+04	7.9693	103.214	7.319	0.494	-0.25	25.5441	0.00E+00
10/12/2019	8:39:13 AM	7.452	17.8776	35.3449	0.8627	4.76E-02	0.4753	4.62E+04	7.9717	104.007	7.493	-0.709	-0.09	25.5699	0.00E+00
10/12/2019	8:37:57 AM	7.557	17.905	35.3301	0.8185	4.76E-02	0.6773	4.62E+04	7.9662	103.001	7.433	0.449	-0.18	25.5471	0.00E+00
10/12/2019	8:39:12 AM	7.624	17.8709	35.3468	0.8666	4.76E-02	0.4815	4.62E+04	7.976	104.063	7.643	-0.686	-0.1	25.5734	0.00E+00

10/12/2019	8:37:58 AM	7.727	17.9044	35.3324	0.817	4.76E-02	0.6773	4.62E+04	7.9635	102.784	7.572	0.429	-0.08	25.5496	0.00E+00
10/12/2019	8:39:12 AM	7.797	17.8632	35.3469	1.0321	4.76E-02	0.3883	4.62E+04	7.9823	104.146	7.797	-0.66	-0.09	25.5754	0.00E+00
10/12/2019	8:37:58 AM	7.908	17.905	35.3346	0.8246	4.76E-02	0.6742	4.62E+04	7.9637	102.611	7.775	0.448	0.07	25.5518	0.00E+00
10/12/2019	8:39:12 AM	7.972	17.855	35.3455	1.0306	4.76E-02	0.3774	4.61E+04	7.9911	104.258	8.01	-0.637	-0.03	25.5759	0.00E+00
10/12/2019	8:37:58 AM	8.1	17.9062	35.3363	0.8299	4.76E-02	0.6758	4.62E+04	7.9664	102.504	8.01	0.507	0.24	25.5533	0.00E+00
10/12/2019	8:39:12 AM	8.148	17.8473	35.3435	1.0329	4.76E-02	0.3758	4.61E+04	7.9981	104.34	8.218	-0.629	0.07	25.5757	0.00E+00
10/12/2019	8:37:59 AM	8.301	17.907	35.3367	0.8322	4.76E-02	0.6758	4.62E+04	7.9669	102.411	8.222	0.594	0.35	25.5535	0.00E+00
10/12/2019	8:39:12 AM	8.322	17.8406	35.3417	1.0314	4.76E-02	0.3836	4.61E+04	8.0034	104.396	8.449	-0.647	0.17	25.5754	0.00E+00
10/12/2019	8:39:11 AM	8.491	17.8353	35.3403	1.0771	4.76E-02	0.4007	4.61E+04	8.0047	104.39	8.618	-0.689	0.17	25.5753	0.00E+00
10/12/2019	8:37:59 AM	8.51	17.9071	35.3357	0.8284	4.76E-02	0.682	4.62E+04	7.9697	102.384	8.428	0.678	0.33	25.5524	0.00E+00
10/12/2019	8:39:11 AM	8.657	17.8309	35.3394	1.0779	4.76E-02	0.4007	4.61E+04	8.0024	104.346	8.712	-0.732	0.08	25.5753	0.00E+00
10/12/2019	8:37:59 AM	8.726	17.9061	35.334	0.865	4.76E-02	0.5266	4.62E+04	7.9705	102.357	8.65	0.745	0.27	25.5509	0.00E+00
10/12/2019	8:39:11 AM	8.822	17.8274	35.3389	1.0794	4.76E-02	0.4054	4.61E+04	8.0013	104.318	8.831	-0.752	-0.03	25.5756	0.00E+00
10/12/2019	8:37:59 AM	8.95	17.9034	35.3318	0.9039	4.76E-02	0.5235	4.62E+04	7.9694	102.315	8.889	0.806	0.24	25.5491	0.00E+00
10/12/2019	8:39:10 AM	8.989	17.8245	35.3392	1.0802	4.76E-02	0.4147	4.61E+04	7.9998	104.286	8.989	-0.743	-0.06	25.5766	0.00E+00
10/12/2019	8:39:10 AM	9.159	17.8217	35.3406	1.0756	4.76E-02	0.4085	4.61E+04	7.9989	104.265	9.166	-0.727	-0.08	25.5786	0.00E+00
10/12/2019	8:37:59 AM	9.181	17.899	35.3291	0.8986	4.76E-02	0.5297	4.62E+04	7.9661	102.256	9.138	0.863	0.23	25.5473	0.00E+00
10/12/2019	8:39:10 AM	9.332	17.8185	35.343	1.0893	4.76E-02	0.3525	4.61E+04	7.9967	104.231	9.364	-0.709	-0.07	25.5818	0.00E+00
10/12/2019	8:38:00 AM	9.418	17.8927	35.3261	0.9009	4.76E-02	0.5266	4.62E+04	7.9612	102.184	9.399	0.906	0.17	25.5457	0.00E+00
10/12/2019	8:39:10 AM	9.505	17.8145	35.3462	1.0939	4.76E-02	0.3572	4.61E+04	7.9918	104.157	9.546	-0.691	-0.04	25.5861	0.00E+00
10/12/2019	8:38:00 AM	9.659	17.8841	35.3232	0.9024	4.76E-02	0.5312	4.62E+04	7.9553	102.097	9.655	0.932	0.11	25.5446	0.00E+00
10/12/2019	8:39:10 AM	9.679	17.8091	35.3499	1.0893	4.76E-02	0.3587	4.61E+04	7.9897	104.118	9.768	-0.679	-0.06	25.5912	0.00E+00
10/12/2019	8:39:09 AM	9.851	17.8019	35.3535	1.0901	4.76E-02	0.3541	4.61E+04	7.9822	104.008	9.957	-0.664	-0.17	25.5966	0.00E+00
10/12/2019	8:38:00 AM	9.904	17.8716	35.3193	0.865	4.76E-02	0.6991	4.62E+04	7.9487	101.993	9.919	0.958	0.1	25.5431	0.00E+00
10/12/2019	8:39:09 AM	10.021	17.7927	35.3572	1.1054	4.76E-02	0.3106	4.61E+04	7.987	104.061	10.129	-0.622	-0.24	25.6027	0.00E+00
10/12/2019	8:38:00 AM	10.151	17.8521	35.3122	0.8673	4.76E-02	0.7037	4.62E+04	7.9478	101.945	10.199	0.993	0.14	25.5398	0.00E+00
10/12/2019	8:39:09 AM	10.187	17.7815	35.362	1.1023	4.76E-02	0.3137	4.61E+04	7.986	104.038	10.3	-0.562	-0.21	25.6103	0.00E+00
10/12/2019	8:39:08 AM	10.349	17.7683	35.3657	1.1023	4.76E-02	0.3075	4.61E+04	7.9825	103.98	10.441	-0.508	-0.2	25.6174	0.00E+00
10/12/2019	8:38:01 AM	10.399	17.8223	35.2994	0.862	4.76E-02	0.7037	4.61E+04	7.9453	101.873	10.468	1.025	0.13	25.533	0.00E+00
10/12/2019	8:39:08 AM	10.509	17.7525	35.3662	1.1054	4.76E-02	0.3043	4.60E+04	7.985	104.006	10.619	-0.459	-0.07	25.6221	0.00E+00
10/12/2019	8:38:01 AM	10.646	17.7815	35.2809	0.8673	4.76E-02	0.7022	4.61E+04	7.9439	101.817	10.729	1.046	0.08	25.5236	0.00E+00
10/12/2019	8:39:08 AM	10.666	17.7349	35.3664	1.1771	4.76E-02	0.2826	4.60E+04	7.9805	103.939	10.794	-0.441	0.06	25.6266	0.00E+00
10/12/2019	8:39:08 AM	10.819	17.7173	35.3709	1.1733	4.76E-02	0.2857	4.60E+04	7.9772	103.88	10.957	-0.457	0.16	25.6351	0.00E+00
10/12/2019	8:38:01 AM	10.891	17.7313	35.2625	0.981	4.76E-02	0.4535	4.60E+04	7.9468	101.818	10.977	1.054	0.03	25.5169	0.00E+00
10/12/2019	8:39:07 AM	10.966	17.6995	35.3811	1.1748	4.76E-02	0.2764	4.60E+04	7.9738	103.818	11.153	-0.497	0.33	25.6491	0.00E+00
10/12/2019	8:39:07 AM	11.107	17.679	35.3926	1.1763	4.76E-02	0.2826	4.60E+04	7.979	103.862	11.262	-0.578	0.33	25.6657	0.00E+00
10/12/2019	8:38:02 AM	11.136	17.6721	35.2477	0.9825	4.76E-02	0.4582	4.60E+04	7.9498	101.821	11.216	1.049	-0.02	25.5155	0.00E+00
10/12/2019	8:39:07 AM	11.243	17.6531	35.4035	1.5204	4.76E-02	0.1567	4.60E+04	7.9784	103.836	11.299	-0.661	0.2	25.6831	0.00E+00
10/12/2019	8:38:02 AM	11.379	17.6044	35.2326	0.984	4.76E-02	0.4551	4.59E+04	7.9548	101.854	11.458	1.037	-0.05	25.5162	0.00E+00
10/12/2019	8:39:07 AM	11.379	17.6215	35.4172	1.5196	4.76E-02	0.1505	4.59E+04	7.9788	103.831	11.35	-0.712	0.08	25.7046	0.00E+00
10/12/2019	8:39:07 AM	11.52	17.5841	35.4334	1.5189	4.76E-02	0.1567	4.59E+04	7.9815	103.856	11.47	-0.733	-0.01	25.7299	0.00E+00
10/12/2019	8:38:02 AM	11.621	17.5311	35.2185	0.9848	4.76E-02	0.4535	4.58E+04	7.9556	101.833	11.705	1.024	-0.05	25.5198	0.00E+00
10/12/2019	8:39:06 AM	11.668	17.5393	35.4458	1.5204	4.76E-02	0.1614	4.58E+04	7.979	103.819	11.601	-0.729	-0.07	25.7536	0.00E+00
10/12/2019	8:39:06 AM	11.823	17.4863	35.4522	1.5189	4.76E-02	0.1567	4.58E+04	7.9806	103.837	11.784	-0.713	-0.03	25.7734	0.00E+00
10/12/2019	8:38:02 AM	11.862	17.4556	35.2114	1.2976	4.76E-02	0.1816	4.58E+04	7.9571	101.829	11.956	1.009	-0.06	25.5308	0.00E+00
10/12/2019	8:39:06 AM	11.985	17.4274	35.4546	1.866	4.76E-02	0.1831	4.57E+04	7.9868	103.914	11.984	-0.705	0.01	25.79	0.00E+00
10/12/2019	8:38:02 AM	12.1	17.3812	35.2103	1.2984	4.76E-02	0.1847	4.57E+04	7.9591	101.833	12.228	1.001	-0.03	25.5478	0.00E+00
10/12/2019	8:39:05 AM	12.151	17.3658	35.4508	1.8668	4.76E-02	0.1847	4.57E+04	7.9916	103.975	12.168	-0.708	0.05	25.8011	0.00E+00
10/12/2019	8:39:05 AM	12.32	17.3045	35.4431	1.8653	4.76E-02	0.1862	4.56E+04	7.9917	103.973	12.382	-0.72	0.04	25.8078	0.00E+00
10/12/2019	8:38:03 AM	12.335	17.3126	35.2148	1.3007	4.76E-02	0.18	4.56E+04	7.9549	101.76	12.504	1.006	0.02	25.5696	0.00E+00
10/12/2019	8:39:05 AM	12.49	17.2468	35.4344	1.8653	4.76E-02	0.18	4.55E+04	7.9975	104.043	12.558	-0.731	-0.01	25.8125	0.00E+00

10/12/2019	8:38:03 AM	12.563	17.2546	35.2289	1.2969	4.76E-02	0.1816	4.55E+04	7.9443	101.603	12.772	1.018	0.05	25.5984	0.00E+00
10/12/2019	8:39:05 AM	12.661	17.1941	35.424	2.1353	4.76E-02	0.2049	4.55E+04	8.0006	104.075	12.718	-0.729	-0.05	25.8143	0.00E+00
10/12/2019	8:38:03 AM	12.783	17.2087	35.2511	1.4258	4.76E-02	0.2142	4.55E+04	7.9295	101.392	13.023	1.031	0.05	25.632	0.00E+00
10/12/2019	8:39:05 AM	12.832	17.1472	35.4144	2.1308	4.76E-02	0.208	4.55E+04	8.0055	104.122	12.895	-0.718	-0.07	25.8153	0.00E+00
10/12/2019	8:38:04 AM	12.993	17.174	35.2749	1.8111	4.76E-02	0.208	4.55E+04	7.9191	101.216	13.255	1.036	0.02	25.6643	0.00E+00
10/12/2019	8:39:04 AM	13.004	17.1064	35.4057	2.1338	4.76E-02	0.2064	4.54E+04	8.0107	104.172	13.039	-0.701	-0.08	25.8159	0.00E+00
10/12/2019	8:39:04 AM	13.177	17.0711	35.3961	2.1338	4.76E-02	0.2064	4.54E+04	8.0126	104.171	13.219	-0.681	-0.08	25.8145	0.00E+00
10/12/2019	8:38:04 AM	13.191	17.1483	35.2957	1.8096	4.76E-02	0.208	4.55E+04	7.9009	100.939	13.456	1.021	-0.06	25.6913	0.00E+00
10/12/2019	8:39:04 AM	13.353	17.0409	35.3863	2.2322	4.76E-02	0.3308	4.53E+04	8.0131	104.153	13.428	-0.661	-0.05	25.8115	0.00E+00
10/12/2019	8:38:04 AM	13.378	17.129	35.3118	1.8057	4.76E-02	0.2064	4.54E+04	7.8814	100.646	13.605	0.978	-0.17	25.712	0.00E+00
10/12/2019	8:39:03 AM	13.528	17.0161	35.3776	2.2299	4.76E-02	0.3292	4.53E+04	8.0241	104.254	13.629	-0.65	0.02	25.8083	0.00E+00
10/12/2019	8:38:04 AM	13.557	17.114	35.323	1.8073	4.76E-02	0.2064	4.54E+04	7.8602	100.352	13.698	0.899	-0.32	25.7268	0.00E+00
10/12/2019	8:39:03 AM	13.702	16.9969	35.3718	2.2299	4.76E-02	0.3214	4.53E+04	8.0343	104.338	13.844	-0.655	0.08	25.8065	0.00E+00
10/12/2019	8:38:04 AM	13.731	17.1011	35.33	1.9316	4.76E-02	0.2779	4.54E+04	7.8379	100.052	13.768	0.789	-0.44	25.7368	0.00E+00
10/12/2019	8:39:03 AM	13.872	16.9825	35.3689	2.2299	4.76E-02	0.3339	4.53E+04	8.0477	104.49	13.992	-0.674	0.09	25.8067	0.00E+00
10/12/2019	8:38:05 AM	13.907	17.0882	35.3331	1.9301	4.76E-02	0.2764	4.54E+04	7.8221	99.837	13.876	0.678	-0.44	25.7428	0.00E+00
10/12/2019	8:39:03 AM	14.04	16.9712	35.3683	2.1582	4.76E-02	0.2562	4.53E+04	8.0516	104.525	14.126	-0.696	0.02	25.8084	0.00E+00
10/12/2019	8:38:05 AM	14.09	17.0737	35.3325	1.9271	4.76E-02	0.2826	4.54E+04	7.8192	99.785	14.041	0.594	-0.34	25.7453	0.00E+00
10/12/2019	8:39:03 AM	14.207	16.9614	35.3687	2.1559	4.76E-02	0.2546	4.53E+04	8.0512	104.489	14.281	-0.702	-0.04	25.811	0.00E+00
10/12/2019	8:38:05 AM	14.279	17.0572	35.3293	1.9278	4.76E-02	0.2795	4.54E+04	7.8112	99.665	14.235	0.547	-0.18	25.746	0.00E+00
10/12/2019	8:39:02 AM	14.375	16.952	35.3694	2.1598	4.76E-02	0.2531	4.53E+04	8.0463	104.376	14.432	-0.692	-0.06	25.8138	0.00E+00
10/12/2019	8:38:06 AM	14.476	17.0398	35.3261	1.9263	4.76E-02	0.1987	4.54E+04	7.83	99.901	14.452	0.545	-0.01	25.747	0.00E+00
10/12/2019	8:39:02 AM	14.543	16.9424	35.3707	2.1598	4.76E-02	0.2546	4.53E+04	8.036	104.169	14.624	-0.677	-0.05	25.8173	0.00E+00
10/12/2019	8:38:06 AM	14.68	17.0224	35.3249	1.9271	4.76E-02	0.2049	4.53E+04	7.8177	99.744	14.676	0.585	0.16	25.75	0.00E+00
10/12/2019	8:39:02 AM	14.712	16.9326	35.3722	2.1552	4.76E-02	0.2593	4.52E+04	8.017	103.863	14.795	-0.664	-0.04	25.8211	0.00E+00
10/12/2019	8:39:01 AM	14.88	16.9221	35.373	2.2307	4.76E-02	0.4038	4.52E+04	7.9932	103.455	14.96	-0.653	-0.01	25.8245	0.00E+00
10/12/2019	8:38:06 AM	14.89	17.0053	35.3255	1.9263	4.76E-02	0.2033	4.53E+04	7.8273	99.857	14.904	0.657	0.29	25.7546	0.00E+00
10/12/2019	8:39:01 AM	15.049	16.911	35.3728	2.2299	4.76E-02	0.4054	4.52E+04	7.971	103.042	15.152	-0.65	0.01	25.827	0.00E+00
10/12/2019	8:38:06 AM	15.103	16.9888	35.3264	1.9286	4.76E-02	0.2033	4.53E+04	7.83	99.867	15.136	0.745	0.35	25.7595	0.00E+00
10/12/2019	8:39:01 AM	15.216	16.8996	35.3713	2.2299	4.76E-02	0.4085	4.52E+04	7.9525	102.646	15.32	-0.652	-0.02	25.8282	0.00E+00
10/12/2019	8:38:06 AM	15.319	16.9732	35.3278	2.0606	4.76E-02	0.2282	4.53E+04	7.8352	99.906	15.377	0.826	0.32	25.7647	0.00E+00
10/12/2019	8:39:01 AM	15.382	16.8886	35.3696	2.2284	4.76E-02	0.4038	4.52E+04	7.9359	102.303	15.512	-0.647	0.03	25.8291	0.00E+00
10/12/2019	8:38:07 AM	15.538	16.9587	35.3299	2.0613	4.76E-02	0.2282	4.53E+04	7.8555	100.139	15.606	0.879	0.21	25.7702	0.00E+00
10/12/2019	8:39:00 AM	15.545	16.8785	35.3687	2.1437	4.76E-02	0.3852	4.52E+04	7.936	102.169	15.666	-0.655	0.02	25.8304	0.00E+00
10/12/2019	8:39:00 AM	15.707	16.8694	35.3679	2.146	4.76E-02	0.3852	4.52E+04	7.9243	101.89	15.797	-0.661	-0.01	25.8317	0.00E+00
10/12/2019	8:38:07 AM	15.757	16.9453	35.3322	2.0613	4.76E-02	0.2313	4.53E+04	7.8661	100.254	15.843	0.909	0.12	25.7757	0.00E+00
10/12/2019	8:39:00 AM	15.868	16.8608	35.3673	2.143	4.76E-02	0.3836	4.52E+04	7.9234	101.798	15.967	-0.658	-0.04	25.833	0.00E+00
10/12/2019	8:38:07 AM	15.977	16.9324	35.3343	2.0606	4.76E-02	0.2298	4.52E+04	7.8815	100.433	16.083	0.927	0.07	25.7807	0.00E+00
10/12/2019	8:39:00 AM	16.029	16.8528	35.3675	2.1437	4.76E-02	0.3774	4.52E+04	7.9212	101.662	16.121	-0.649	-0.13	25.8349	0.00E+00
10/12/2019	8:39:00 AM	16.19	16.8452	35.368	2.4588	4.76E-02	0.4302	4.52E+04	7.9162	101.544	16.288	-0.616	-0.16	25.8372	0.00E+00
10/12/2019	8:38:07 AM	16.196	16.9193	35.3353	2.0606	4.76E-02	0.2313	4.52E+04	7.8867	100.481	16.31	0.934	0.03	25.7847	0.00E+00
10/12/2019	8:38:59 AM	16.349	16.8376	35.3687	2.455	4.76E-02	0.4318	4.51E+04	7.9168	101.482	16.486	-0.576	-0.12	25.8397	0.00E+00
10/12/2019	8:38:08 AM	16.413	16.9056	35.3352	2.143	4.76E-02	0.2375	4.52E+04	7.913	100.805	16.528	0.932	0	25.7877	0.00E+00
10/12/2019	8:38:59 AM	16.507	16.8297	35.3692	2.452	4.76E-02	0.4256	4.51E+04	7.9102	101.338	16.642	-0.547	-0.1	25.8421	0.00E+00
10/12/2019	8:38:08 AM	16.629	16.8903	35.334	2.1437	4.76E-02	0.2235	4.52E+04	7.9044	100.681	16.74	0.924	-0.03	25.7899	0.00E+00
10/12/2019	8:38:59 AM	16.661	16.8215	35.3688	2.4527	4.76E-02	0.424	4.51E+04	7.9031	101.209	16.781	-0.522	-0.08	25.8437	0.00E+00
10/12/2019	8:38:58 AM	16.814	16.8132	35.3675	2.4512	4.76E-02	0.2546	4.51E+04	7.8876	100.985	16.955	-0.502	-0.04	25.8443	0.00E+00
10/12/2019	8:38:08 AM	16.843	16.8735	35.3313	2.1414	4.76E-02	0.2266	4.52E+04	7.9074	100.709	16.941	0.908	-0.06	25.7911	0.00E+00
10/12/2019	8:38:58 AM	16.964	16.8053	35.3658	2.4527	4.76E-02	0.2562	4.51E+04	7.8865	100.96	17.114	-0.494	0.04	25.8445	0.00E+00
10/12/2019	8:38:09 AM	17.058	16.8565	35.3286	2.146	4.76E-02	0.2344	4.52E+04	7.8879	100.452	17.138	0.886	-0.09	25.7926	0.00E+00
10/12/2019	8:38:58 AM	17.11	16.7982	35.3644	2.4527	4.76E-02	0.2531	4.51E+04	7.8544	100.54	17.28	-0.504	0.13	25.8447	0.00E+00

10/12/2019	8:38:58 AM	17.251	16.7921	35.3639	2.455	4.76E-02	0.2577	4.51E+04	7.837	100.303	17.416	-0.536	0.16	25.8455	0.00E+00
10/12/2019	8:38:09 AM	17.273	16.8413	35.3293	2.2078	4.76E-02	0.3043	4.52E+04	7.8885	100.452	17.329	0.861	-0.1	25.7971	0.00E+00
10/12/2019	8:38:58 AM	17.39	16.7867	35.3649	2.4527	4.76E-02	0.2593	4.51E+04	7.8106	99.952	17.498	-0.577	0.12	25.8476	0.00E+00
10/12/2019	8:38:09 AM	17.491	16.8291	35.3338	2.2063	4.76E-02	0.3043	4.51E+04	7.876	100.284	17.534	0.838	-0.09	25.8046	0.00E+00
10/12/2019	8:38:57 AM	17.527	16.7816	35.3673	2.3619	4.76E-02	0.2002	4.51E+04	7.8007	99.807	17.605	-0.608	0.06	25.851	0.00E+00
10/12/2019	8:38:57 AM	17.665	16.776	35.3705	2.365	4.76E-02	0.2064	4.51E+04	7.796	99.731	17.728	-0.622	0.02	25.8556	0.00E+00
10/12/2019	8:38:09 AM	17.712	16.819	35.3392	2.204	4.76E-02	0.3121	4.51E+04	7.8609	100.077	17.765	0.827	-0.05	25.8123	0.00E+00
10/12/2019	8:38:57 AM	17.806	16.7691	35.3746	2.3642	4.76E-02	0.2127	4.51E+04	7.8011	99.774	17.859	-0.626	0.01	25.8612	0.00E+00
10/12/2019	8:38:09 AM	17.936	16.8102	35.3427	2.2063	4.76E-02	0.309	4.51E+04	7.8492	99.911	18.002	0.83	0.01	25.8179	0.00E+00
10/12/2019	8:38:56 AM	17.949	16.7604	35.3788	2.3604	4.76E-02	0.2127	4.51E+04	7.8051	99.798	18.01	-0.629	0.02	25.8675	0.00E+00
10/12/2019	8:38:56 AM	18.094	16.7497	35.3809	2.3734	4.76E-02	0.2064	4.51E+04	7.8212	99.98	18.139	-0.633	0.01	25.8723	0.00E+00
10/12/2019	8:38:10 AM	18.161	16.8022	35.3445	2.3505	4.76E-02	0.3043	4.51E+04	7.8356	99.709	18.256	0.849	0.08	25.8217	0.00E+00
10/12/2019	8:38:56 AM	18.243	16.7371	35.3808	2.3749	4.76E-02	0.2111	4.51E+04	7.8351	100.134	18.307	-0.636	0	25.8753	0.00E+00
10/12/2019	8:38:10 AM	18.387	16.7952	35.3461	2.349	4.76E-02	0.3043	4.51E+04	7.829	99.592	18.497	0.876	0.1	25.8251	0.00E+00
10/12/2019	8:38:56 AM	18.394	16.7237	35.3792	2.3703	4.76E-02	0.208	4.50E+04	7.8779	100.661	18.483	-0.635	0.01	25.8769	0.00E+00
10/12/2019	8:38:56 AM	18.546	16.7105	35.3759	2.3741	4.76E-02	0.2002	4.50E+04	7.8976	100.902	18.643	-0.639	0.02	25.8767	0.00E+00
10/12/2019	8:38:10 AM	18.613	16.7891	35.3482	2.3497	4.76E-02	0.3075	4.51E+04	7.8175	99.419	18.715	0.9	0.1	25.8286	0.00E+00
10/12/2019	8:38:55 AM	18.699	16.6986	35.3727	2.3749	4.76E-02	0.2608	4.50E+04	7.914	101.093	18.811	-0.643	0	25.8762	0.00E+00
10/12/2019	8:38:11 AM	18.839	16.7827	35.3499	2.349	4.76E-02	0.3121	4.51E+04	7.8047	99.238	18.966	0.926	0.11	25.8315	0.00E+00
10/12/2019	8:38:55 AM	18.851	16.6885	35.3709	2.3719	4.76E-02	0.2531	4.50E+04	7.952	101.566	18.942	-0.645	-0.01	25.8764	0.00E+00
10/12/2019	8:38:55 AM	19.004	16.6803	35.3697	2.3741	4.76E-02	0.2546	4.50E+04	7.9544	101.585	19.088	-0.641	-0.07	25.877	0.00E+00
10/12/2019	8:38:11 AM	19.064	16.7746	35.3491	2.2429	4.76E-02	0.4971	4.51E+04	7.7855	98.971	19.218	0.95	0.1	25.8324	0.00E+00
10/12/2019	8:38:54 AM	19.158	16.6733	35.3688	2.3749	4.76E-02	0.2562	4.50E+04	7.9895	102.02	19.257	-0.625	-0.13	25.8776	0.00E+00
10/12/2019	8:38:11 AM	19.285	16.7646	35.3457	2.2414	4.76E-02	0.5064	4.51E+04	7.7739	98.802	19.446	0.96	0.04	25.8313	0.00E+00
10/12/2019	8:38:54 AM	19.313	16.6671	35.3681	2.5244	4.76E-02	0.2546	4.50E+04	7.974	101.804	19.422	-0.593	-0.13	25.8783	0.00E+00
10/12/2019	8:38:54 AM	19.467	16.6615	35.3677	2.5275	4.76E-02	0.2593	4.50E+04	7.973	101.774	19.61	-0.56	-0.07	25.8791	0.00E+00
10/12/2019	8:38:11 AM	19.504	16.7539	35.3428	2.2467	4.76E-02	0.5064	4.51E+04	7.7559	98.541	19.636	0.947	-0.05	25.8309	0.00E+00
10/12/2019	8:38:54 AM	19.62	16.6562	35.3673	2.5267	4.76E-02	0.2577	4.50E+04	7.9551	101.526	19.754	-0.543	-0.04	25.88	0.00E+00
10/12/2019	8:38:11 AM	19.722	16.7435	35.3421	2.246	4.76E-02	0.4971	4.51E+04	7.7364	98.273	19.798	0.915	-0.13	25.8328	0.00E+00
10/12/2019	8:38:53 AM	19.77	16.6513	35.367	2.5275	4.76E-02	0.2531	4.50E+04	7.941	101.328	19.913	-0.532	-0.01	25.8808	0.00E+00
10/12/2019	8:38:53 AM	19.919	16.6466	35.367	2.5244	4.76E-02	0.2562	4.50E+04	7.925	101.112	20.075	-0.529	-0.01	25.8819	0.00E+00
10/12/2019	8:38:12 AM	19.942	16.7338	35.3431	2.2406	4.76E-02	0.3525	4.51E+04	7.7131	97.957	19.989	0.877	-0.15	25.836	0.00E+00
10/12/2019	8:38:53 AM	20.065	16.6421	35.367	2.4214	4.76E-02	0.2546	4.50E+04	7.9006	100.791	20.208	-0.526	0.02	25.8829	0.00E+00
10/12/2019	8:38:12 AM	20.165	16.7248	35.3447	2.4787	4.76E-02	0.3075	4.50E+04	7.6862	97.597	20.216	0.852	-0.1	25.8398	0.00E+00
10/12/2019	8:38:53 AM	20.209	16.6376	35.3667	2.4214	4.76E-02	0.2562	4.50E+04	7.8752	100.463	20.377	-0.531	0.1	25.8837	0.00E+00
10/12/2019	8:38:53 AM	20.35	16.6331	35.3669	2.4245	4.76E-02	0.2577	4.50E+04	7.8547	100.197	20.505	-0.557	0.1	25.8849	0.00E+00
10/12/2019	8:38:12 AM	20.392	16.7167	35.3463	2.481	4.76E-02	0.309	4.50E+04	7.6581	97.215	20.444	0.837	-0.06	25.8433	0.00E+00
10/12/2019	8:38:52 AM	20.489	16.6288	35.3679	2.4199	4.76E-02	0.2593	4.49E+04	7.8375	99.969	20.589	-0.583	0.05	25.8868	0.00E+00
10/12/2019	8:38:13 AM	20.623	16.7094	35.3481	2.4794	4.76E-02	0.3059	4.50E+04	7.6265	96.771	20.667	0.825	-0.05	25.8467	0.00E+00
10/12/2019	8:38:52 AM	20.629	16.6243	35.3694	2.4466	4.76E-02	0.2064	4.49E+04	7.8226	99.77	20.714	-0.595	0.02	25.8893	0.00E+00
10/12/2019	8:38:52 AM	20.77	16.6193	35.3706	2.4474	4.76E-02	0.208	4.49E+04	7.8145	99.647	20.858	-0.6	0.06	25.8917	0.00E+00
10/12/2019	8:38:13 AM	20.857	16.7027	35.3497	2.4794	4.76E-02	0.3075	4.50E+04	7.5982	96.353	20.913	0.832	0.03	25.8499	0.00E+00
10/12/2019	8:38:51 AM	20.913	16.6136	35.3712	2.4482	4.76E-02	0.2049	4.49E+04	7.809	99.553	21.013	-0.614	0.11	25.8937	0.00E+00
10/12/2019	8:38:51 AM	21.056	16.6074	35.3719	2.4474	4.76E-02	0.2049	4.49E+04	7.8035	99.45	21.16	-0.642	0.11	25.8959	0.00E+00
10/12/2019	8:38:13 AM	21.096	16.6963	35.3506	2.4916	4.76E-02	0.2826	4.50E+04	7.5685	95.915	21.176	0.863	0.12	25.8523	0.00E+00
10/12/2019	8:38:51 AM	21.201	16.6008	35.3722	2.2544	4.76E-02	0.2033	4.49E+04	7.7978	99.34	21.271	-0.669	0.05	25.8978	0.00E+00
10/12/2019	8:38:13 AM	21.337	16.6903	35.3514	2.4909	4.76E-02	0.2764	4.50E+04	7.5333	95.413	21.437	0.909	0.19	25.8545	0.00E+00
10/12/2019	8:38:51 AM	21.349	16.5939	35.3718	2.2559	4.76E-02	0.2064	4.49E+04	7.7889	99.202	21.434	-0.681	-0.02	25.899	0.00E+00
10/12/2019	8:38:51 AM	21.498	16.5869	35.3718	2.2551	4.76E-02	0.2033	4.49E+04	7.7853	99.127	21.605	-0.676	-0.07	25.9007	0.00E+00
10/12/2019	8:38:13 AM	21.579	16.6839	35.3519	2.4886	4.76E-02	0.2826	4.50E+04	7.4994	94.937	21.694	0.955	0.18	25.8564	0.00E+00
10/12/2019	8:38:50 AM	21.649	16.5801	35.373	2.2528	4.76E-02	0.2064	4.49E+04	7.777	99.007	21.754	-0.658	-0.11	25.9034	0.00E+00

10/12/2019	8:38:50 AM	21.8	16.5732	35.3749	2.5229	4.76E-02	0.1847	4.49E+04	7.7761	98.989	21.909	-0.631	-0.15	25.9069	0.00E+00
10/12/2019	8:38:14 AM	21.821	16.6765	35.3512	2.4878	4.76E-02	0.2779	4.50E+04	7.4642	94.445	21.942	0.983	0.11	25.8573	0.00E+00
10/12/2019	8:38:50 AM	21.953	16.5655	35.3761	2.5252	4.76E-02	0.1862	4.49E+04	7.769	98.886	22.057	-0.593	-0.19	25.9099	0.00E+00
10/12/2019	8:38:14 AM	22.064	16.6674	35.349	2.4901	4.76E-02	0.2608	4.50E+04	7.4221	93.863	22.193	0.998	0.06	25.8571	0.00E+00
10/12/2019	8:38:49 AM	22.106	16.5569	35.3757	2.5275	4.76E-02	0.18	4.49E+04	7.7626	98.796	22.245	-0.547	-0.16	25.9116	0.00E+00
10/12/2019	8:38:49 AM	22.258	16.5478	35.374	2.526	4.76E-02	0.18	4.49E+04	7.7572	98.716	22.449	-0.507	-0.07	25.9122	0.00E+00
10/12/2019	8:38:14 AM	22.306	16.6566	35.3459	2.4901	4.76E-02	0.2546	4.50E+04	7.3758	93.215	22.453	1.012	0.06	25.8565	0.00E+00
10/12/2019	8:38:49 AM	22.406	16.539	35.3717	2.5222	4.76E-02	0.1862	4.49E+04	7.7477	98.587	22.624	-0.491	-0.07	25.9119	0.00E+00
10/12/2019	8:38:14 AM	22.546	16.6442	35.3428	2.4886	4.76E-02	0.2577	4.50E+04	7.3305	92.546	22.705	1.021	0.03	25.8562	0.00E+00
10/12/2019	8:38:49 AM	22.548	16.5312	35.3695	2.2994	4.76E-02	0.1754	4.48E+04	7.7404	98.487	22.793	-0.474	-0.12	25.9115	0.00E+00
10/12/2019	8:38:49 AM	22.684	16.5247	35.3678	2.3009	4.76E-02	0.1754	4.48E+04	7.7266	98.301	22.903	-0.445	-0.21	25.9112	0.00E+00
10/12/2019	8:38:15 AM	22.785	16.6312	35.3402	2.4916	4.76E-02	0.2531	4.50E+04	7.2844	91.833	22.952	1.018	-0.01	25.8568	0.00E+00
10/12/2019	8:38:48 AM	22.814	16.5193	35.3661	2.304	4.76E-02	0.1831	4.48E+04	7.7126	98.117	23.013	-0.391	-0.24	25.9107	0.00E+00
10/12/2019	8:38:48 AM	22.939	16.5149	35.3651	2.2986	4.76E-02	0.1862	4.48E+04	7.702	97.973	23.144	-0.331	-0.17	25.9107	0.00E+00
10/12/2019	8:38:15 AM	23.022	16.6186	35.3396	2.5275	4.76E-02	0.2562	4.49E+04	7.2383	91.13	23.19	1.009	-0.04	25.8592	0.00E+00
10/12/2019	8:38:48 AM	23.059	16.5114	35.3655	2.4779	4.76E-02	0.1583	4.48E+04	7.6888	97.796	23.256	-0.287	-0.08	25.9119	0.00E+00
10/12/2019	8:38:48 AM	23.175	16.5083	35.3672	2.4794	4.76E-02	0.1536	4.48E+04	7.6733	97.593	23.376	-0.267	0.05	25.9142	0.00E+00
10/12/2019	8:38:15 AM	23.255	16.6065	35.3409	2.5252	4.76E-02	0.2562	4.49E+04	7.1836	90.344	23.426	0.998	-0.04	25.8632	0.00E+00
10/12/2019	8:38:47 AM	23.287	16.5049	35.3703	2.4726	4.76E-02	0.1583	4.48E+04	7.6573	97.384	23.494	-0.28	0.15	25.9181	0.00E+00
10/12/2019	8:38:47 AM	23.393	16.5004	35.3746	2.4771	4.76E-02	0.152	4.48E+04	7.6372	97.119	23.641	-0.316	0.24	25.9234	0.00E+00
10/12/2019	8:38:16 AM	23.487	16.594	35.3417	2.5275	4.76E-02	0.2624	4.49E+04	7.1367	89.682	23.651	0.985	-0.05	25.8669	0.00E+00
10/12/2019	8:38:47 AM	23.493	16.494	35.378	2.2528	4.76E-02	0.1583	4.48E+04	7.6202	96.89	23.719	-0.376	0.28	25.9284	0.00E+00
10/12/2019	8:38:46 AM	23.588	16.4853	35.3788	2.2551	4.76E-02	0.1552	4.48E+04	7.6027	96.653	23.734	-0.447	0.23	25.9315	0.00E+00
10/12/2019	8:38:46 AM	23.682	16.4751	35.379	2.2536	4.76E-02	0.1552	4.48E+04	7.5802	96.354	23.74	-0.505	0.16	25.9341	0.00E+00
10/12/2019	8:38:16 AM	23.716	16.581	35.341	2.5275	4.76E-02	0.2531	4.49E+04	7.0685	88.771	23.865	0.966	-0.07	25.8692	0.00E+00
10/12/2019	8:38:46 AM	23.781	16.4646	35.381	2.2528	4.76E-02	0.152	4.48E+04	7.5642	96.139	23.787	-0.545	0.1	25.9384	0.00E+00
10/12/2019	8:38:46 AM	23.886	16.4539	35.3841	1.9057	4.76E-02	0.152	4.48E+04	7.541	95.827	23.879	-0.57	0.07	25.9439	0.00E+00
10/12/2019	8:38:16 AM	23.945	16.5676	35.3399	2.5252	4.76E-02	0.2375	4.49E+04	7.003	87.895	24.079	0.943	-0.09	25.8712	0.00E+00
10/12/2019	8:38:46 AM	24	16.4421	35.3854	1.9019	4.76E-02	0.1583	4.48E+04	7.5338	95.73	24.009	-0.587	0.09	25.9481	0.00E+00
10/12/2019	8:38:45 AM	24.121	16.4289	35.3851	1.9057	4.76E-02	0.1598	4.47E+04	7.5205	95.549	24.173	-0.609	0.13	25.951	0.00E+00
10/12/2019	8:38:16 AM	24.173	16.554	35.3394	2.7449	4.76E-02	0.2033	4.49E+04	6.9351	87.004	24.288	0.917	-0.11	25.8739	0.00E+00
10/12/2019	8:38:45 AM	24.248	16.4152	35.3859	1.9034	4.76E-02	0.1536	4.47E+04	7.5112	95.416	24.313	-0.64	0.14	25.9549	0.00E+00
10/12/2019	8:38:45 AM	24.38	16.4017	35.389	1.9034	4.76E-02	0.1614	4.47E+04	7.5065	95.336	24.423	-0.674	0.07	25.961	0.00E+00
10/12/2019	8:38:16 AM	24.404	16.5397	35.3391	2.7449	4.76E-02	0.208	4.49E+04	6.857	85.991	24.484	0.889	-0.11	25.8769	0.00E+00
10/12/2019	8:38:44 AM	24.517	16.3876	35.3942	1.8675	4.76E-02	0.1536	4.47E+04	7.5112	95.371	24.563	-0.691	0.02	25.9694	0.00E+00
10/12/2019	8:38:17 AM	24.637	16.5235	35.3376	2.7434	4.76E-02	0.1971	4.48E+04	6.7721	84.9	24.714	0.872	-0.07	25.8789	0.00E+00
10/12/2019	8:38:44 AM	24.66	16.3716	35.3994	1.8675	4.76E-02	0.1536	4.47E+04	7.5111	95.353	24.706	-0.696	0	25.9782	0.00E+00
10/12/2019	8:38:44 AM	24.808	16.3529	35.404	1.8683	4.76E-02	0.1583	4.47E+04	7.5083	95.302	24.873	-0.697	0	25.9871	0.00E+00
10/12/2019	8:38:17 AM	24.873	16.5039	35.3337	2.7427	4.76E-02	0.208	4.48E+04	6.6931	83.884	24.967	0.871	-0.01	25.8792	0.00E+00
10/12/2019	8:38:44 AM	24.961	16.3319	35.4084	1.8683	4.76E-02	0.1567	4.47E+04	7.5059	95.261	25.041	-0.697	-0.02	25.9964	0.00E+00
10/12/2019	8:38:17 AM	25.113	16.4801	35.3271	2.6953	4.76E-02	0.2127	4.48E+04	6.6147	82.865	25.226	0.883	0.05	25.8779	0.00E+00
10/12/2019	8:38:44 AM	25.117	16.3087	35.4122	1.9286	4.76E-02	0.121	4.46E+04	7.4849	94.989	25.208	-0.691	-0.1	26.0057	0.00E+00
10/12/2019	8:38:43 AM	25.277	16.2834	35.4156	1.9286	4.76E-02	0.1256	4.46E+04	7.4956	95.117	25.398	-0.667	-0.09	26.015	0.00E+00
10/12/2019	8:38:18 AM	25.354	16.4529	35.3195	2.6953	4.76E-02	0.2049	4.48E+04	6.541	81.906	25.482	0.907	0.1	25.8766	0.00E+00
10/12/2019	8:38:43 AM	25.437	16.2561	35.4173	1.9271	4.76E-02	0.1303	4.46E+04	7.4893	95.036	25.577	-0.643	-0.08	26.0231	0.00E+00
10/12/2019	8:38:18 AM	25.596	16.424	35.3141	2.6953	4.76E-02	0.2064	4.47E+04	6.4891	81.131	25.729	0.935	0.11	25.8781	0.00E+00
10/12/2019	8:38:43 AM	25.598	16.2272	35.4183	1.9255	4.76E-02	0.135	4.46E+04	7.4759	94.866	25.76	-0.624	-0.08	26.0308	0.00E+00
10/12/2019	8:38:42 AM	25.758	16.1976	35.4188	1.7958	4.76E-02	0.1536	4.45E+04	7.469	94.776	25.923	-0.604	-0.07	26.0381	0.00E+00
10/12/2019	8:38:18 AM	25.839	16.3945	35.3125	2.6953	4.76E-02	0.2096	4.47E+04	6.4496	80.503	25.969	0.959	0.1	25.8832	0.00E+00
10/12/2019	8:38:42 AM	25.917	16.1677	35.4169	1.7966	4.76E-02	0.1567	4.45E+04	7.4574	94.625	26.077	-0.587	-0.1	26.0434	0.00E+00
10/12/2019	8:38:42 AM	26.075	16.1377	35.4144	1.7943	4.76E-02	0.1583	4.45E+04	7.4411	94.404	26.26	-0.563	-0.09	26.0479	0.00E+00

10/12/2019	8:38:18 AM	26.083	16.3641	35.3125	2.2078	4.76E-02	0.1552	4.47E+04	6.4102	79.886	26.206	0.978	0.08	25.8899	0.00E+00
10/12/2019	8:38:42 AM	26.23	16.1086	35.4121	1.7935	4.76E-02	0.152	4.44E+04	7.4205	94.118	26.438	-0.54	-0.01	26.0523	0.00E+00
10/12/2019	8:38:18 AM	26.328	16.3314	35.311	2.204	4.76E-02	0.1598	4.47E+04	6.3776	79.413	26.447	0.989	0.04	25.8957	0.00E+00
10/12/2019	8:38:42 AM	26.382	16.0806	35.4104	1.4418	4.76E-02	0.0899	4.44E+04	7.4028	93.867	26.598	-0.537	0.02	26.0569	0.00E+00
10/12/2019	8:38:41 AM	26.53	16.0538	35.4083	1.4433	4.76E-02	0.0914	4.44E+04	7.3841	93.614	26.709	-0.543	-0.01	26.0609	0.00E+00
10/12/2019	8:38:19 AM	26.574	16.2944	35.3065	2.2055	4.76E-02	0.1567	4.46E+04	6.3449	78.963	26.701	0.989	0	25.8993	0.00E+00
10/12/2019	8:38:41 AM	26.675	16.0281	35.4056	1.4441	4.76E-02	0.0945	4.44E+04	7.3646	93.353	26.849	-0.54	-0.02	26.0642	0.00E+00
10/12/2019	8:38:41 AM	26.819	16.0037	35.4031	1.4441	4.76E-02	0.0899	4.43E+04	7.33	92.891	27.006	-0.536	-0.01	26.0673	0.00E+00
10/12/2019	8:38:19 AM	26.822	16.2513	35.2982	2.2063	4.76E-02	0.1614	4.46E+04	6.3027	78.404	26.967	0.989	0	25.9005	0.00E+00
10/12/2019	8:38:41 AM	26.961	15.9805	35.3986	1.4433	4.76E-02	0.0992	4.43E+04	7.2988	92.467	27.129	-0.534	0	26.0683	0.00E+00
10/12/2019	8:38:19 AM	27.071	16.2016	35.2861	2.0499	4.76E-02	0.1583	4.45E+04	6.2406	77.603	27.232	0.993	0.02	25.8997	0.00E+00
10/12/2019	8:38:40 AM	27.101	15.9586	35.3932	1.4525	4.76E-02	0.1163	4.43E+04	7.2615	91.963	27.281	-0.534	0.06	26.0681	0.00E+00
10/12/2019	8:38:40 AM	27.24	15.9391	35.3907	1.4563	4.76E-02	0.1132	4.43E+04	7.2219	91.452	27.398	-0.55	0.06	26.0697	0.00E+00
10/12/2019	8:38:20 AM	27.318	16.1484	35.2734	2.0529	4.76E-02	0.166	4.45E+04	6.1699	76.706	27.487	1.001	0.03	25.9	0.00E+00
10/12/2019	8:38:40 AM	27.379	15.922	35.3899	1.4548	4.76E-02	0.1132	4.42E+04	7.1708	90.781	27.508	-0.566	0.03	26.0727	0.00E+00
10/12/2019	8:38:39 AM	27.519	15.9062	35.3897	1.4571	4.76E-02	0.1148	4.42E+04	7.1241	90.164	27.668	-0.574	0.05	26.076	0.00E+00
10/12/2019	8:38:20 AM	27.565	16.0968	35.2674	2.0499	4.76E-02	0.1583	4.44E+04	6.0977	75.799	27.738	1.011	0.04	25.9068	0.00E+00
10/12/2019	8:38:39 AM	27.659	15.8907	35.3898	0.9818	4.76E-02	0.1101	4.42E+04	7.0701	89.449	27.811	-0.586	0.07	26.0795	0.00E+00
10/12/2019	8:38:39 AM	27.8	15.8754	35.3904	0.981	4.76E-02	0.1163	4.42E+04	7.0174	88.736	27.946	-0.604	0.09	26.0837	0.00E+00
10/12/2019	8:38:20 AM	27.811	16.0506	35.2722	2.0514	4.76E-02	0.1583	4.44E+04	6.0204	74.831	27.968	1.014	0.01	25.9228	0.00E+00
10/12/2019	8:38:39 AM	27.941	15.8599	35.393	0.9833	4.76E-02	0.1179	4.42E+04	6.9727	88.141	28.072	-0.627	0.06	26.0898	0.00E+00
10/12/2019	8:38:20 AM	28.057	16.0105	35.2835	2.0491	4.76E-02	0.1614	4.43E+04	5.954	73.999	28.204	1.01	-0.01	25.9434	0.00E+00
10/12/2019	8:38:39 AM	28.084	15.8438	35.3966	0.9802	4.76E-02	0.1179	4.42E+04	6.9246	87.475	28.187	-0.642	-0.02	26.097	0.00E+00
10/12/2019	8:38:38 AM	28.23	15.826	35.3994	0.9017	4.76E-02	0.1194	4.41E+04	6.8808	86.878	28.342	-0.638	-0.07	26.104	0.00E+00
10/12/2019	8:38:20 AM	28.303	15.9758	35.2951	1.7996	4.76E-02	0.1396	4.43E+04	5.8945	73.254	28.451	1.002	-0.03	25.963	0.00E+00
10/12/2019	8:38:38 AM	28.378	15.8064	35.4019	0.9039	4.76E-02	0.121	4.41E+04	6.8409	86.318	28.513	-0.62	-0.05	26.1112	0.00E+00
10/12/2019	8:38:38 AM	28.528	15.7852	35.4055	0.9017	4.76E-02	0.1163	4.41E+04	6.7997	85.742	28.671	-0.609	-0.03	26.1196	0.00E+00
10/12/2019	8:38:21 AM	28.55	15.9452	35.3044	1.7966	4.76E-02	0.1334	4.43E+04	5.8527	72.73	28.71	0.994	-0.03	25.9794	0.00E+00
10/12/2019	8:38:37 AM	28.68	15.7624	35.4098	0.9009	4.76E-02	0.1163	4.41E+04	6.7612	85.217	28.826	-0.601	-0.02	26.1291	0.00E+00
10/12/2019	8:38:21 AM	28.797	15.9179	35.3116	1.7958	4.76E-02	0.1303	4.42E+04	5.8206	72.327	28.968	0.989	-0.02	25.9929	0.00E+00
10/12/2019	8:38:37 AM	28.832	15.7373	35.4122	0.9436	4.76E-02	0.1567	4.41E+04	6.7264	84.709	28.966	-0.597	0	26.1374	0.00E+00
10/12/2019	8:38:37 AM	28.986	15.71	35.4125	0.9459	4.76E-02	0.1583	4.40E+04	6.6907	84.221	29.14	-0.596	0.06	26.1441	0.00E+00
10/12/2019	8:38:21 AM	29.043	15.8925	35.3172	1.7966	4.76E-02	0.1318	4.42E+04	5.8198	72.314	29.218	0.988	-0.01	26.0042	0.00E+00
10/12/2019	8:38:37 AM	29.14	15.6815	35.4105	0.9459	4.76E-02	0.1629	4.40E+04	6.6574	83.75	29.317	-0.61	0.15	26.1489	0.00E+00
10/12/2019	8:38:21 AM	29.289	15.8668	35.32	1.1878	4.76E-02	0.1862	4.42E+04	5.8179	72.287	29.468	0.991	0.02	26.0126	0.00E+00
10/12/2019	8:38:37 AM	29.293	15.6529	35.4053	0.9444	4.76E-02	0.1567	4.40E+04	6.6327	83.401	29.477	-0.648	0.17	26.1505	0.00E+00
10/12/2019	8:38:36 AM	29.446	15.6254	35.3986	0.9436	4.76E-02	0.1567	4.39E+04	6.6065	83.035	29.61	-0.69	0.1	26.1504	0.00E+00
10/12/2019	8:38:22 AM	29.534	15.8381	35.3181	1.19	4.76E-02	0.1769	4.42E+04	5.8223	72.34	29.708	0.995	0.01	26.0169	0.00E+00
10/12/2019	8:38:36 AM	29.599	15.6002	35.3941	0.7582	4.76E-02	0.1567	4.39E+04	6.5821	82.682	29.721	-0.715	-0.03	26.1518	0.00E+00
10/12/2019	8:38:36 AM	29.754	15.5775	35.3925	0.759	4.76E-02	0.1583	4.39E+04	6.5626	82.402	29.875	-0.706	-0.07	26.1551	0.00E+00
10/12/2019	8:38:22 AM	29.778	15.8037	35.3108	1.1847	4.76E-02	0.1769	4.41E+04	5.8259	72.386	29.941	0.996	0.01	26.0172	0.00E+00
10/12/2019	8:38:35 AM	29.912	15.5564	35.3901	0.759	4.76E-02	0.1536	4.39E+04	6.5434	82.121	30.032	-0.688	-0.11	26.1576	0.00E+00
10/12/2019	8:38:22 AM	30.023	15.7602	35.2979	1.187	4.76E-02	0.1862	4.41E+04	5.836	72.513	30.192	0.995	-0.01	26.0138	0.00E+00
10/12/2019	8:38:35 AM	30.073	15.536	35.3862	0.7567	4.76E-02	0.1598	4.39E+04	6.5228	81.83	30.194	-0.661	-0.12	26.1584	0.00E+00
10/12/2019	8:38:35 AM	30.237	15.5169	35.381	0.6239	4.76E-02	0.1583	4.38E+04	6.4971	81.496	30.371	-0.631	-0.09	26.1576	0.00E+00
10/12/2019	8:38:23 AM	30.267	15.7071	35.2781	1.068	4.76E-02	0.2049	4.40E+04	5.8452	72.632	30.444	0.99	-0.02	26.0064	0.00E+00
10/12/2019	8:38:35 AM	30.402	15.5	35.3736	0.6247	4.76E-02	0.1567	4.38E+04	6.4693	81.124	30.562	-0.608	-0.06	26.1542	0.00E+00
10/12/2019	8:38:23 AM	30.51	15.6508	35.2579	1.0672	4.76E-02	0.2033	4.40E+04	5.8529	72.732	30.705	0.989	-0.01	26.0007	0.00E+00
10/12/2019	8:38:35 AM	30.568	15.4859	35.3665	0.627	4.76E-02	0.1567	4.38E+04	6.4274	80.574	30.787	-0.593	0.08	26.1503	0.00E+00
10/12/2019	8:38:34 AM	30.732	15.4754	35.3616	0.6232	4.76E-02	0.1567	4.38E+04	6.3876	80.056	30.97	-0.612	0.14	26.1476	0.00E+00
10/12/2019	8:38:23 AM	30.753	15.6007	35.2534	1.0687	4.76E-02	0.208	4.39E+04	5.8766	73.031	30.962	0.991	0.01	26.0093	0.00E+00

10/12/2019	8:38:34 AM	30.891	15.4684	35.3584	0.5766	4.76E-02	0.1303	4.38E+04	6.3428	79.472	31.111	-0.648	0.14	26.1459	0.00E+00
10/12/2019	8:38:23 AM	30.993	15.5609	35.2674	1.0703	4.76E-02	0.208	4.39E+04	5.8671	72.916	31.209	0.996	0.02	26.0328	0.00E+00
10/12/2019	8:38:34 AM	31.049	15.4637	35.3564	0.5804	4.76E-02	0.1365	4.38E+04	6.2927	78.822	31.223	-0.683	0.06	26.1449	0.00E+00
10/12/2019	8:38:34 AM	31.206	15.4605	35.355	0.5782	4.76E-02	0.135	4.38E+04	6.2448	78.197	31.37	-0.697	-0.01	26.1442	0.00E+00
10/12/2019	8:38:23 AM	31.23	15.5298	35.2866	0.746	4.76E-02	0.1598	4.38E+04	5.8686	72.938	31.442	0.997	0	26.059	0.00E+00
10/12/2019	8:38:33 AM	31.363	15.4582	35.3543	0.5782	4.76E-02	0.1318	4.38E+04	6.1973	77.567	31.514	-0.694	-0.04	26.1438	0.00E+00
10/12/2019	8:38:24 AM	31.465	15.5053	35.3016	0.7491	4.76E-02	0.1458	4.38E+04	5.8757	73.03	31.664	0.992	-0.02	26.0795	0.00E+00
10/12/2019	8:38:33 AM	31.522	15.4566	35.3539	0.5873	4.76E-02	0.1132	4.38E+04	6.15	76.947	31.67	-0.683	-0.08	26.1438	0.00E+00
10/12/2019	8:38:33 AM	31.683	15.4554	35.3536	0.5888	4.76E-02	0.1163	4.38E+04	6.0973	76.25	31.842	-0.663	-0.06	26.1437	0.00E+00
10/12/2019	8:38:24 AM	31.699	15.4865	35.3128	0.7445	4.76E-02	0.1614	4.38E+04	5.8804	73.092	31.901	0.984	-0.03	26.0951	0.00E+00
10/12/2019	8:38:32 AM	31.844	15.4544	35.3531	0.5888	4.76E-02	0.121	4.38E+04	6.0664	75.826	32.004	-0.647	-0.07	26.1435	0.00E+00
10/12/2019	8:38:24 AM	31.931	15.4727	35.323	0.746	4.76E-02	0.1567	4.38E+04	5.8845	73.146	32.154	0.975	-0.04	26.1085	0.00E+00
10/12/2019	8:38:32 AM	32.007	15.4536	35.3524	0.5881	4.76E-02	0.1132	4.38E+04	6.0252	75.261	32.212	-0.63	-0.04	26.143	0.00E+00
10/12/2019	8:38:25 AM	32.16	15.4626	35.3319	0.7437	4.76E-02	0.1536	4.38E+04	5.887	73.178	32.413	0.97	-0.02	26.1196	0.00E+00
10/12/2019	8:38:32 AM	32.167	15.453	35.3516	0.5888	4.76E-02	0.1132	4.38E+04	5.9959	74.846	32.401	-0.619	0	26.1422	0.00E+00
10/12/2019	8:38:32 AM	32.325	15.4529	35.3508	0.5774	4.76E-02	0.1194	4.38E+04	5.9699	74.477	32.577	-0.62	0.06	26.1415	0.00E+00
10/12/2019	8:38:25 AM	32.384	15.4551	35.3383	0.7567	4.76E-02	0.1567	4.38E+04	5.8927	73.249	32.679	0.973	0.01	26.1277	0.00E+00
10/12/2019	8:38:32 AM	32.479	15.4533	35.3505	0.5774	4.76E-02	0.1179	4.38E+04	5.9469	74.144	32.729	-0.635	0	26.141	0.00E+00
10/12/2019	8:38:25 AM	32.601	15.4493	35.3423	0.759	4.76E-02	0.1567	4.38E+04	5.8951	73.28	32.931	0.981	0.03	26.133	0.00E+00
10/12/2019	8:38:31 AM	32.628	15.454	35.3507	0.5782	4.76E-02	0.1132	4.38E+04	5.9343	73.949	32.857	-0.635	-0.18	26.141	0.00E+00
10/12/2019	8:38:31 AM	32.774	15.4549	35.3511	0.5782	4.76E-02	0.1256	4.38E+04	5.9267	73.828	33.017	-0.591	-0.28	26.1412	0.00E+00
10/12/2019	8:38:25 AM	32.809	15.4448	35.3449	0.7559	4.76E-02	0.1583	4.38E+04	5.9071	73.433	33.188	0.995	0.06	26.1367	0.00E+00
10/12/2019	8:38:31 AM	32.917	15.4556	35.3514	0.6102	4.76E-02	0.1614	4.38E+04	5.9226	73.752	33.165	-0.52	-0.35	26.1414	0.00E+00
10/12/2019	8:38:25 AM	33.004	15.4412	35.3468	0.7559	4.76E-02	0.1536	4.38E+04	5.9097	73.464	33.439	1.009	0.06	26.1395	0.00E+00
10/12/2019	8:38:30 AM	33.055	15.4562	35.352	0.611	4.76E-02	0.1567	4.38E+04	5.9243	73.74	33.338	-0.432	-0.37	26.1419	0.00E+00
10/12/2019	8:38:26 AM	33.184	15.4384	35.3484	0.5866	4.76E-02	0.1163	4.38E+04	5.9075	73.436	33.692	1.021	0.05	26.1417	0.00E+00
10/12/2019	8:38:30 AM	33.187	15.4566	35.353	0.6133	4.76E-02	0.1536	4.38E+04	5.925	73.714	33.507	-0.34	-0.37	26.1427	0.00E+00
10/12/2019	8:38:30 AM	33.311	15.4566	35.3537	0.6148	4.76E-02	0.1567	4.38E+04	5.9256	73.701	33.645	-0.247	-0.37	26.1434	0.00E+00
10/12/2019	8:38:26 AM	33.343	15.4363	35.3497	0.5927	4.76E-02	0.1148	4.38E+04	5.9042	73.394	33.955	1.026	0.02	26.1435	0.00E+00
10/12/2019	8:38:30 AM	33.426	15.4561	35.3539	0.6476	4.76E-02	0.2049	4.38E+04	5.9343	73.781	33.81	-0.155	-0.29	26.1438	0.00E+00
10/12/2019	8:38:26 AM	33.477	15.435	35.351	0.5896	4.76E-02	0.1179	4.38E+04	5.9036	73.385	34.14	1.007	-0.08	26.1452	0.00E+00
10/12/2019	8:38:30 AM	33.527	15.4554	35.3544	0.6499	4.76E-02	0.2033	4.38E+04	5.9341	73.772	33.995	-0.081	-0.15	26.1444	0.00E+00
10/12/2019	8:38:27 AM	33.583	15.4347	35.3525	0.5888	4.76E-02	0.1179	4.38E+04	5.9046	73.395	34.187	0.936	-0.29	26.1468	0.00E+00
10/12/2019	8:38:29 AM	33.613	15.4546	35.3555	0.6499	4.76E-02	0.2018	4.38E+04	5.9311	73.731	34.104	-0.043	-0.06	26.1456	0.00E+00
10/12/2019	8:38:27 AM	33.663	15.4353	35.354	0.5911	4.76E-02	0.2002	4.38E+04	5.9046	73.393	34.188	0.815	-0.48	26.1483	0.00E+00
10/12/2019	8:38:29 AM	33.68	15.4535	35.3563	0.6499	4.76E-02	0.2096	4.38E+04	5.9293	73.707	34.124	-0.029	-0.05	26.1467	0.00E+00
10/12/2019	8:38:27 AM	33.722	15.4367	35.3556	0.5911	4.76E-02	0.2018	4.38E+04	5.9096	73.453	34.188	0.665	-0.6	26.1496	0.00E+00
10/12/2019	8:38:29 AM	33.732	15.4518	35.3566	0.6232	4.76E-02	0.2966	4.38E+04	5.9262	73.667	34.14	-0.016	-0.05	26.1474	0.00E+00
10/12/2019	8:38:27 AM	33.763	15.4387	35.3568	0.5858	4.76E-02	0.2096	4.38E+04	5.9126	73.49	34.188	0.498	-0.67	26.1504	0.00E+00
10/12/2019	8:38:28 AM	33.769	15.4499	35.3569	0.6255	4.76E-02	0.3043	4.38E+04	5.9233	73.629	34.173	-0.004	-0.07	26.1481	0.00E+00
10/12/2019	8:38:28 AM	33.79	15.441	35.3576	0.5873	4.76E-02	0.2096	4.38E+04	5.9129	73.495	34.189	0.334	-0.66	26.1506	0.00E+00
10/12/2019	8:38:28 AM	33.793	15.4478	35.3574	0.6224	4.76E-02	0.309	4.38E+04	5.9202	73.59	34.188	0.014	-0.24	26.149	0.00E+00
10/12/2019	8:38:28 AM	33.803	15.4433	35.3578	0.627	4.76E-02	0.3043	4.38E+04	5.9141	73.512	34.189	0.186	-0.59	26.1504	0.00E+00
10/12/2019	8:38:28 AM	33.804	15.4456	35.3577	0.6232	4.76E-02	0.3043	4.38E+04	5.9189	73.573	34.19	0.073	-0.45	26.1498	0.00E+00

TRANSECT 1 - 1,750 m

DD MMM YYYY HH:MM:SS	DD MMM YYYY HH:MM:SS	DepSM	Tv290C	Sal00	FlECO-AFL	Par	TurbWETntu0	C0uS/cm	Sbeox0Mg/L	Sbeox0PS	PrdM	Dz/dtM	AccM	Sigma-t00	Flag
10/12/2019	8:40:55 AM	0.662	18.0968	35.3163	0.598	4.76E-02	2.7551	4.64E+04	7.5357	98.542	0.625	0.172	0.27	25.4911	0.00E+00
10/12/2019	8:40:55 AM	0.74	18.0979	35.3155	0.1929	4.76E-02	0.1847	4.64E+04	7.6999	100.689	0.74	0.254	0.33	25.4901	0.00E+00
10/12/2019	8:40:56 AM	0.819	18.0989	35.315	0.1898	4.76E-02	0.1738	4.64E+04	7.8474	102.616	0.806	0.323	0.28	25.4894	0.00E+00
10/12/2019	8:40:56 AM	0.901	18.0997	35.3151	0.1875	4.76E-02	0.1769	4.64E+04	7.9611	104.097	0.824	0.35	0.11	25.4892	0.00E+00
10/12/2019	8:42:20 AM	0.924	18.0881	35.3192	0.2402	4.76E-02	0.1769	4.64E+04	7.5229	98.323	0.781	-0.708	0.17	25.4957	0.00E+00
10/12/2019	8:40:56 AM	0.987	18.1004	35.3152	0.1913	4.76E-02	0.1862	4.64E+04	8.0323	105.026	0.852	0.339	-0.04	25.489	0.00E+00
10/12/2019	8:42:20 AM	1.029	18.0861	35.3186	0.2623	4.76E-02	0.2096	4.64E+04	7.5837	99.119	0.859	-0.75	-0.03	25.4957	0.00E+00
10/12/2019	8:40:56 AM	1.081	18.1009	35.315	0.2051	4.76E-02	0.1318	4.64E+04	8.0552	105.317	0.925	0.316	-0.09	25.4887	0.00E+00
10/12/2019	8:42:20 AM	1.144	18.0843	35.3182	0.2638	4.76E-02	0.2018	4.64E+04	7.6347	99.791	0.981	-0.743	-0.3	25.4957	0.00E+00
10/12/2019	8:40:57 AM	1.185	18.1012	35.3148	0.2005	4.76E-02	0.1287	4.64E+04	8.0599	105.366	1.028	0.295	-0.08	25.4884	0.00E+00
10/12/2019	8:42:20 AM	1.269	18.0828	35.3178	0.2646	4.76E-02	0.2049	4.64E+04	7.6748	100.32	1.17	-0.668	-0.45	25.4956	0.00E+00
10/12/2019	8:40:57 AM	1.299	18.1013	35.315	0.202	4.76E-02	0.135	4.64E+04	8.0312	104.975	1.152	0.284	-0.05	25.4884	0.00E+00
10/12/2019	8:42:20 AM	1.401	18.0815	35.3173	0.2631	4.76E-02	0.2142	4.64E+04	7.7178	100.883	1.327	-0.556	-0.54	25.4954	0.00E+00
10/12/2019	8:40:57 AM	1.422	18.1013	35.3152	0.2043	4.76E-02	0.1365	4.64E+04	8.0157	104.75	1.294	0.297	0.05	25.4885	0.00E+00
10/12/2019	8:42:19 AM	1.538	18.0805	35.3165	0.2623	4.76E-02	0.2096	4.63E+04	7.7612	101.456	1.516	-0.42	-0.54	25.4949	0.00E+00
10/12/2019	8:40:58 AM	1.554	18.101	35.3154	0.215	4.76E-02	0.1505	4.64E+04	8.0025	104.552	1.452	0.343	0.18	25.4886	0.00E+00
10/12/2019	8:42:19 AM	1.677	18.0797	35.3157	0.2631	4.76E-02	0.2282	4.63E+04	7.8091	102.093	1.719	-0.286	-0.44	25.4943	0.00E+00
10/12/2019	8:40:58 AM	1.693	18.1003	35.3155	0.2142	4.76E-02	0.1583	4.64E+04	7.9975	104.463	1.607	0.413	0.28	25.4887	0.00E+00
10/12/2019	8:42:19 AM	1.813	18.0793	35.3154	0.2623	4.76E-02	0.2344	4.63E+04	7.8603	102.768	1.954	-0.175	-0.23	25.494	0.00E+00
10/12/2019	8:40:58 AM	1.838	18.0993	35.3156	0.2158	4.76E-02	0.1614	4.64E+04	7.9965	104.434	1.724	0.479	0.26	25.4888	0.00E+00
10/12/2019	8:42:18 AM	1.941	18.0793	35.3155	0.26	4.76E-02	0.2313	4.63E+04	7.9052	103.365	2.157	-0.118	0.03	25.4941	0.00E+00
10/12/2019	8:40:58 AM	1.992	18.0981	35.3157	0.2173	4.76E-02	0.1567	4.64E+04	7.9924	104.366	1.81	0.512	0.13	25.489	0.00E+00
10/12/2019	8:42:18 AM	2.057	18.0794	35.316	0.2608	4.76E-02	0.2344	4.63E+04	7.9256	103.64	2.301	-0.124	0.28	25.4946	0.00E+00
10/12/2019	8:40:58 AM	2.158	18.0969	35.3158	0.2119	4.76E-02	0.2251	4.64E+04	7.9895	104.315	1.897	0.513	0	25.4893	0.00E+00
10/12/2019	8:42:18 AM	2.159	18.0794	35.3167	0.276	4.76E-02	0.2096	4.63E+04	7.938	103.802	2.393	-0.194	0.47	25.4952	0.00E+00
10/12/2019	8:42:18 AM	2.249	18.0791	35.3173	0.2737	4.76E-02	0.208	4.63E+04	7.9342	103.758	2.373	-0.311	0.43	25.4959	0.00E+00
10/12/2019	8:42:18 AM	2.333	18.0785	35.3178	0.2737	4.76E-02	0.2111	4.63E+04	7.9261	103.655	2.346	-0.419	0.36	25.4966	0.00E+00
10/12/2019	8:40:59 AM	2.341	18.0959	35.316	0.2165	4.76E-02	0.2329	4.64E+04	7.9842	104.235	2.048	0.508	-0.02	25.4898	0.00E+00
10/12/2019	8:42:17 AM	2.415	18.0776	35.3183	0.2753	4.76E-02	0.2096	4.63E+04	7.9234	103.618	2.352	-0.51	0.29	25.4973	0.00E+00
10/12/2019	8:42:17 AM	2.502	18.0764	35.3186	0.276	4.76E-02	0.2329	4.63E+04	7.9194	103.561	2.38	-0.584	0.2	25.498	0.00E+00
10/12/2019	8:40:59 AM	2.541	18.095	35.3164	0.2142	4.76E-02	0.236	4.64E+04	7.9848	104.223	2.278	0.524	0.06	25.4904	0.00E+00
10/12/2019	8:42:17 AM	2.598	18.0749	35.3187	0.2753	4.76E-02	0.2329	4.63E+04	7.9181	103.54	2.431	-0.634	0.15	25.4986	0.00E+00
10/12/2019	8:42:17 AM	2.704	18.0732	35.3187	0.2737	4.76E-02	0.2313	4.63E+04	7.918	103.536	2.512	-0.672	0.06	25.499	0.00E+00
10/12/2019	8:40:59 AM	2.758	18.0943	35.3167	0.215	4.76E-02	0.2282	4.64E+04	7.9846	104.19	2.531	0.566	0.17	25.4909	0.00E+00
10/12/2019	8:42:16 AM	2.822	18.0714	35.3186	0.2753	4.76E-02	0.2298	4.63E+04	7.9193	103.549	2.641	-0.687	-0.01	25.4993	0.00E+00
10/12/2019	8:42:16 AM	2.953	18.0696	35.3186	0.2982	4.76E-02	0.2562	4.63E+04	7.9166	103.51	2.819	-0.685	0.05	25.4998	0.00E+00
10/12/2019	8:41:00 AM	2.99	18.094	35.3172	0.2142	4.76E-02	0.236	4.64E+04	7.9874	104.196	2.795	0.633	0.27	25.4915	0.00E+00
10/12/2019	8:42:16 AM	3.093	18.0679	35.3186	0.2974	4.76E-02	0.2546	4.63E+04	7.9134	103.461	3.008	-0.697	0.08	25.5002	0.00E+00
10/12/2019	8:41:00 AM	3.236	18.0939	35.3178	0.2386	4.76E-02	0.2313	4.64E+04	7.9874	104.174	3.077	0.728	0.38	25.4921	0.00E+00
10/12/2019	8:42:15 AM	3.239	18.0661	35.3185	0.3004	4.76E-02	0.2531	4.63E+04	7.9078	103.384	3.154	-0.718	0.07	25.5005	0.00E+00
10/12/2019	8:42:15 AM	3.392	18.0644	35.3181	0.3004	4.76E-02	0.2624	4.63E+04	7.9085	103.39	3.319	-0.735	0.06	25.5006	0.00E+00
10/12/2019	8:41:00 AM	3.492	18.0934	35.3181	0.2409	4.76E-02	0.2313	4.64E+04	7.9789	104.051	3.362	0.842	0.46	25.4924	0.00E+00
10/12/2019	8:42:15 AM	3.551	18.0627	35.3177	0.2974	4.76E-02	0.2624	4.63E+04	7.9079	103.38	3.49	-0.751	0.01	25.5006	0.00E+00
10/12/2019	8:42:15 AM	3.715	18.0613	35.3179	0.3371	4.76E-02	0.2795	4.63E+04	7.9134	103.449	3.653	-0.753	0	25.5011	0.00E+00
10/12/2019	8:41:00 AM	3.758	18.0923	35.3175	0.2356	4.76E-02	0.2282	4.64E+04	7.9701	103.927	3.652	0.956	0.46	25.492	0.00E+00
10/12/2019	8:42:15 AM	3.883	18.0599	35.3186	0.3363	4.76E-02	0.2873	4.63E+04	7.92	103.532	3.861	-0.753	0.05	25.5022	0.00E+00
10/12/2019	8:41:00 AM	4.032	18.0903	35.3162	0.2379	4.76E-02	0.2375	4.64E+04	7.961	103.801	3.953	1.05	0.38	25.4912	0.00E+00
10/12/2019	8:42:14 AM	4.055	18.0584	35.3193	0.3355	4.76E-02	0.281	4.63E+04	7.924	103.583	4.028	-0.765	0.04	25.5033	0.00E+00
10/12/2019	8:42:14 AM	4.229	18.0565	35.3198	0.334	4.76E-02	0.2779	4.63E+04	7.9319	103.687	4.184	-0.774	-0.05	25.5043	0.00E+00
10/12/2019	8:41:01 AM	4.312	18.0875	35.3148	0.2409	4.76E-02	0.208	4.64E+04	7.9543	103.709	4.257	1.111	0.25	25.4904	0.00E+00

10/12/2019	8:42:14 AM	4.408	18.0541	35.3204	0.3844	4.76E-02	0.2064	4.63E+04	7.9371	103.757	4.403	-0.763	-0.08	25.5054	0.00E+00
10/12/2019	8:42:13 AM	4.588	18.0516	35.3212	0.3828	4.76E-02	0.208	4.63E+04	7.9422	103.825	4.591	-0.742	-0.08	25.5068	0.00E+00
10/12/2019	8:41:01 AM	4.597	18.0835	35.3134	0.2386	4.76E-02	0.2049	4.64E+04	7.9381	103.494	4.56	1.146	0.14	25.4898	0.00E+00
10/12/2019	8:42:13 AM	4.77	18.0488	35.3224	0.3828	4.76E-02	0.2049	4.63E+04	7.9431	103.837	4.793	-0.72	-0.04	25.5087	0.00E+00
10/12/2019	8:41:01 AM	4.886	18.0782	35.3117	0.2386	4.76E-02	0.208	4.64E+04	7.9165	103.208	4.866	1.172	0.1	25.4892	0.00E+00
10/12/2019	8:42:13 AM	4.952	18.0456	35.3239	0.3836	4.76E-02	0.2033	4.63E+04	7.9391	103.785	4.992	-0.711	0.01	25.511	0.00E+00
10/12/2019	8:42:13 AM	5.134	18.0419	35.3253	0.4202	4.76E-02	0.1163	4.63E+04	7.9342	103.719	5.146	-0.712	0	25.5132	0.00E+00
10/12/2019	8:41:02 AM	5.178	18.0712	35.3094	0.2425	4.76E-02	0.2033	4.63E+04	7.9023	103.016	5.184	1.195	0.09	25.4884	0.00E+00
10/12/2019	8:42:13 AM	5.316	18.0375	35.3265	0.4172	4.76E-02	0.1241	4.63E+04	7.9333	103.706	5.344	-0.712	-0.01	25.5155	0.00E+00
10/12/2019	8:41:02 AM	5.472	18.0628	35.3069	0.2631	4.76E-02	0.25	4.63E+04	7.8864	102.791	5.499	1.213	0.07	25.4878	0.00E+00
10/12/2019	8:42:12 AM	5.498	18.0326	35.3278	0.4195	4.76E-02	0.1148	4.63E+04	7.9289	103.645	5.558	-0.71	0.06	25.5179	0.00E+00
10/12/2019	8:42:12 AM	5.679	18.0273	35.3286	0.4164	4.76E-02	0.1163	4.63E+04	7.9251	103.591	5.757	-0.724	0.08	25.5199	0.00E+00
10/12/2019	8:41:02 AM	5.765	18.0532	35.3048	0.2623	4.76E-02	0.2562	4.63E+04	7.871	102.57	5.82	1.229	0.07	25.4879	0.00E+00
10/12/2019	8:42:12 AM	5.857	18.0215	35.3289	0.5507	4.76E-02	0.1303	4.63E+04	7.9231	103.561	5.918	-0.744	0.02	25.5215	0.00E+00
10/12/2019	8:42:11 AM	6.034	18.0156	35.329	0.5507	4.76E-02	0.135	4.63E+04	7.9209	103.528	6.042	-0.749	-0.06	25.523	0.00E+00
10/12/2019	8:41:02 AM	6.058	18.043	35.3036	0.2646	4.76E-02	0.2531	4.63E+04	7.8512	102.296	6.14	1.244	0.06	25.4891	0.00E+00
10/12/2019	8:42:11 AM	6.212	18.0099	35.3294	0.556	4.76E-02	0.1272	4.63E+04	7.9161	103.462	6.216	-0.734	-0.11	25.5246	0.00E+00
10/12/2019	8:41:02 AM	6.347	18.0332	35.3039	0.2638	4.76E-02	0.2515	4.63E+04	7.8363	102.088	6.444	1.251	0.03	25.4917	0.00E+00
10/12/2019	8:42:11 AM	6.391	18.0045	35.3299	0.5515	4.76E-02	0.1365	4.63E+04	7.9237	103.558	6.414	-0.708	-0.08	25.5264	0.00E+00
10/12/2019	8:42:11 AM	6.571	17.9991	35.3306	0.5515	4.76E-02	0.1318	4.63E+04	7.9293	103.627	6.613	-0.688	-0.03	25.5282	0.00E+00
10/12/2019	8:41:03 AM	6.633	18.0241	35.3057	0.3333	4.76E-02	0.2033	4.63E+04	7.8166	101.823	6.712	1.244	-0.03	25.4956	0.00E+00
10/12/2019	8:42:11 AM	6.751	17.9938	35.3312	0.5644	4.76E-02	0.1754	4.63E+04	7.9387	103.747	6.818	-0.68	-0.01	25.53	0.00E+00
10/12/2019	8:41:03 AM	6.916	18.0154	35.3079	0.3371	4.76E-02	0.208	4.63E+04	7.7976	101.571	6.975	1.224	-0.08	25.4997	0.00E+00
10/12/2019	8:42:10 AM	6.929	17.9884	35.3313	0.5652	4.76E-02	0.1847	4.63E+04	7.9445	103.818	6.985	-0.678	-0.02	25.5313	0.00E+00
10/12/2019	8:42:10 AM	7.106	17.983	35.3314	0.5629	4.76E-02	0.1831	4.63E+04	7.9479	103.861	7.186	-0.674	-0.01	25.5326	0.00E+00
10/12/2019	8:41:03 AM	7.197	18.0066	35.3094	0.3355	4.76E-02	0.2096	4.63E+04	7.7805	101.344	7.27	1.203	-0.09	25.5031	0.00E+00
10/12/2019	8:42:10 AM	7.281	17.9779	35.3324	0.5644	4.76E-02	0.1831	4.63E+04	7.953	103.928	7.364	-0.673	0	25.5348	0.00E+00
10/12/2019	8:42:10 AM	7.453	17.9729	35.3345	0.6728	4.76E-02	0.3401	4.63E+04	7.9561	103.966	7.513	-0.672	0	25.538	0.00E+00
10/12/2019	8:41:03 AM	7.476	17.9971	35.3102	0.3355	4.76E-02	0.2049	4.63E+04	7.7686	101.188	7.575	1.184	-0.08	25.5059	0.00E+00
10/12/2019	8:42:09 AM	7.624	17.9675	35.3372	0.6705	4.76E-02	0.3354	4.62E+04	7.9642	104.068	7.679	-0.671	-0.02	25.5419	0.00E+00
10/12/2019	8:41:04 AM	7.752	17.9863	35.31	0.3333	4.76E-02	0.4566	4.63E+04	7.7736	101.252	7.878	1.172	-0.05	25.5079	0.00E+00
10/12/2019	8:42:09 AM	7.794	17.9611	35.339	0.672	4.76E-02	0.3261	4.62E+04	7.9629	104.043	7.828	-0.667	-0.02	25.5454	0.00E+00
10/12/2019	8:42:09 AM	7.964	17.9534	35.3397	0.6728	4.76E-02	0.3292	4.62E+04	7.969	104.12	8.009	-0.66	0	25.5479	0.00E+00
10/12/2019	8:41:04 AM	8.023	17.9749	35.3092	0.4599	4.76E-02	0.4566	4.63E+04	7.7801	101.336	8.167	1.162	-0.04	25.5096	0.00E+00
10/12/2019	8:42:08 AM	8.135	17.9451	35.3398	0.791	4.76E-02	0.5328	4.62E+04	7.9739	104.179	8.202	-0.659	0.03	25.55	0.00E+00
10/12/2019	8:41:04 AM	8.288	17.9642	35.3095	0.4607	4.76E-02	0.452	4.63E+04	7.7936	101.507	8.405	1.144	-0.07	25.5125	0.00E+00
10/12/2019	8:42:08 AM	8.304	17.9368	35.3388	0.7895	4.76E-02	0.5297	4.62E+04	7.9787	104.235	8.366	-0.666	0.05	25.5509	0.00E+00
10/12/2019	8:42:08 AM	8.472	17.9289	35.3372	0.7956	4.76E-02	0.5328	4.62E+04	7.9821	104.273	8.536	-0.679	0.05	25.551	0.00E+00
10/12/2019	8:41:05 AM	8.549	17.9552	35.3123	0.4553	4.76E-02	0.4473	4.62E+04	7.8041	101.637	8.606	1.114	-0.12	25.5175	0.00E+00
10/12/2019	8:42:08 AM	8.64	17.922	35.336	0.7941	4.76E-02	0.525	4.62E+04	7.9812	104.251	8.682	-0.691	0	25.5513	0.00E+00
10/12/2019	8:42:08 AM	8.807	17.9164	35.3351	0.8536	4.76E-02	0.4784	4.62E+04	7.9773	104.19	8.837	-0.691	-0.03	25.5515	0.00E+00
10/12/2019	8:41:05 AM	8.809	17.948	35.3167	0.4584	4.76E-02	0.4582	4.62E+04	7.8234	101.882	8.812	1.077	-0.15	25.5235	0.00E+00
10/12/2019	8:42:07 AM	8.976	17.9117	35.3347	0.8498	4.76E-02	0.4769	4.62E+04	7.9745	104.142	9.017	-0.685	-0.03	25.5521	0.00E+00
10/12/2019	8:41:05 AM	9.072	17.9422	35.3207	0.6148	4.76E-02	0.5002	4.62E+04	7.8351	102.029	9.069	1.039	-0.15	25.5288	0.00E+00
10/12/2019	8:42:07 AM	9.145	17.9078	35.335	0.8543	4.76E-02	0.48	4.62E+04	7.9714	104.087	9.174	-0.677	0.01	25.5532	0.00E+00
10/12/2019	8:42:07 AM	9.316	17.9042	35.3358	0.8559	4.76E-02	0.4815	4.62E+04	7.9659	104.004	9.355	-0.679	0.07	25.5548	0.00E+00
10/12/2019	8:41:05 AM	9.338	17.9374	35.3238	0.6125	4.76E-02	0.5048	4.62E+04	7.8459	102.164	9.347	1.006	-0.13	25.533	0.00E+00
10/12/2019	8:42:06 AM	9.487	17.9005	35.3364	0.8521	4.76E-02	0.4831	4.62E+04	7.9653	103.986	9.529	-0.696	0.09	25.5563	0.00E+00
10/12/2019	8:41:05 AM	9.606	17.9331	35.3261	0.6125	4.76E-02	0.5064	4.62E+04	7.8527	102.246	9.625	0.988	-0.07	25.5361	0.00E+00
10/12/2019	8:42:06 AM	9.659	17.8965	35.3367	0.9017	4.76E-02	0.4007	4.62E+04	7.9593	103.898	9.697	-0.719	0.07	25.5575	0.00E+00
10/12/2019	8:42:06 AM	9.832	17.8924	35.3369	0.9032	4.76E-02	0.4054	4.62E+04	7.9592	103.887	9.89	-0.736	0.04	25.5587	0.00E+00

10/12/2019	8:41:06 AM	9.877	17.9287	35.3276	0.6133	4.76E-02	0.511	4.62E+04	7.8503	102.204	9.899	0.987	0	25.5384	0.00E+00
10/12/2019	8:42:06 AM	10.005	17.8883	35.3375	0.9001	4.76E-02	0.4116	4.62E+04	7.9555	103.828	10.056	-0.748	0.02	25.5602	0.00E+00
10/12/2019	8:41:06 AM	10.15	17.9238	35.3281	0.746	4.76E-02	0.4753	4.62E+04	7.8475	102.154	10.168	1.004	0.07	25.5399	0.00E+00
10/12/2019	8:42:06 AM	10.178	17.8842	35.3381	0.9001	4.76E-02	0.4069	4.62E+04	7.9509	103.758	10.208	-0.753	0	25.5618	0.00E+00
10/12/2019	8:42:05 AM	10.353	17.8799	35.3384	1.0077	4.76E-02	0.2764	4.62E+04	7.9505	103.741	10.369	-0.752	0	25.563	0.00E+00
10/12/2019	8:41:06 AM	10.425	17.9178	35.3278	0.7445	4.76E-02	0.4815	4.62E+04	7.8422	102.03	10.444	1.038	0.14	25.5407	0.00E+00
10/12/2019	8:42:05 AM	10.531	17.8756	35.3388	1.0054	4.76E-02	0.2857	4.62E+04	7.9467	103.683	10.524	-0.752	-0.04	25.5645	0.00E+00
10/12/2019	8:41:07 AM	10.703	17.9108	35.3268	0.7468	4.76E-02	0.4846	4.62E+04	7.837	101.866	10.706	1.07	0.13	25.5412	0.00E+00
10/12/2019	8:42:05 AM	10.711	17.8712	35.3397	1.0031	4.76E-02	0.2764	4.62E+04	7.945	103.659	10.741	-0.742	-0.01	25.5664	0.00E+00
10/12/2019	8:42:04 AM	10.894	17.8667	35.3406	1.0069	4.76E-02	0.2764	4.62E+04	7.9441	103.636	10.961	-0.739	-0.01	25.5684	0.00E+00
10/12/2019	8:41:07 AM	10.984	17.9037	35.3262	0.7475	4.76E-02	0.48	4.62E+04	7.8332	101.717	10.989	1.09	0.08	25.5422	0.00E+00
10/12/2019	8:42:04 AM	11.076	17.8617	35.3413	1.0664	4.76E-02	0.3106	4.62E+04	7.9456	103.643	11.167	-0.737	-0.02	25.5704	0.00E+00
10/12/2019	8:42:04 AM	11.257	17.8563	35.3423	1.0642	4.76E-02	0.3059	4.61E+04	7.9493	103.673	11.349	-0.733	-0.06	25.5726	0.00E+00
10/12/2019	8:41:07 AM	11.268	17.8971	35.3269	0.8421	4.76E-02	0.4318	4.62E+04	7.8373	101.645	11.289	1.101	0.04	25.5445	0.00E+00
10/12/2019	8:42:04 AM	11.437	17.8506	35.3439	1.0672	4.76E-02	0.3075	4.61E+04	7.9504	103.662	11.495	-0.718	-0.1	25.5755	0.00E+00
10/12/2019	8:41:07 AM	11.555	17.8917	35.329	0.8383	4.76E-02	0.4302	4.62E+04	7.8398	101.554	11.584	1.111	0.04	25.5478	0.00E+00
10/12/2019	8:42:04 AM	11.616	17.8444	35.3456	1.0657	4.76E-02	0.3059	4.61E+04	7.9548	103.706	11.669	-0.694	-0.09	25.5788	0.00E+00
10/12/2019	8:42:03 AM	11.796	17.8374	35.3473	1.0527	4.76E-02	0.2608	4.61E+04	7.9545	103.68	11.856	-0.671	-0.04	25.5823	0.00E+00
10/12/2019	8:41:07 AM	11.843	17.8874	35.3315	0.8444	4.76E-02	0.4302	4.62E+04	7.8432	101.469	11.891	1.127	0.07	25.5514	0.00E+00
10/12/2019	8:42:03 AM	11.976	17.8294	35.3485	1.055	4.76E-02	0.2531	4.61E+04	7.9538	103.659	12.071	-0.661	0	25.5856	0.00E+00
10/12/2019	8:41:08 AM	12.133	17.8841	35.334	0.8437	4.76E-02	0.4271	4.62E+04	7.8496	101.401	12.198	1.149	0.09	25.5546	0.00E+00
10/12/2019	8:42:03 AM	12.154	17.8205	35.3492	1.055	4.76E-02	0.2515	4.61E+04	7.9465	103.56	12.268	-0.66	0	25.5886	0.00E+00
10/12/2019	8:42:03 AM	12.33	17.811	35.3509	1.0565	4.76E-02	0.2608	4.61E+04	7.9472	103.56	12.457	-0.66	0.06	25.5925	0.00E+00
10/12/2019	8:41:08 AM	12.424	17.8816	35.336	0.8414	4.76E-02	0.3168	4.62E+04	7.8599	101.375	12.488	1.167	0.07	25.5572	0.00E+00
10/12/2019	8:42:02 AM	12.502	17.8011	35.3548	1.0527	4.76E-02	0.2593	4.61E+04	7.9486	103.575	12.611	-0.675	0.04	25.5987	0.00E+00
10/12/2019	8:42:02 AM	12.672	17.7903	35.3607	1.1015	4.76E-02	0.2795	4.61E+04	7.9498	103.587	12.762	-0.686	0.01	25.6071	0.00E+00
10/12/2019	8:41:08 AM	12.714	17.8795	35.3375	0.9566	4.76E-02	0.2888	4.62E+04	7.8688	101.333	12.796	1.185	0.07	25.5591	0.00E+00
10/12/2019	8:42:02 AM	12.84	17.7775	35.3683	1.1023	4.76E-02	0.2841	4.61E+04	7.95	103.581	12.895	-0.69	-0.06	25.6179	0.00E+00
10/12/2019	8:41:09 AM	13.004	17.8775	35.3384	0.9581	4.76E-02	0.2826	4.62E+04	7.8746	101.27	13.094	1.199	0.06	25.5604	0.00E+00
10/12/2019	8:42:01 AM	13.01	17.7614	35.3762	1.0993	4.76E-02	0.281	4.61E+04	7.9498	103.57	13.061	-0.674	-0.05	25.63	0.00E+00
10/12/2019	8:42:01 AM	13.18	17.741	35.3834	1.0993	4.76E-02	0.2779	4.60E+04	7.949	103.55	13.241	-0.662	-0.04	25.6425	0.00E+00
10/12/2019	8:41:09 AM	13.293	17.8751	35.3384	0.9558	4.76E-02	0.2733	4.62E+04	7.8849	101.28	13.392	1.203	0.02	25.561	0.00E+00
10/12/2019	8:42:01 AM	13.351	17.7165	35.393	1.2007	4.76E-02	0.2515	4.60E+04	7.9463	103.508	13.449	-0.651	0.03	25.658	0.00E+00
10/12/2019	8:42:01 AM	13.521	17.688	35.4032	1.2	4.76E-02	0.2562	4.60E+04	7.9429	103.457	13.611	-0.658	0.03	25.675	0.00E+00
10/12/2019	8:41:09 AM	13.58	17.872	35.3377	0.9581	4.76E-02	0.281	4.62E+04	7.8981	101.36	13.682	1.2	-0.01	25.561	0.00E+00
10/12/2019	8:42:01 AM	13.69	17.6545	35.4078	1.2015	4.76E-02	0.2577	4.60E+04	7.9394	103.403	13.753	-0.665	0.03	25.6883	0.00E+00
10/12/2019	8:42:00 AM	13.859	17.6166	35.4114	1.2007	4.76E-02	0.2531	4.59E+04	7.9385	103.382	13.944	-0.674	0.06	25.7012	0.00E+00
10/12/2019	8:41:09 AM	13.866	17.8682	35.3366	0.997	4.76E-02	0.2096	4.62E+04	7.9113	101.453	13.967	1.193	-0.03	25.5608	0.00E+00
10/12/2019	8:42:00 AM	14.029	17.5767	35.4209	1.4266	4.76E-02	0.2127	4.59E+04	7.9401	103.398	14.11	-0.688	0.08	25.7197	0.00E+00
10/12/2019	8:41:10 AM	14.151	17.8635	35.3354	0.9917	4.76E-02	0.2049	4.62E+04	7.9243	101.549	14.254	1.183	-0.04	25.5606	0.00E+00
10/12/2019	8:42:00 AM	14.198	17.5349	35.4288	1.4197	4.76E-02	0.208	4.58E+04	7.9398	103.384	14.267	-0.707	0.06	25.7376	0.00E+00
10/12/2019	8:41:59 AM	14.368	17.4889	35.4259	1.4189	4.76E-02	0.2002	4.58E+04	7.9391	103.366	14.407	-0.722	0.06	25.7465	0.00E+00
10/12/2019	8:41:10 AM	14.434	17.8576	35.3339	0.9924	4.76E-02	0.2049	4.62E+04	7.9343	101.626	14.519	1.167	-0.06	25.5604	0.00E+00
10/12/2019	8:41:59 AM	14.541	17.4403	35.4178	1.4197	4.76E-02	0.2002	4.57E+04	7.9401	103.366	14.587	-0.737	0.07	25.7504	0.00E+00
10/12/2019	8:41:59 AM	14.715	17.3943	35.4161	1.7813	4.76E-02	0.6043	4.57E+04	7.9406	103.366	14.753	-0.754	0.06	25.7588	0.00E+00
10/12/2019	8:41:10 AM	14.716	17.8496	35.3317	0.9963	4.76E-02	0.2096	4.62E+04	7.9394	101.6	14.78	1.149	-0.08	25.5598	0.00E+00
10/12/2019	8:41:59 AM	14.892	17.3526	35.4184	1.7844	4.76E-02	0.6043	4.57E+04	7.9488	103.461	14.935	-0.769	0.06	25.7704	0.00E+00
10/12/2019	8:41:10 AM	15	17.8383	35.328	0.9856	4.76E-02	0.1816	4.61E+04	7.9361	101.454	15.064	1.13	-0.07	25.5584	0.00E+00
10/12/2019	8:41:59 AM	15.072	17.3122	35.4174	1.7836	4.76E-02	0.5996	4.56E+04	7.9596	103.589	15.104	-0.784	0.09	25.7792	0.00E+00
10/12/2019	8:41:58 AM	15.255	17.2715	35.4177	1.7859	4.76E-02	0.6074	4.56E+04	7.9711	103.717	15.304	-0.807	0.11	25.789	0.00E+00
10/12/2019	8:41:10 AM	15.285	17.8216	35.3218	0.9795	4.76E-02	0.1816	4.61E+04	7.9198	101.153	15.367	1.124	-0.03	25.5556	0.00E+00

10/12/2019	8:41:58 AM	15.44	17.2316	35.4218	1.7836	4.76E-02	0.6136	4.55E+04	7.9858	103.893	15.478	-0.834	0.07	25.8021	0.00E+00
10/12/2019	8:41:11 AM	15.569	17.7968	35.3124	0.9825	4.76E-02	0.1831	4.61E+04	7.8904	100.715	15.681	1.129	0.02	25.5512	0.00E+00
10/12/2019	8:41:58 AM	15.628	17.1917	35.4233	1.866	4.76E-02	0.2841	4.55E+04	7.9961	104.002	15.669	-0.85	0	25.8132	0.00E+00
10/12/2019	8:41:57 AM	15.82	17.1503	35.4181	1.8706	4.76E-02	0.2841	4.55E+04	8.0063	104.124	15.847	-0.85	-0.03	25.8183	0.00E+00
10/12/2019	8:41:11 AM	15.852	17.7619	35.2984	0.9848	4.76E-02	0.1862	4.61E+04	7.8599	100.273	15.983	1.141	0.05	25.5446	0.00E+00
10/12/2019	8:41:57 AM	16.014	17.1089	35.4099	1.8683	4.76E-02	0.2779	4.54E+04	8.0118	104.182	16.069	-0.841	-0.02	25.82	0.00E+00
10/12/2019	8:41:11 AM	16.133	17.7173	35.2807	1.0741	4.76E-02	0.2577	4.60E+04	7.8412	99.976	16.254	1.15	0.04	25.537	0.00E+00
10/12/2019	8:41:57 AM	16.211	17.0709	35.4045	1.8668	4.76E-02	0.281	4.54E+04	8.0226	104.306	16.267	-0.836	-0.02	25.8231	0.00E+00
10/12/2019	8:41:57 AM	16.41	17.0375	35.4011	1.953	4.76E-02	0.3292	4.53E+04	8.0188	104.222	16.472	-0.83	-0.02	25.8272	0.00E+00
10/12/2019	8:41:12 AM	16.413	17.6649	35.2642	1.0771	4.76E-02	0.2577	4.60E+04	7.83	99.768	16.524	1.154	0.02	25.5329	0.00E+00
10/12/2019	8:41:56 AM	16.612	17.0072	35.3975	1.953	4.76E-02	0.3323	4.53E+04	8.0208	104.207	16.674	-0.825	-0.05	25.8307	0.00E+00
10/12/2019	8:41:12 AM	16.69	17.6061	35.2516	1.0787	4.76E-02	0.2562	4.59E+04	7.8123	99.489	16.795	1.155	0.01	25.5342	0.00E+00
10/12/2019	8:41:56 AM	16.814	16.979	35.3942	1.9515	4.76E-02	0.3292	4.53E+04	8.0231	104.18	16.928	-0.811	-0.04	25.8339	0.00E+00
10/12/2019	8:41:12 AM	16.968	17.5425	35.2417	1.0802	4.76E-02	0.2577	4.59E+04	7.8117	99.446	17.045	1.143	-0.05	25.5393	0.00E+00
10/12/2019	8:41:56 AM	17.015	16.9529	35.392	1.9515	4.76E-02	0.3323	4.53E+04	8.0182	104.064	17.146	-0.8	-0.09	25.8377	0.00E+00
10/12/2019	8:41:56 AM	17.214	16.9288	35.3916	2.1819	4.76E-02	0.3789	4.52E+04	8.0175	103.982	17.352	-0.777	-0.11	25.8427	0.00E+00
10/12/2019	8:41:12 AM	17.246	17.4748	35.2344	1.0779	4.76E-02	0.2608	4.58E+04	7.8108	99.414	17.319	1.122	-0.08	25.5481	0.00E+00
10/12/2019	8:41:56 AM	17.412	16.9059	35.3921	2.1842	4.76E-02	0.3836	4.52E+04	8.0188	103.902	17.518	-0.749	-0.14	25.8483	0.00E+00
10/12/2019	8:41:12 AM	17.525	17.404	35.229	1.4723	4.76E-02	0.2624	4.57E+04	7.8157	99.449	17.599	1.101	-0.08	25.5594	0.00E+00
10/12/2019	8:41:55 AM	17.608	16.8835	35.3919	2.1788	4.76E-02	0.3805	4.52E+04	8.0137	103.756	17.727	-0.714	-0.11	25.8533	0.00E+00
10/12/2019	8:41:55 AM	17.802	16.8612	35.3905	2.1849	4.76E-02	0.3743	4.52E+04	7.991	103.399	17.934	-0.688	-0.07	25.8571	0.00E+00
10/12/2019	8:41:13 AM	17.806	17.3328	35.2253	1.4723	4.76E-02	0.2546	4.56E+04	7.8086	99.336	17.897	1.091	-0.04	25.573	0.00E+00
10/12/2019	8:41:55 AM	17.995	16.8395	35.3876	2.2315	4.76E-02	0.2562	4.51E+04	7.9808	103.156	18.148	-0.67	-0.02	25.8592	0.00E+00
10/12/2019	8:41:13 AM	18.088	17.2646	35.2269	1.4739	4.76E-02	0.2577	4.56E+04	7.794	99.128	18.189	1.095	0.02	25.5913	0.00E+00
10/12/2019	8:41:54 AM	18.184	16.819	35.3842	2.2284	4.76E-02	0.2531	4.51E+04	7.9717	102.897	18.364	-0.664	0.06	25.8605	0.00E+00
10/12/2019	8:41:13 AM	18.369	17.2017	35.2345	1.47	4.76E-02	0.2562	4.55E+04	7.773	98.844	18.471	1.108	0.05	25.6144	0.00E+00
10/12/2019	8:41:54 AM	18.369	16.8004	35.3812	2.2315	4.76E-02	0.2484	4.51E+04	7.9494	102.531	18.554	-0.678	0.08	25.8617	0.00E+00
10/12/2019	8:41:54 AM	18.548	16.7841	35.3791	2.2345	4.76E-02	0.2562	4.51E+04	7.9204	102.089	18.717	-0.699	0.07	25.8632	0.00E+00
10/12/2019	8:41:14 AM	18.65	17.1454	35.2456	1.7035	4.76E-02	0.2049	4.55E+04	7.76	98.663	18.753	1.121	0.05	25.6394	0.00E+00
10/12/2019	8:41:54 AM	18.725	16.7695	35.3787	2.2307	4.76E-02	0.2577	4.51E+04	7.9013	101.804	18.844	-0.717	-0.01	25.866	0.00E+00
10/12/2019	8:41:54 AM	18.9	16.7562	35.3789	2.2765	4.76E-02	0.2266	4.51E+04	7.8887	101.516	18.995	-0.715	-0.02	25.8691	0.00E+00
10/12/2019	8:41:14 AM	18.932	17.0958	35.2585	1.6989	4.76E-02	0.2033	4.54E+04	7.7444	98.455	19.037	1.133	0.05	25.6644	0.00E+00
10/12/2019	8:41:53 AM	19.075	16.7432	35.3786	2.2773	4.76E-02	0.2235	4.51E+04	7.8624	101.138	19.174	-0.709	-0.03	25.8719	0.00E+00
10/12/2019	8:41:14 AM	19.214	17.0512	35.2713	1.6974	4.76E-02	0.2018	4.54E+04	7.7231	98.177	19.312	1.14	0.03	25.6877	0.00E+00
10/12/2019	8:41:53 AM	19.25	16.7304	35.3794	2.2788	4.76E-02	0.2329	4.50E+04	7.876	101.228	19.356	-0.702	-0.02	25.8755	0.00E+00
10/12/2019	8:41:53 AM	19.426	16.7178	35.3816	2.2773	4.76E-02	0.2313	4.50E+04	7.8683	101.04	19.537	-0.697	-0.04	25.8804	0.00E+00
10/12/2019	8:41:14 AM	19.496	17.0095	35.2808	1.6997	4.76E-02	0.2142	4.53E+04	7.7066	97.957	19.602	1.141	0	25.7069	0.00E+00
10/12/2019	8:41:52 AM	19.602	16.7049	35.3826	2.3368	4.76E-02	0.2313	4.50E+04	7.8826	101.112	19.716	-0.687	0.01	25.8845	0.00E+00
10/12/2019	8:41:52 AM	19.777	16.6912	35.381	2.3383	4.76E-02	0.2329	4.50E+04	7.8923	101.17	19.911	-0.689	0.05	25.8862	0.00E+00
10/12/2019	8:41:14 AM	19.778	16.9683	35.2863	1.9316	4.76E-02	0.281	4.53E+04	7.6919	97.755	19.892	1.14	0	25.7218	0.00E+00
10/12/2019	8:41:52 AM	19.95	16.6773	35.3783	2.3383	4.76E-02	0.2282	4.50E+04	7.8984	101.2	20.087	-0.702	0.01	25.8867	0.00E+00
10/12/2019	8:41:15 AM	20.06	16.9259	35.2875	1.9255	4.76E-02	0.2826	4.52E+04	7.6806	97.597	20.184	1.138	-0.01	25.7327	0.00E+00
10/12/2019	8:41:52 AM	20.123	16.6647	35.3761	2.336	4.76E-02	0.2313	4.50E+04	7.9035	101.218	20.254	-0.706	-0.1	25.8873	0.00E+00
10/12/2019	8:41:52 AM	20.294	16.6537	35.3741	2.4123	4.76E-02	0.309	4.50E+04	7.8979	101.084	20.405	-0.681	-0.16	25.8877	0.00E+00
10/12/2019	8:41:15 AM	20.341	16.8836	35.2854	1.9271	4.76E-02	0.2841	4.52E+04	7.668	97.425	20.471	1.14	0.01	25.7409	0.00E+00
10/12/2019	8:41:51 AM	20.465	16.6442	35.3723	2.4108	4.76E-02	0.309	4.50E+04	7.8915	100.963	20.593	-0.641	-0.11	25.888	0.00E+00
10/12/2019	8:41:15 AM	20.621	16.8447	35.287	1.9309	4.76E-02	0.2841	4.52E+04	7.6534	97.233	20.759	1.145	0.02	25.7522	0.00E+00
10/12/2019	8:41:51 AM	20.635	16.6358	35.3707	2.4115	4.76E-02	0.3121	4.50E+04	7.882	100.798	20.767	-0.613	-0.09	25.8883	0.00E+00
10/12/2019	8:41:51 AM	20.804	16.6286	35.3694	2.4108	4.76E-02	0.3012	4.49E+04	7.8648	100.541	20.942	-0.591	-0.02	25.8886	0.00E+00
10/12/2019	8:41:16 AM	20.9	16.8102	35.2955	2.1331	4.76E-02	0.3277	4.51E+04	7.6346	96.977	21.038	1.147	0.01	25.7688	0.00E+00
10/12/2019	8:41:50 AM	20.972	16.6223	35.3681	2.6229	4.76E-02	0.1816	4.49E+04	7.8468	100.27	21.095	-0.585	0.03	25.8888	0.00E+00

10/12/2019	8:41:50 AM	21.139	16.6167	35.3672	2.6229	4.76E-02	0.1816	4.49E+04	7.8293	99.996	21.305	-0.593	0.12	25.8891	0.00E+00
10/12/2019	8:41:16 AM	21.178	16.7787	35.3045	2.1331	4.76E-02	0.3354	4.51E+04	7.6117	96.665	21.308	1.143	-0.01	25.7849	0.00E+00
10/12/2019	8:41:50 AM	21.303	16.6118	35.3663	2.6229	4.76E-02	0.1816	4.49E+04	7.8153	99.776	21.498	-0.624	0.18	25.8894	0.00E+00
10/12/2019	8:41:16 AM	21.455	16.749	35.3098	2.1346	4.76E-02	0.3385	4.51E+04	7.5966	96.438	21.564	1.133	-0.04	25.7972	0.00E+00
10/12/2019	8:41:50 AM	21.464	16.6074	35.3652	2.6252	4.76E-02	0.18	4.49E+04	7.8084	99.64	21.642	-0.67	0.16	25.8893	0.00E+00
10/12/2019	8:41:49 AM	21.621	16.6034	35.3641	2.6221	4.76E-02	0.1816	4.49E+04	7.7894	99.371	21.714	-0.709	0.03	25.8891	0.00E+00
10/12/2019	8:41:16 AM	21.732	16.7217	35.3135	2.1353	4.76E-02	0.3277	4.50E+04	7.5777	96.145	21.846	1.121	-0.05	25.8074	0.00E+00
10/12/2019	8:41:49 AM	21.78	16.6	35.3635	2.5832	4.76E-02	0.2329	4.49E+04	7.7767	99.179	21.836	-0.718	-0.05	25.8892	0.00E+00
10/12/2019	8:41:49 AM	21.942	16.5972	35.3635	2.5893	4.76E-02	0.2282	4.49E+04	7.7579	98.919	22.001	-0.706	-0.04	25.8899	0.00E+00
10/12/2019	8:41:17 AM	22.01	16.6983	35.3189	2.1338	4.76E-02	0.323	4.50E+04	7.5641	95.913	22.142	1.115	-0.02	25.8186	0.00E+00
10/12/2019	8:41:49 AM	22.108	16.5946	35.3638	2.5885	4.76E-02	0.2375	4.49E+04	7.7449	98.733	22.159	-0.696	-0.03	25.8908	0.00E+00
10/12/2019	8:41:49 AM	22.278	16.5919	35.3638	2.5885	4.76E-02	0.2313	4.49E+04	7.7314	98.54	22.349	-0.689	0.03	25.8914	0.00E+00
10/12/2019	8:41:17 AM	22.287	16.6792	35.3269	2.3383	4.76E-02	0.2873	4.50E+04	7.5489	95.666	22.446	1.117	0.01	25.8312	0.00E+00
10/12/2019	8:41:48 AM	22.451	16.5891	35.3637	2.574	4.76E-02	0.2546	4.49E+04	7.7228	98.403	22.56	-0.696	0.13	25.892	0.00E+00
10/12/2019	8:41:17 AM	22.562	16.6634	35.335	2.3383	4.76E-02	0.281	4.50E+04	7.5301	95.385	22.725	1.122	0.02	25.8429	0.00E+00
10/12/2019	8:41:48 AM	22.626	16.5863	35.3638	2.574	4.76E-02	0.2562	4.49E+04	7.7123	98.252	22.752	-0.729	0.17	25.8927	0.00E+00
10/12/2019	8:41:48 AM	22.801	16.5836	35.3645	2.5756	4.76E-02	0.2546	4.49E+04	7.7074	98.166	22.928	-0.771	0.18	25.8941	0.00E+00
10/12/2019	8:41:17 AM	22.835	16.6494	35.3406	2.336	4.76E-02	0.281	4.50E+04	7.505	95.027	22.994	1.124	0.01	25.8517	0.00E+00
10/12/2019	8:41:47 AM	22.976	16.5808	35.3662	2.574	4.76E-02	0.2577	4.49E+04	7.7023	98.068	23.08	-0.816	0.13	25.8964	0.00E+00
10/12/2019	8:41:17 AM	23.107	16.637	35.3435	2.336	4.76E-02	0.2841	4.50E+04	7.4789	94.629	23.266	1.126	0.01	25.8577	0.00E+00
10/12/2019	8:41:47 AM	23.152	16.5774	35.3692	2.5382	4.76E-02	0.1831	4.49E+04	7.6978	97.975	23.233	-0.847	0.09	25.9002	0.00E+00
10/12/2019	8:41:47 AM	23.332	16.573	35.373	2.5344	4.76E-02	0.1893	4.49E+04	7.701	97.992	23.386	-0.87	0.04	25.905	0.00E+00
10/12/2019	8:41:18 AM	23.376	16.6262	35.3462	2.5611	4.76E-02	0.2562	4.50E+04	7.4493	94.187	23.538	1.127	0	25.8631	0.00E+00
10/12/2019	8:41:47 AM	23.516	16.5669	35.3769	2.5374	4.76E-02	0.1831	4.49E+04	7.7012	97.983	23.572	-0.88	-0.07	25.9104	0.00E+00
10/12/2019	8:41:18 AM	23.643	16.617	35.3494	2.5641	4.76E-02	0.2577	4.49E+04	7.4066	93.589	23.794	1.12	-0.03	25.8685	0.00E+00
10/12/2019	8:41:47 AM	23.705	16.5587	35.3807	2.5374	4.76E-02	0.1831	4.49E+04	7.7005	97.952	23.781	-0.862	-0.25	25.9161	0.00E+00
10/12/2019	8:41:46 AM	23.896	16.5485	35.3835	2.3276	4.76E-02	0.1583	4.49E+04	7.6956	97.88	24	-0.799	-0.37	25.9214	0.00E+00
10/12/2019	8:41:18 AM	23.909	16.609	35.3521	2.5611	4.76E-02	0.2531	4.49E+04	7.3622	92.939	24.049	1.1	-0.08	25.8731	0.00E+00
10/12/2019	8:41:46 AM	24.09	16.5364	35.385	2.323	4.76E-02	0.1629	4.49E+04	7.6904	97.8	24.246	-0.706	-0.32	25.9259	0.00E+00
10/12/2019	8:41:19 AM	24.175	16.6019	35.3542	2.5626	4.76E-02	0.2546	4.49E+04	7.3199	92.3	24.316	1.079	-0.08	25.8769	0.00E+00
10/12/2019	8:41:46 AM	24.282	16.5229	35.3854	2.3261	4.76E-02	0.1583	4.48E+04	7.6839	97.71	24.464	-0.626	-0.24	25.9295	0.00E+00
10/12/2019	8:41:19 AM	24.44	16.5952	35.3557	2.5649	4.76E-02	0.18	4.49E+04	7.2754	91.614	24.584	1.064	-0.06	25.8799	0.00E+00
10/12/2019	8:41:45 AM	24.471	16.5089	35.3849	2.3276	4.76E-02	0.1536	4.48E+04	7.6804	97.653	24.679	-0.566	-0.18	25.9323	0.00E+00
10/12/2019	8:41:45 AM	24.657	16.4949	35.3841	2.3284	4.76E-02	0.1598	4.48E+04	7.6774	97.61	24.879	-0.521	-0.12	25.9348	0.00E+00
10/12/2019	8:41:19 AM	24.705	16.5882	35.3561	2.5626	4.76E-02	0.1831	4.49E+04	7.2194	90.81	24.864	1.062	-0.01	25.8819	0.00E+00
10/12/2019	8:41:45 AM	24.836	16.4812	35.3848	2.2994	4.76E-02	0.1862	4.48E+04	7.6778	97.605	25.105	-0.49	-0.02	25.9387	0.00E+00
10/12/2019	8:41:19 AM	24.968	16.5806	35.3552	2.5626	4.76E-02	0.1831	4.49E+04	7.1638	90.031	25.134	1.064	0.01	25.8828	0.00E+00
10/12/2019	8:41:45 AM	25.007	16.4677	35.3885	2.304	4.76E-02	0.1893	4.48E+04	7.6775	97.592	25.331	-0.486	0.16	25.9454	0.00E+00
10/12/2019	8:41:45 AM	25.168	16.4535	35.3942	2.3055	4.76E-02	0.1847	4.48E+04	7.6788	97.606	25.481	-0.525	0.22	25.9543	0.00E+00
10/12/2019	8:41:19 AM	25.23	16.5726	35.3541	2.5634	4.76E-02	0.1878	4.49E+04	7.0992	89.155	25.397	1.066	0	25.8835	0.00E+00
10/12/2019	8:41:44 AM	25.319	16.437	35.3991	2.304	4.76E-02	0.1847	4.48E+04	7.6739	97.539	25.53	-0.58	0.15	25.963	0.00E+00
10/12/2019	8:41:44 AM	25.466	16.4178	35.4017	2.1338	4.76E-02	0.1303	4.47E+04	7.668	97.462	25.58	-0.619	0.03	25.9701	0.00E+00
10/12/2019	8:41:20 AM	25.49	16.5641	35.3534	2.4771	4.76E-02	0.2313	4.49E+04	7.0341	88.294	25.634	1.061	-0.02	25.8848	0.00E+00
10/12/2019	8:41:44 AM	25.614	16.3967	35.403	2.1361	4.76E-02	0.1287	4.47E+04	7.6613	97.372	25.713	-0.626	0.03	25.9764	0.00E+00
10/12/2019	8:41:20 AM	25.751	16.554	35.3521	2.4771	4.76E-02	0.2313	4.49E+04	6.9614	87.35	25.876	1.053	-0.03	25.8857	0.00E+00
10/12/2019	8:41:43 AM	25.763	16.3745	35.404	2.1353	4.76E-02	0.1396	4.47E+04	7.6489	97.207	25.889	-0.633	0.05	25.9825	0.00E+00
10/12/2019	8:41:43 AM	25.915	16.3518	35.4059	2.1308	4.76E-02	0.135	4.47E+04	7.6332	97.004	26.027	-0.647	0.06	25.9896	0.00E+00
10/12/2019	8:41:20 AM	26.012	16.541	35.3487	2.4802	4.76E-02	0.2298	4.49E+04	6.8814	86.328	26.138	1.044	-0.03	25.8851	0.00E+00
10/12/2019	8:41:43 AM	26.068	16.3287	35.4096	1.9187	4.76E-02	0.2096	4.47E+04	7.6102	96.707	26.172	-0.662	0.07	25.9985	0.00E+00
10/12/2019	8:41:43 AM	26.224	16.3045	35.4125	1.9164	4.76E-02	0.2002	4.46E+04	7.5915	96.468	26.31	-0.68	0.07	26.007	0.00E+00
10/12/2019	8:41:21 AM	26.274	16.5243	35.3431	2.4802	4.76E-02	0.2313	4.49E+04	6.7958	85.24	26.402	1.035	-0.04	25.8831	0.00E+00

10/12/2019	8:41:42 AM	26.383	16.2786	35.4124	1.9149	4.76E-02	0.2127	4.46E+04	7.5652	96.131	26.49	-0.698	0.09	26.013	0.00E+00
10/12/2019	8:41:21 AM	26.537	16.5035	35.3361	2.4787	4.76E-02	0.2266	4.48E+04	6.7115	84.172	26.678	1.032	-0.01	25.8808	0.00E+00
10/12/2019	8:41:42 AM	26.545	16.2517	35.4107	1.9149	4.76E-02	0.2049	4.46E+04	7.5482	95.909	26.655	-0.721	0.08	26.0176	0.00E+00
10/12/2019	8:41:42 AM	26.709	16.2252	35.4114	1.6776	4.76E-02	0.152	4.46E+04	7.526	95.616	26.824	-0.74	0.1	26.0242	0.00E+00
10/12/2019	8:41:21 AM	26.801	16.4788	35.3285	2.4306	4.76E-02	0.2344	4.48E+04	6.6347	83.196	26.977	1.04	0.03	25.8789	0.00E+00
10/12/2019	8:41:42 AM	26.876	16.1996	35.4154	1.6806	4.76E-02	0.152	4.45E+04	7.5021	95.293	26.966	-0.765	0.07	26.0339	0.00E+00
10/12/2019	8:41:42 AM	27.046	16.1734	35.422	1.6768	4.76E-02	0.1598	4.45E+04	7.477	94.955	27.146	-0.782	0.02	26.0464	0.00E+00
10/12/2019	8:41:21 AM	27.063	16.452	35.3222	2.4344	4.76E-02	0.236	4.48E+04	6.5643	82.298	27.281	1.063	0.09	25.8789	0.00E+00
10/12/2019	8:41:41 AM	27.22	16.1449	35.4288	1.6791	4.76E-02	0.152	4.45E+04	7.4499	94.579	27.31	-0.788	-0.08	26.0598	0.00E+00
10/12/2019	8:41:21 AM	27.321	16.4244	35.3192	2.4352	4.76E-02	0.2313	4.48E+04	6.5109	81.598	27.567	1.091	0.11	25.8823	0.00E+00
10/12/2019	8:41:41 AM	27.397	16.1126	35.4314	1.6799	4.76E-02	0.1552	4.44E+04	7.4214	94.191	27.498	-0.769	-0.11	26.0701	0.00E+00
10/12/2019	8:41:22 AM	27.573	16.3958	35.3185	2.4337	4.76E-02	0.2313	4.47E+04	6.4689	80.987	27.842	1.118	0.11	25.888	0.00E+00
10/12/2019	8:41:41 AM	27.577	16.077	35.427	1.5219	4.76E-02	0.1148	4.44E+04	7.3979	93.862	27.696	-0.742	-0.12	26.0745	0.00E+00
10/12/2019	8:41:40 AM	27.759	16.0407	35.4182	1.5174	4.76E-02	0.121	4.44E+04	7.3746	93.542	27.905	-0.711	-0.07	26.0745	0.00E+00
10/12/2019	8:41:22 AM	27.818	16.3647	35.317	2.085	4.76E-02	0.1629	4.47E+04	6.4427	80.581	28.072	1.122	0.02	25.8933	0.00E+00
10/12/2019	8:41:40 AM	27.942	16.0071	35.4105	1.5204	4.76E-02	0.1179	4.43E+04	7.3352	93.019	28.094	-0.694	-0.03	26.0745	0.00E+00
10/12/2019	8:41:22 AM	28.058	16.3297	35.312	2.0873	4.76E-02	0.1583	4.47E+04	6.4263	80.287	28.289	1.102	-0.08	25.8961	0.00E+00
10/12/2019	8:41:40 AM	28.126	15.9778	35.4062	1.5196	4.76E-02	0.1163	4.43E+04	7.3102	92.686	28.277	-0.686	0.02	26.0766	0.00E+00
10/12/2019	8:41:23 AM	28.293	16.2913	35.3046	2.0842	4.76E-02	0.1614	4.46E+04	6.42	80.104	28.519	1.07	-0.13	25.8977	0.00E+00
10/12/2019	8:41:40 AM	28.309	15.952	35.4045	1.1748	4.76E-02	0.1318	4.43E+04	7.2813	92.3	28.494	-0.691	0.06	26.0805	0.00E+00
10/12/2019	8:41:40 AM	28.491	15.9281	35.4035	1.1733	4.76E-02	0.1334	4.43E+04	7.2508	91.881	28.702	-0.705	0.1	26.0848	0.00E+00
10/12/2019	8:41:23 AM	28.523	16.2494	35.2987	2.085	4.76E-02	0.1598	4.46E+04	6.4083	79.868	28.765	1.033	-0.15	25.9013	0.00E+00
10/12/2019	8:41:39 AM	28.671	15.9052	35.4023	1.1771	4.76E-02	0.1334	4.42E+04	7.2185	91.435	28.87	-0.729	0.09	26.0889	0.00E+00
10/12/2019	8:41:23 AM	28.747	16.2028	35.2922	1.9766	4.76E-02	0.2064	4.45E+04	6.3843	79.499	29.011	0.996	-0.15	25.9052	0.00E+00
10/12/2019	8:41:39 AM	28.848	15.8829	35.4015	1.1778	4.76E-02	0.1334	4.42E+04	7.1822	90.929	29.002	-0.752	0.1	26.0933	0.00E+00
10/12/2019	8:41:23 AM	28.965	16.1524	35.2826	1.9766	4.76E-02	0.2033	4.45E+04	6.3484	79.011	29.268	0.972	-0.1	25.9075	0.00E+00
10/12/2019	8:41:39 AM	29.026	15.8611	35.4033	1.0062	4.76E-02	0.107	4.42E+04	7.1301	90.229	29.16	-0.776	0.07	26.0999	0.00E+00
10/12/2019	8:41:24 AM	29.175	16.1023	35.2759	1.9774	4.76E-02	0.2158	4.44E+04	6.3012	78.402	29.483	0.953	-0.07	25.9131	0.00E+00
10/12/2019	8:41:38 AM	29.206	15.8394	35.4088	1.0054	4.76E-02	0.1194	4.42E+04	7.0807	89.565	29.315	-0.794	0.01	26.11	0.00E+00
10/12/2019	8:41:24 AM	29.377	16.0566	35.2779	1.9789	4.76E-02	0.2127	4.44E+04	6.2355	77.566	29.678	0.935	-0.07	25.9264	0.00E+00
10/12/2019	8:41:38 AM	29.388	15.8164	35.4135	1.0077	4.76E-02	0.1194	4.41E+04	7.0251	88.824	29.511	-0.798	-0.02	26.12	0.00E+00
10/12/2019	8:41:24 AM	29.569	16.0173	35.2875	1.689	4.76E-02	0.1318	4.43E+04	6.1639	76.666	29.886	0.924	-0.05	25.9453	0.00E+00
10/12/2019	8:41:38 AM	29.573	15.7906	35.4149	1.0046	4.76E-02	0.1194	4.41E+04	6.9657	88.035	29.709	-0.793	-0.02	26.1278	0.00E+00
10/12/2019	8:41:24 AM	29.752	15.9846	35.3	1.686	4.76E-02	0.1334	4.43E+04	6.0902	75.742	30.071	0.902	-0.09	25.9654	0.00E+00
10/12/2019	8:41:38 AM	29.759	15.7624	35.4164	0.7544	4.76E-02	0.1381	4.41E+04	6.9015	87.172	29.93	-0.788	-0.04	26.1358	0.00E+00
10/12/2019	8:41:24 AM	29.926	15.9582	35.3124	1.6883	4.76E-02	0.1365	4.43E+04	6.0204	74.861	30.221	0.859	-0.17	25.984	0.00E+00
10/12/2019	8:41:38 AM	29.946	15.7331	35.4189	0.7575	4.76E-02	0.135	4.41E+04	6.8479	86.441	30.108	-0.779	-0.1	26.145	0.00E+00
10/12/2019	8:41:25 AM	30.092	15.9374	35.3241	1.6875	4.76E-02	0.1334	4.43E+04	5.9627	74.13	30.341	0.796	-0.25	26.0005	0.00E+00
10/12/2019	8:41:37 AM	30.133	15.7027	35.4199	0.7559	4.76E-02	0.1427	4.40E+04	6.7883	85.645	30.291	-0.753	-0.16	26.153	0.00E+00
10/12/2019	8:41:25 AM	30.253	15.9204	35.3339	1.6852	4.76E-02	0.1272	4.43E+04	5.9145	73.525	30.44	0.72	-0.3	26.014	0.00E+00
10/12/2019	8:41:37 AM	30.321	15.671	35.4158	0.759	4.76E-02	0.1334	4.40E+04	6.7387	84.991	30.475	-0.714	-0.17	26.1567	0.00E+00
10/12/2019	8:41:25 AM	30.414	15.9053	35.3402	1.1626	4.76E-02	0.1334	4.42E+04	5.876	73.046	30.534	0.64	-0.32	26.0236	0.00E+00
10/12/2019	8:41:37 AM	30.508	15.6389	35.4062	0.759	4.76E-02	0.1318	4.40E+04	6.6919	84.37	30.711	-0.672	-0.1	26.155	0.00E+00
10/12/2019	8:41:26 AM	30.577	15.8898	35.3423	1.1649	4.76E-02	0.1334	4.42E+04	5.8552	72.789	30.649	0.574	-0.26	26.0292	0.00E+00
10/12/2019	8:41:36 AM	30.695	15.6088	35.3952	0.6934	4.76E-02	0.1163	4.39E+04	6.6506	83.8	30.92	-0.647	-0.04	26.1511	0.00E+00
10/12/2019	8:41:26 AM	30.747	15.8716	35.3403	1.1664	4.76E-02	0.1287	4.42E+04	5.8441	72.655	30.798	0.527	-0.19	26.0312	0.00E+00
10/12/2019	8:41:36 AM	30.878	15.5835	35.3869	0.6972	4.76E-02	0.1163	4.39E+04	6.6142	83.282	31.111	-0.638	0.03	26.1483	0.00E+00
10/12/2019	8:41:26 AM	30.923	15.8482	35.3341	1.1626	4.76E-02	0.1287	4.42E+04	5.8391	72.6	30.987	0.509	-0.07	26.0299	0.00E+00
10/12/2019	8:41:36 AM	31.057	15.5635	35.3809	0.6995	4.76E-02	0.1194	4.39E+04	6.5821	82.797	31.287	-0.645	0.09	26.1466	0.00E+00
10/12/2019	8:41:26 AM	31.106	15.8167	35.3226	1.0542	4.76E-02	0.1256	4.42E+04	5.8351	72.557	31.196	0.528	0.08	26.0252	0.00E+00
10/12/2019	8:41:36 AM	31.233	15.5475	35.376	0.6972	4.76E-02	0.1179	4.39E+04	6.5467	82.283	31.479	-0.668	0.12	26.1452	0.00E+00

10/12/2019	8:41:26 AM	31.294	15.7769	35.3053	1.0535	4.76E-02	0.1163	4.41E+04	5.8405	72.63	31.406	0.578	0.2	26.0172	0.00E+00
10/12/2019	8:41:35 AM	31.405	15.5345	35.3719	0.6361	4.76E-02	0.1179	4.39E+04	6.5134	81.8	31.631	-0.699	0.09	26.144	0.00E+00
10/12/2019	8:41:27 AM	31.486	15.7318	35.288	1.0542	4.76E-02	0.121	4.41E+04	5.8478	72.725	31.612	0.643	0.26	26.0111	0.00E+00
10/12/2019	8:41:35 AM	31.574	15.5239	35.3685	0.6369	4.76E-02	0.1163	4.38E+04	6.4801	81.353	31.773	-0.722	0.08	26.1429	0.00E+00
10/12/2019	8:41:27 AM	31.682	15.6847	35.2781	1.0558	4.76E-02	0.121	4.40E+04	5.8601	72.881	31.808	0.708	0.26	26.0124	0.00E+00
10/12/2019	8:41:35 AM	31.741	15.5153	35.3659	0.6407	4.76E-02	0.1179	4.38E+04	6.4407	80.82	31.91	-0.742	0.07	26.1421	0.00E+00
10/12/2019	8:41:27 AM	31.881	15.638	35.2736	0.9215	4.76E-02	0.1878	4.40E+04	5.8717	73.028	32.006	0.761	0.21	26.0193	0.00E+00
10/12/2019	8:41:35 AM	31.909	15.5084	35.3643	0.6361	4.76E-02	0.1225	4.38E+04	6.3956	80.23	32.074	-0.761	0.03	26.142	0.00E+00
10/12/2019	8:41:35 AM	32.077	15.5029	35.3631	0.6514	4.76E-02	0.1816	4.38E+04	6.3387	79.478	32.239	-0.769	-0.06	26.1419	0.00E+00
10/12/2019	8:41:28 AM	32.082	15.5957	35.2737	0.9207	4.76E-02	0.1878	4.39E+04	5.873	73.049	32.226	0.799	0.15	26.03	0.00E+00
10/12/2019	8:41:34 AM	32.247	15.4982	35.3614	0.6476	4.76E-02	0.1769	4.38E+04	6.2812	78.725	32.423	-0.754	-0.14	26.1413	0.00E+00
10/12/2019	8:41:28 AM	32.286	15.5609	35.282	0.9192	4.76E-02	0.1754	4.39E+04	5.8955	73.335	32.474	0.83	0.12	26.047	0.00E+00
10/12/2019	8:41:34 AM	32.416	15.4942	35.3592	0.6476	4.76E-02	0.1847	4.38E+04	6.2281	78.03	32.62	-0.72	-0.14	26.1401	0.00E+00
10/12/2019	8:41:28 AM	32.489	15.5346	35.2969	0.9207	4.76E-02	0.1878	4.38E+04	5.9048	73.454	32.729	0.856	0.1	26.068	0.00E+00
10/12/2019	8:41:34 AM	32.584	15.4911	35.3568	0.6499	4.76E-02	0.1847	4.38E+04	6.1716	77.296	32.835	-0.686	-0.2	26.1384	0.00E+00
10/12/2019	8:41:28 AM	32.688	15.5153	35.3124	0.6857	4.76E-02	0.1287	4.38E+04	5.9129	73.552	32.978	0.882	0.11	26.0878	0.00E+00
10/12/2019	8:41:33 AM	32.748	15.4892	35.3552	0.5988	4.76E-02	0.1318	4.38E+04	6.1205	76.627	33.012	-0.636	-0.34	26.1372	0.00E+00
10/12/2019	8:41:28 AM	32.881	15.5007	35.3244	0.6857	4.76E-02	0.1334	4.38E+04	5.9161	73.587	33.227	0.913	0.12	26.103	0.00E+00
10/12/2019	8:41:33 AM	32.907	15.4885	35.3554	0.6026	4.76E-02	0.1318	4.38E+04	6.08	76.08	33.178	-0.552	-0.46	26.1373	0.00E+00
10/12/2019	8:41:33 AM	33.061	15.4885	35.3572	0.6003	4.76E-02	0.135	4.38E+04	6.0485	75.625	33.374	-0.437	-0.49	26.139	0.00E+00
10/12/2019	8:41:29 AM	33.063	15.4895	35.3325	0.6812	4.76E-02	0.1334	4.38E+04	5.923	73.67	33.489	0.947	0.14	26.1136	0.00E+00
10/12/2019	8:41:33 AM	33.205	15.4884	35.3593	0.5988	4.76E-02	0.1303	4.38E+04	6.0261	75.311	33.598	-0.314	-0.43	26.1409	0.00E+00
10/12/2019	8:41:29 AM	33.231	15.4807	35.3385	0.6873	4.76E-02	0.1396	4.38E+04	5.923	73.67	33.749	0.981	0.14	26.1216	0.00E+00
10/12/2019	8:41:33 AM	33.338	15.4874	35.3604	0.601	4.76E-02	0.1287	4.38E+04	6.0106	75.067	33.778	-0.206	-0.37	26.1424	0.00E+00
10/12/2019	8:41:29 AM	33.377	15.4735	35.3425	0.685	4.76E-02	0.1287	4.38E+04	5.9247	73.697	34.009	1.007	0.1	26.1271	0.00E+00
10/12/2019	8:41:32 AM	33.455	15.4855	35.3609	0.672	4.76E-02	0.309	4.38E+04	6.0008	74.894	33.91	-0.114	-0.32	26.1433	0.00E+00
10/12/2019	8:41:30 AM	33.498	15.468	35.3449	0.659	4.76E-02	0.1816	4.38E+04	5.9294	73.762	34.12	0.982	-0.1	26.1309	0.00E+00
10/12/2019	8:41:32 AM	33.555	15.4831	35.361	0.6751	4.76E-02	0.2997	4.38E+04	5.996	74.769	34.026	-0.034	-0.25	26.144	0.00E+00
10/12/2019	8:41:30 AM	33.592	15.4649	35.348	0.6621	4.76E-02	0.1847	4.38E+04	5.9255	73.72	34.162	0.901	-0.33	26.1349	0.00E+00
10/12/2019	8:41:32 AM	33.637	15.4805	35.3612	0.6735	4.76E-02	0.3075	4.38E+04	5.9895	74.632	34.179	0.028	-0.12	26.1447	0.00E+00
10/12/2019	8:41:30 AM	33.662	15.464	35.3521	0.6667	4.76E-02	0.1754	4.38E+04	5.9326	73.814	34.174	0.776	-0.5	26.1394	0.00E+00
10/12/2019	8:41:31 AM	33.698	15.4779	35.3616	0.6766	4.76E-02	0.3075	4.38E+04	5.9804	74.486	34.243	0.059	-0.14	26.1457	0.00E+00
10/12/2019	8:41:30 AM	33.712	15.4646	35.3558	0.6575	4.76E-02	0.1831	4.38E+04	5.9377	73.883	34.187	0.627	-0.6	26.1429	0.00E+00
10/12/2019	8:41:31 AM	33.738	15.4753	35.3619	0.6102	4.76E-02	0.2593	4.38E+04	5.9706	74.347	34.243	0.094	-0.36	26.1466	0.00E+00
10/12/2019	8:41:31 AM	33.744	15.4666	35.3583	0.6133	4.76E-02	0.2562	4.38E+04	5.9475	74.015	34.203	0.467	-0.64	26.145	0.00E+00
10/12/2019	8:41:31 AM	33.757	15.4724	35.3617	0.6148	4.76E-02	0.2593	4.38E+04	5.9636	74.244	34.23	0.183	-0.52	26.147	0.00E+00
10/12/2019	8:41:31 AM	33.759	15.4693	35.3603	0.6163	4.76E-02	0.2562	4.38E+04	5.9545	74.114	34.217	0.313	-0.62	26.1464	0.00E+00

TRANSECT 1 - 2,000 m

DD MMM YYYY HH:MM:SS	DD MMM YYYY HH:MM:SS	DepSM	Tv290C	Sal00	FlECO-AFL	Par	TurbWETntu0	C0uS/cm	Sbeox0Mg/L	Sbeox0PS	PrdM	Dz/dtM	AccM	Sigma-t00	Flag
10/12/2019	8:45:59 AM	0.527	18.103	35.3184	0.2249	4.76E-02	0.1303	4.64E+04	-9.99E-29	-9.99E-29	0.389	-0.424	0.08	25.4911	0.00E+00
10/12/2019	8:44:24 AM	0.585	18.1138	35.3176	0.1913	4.76E-02	0.0961	4.64E+04	7.9012	103.327	0.484	0.264	0.13	25.4872	0.00E+00
10/12/2019	8:45:58 AM	0.61	18.1018	35.3187	0.2364	4.76E-02	0.1179	4.64E+04	-9.99E-29	-9.99E-29	0.487	-0.443	0.11	25.4916	0.00E+00
10/12/2019	8:44:24 AM	0.658	18.1138	35.3176	0.1906	4.76E-02	0.0977	4.64E+04	7.905	103.372	0.551	0.277	0.05	25.4872	0.00E+00
10/12/2019	8:45:58 AM	0.7	18.1006	35.3191	0.2356	4.76E-02	0.1194	4.64E+04	-9.99E-29	-9.99E-29	0.62	-0.471	0.15	25.4923	0.00E+00
10/12/2019	8:44:24 AM	0.739	18.1138	35.3176	0.1906	4.76E-02	0.0914	4.64E+04	7.901	103.31	0.615	0.267	-0.04	25.4872	0.00E+00
10/12/2019	8:45:58 AM	0.796	18.0993	35.3194	0.2394	4.76E-02	0.1194	4.64E+04	-9.99E-29	-9.99E-29	0.714	-0.508	0.16	25.493	0.00E+00
10/12/2019	8:44:25 AM	0.827	18.1138	35.3177	0.1868	4.76E-02	0.0914	4.64E+04	7.8976	103.256	0.656	0.246	-0.09	25.4872	0.00E+00
10/12/2019	8:45:58 AM	0.898	18.0977	35.3194	0.2409	4.76E-02	0.1179	4.64E+04	-9.99E-29	-9.99E-29	0.816	-0.549	0.16	25.4934	0.00E+00
10/12/2019	8:44:25 AM	0.926	18.1138	35.3177	0.1898	4.76E-02	0.1179	4.64E+04	7.8903	103.15	0.752	0.236	-0.04	25.4872	0.00E+00
10/12/2019	8:45:58 AM	1.005	18.096	35.3192	0.2371	4.76E-02	0.1148	4.64E+04	-9.99E-29	-9.99E-29	0.909	-0.588	0.14	25.4937	0.00E+00
10/12/2019	8:44:25 AM	1.035	18.1138	35.3177	0.1913	4.76E-02	0.1163	4.64E+04	7.8817	103.032	0.895	0.257	0.08	25.4872	0.00E+00
10/12/2019	8:45:57 AM	1.119	18.0942	35.3193	0.2364	4.76E-02	0.1148	4.64E+04	-9.99E-29	-9.99E-29	0.995	-0.624	0.1	25.4942	0.00E+00
10/12/2019	8:44:25 AM	1.154	18.1137	35.3176	0.1875	4.76E-02	0.1163	4.64E+04	7.8698	102.868	1.06	0.31	0.21	25.4872	0.00E+00
10/12/2019	8:45:57 AM	1.24	18.0926	35.3199	0.2379	4.76E-02	0.1101	4.64E+04	-9.99E-29	-9.99E-29	1.128	-0.649	0.04	25.4951	0.00E+00
10/12/2019	8:44:26 AM	1.279	18.1135	35.3174	0.1852	4.76E-02	0.1225	4.64E+04	7.8665	102.814	1.199	0.374	0.25	25.4871	0.00E+00
10/12/2019	8:45:57 AM	1.369	18.0909	35.3204	0.2386	4.76E-02	0.121	4.64E+04	7.5923	99.263	1.264	-0.66	0.01	25.4961	0.00E+00
10/12/2019	8:44:26 AM	1.409	18.1131	35.3172	0.1875	4.76E-02	0.1148	4.64E+04	7.8633	102.762	1.317	0.427	0.21	25.4869	0.00E+00
10/12/2019	8:45:56 AM	1.504	18.0888	35.3204	0.2386	4.76E-02	0.1163	4.64E+04	7.6739	100.336	1.415	-0.662	-0.02	25.4967	0.00E+00
10/12/2019	8:44:26 AM	1.547	18.1125	35.3169	0.2135	4.76E-02	0.1303	4.64E+04	7.8678	102.807	1.418	0.464	0.15	25.4867	0.00E+00
10/12/2019	8:45:56 AM	1.646	18.0865	35.3205	0.2768	4.76E-02	0.1179	4.64E+04	7.7513	101.349	1.582	-0.658	-0.01	25.4973	0.00E+00
10/12/2019	8:44:27 AM	1.693	18.1116	35.3164	0.2142	4.76E-02	0.1381	4.64E+04	7.8832	102.996	1.541	0.495	0.12	25.4865	0.00E+00
10/12/2019	8:45:56 AM	1.793	18.0842	35.3208	0.2745	4.76E-02	0.1194	4.64E+04	7.83	102.382	1.726	-0.655	-0.01	25.4982	0.00E+00
10/12/2019	8:44:27 AM	1.848	18.1105	35.3161	0.215	4.76E-02	0.1365	4.64E+04	7.9007	103.214	1.694	0.521	0.11	25.4864	0.00E+00
10/12/2019	8:45:56 AM	1.944	18.0818	35.3213	0.2737	4.76E-02	0.121	4.64E+04	7.896	103.253	1.895	-0.651	0.01	25.4992	0.00E+00
10/12/2019	8:44:27 AM	2.014	18.1092	35.3159	0.2142	4.76E-02	0.1318	4.64E+04	7.922	103.481	1.873	0.537	0.06	25.4864	0.00E+00
10/12/2019	8:45:56 AM	2.098	18.0793	35.3214	0.2737	4.76E-02	0.1132	4.64E+04	7.9374	103.801	2.06	-0.654	0.04	25.5	0.00E+00
10/12/2019	8:44:27 AM	2.188	18.1077	35.3156	0.2119	4.76E-02	0.1179	4.64E+04	7.94	103.707	2.07	0.557	0.08	25.4865	0.00E+00
10/12/2019	8:45:55 AM	2.256	18.0766	35.321	0.2631	4.76E-02	0.0899	4.63E+04	7.9603	104.107	2.242	-0.664	0.05	25.5003	0.00E+00
10/12/2019	8:44:27 AM	2.371	18.1059	35.3151	0.2142	4.76E-02	0.1225	4.64E+04	7.9509	103.842	2.28	0.592	0.14	25.4865	0.00E+00
10/12/2019	8:45:55 AM	2.415	18.074	35.321	0.2592	4.76E-02	0.0961	4.63E+04	7.9787	104.351	2.429	-0.676	0.1	25.5009	0.00E+00
10/12/2019	8:44:28 AM	2.561	18.1039	35.3146	0.2165	4.76E-02	0.121	4.64E+04	7.9472	103.788	2.486	0.645	0.21	25.4864	0.00E+00
10/12/2019	8:45:55 AM	2.575	18.0715	35.3218	0.2631	4.76E-02	0.0868	4.63E+04	7.9903	104.507	2.565	-0.702	0.05	25.5023	0.00E+00
10/12/2019	8:45:54 AM	2.736	18.069	35.3231	0.2631	4.76E-02	0.0852	4.63E+04	7.9944	104.561	2.722	-0.713	0	25.5041	0.00E+00
10/12/2019	8:44:28 AM	2.756	18.1018	35.3143	0.2142	4.76E-02	0.1163	4.64E+04	7.936	103.634	2.693	0.704	0.24	25.4866	0.00E+00
10/12/2019	8:45:54 AM	2.899	18.0662	35.324	0.3081	4.76E-02	0.1163	4.63E+04	7.995	104.566	2.874	-0.713	-0.03	25.5057	0.00E+00
10/12/2019	8:44:28 AM	2.956	18.0998	35.3143	0.2234	4.76E-02	0.1163	4.64E+04	7.9095	103.282	2.902	0.759	0.22	25.4871	0.00E+00
10/12/2019	8:45:54 AM	3.065	18.0627	35.3246	0.3119	4.76E-02	0.1179	4.63E+04	7.9938	104.545	3.034	-0.706	-0.07	25.5071	0.00E+00
10/12/2019	8:44:29 AM	3.16	18.0976	35.3145	0.2249	4.76E-02	0.1163	4.64E+04	7.8963	103.102	3.129	0.802	0.17	25.4878	0.00E+00
10/12/2019	8:45:54 AM	3.233	18.0589	35.3255	0.3119	4.76E-02	0.1132	4.63E+04	7.9899	104.492	3.216	-0.688	-0.03	25.5089	0.00E+00
10/12/2019	8:44:29 AM	3.367	18.0949	35.3144	0.2287	4.76E-02	0.1116	4.64E+04	7.8854	102.949	3.359	0.834	0.13	25.4882	0.00E+00
10/12/2019	8:45:54 AM	3.403	18.0549	35.327	0.3119	4.76E-02	0.1148	4.63E+04	7.9879	104.464	3.401	-0.68	-0.01	25.5113	0.00E+00
10/12/2019	8:44:29 AM	3.575	18.0915	35.3137	0.2249	4.76E-02	0.1225	4.64E+04	7.877	102.827	3.594	0.858	0.1	25.4882	0.00E+00
10/12/2019	8:45:53 AM	3.575	18.0505	35.3286	0.3073	4.76E-02	0.1194	4.63E+04	7.9792	104.348	3.599	-0.677	0.02	25.514	0.00E+00
10/12/2019	8:45:53 AM	3.747	18.0453	35.3294	0.3607	4.76E-02	0.1163	4.63E+04	7.9862	104.435	3.765	-0.682	0.01	25.516	0.00E+00
10/12/2019	8:44:29 AM	3.784	18.0875	35.3127	0.2333	4.76E-02	0.1194	4.64E+04	7.8835	102.897	3.829	0.877	0.08	25.4881	0.00E+00
10/12/2019	8:45:53 AM	3.918	18.0396	35.3295	0.3615	4.76E-02	0.1132	4.63E+04	7.9813	104.367	3.96	-0.685	0.03	25.5176	0.00E+00
10/12/2019	8:44:29 AM	3.991	18.0831	35.312	0.2402	4.76E-02	0.1163	4.64E+04	7.8926	102.995	4.053	0.892	0.06	25.4884	0.00E+00
10/12/2019	8:45:53 AM	4.089	18.0337	35.3298	0.3577	4.76E-02	0.1132	4.63E+04	7.9813	104.363	4.121	-0.691	0.05	25.5192	0.00E+00
10/12/2019	8:44:30 AM	4.196	18.0786	35.3119	0.2364	4.76E-02	0.1163	4.64E+04	7.9008	103.078	4.255	0.898	0.03	25.4893	0.00E+00

10/12/2019	8:45:52 AM	4.259	18.028	35.3304	0.3569	4.76E-02	0.1194	4.63E+04	7.9795	104.337	4.272	-0.703	0.02	25.5211	0.00E+00
10/12/2019	8:44:30 AM	4.399	18.0739	35.3122	0.2379	4.76E-02	0.1163	4.63E+04	7.9081	103.151	4.446	0.893	-0.02	25.4907	0.00E+00
10/12/2019	8:45:52 AM	4.429	18.0223	35.3311	0.4073	4.76E-02	0.1303	4.63E+04	7.9833	104.385	4.44	-0.708	0.06	25.523	0.00E+00
10/12/2019	8:44:30 AM	4.6	18.0689	35.3124	0.2394	4.76E-02	0.1179	4.63E+04	7.9178	103.262	4.639	0.877	-0.06	25.492	0.00E+00
10/12/2019	8:45:52 AM	4.601	18.0165	35.3314	0.4057	4.76E-02	0.135	4.63E+04	7.9906	104.475	4.592	-0.722	0.05	25.5247	0.00E+00
10/12/2019	8:45:51 AM	4.774	18.0106	35.3317	0.4088	4.76E-02	0.135	4.63E+04	7.9908	104.47	4.789	-0.734	0.11	25.5263	0.00E+00
10/12/2019	8:44:31 AM	4.801	18.0635	35.3122	0.276	4.76E-02	0.135	4.63E+04	7.9177	103.252	4.821	0.849	-0.11	25.493	0.00E+00
10/12/2019	8:45:51 AM	4.948	18.0048	35.3328	0.405	4.76E-02	0.1318	4.63E+04	7.9788	104.311	4.972	-0.761	0.11	25.5287	0.00E+00
10/12/2019	8:44:31 AM	5.002	18.0578	35.3121	0.2745	4.76E-02	0.135	4.63E+04	7.924	103.323	5.011	0.82	-0.12	25.4941	0.00E+00
10/12/2019	8:45:51 AM	5.123	17.9992	35.3348	0.4683	4.76E-02	0.1847	4.63E+04	7.9819	104.348	5.147	-0.788	0.08	25.532	0.00E+00
10/12/2019	8:44:31 AM	5.204	18.0521	35.3121	0.2745	4.76E-02	0.135	4.63E+04	7.9325	103.424	5.211	0.796	-0.1	25.4954	0.00E+00
10/12/2019	8:45:51 AM	5.298	17.9931	35.3372	0.4675	4.76E-02	0.1878	4.63E+04	7.9818	104.34	5.32	-0.807	0.02	25.5358	0.00E+00
10/12/2019	8:44:31 AM	5.408	18.0464	35.3123	0.2745	4.76E-02	0.1287	4.63E+04	7.9396	103.501	5.423	0.783	-0.05	25.4969	0.00E+00
10/12/2019	8:45:51 AM	5.473	17.9862	35.3392	0.4668	4.76E-02	0.1816	4.63E+04	7.9946	104.502	5.478	-0.811	-0.17	25.5395	0.00E+00
10/12/2019	8:44:31 AM	5.612	18.0409	35.3127	0.3096	4.76E-02	0.1318	4.63E+04	7.9547	103.678	5.641	0.784	0	25.4987	0.00E+00
10/12/2019	8:45:50 AM	5.65	17.9783	35.3407	0.4683	4.76E-02	0.1831	4.63E+04	7.9923	104.463	5.674	-0.769	-0.31	25.5428	0.00E+00
10/12/2019	8:44:32 AM	5.816	18.0358	35.3136	0.3104	4.76E-02	0.1334	4.63E+04	7.9673	103.822	5.861	0.798	0.06	25.5008	0.00E+00
10/12/2019	8:45:50 AM	5.828	17.9695	35.3409	0.6476	4.76E-02	0.452	4.63E+04	8.0001	104.565	5.852	-0.692	-0.39	25.5451	0.00E+00
10/12/2019	8:45:50 AM	6.005	17.9604	35.34	0.6445	4.76E-02	0.4566	4.62E+04	7.9949	104.496	6.068	-0.594	-0.38	25.5464	0.00E+00
10/12/2019	8:44:32 AM	6.02	18.0311	35.3147	0.3111	4.76E-02	0.135	4.63E+04	7.9752	103.913	6.07	0.814	0.07	25.503	0.00E+00
10/12/2019	8:45:49 AM	6.18	17.9517	35.3383	0.6506	4.76E-02	0.4551	4.62E+04	7.9977	104.524	6.28	-0.499	-0.38	25.5467	0.00E+00
10/12/2019	8:44:32 AM	6.223	18.0267	35.3159	0.3088	4.76E-02	0.1318	4.63E+04	7.9782	103.936	6.263	0.825	0.04	25.5052	0.00E+00
10/12/2019	8:45:49 AM	6.351	17.944	35.3358	0.6484	4.76E-02	0.4629	4.62E+04	8.0128	104.715	6.509	-0.404	-0.31	25.546	0.00E+00
10/12/2019	8:44:32 AM	6.426	18.0224	35.3171	0.3905	4.76E-02	0.1614	4.63E+04	7.981	103.953	6.444	0.827	0.01	25.5073	0.00E+00
10/12/2019	8:45:49 AM	6.515	17.9375	35.3337	0.6491	4.76E-02	0.4598	4.62E+04	8.0122	104.698	6.711	-0.327	-0.16	25.5452	0.00E+00
10/12/2019	8:44:33 AM	6.629	18.0179	35.3178	0.3973	4.76E-02	0.1629	4.63E+04	7.9786	103.904	6.624	0.817	-0.04	25.5089	0.00E+00
10/12/2019	8:45:49 AM	6.669	17.9326	35.3322	0.5873	4.76E-02	0.5033	4.62E+04	8.0117	104.685	6.898	-0.286	0.05	25.5447	0.00E+00
10/12/2019	8:45:49 AM	6.811	17.9291	35.3313	0.5904	4.76E-02	0.5048	4.62E+04	8.0054	104.596	7.062	-0.299	0.24	25.5444	0.00E+00
10/12/2019	8:44:33 AM	6.835	18.0131	35.3181	0.3951	4.76E-02	0.1536	4.63E+04	7.9704	103.787	6.816	0.802	-0.06	25.5101	0.00E+00
10/12/2019	8:45:48 AM	6.941	17.9266	35.3308	0.5904	4.76E-02	0.5095	4.62E+04	7.9989	104.497	7.128	-0.359	0.3	25.5445	0.00E+00
10/12/2019	8:44:33 AM	7.045	18.0076	35.3178	0.3935	4.76E-02	0.1614	4.63E+04	7.9671	103.741	7.017	0.787	-0.06	25.511	0.00E+00
10/12/2019	8:45:48 AM	7.062	17.9247	35.3308	0.5881	4.76E-02	0.511	4.62E+04	7.9966	104.454	7.164	-0.434	0.32	25.5448	0.00E+00
10/12/2019	8:45:48 AM	7.178	17.9232	35.3311	0.6278	4.76E-02	0.4753	4.62E+04	7.9979	104.458	7.236	-0.514	0.29	25.5454	0.00E+00
10/12/2019	8:44:34 AM	7.258	18.0012	35.3171	0.4553	4.76E-02	0.1769	4.63E+04	7.9599	103.649	7.238	0.781	-0.02	25.5117	0.00E+00
10/12/2019	8:45:47 AM	7.293	17.9217	35.3317	0.6232	4.76E-02	0.4846	4.62E+04	7.9965	104.431	7.319	-0.587	0.27	25.5464	0.00E+00
10/12/2019	8:45:47 AM	7.41	17.92	35.3322	0.6201	4.76E-02	0.4846	4.62E+04	7.9949	104.398	7.372	-0.655	0.2	25.5473	0.00E+00
10/12/2019	8:44:34 AM	7.476	17.9938	35.316	0.4546	4.76E-02	0.1831	4.63E+04	7.9511	103.538	7.468	0.787	0.03	25.5123	0.00E+00
10/12/2019	8:45:47 AM	7.531	17.9181	35.3324	0.6239	4.76E-02	0.4737	4.62E+04	7.995	104.389	7.426	-0.704	0.05	25.5479	0.00E+00
10/12/2019	8:45:47 AM	7.661	17.916	35.3323	0.7063	4.76E-02	0.5017	4.62E+04	7.9924	104.342	7.538	-0.717	-0.03	25.5484	0.00E+00
10/12/2019	8:44:34 AM	7.696	17.9854	35.3147	0.4553	4.76E-02	0.1816	4.63E+04	7.9429	103.438	7.704	0.809	0.09	25.5129	0.00E+00
10/12/2019	8:45:47 AM	7.8	17.9138	35.3326	0.7086	4.76E-02	0.5079	4.62E+04	7.9916	104.322	7.712	-0.71	-0.04	25.5493	0.00E+00
10/12/2019	8:44:34 AM	7.918	17.9761	35.3135	0.4561	4.76E-02	0.1862	4.63E+04	7.9381	103.383	7.959	0.845	0.15	25.5137	0.00E+00
10/12/2019	8:45:46 AM	7.948	17.9116	35.3333	0.7063	4.76E-02	0.4971	4.62E+04	7.9914	104.313	7.886	-0.7	-0.05	25.5505	0.00E+00
10/12/2019	8:45:46 AM	8.102	17.9092	35.334	0.7094	4.76E-02	0.5017	4.62E+04	7.9903	104.287	8.067	-0.687	-0.04	25.5517	0.00E+00
10/12/2019	8:44:34 AM	8.14	17.9667	35.3129	0.4599	4.76E-02	0.1893	4.63E+04	7.9309	103.281	8.215	0.888	0.17	25.5153	0.00E+00
10/12/2019	8:45:46 AM	8.261	17.9063	35.3345	0.8002	4.76E-02	0.4784	4.62E+04	7.9879	104.246	8.275	-0.676	-0.02	25.5529	0.00E+00
10/12/2019	8:44:35 AM	8.36	17.958	35.3135	0.4912	4.76E-02	0.3059	4.62E+04	7.9288	103.242	8.486	0.933	0.18	25.5181	0.00E+00
10/12/2019	8:45:46 AM	8.423	17.9031	35.3353	0.8025	4.76E-02	0.4737	4.62E+04	7.9819	104.144	8.437	-0.672	-0.05	25.5546	0.00E+00
10/12/2019	8:44:35 AM	8.576	17.9502	35.3154	0.4919	4.76E-02	0.3121	4.62E+04	7.9252	103.18	8.729	0.967	0.14	25.5219	0.00E+00
10/12/2019	8:45:45 AM	8.586	17.8997	35.3369	0.8002	4.76E-02	0.4784	4.62E+04	7.9838	104.15	8.612	-0.659	-0.07	25.5569	0.00E+00
10/12/2019	8:45:45 AM	8.751	17.8958	35.3385	0.8025	4.76E-02	0.4815	4.62E+04	7.9899	104.207	8.8	-0.642	0	25.5594	0.00E+00

10/12/2019	8:44:35 AM	8.785	17.9431	35.3177	0.4912	4.76E-02	0.3121	4.62E+04	7.921	103.108	8.959	0.986	0.07	25.5258	0.00E+00
10/12/2019	8:45:45 AM	8.916	17.8912	35.339	0.8032	4.76E-02	0.4846	4.62E+04	7.9933	104.231	8.956	-0.643	0.05	25.5611	0.00E+00
10/12/2019	8:44:36 AM	8.987	17.9358	35.319	0.4958	4.76E-02	0.3059	4.62E+04	7.9219	103.096	9.176	0.987	0	25.5287	0.00E+00
10/12/2019	8:45:44 AM	9.082	17.886	35.3387	0.9001	4.76E-02	0.4753	4.62E+04	7.9947	104.235	9.121	-0.655	0.07	25.5621	0.00E+00
10/12/2019	8:44:36 AM	9.18	17.9282	35.3195	0.6125	4.76E-02	0.5033	4.62E+04	7.9214	103.074	9.389	0.974	-0.05	25.5308	0.00E+00
10/12/2019	8:45:44 AM	9.248	17.8808	35.3383	0.9024	4.76E-02	0.48	4.62E+04	7.9968	104.246	9.29	-0.672	0.12	25.5629	0.00E+00
10/12/2019	8:44:36 AM	9.362	17.9202	35.3197	0.614	4.76E-02	0.5126	4.62E+04	7.9244	103.1	9.596	0.95	-0.1	25.5328	0.00E+00
10/12/2019	8:45:44 AM	9.415	17.876	35.3379	0.9017	4.76E-02	0.48	4.62E+04	8.0044	104.343	9.454	-0.701	0.12	25.5636	0.00E+00
10/12/2019	8:44:36 AM	9.534	17.9117	35.3196	0.6125	4.76E-02	0.5002	4.62E+04	7.9299	103.156	9.762	0.907	-0.17	25.5346	0.00E+00
10/12/2019	8:45:44 AM	9.582	17.8715	35.3376	0.9009	4.76E-02	0.4831	4.62E+04	8.0074	104.379	9.63	-0.731	0.16	25.5643	0.00E+00
10/12/2019	8:44:36 AM	9.696	17.9034	35.3198	0.6102	4.76E-02	0.5064	4.62E+04	7.9404	103.273	9.894	0.847	-0.24	25.5367	0.00E+00
10/12/2019	8:45:44 AM	9.751	17.8675	35.338	0.984	4.76E-02	0.3836	4.62E+04	8.0099	104.409	9.782	-0.77	0.13	25.5655	0.00E+00
10/12/2019	8:44:37 AM	9.849	17.8956	35.3212	0.7315	4.76E-02	0.5841	4.62E+04	7.9485	103.334	9.993	0.77	-0.31	25.5399	0.00E+00
10/12/2019	8:45:43 AM	9.921	17.8637	35.3389	0.981	4.76E-02	0.3805	4.62E+04	8.0071	104.372	9.926	-0.802	0.06	25.5673	0.00E+00
10/12/2019	8:44:37 AM	9.996	17.888	35.3229	0.7361	4.76E-02	0.5841	4.62E+04	7.9578	103.402	10.078	0.687	-0.33	25.5432	0.00E+00
10/12/2019	8:45:43 AM	10.094	17.8599	35.34	0.9802	4.76E-02	0.3821	4.62E+04	8.0042	104.333	10.065	-0.817	-0.03	25.5692	0.00E+00
10/12/2019	8:44:37 AM	10.142	17.8808	35.3237	0.7346	4.76E-02	0.5841	4.62E+04	7.9527	103.299	10.18	0.607	-0.32	25.5457	0.00E+00
10/12/2019	8:45:43 AM	10.271	17.8557	35.3409	0.981	4.76E-02	0.3789	4.61E+04	7.9982	104.253	10.259	-0.809	-0.09	25.5712	0.00E+00
10/12/2019	8:44:38 AM	10.288	17.875	35.3252	0.7338	4.76E-02	0.581	4.62E+04	7.9486	103.202	10.29	0.535	-0.29	25.5488	0.00E+00
10/12/2019	8:44:38 AM	10.438	17.8711	35.3284	0.8086	4.76E-02	0.4069	4.62E+04	7.9502	103.158	10.405	0.478	-0.23	25.553	0.00E+00
10/12/2019	8:45:42 AM	10.453	17.851	35.3421	1.0046	4.76E-02	0.3339	4.61E+04	7.9899	104.141	10.47	-0.786	-0.11	25.5735	0.00E+00
10/12/2019	8:44:38 AM	10.594	17.8688	35.3321	0.8292	4.76E-02	0.4007	4.62E+04	7.9604	103.144	10.538	0.445	-0.13	25.5572	0.00E+00
10/12/2019	8:45:42 AM	10.638	17.8459	35.3436	1.0046	4.76E-02	0.3354	4.61E+04	7.9771	103.97	10.661	-0.758	-0.16	25.5762	0.00E+00
10/12/2019	8:44:38 AM	10.756	17.8678	35.3351	0.8254	4.76E-02	0.4007	4.62E+04	7.9641	103.011	10.687	0.444	0	25.5605	0.00E+00
10/12/2019	8:45:42 AM	10.824	17.8402	35.3456	1.0046	4.76E-02	0.3246	4.61E+04	7.969	103.86	10.882	-0.718	-0.12	25.5795	0.00E+00
10/12/2019	8:44:38 AM	10.927	17.8674	35.3371	0.8284	4.76E-02	0.4038	4.62E+04	7.9691	102.877	10.845	0.468	0.1	25.5627	0.00E+00
10/12/2019	8:45:42 AM	11.011	17.8338	35.3473	1.0016	4.76E-02	0.3277	4.61E+04	7.9605	103.745	11.078	-0.688	-0.08	25.5827	0.00E+00
10/12/2019	8:44:39 AM	11.106	17.8668	35.338	0.8261	4.76E-02	0.4116	4.62E+04	7.9707	102.736	11.018	0.51	0.17	25.5636	0.00E+00
10/12/2019	8:45:42 AM	11.197	17.8265	35.3488	1.0642	4.76E-02	0.1505	4.61E+04	7.955	103.67	11.297	-0.668	-0.01	25.586	0.00E+00
10/12/2019	8:44:39 AM	11.294	17.8649	35.3373	0.9451	4.76E-02	0.3028	4.62E+04	7.9706	102.615	11.209	0.562	0.21	25.5632	0.00E+00
10/12/2019	8:45:41 AM	11.381	17.8187	35.351	1.0657	4.76E-02	0.1552	4.61E+04	7.9481	103.576	11.496	-0.666	0	25.5902	0.00E+00
10/12/2019	8:44:39 AM	11.492	17.8608	35.3347	0.9444	4.76E-02	0.3028	4.62E+04	7.9704	102.514	11.412	0.614	0.21	25.5613	0.00E+00
10/12/2019	8:45:41 AM	11.562	17.8101	35.3544	1.0672	4.76E-02	0.1614	4.61E+04	7.9419	103.488	11.683	-0.665	-0.02	25.5956	0.00E+00
10/12/2019	8:44:39 AM	11.699	17.8548	35.3309	0.9436	4.76E-02	0.309	4.62E+04	7.9741	102.472	11.639	0.673	0.23	25.5589	0.00E+00
10/12/2019	8:45:41 AM	11.74	17.8003	35.3583	1.0649	4.76E-02	0.1614	4.61E+04	7.9416	103.479	11.864	-0.66	0.01	25.6019	0.00E+00
10/12/2019	8:44:40 AM	11.913	17.8473	35.3278	0.9467	4.76E-02	0.3075	4.61E+04	7.9737	102.383	11.87	0.732	0.24	25.5575	0.00E+00
10/12/2019	8:45:40 AM	11.914	17.7888	35.3628	1.0657	4.76E-02	0.1614	4.61E+04	7.9435	103.498	12.012	-0.663	0.03	25.6092	0.00E+00
10/12/2019	8:45:40 AM	12.086	17.7754	35.3687	1.1748	4.76E-02	0.1552	4.61E+04	7.945	103.511	12.168	-0.67	0.09	25.6184	0.00E+00
10/12/2019	8:44:40 AM	12.134	17.8384	35.3256	0.9665	4.76E-02	0.3323	4.61E+04	7.9655	102.213	12.086	0.782	0.2	25.5573	0.00E+00
10/12/2019	8:45:40 AM	12.258	17.7595	35.3747	1.1771	4.76E-02	0.1583	4.61E+04	7.9482	103.54	12.308	-0.693	0.08	25.6283	0.00E+00
10/12/2019	8:44:40 AM	12.362	17.8287	35.3237	0.9688	4.76E-02	0.3246	4.61E+04	7.952	101.967	12.309	0.823	0.17	25.5577	0.00E+00
10/12/2019	8:45:40 AM	12.43	17.7405	35.3794	1.1786	4.76E-02	0.1598	4.60E+04	7.9508	103.561	12.482	-0.714	0.04	25.6379	0.00E+00
10/12/2019	8:44:41 AM	12.598	17.8185	35.3227	0.9734	4.76E-02	0.3292	4.61E+04	7.9417	101.752	12.576	0.868	0.18	25.5591	0.00E+00
10/12/2019	8:45:40 AM	12.603	17.7185	35.3842	1.1748	4.76E-02	0.1598	4.60E+04	7.9531	103.577	12.675	-0.723	0.03	25.6482	0.00E+00
10/12/2019	8:45:39 AM	12.775	17.694	35.3909	1.2869	4.76E-02	0.1893	4.60E+04	7.9559	103.607	12.866	-0.73	0.01	25.6609	0.00E+00
10/12/2019	8:44:41 AM	12.839	17.8071	35.3223	0.9703	4.76E-02	0.3261	4.61E+04	7.9282	101.506	12.838	0.908	0.16	25.5611	0.00E+00
10/12/2019	8:45:39 AM	12.947	17.6667	35.3998	1.2869	4.76E-02	0.1831	4.60E+04	7.9572	103.614	13.015	-0.733	-0.02	25.6766	0.00E+00
10/12/2019	8:44:41 AM	13.085	17.793	35.3202	1.1138	4.76E-02	0.2313	4.61E+04	7.9028	101.13	13.081	0.939	0.12	25.562	0.00E+00
10/12/2019	8:45:39 AM	13.12	17.6356	35.4102	1.2847	4.76E-02	0.1847	4.59E+04	7.9524	103.548	13.145	-0.727	-0.06	25.6946	0.00E+00
10/12/2019	8:45:39 AM	13.296	17.5995	35.4212	1.2854	4.76E-02	0.1816	4.59E+04	7.9496	103.506	13.317	-0.712	-0.04	25.7144	0.00E+00
10/12/2019	8:44:41 AM	13.336	17.7748	35.3152	1.1153	4.76E-02	0.2344	4.61E+04	7.8811	100.823	13.343	0.965	0.11	25.561	0.00E+00

10/12/2019	8:45:38 AM	13.474	17.5581	35.4311	1.5936	4.76E-02	0.18	4.59E+04	7.9476	103.475	13.506	-0.702	0.02	25.7345	0.00E+00
10/12/2019	8:44:41 AM	13.591	17.7519	35.3078	1.116	4.76E-02	0.2391	4.61E+04	7.8608	100.534	13.616	0.99	0.1	25.5588	0.00E+00
10/12/2019	8:45:38 AM	13.654	17.5114	35.4407	1.5914	4.76E-02	0.1893	4.58E+04	7.9464	103.451	13.748	-0.707	0.09	25.7555	0.00E+00
10/12/2019	8:45:38 AM	13.833	17.4597	35.4502	1.5914	4.76E-02	0.1878	4.58E+04	7.9478	103.459	13.959	-0.73	0.1	25.7773	0.00E+00
10/12/2019	8:44:42 AM	13.849	17.7246	35.2997	1.1153	4.76E-02	0.2298	4.60E+04	7.8482	100.331	13.883	1.014	0.1	25.557	0.00E+00
10/12/2019	8:45:37 AM	14.011	17.4036	35.4573	1.5906	4.76E-02	0.1769	4.57E+04	7.9525	103.511	14.11	-0.754	0	25.7981	0.00E+00
10/12/2019	8:44:42 AM	14.109	17.6924	35.2928	1.1756	4.76E-02	0.2515	4.60E+04	7.8422	100.205	14.169	1.042	0.11	25.5573	0.00E+00
10/12/2019	8:45:37 AM	14.187	17.3434	35.4618	1.8904	4.76E-02	0.3043	4.57E+04	7.9559	103.544	14.266	-0.754	-0.02	25.8171	0.00E+00
10/12/2019	8:45:37 AM	14.363	17.2801	35.4612	1.8881	4.76E-02	0.309	4.56E+04	7.9628	103.621	14.413	-0.75	-0.06	25.8317	0.00E+00
10/12/2019	8:44:42 AM	14.371	17.6522	35.2848	1.2389	4.76E-02	0.2562	4.60E+04	7.838	100.102	14.462	1.068	0.1	25.5579	0.00E+00
10/12/2019	8:45:37 AM	14.54	17.2153	35.454	1.892	4.76E-02	0.2997	4.55E+04	7.9826	103.865	14.579	-0.735	-0.09	25.84	0.00E+00
10/12/2019	8:44:43 AM	14.632	17.6004	35.2708	1.2366	4.76E-02	0.2531	4.59E+04	7.8429	100.119	14.744	1.084	0.06	25.555	0.00E+00
10/12/2019	8:45:37 AM	14.72	17.1526	35.4417	1.8912	4.76E-02	0.309	4.55E+04	7.9876	103.914	14.773	-0.713	-0.13	25.8425	0.00E+00
10/12/2019	8:44:43 AM	14.891	17.5361	35.2495	1.2358	4.76E-02	0.2562	4.58E+04	7.8571	100.257	15.011	1.098	0.06	25.5484	0.00E+00
10/12/2019	8:45:36 AM	14.901	17.0951	35.4265	1.8935	4.76E-02	0.3152	4.54E+04	8.0031	104.104	14.984	-0.682	-0.11	25.8408	0.00E+00
10/12/2019	8:45:36 AM	15.082	17.045	35.4117	2.0064	4.76E-02	0.4737	4.53E+04	8.0141	104.226	15.22	-0.653	-0.01	25.8373	0.00E+00
10/12/2019	8:44:43 AM	15.148	17.4638	35.2276	1.2358	4.76E-02	0.2624	4.58E+04	7.8775	100.476	15.293	1.112	0.06	25.5442	0.00E+00
10/12/2019	8:45:36 AM	15.26	17.0035	35.3993	2.011	4.76E-02	0.4769	4.53E+04	8.0271	104.379	15.414	-0.651	0.04	25.834	0.00E+00
10/12/2019	8:44:43 AM	15.401	17.3909	35.2161	1.396	4.76E-02	0.1754	4.57E+04	7.8991	100.721	15.578	1.12	0.03	25.551	0.00E+00
10/12/2019	8:45:35 AM	15.435	16.9705	35.3907	2.0117	4.76E-02	0.4831	4.53E+04	8.037	104.477	15.571	-0.66	0.04	25.8325	0.00E+00
10/12/2019	8:45:35 AM	15.607	16.9444	35.3851	2.0087	4.76E-02	0.48	4.53E+04	8.0409	104.5	15.697	-0.67	-0.03	25.8326	0.00E+00
10/12/2019	8:44:43 AM	15.648	17.3238	35.2194	1.3945	4.76E-02	0.18	4.56E+04	7.9159	100.902	15.861	1.124	0.02	25.5711	0.00E+00
10/12/2019	8:45:35 AM	15.777	16.923	35.3812	2.1575	4.76E-02	0.4287	4.52E+04	8.0477	104.551	15.88	-0.663	-0.01	25.8333	0.00E+00
10/12/2019	8:44:44 AM	15.887	17.2644	35.233	1.3945	4.76E-02	0.1878	4.56E+04	7.9227	100.955	16.144	1.127	0.01	25.5992	0.00E+00
10/12/2019	8:45:35 AM	15.947	16.9047	35.3785	2.1582	4.76E-02	0.4302	4.52E+04	8.044	104.447	16.061	-0.662	0.01	25.8347	0.00E+00
10/12/2019	8:44:44 AM	16.116	17.2116	35.2489	1.3976	4.76E-02	0.18	4.55E+04	7.92	100.892	16.412	1.121	-0.02	25.6276	0.00E+00
10/12/2019	8:45:35 AM	16.116	16.8887	35.3778	2.1529	4.76E-02	0.4333	4.52E+04	8.0422	104.382	16.239	-0.664	0.04	25.8376	0.00E+00
10/12/2019	8:45:34 AM	16.282	16.8741	35.3786	2.1552	4.76E-02	0.4271	4.52E+04	8.0263	104.124	16.375	-0.675	0	25.8415	0.00E+00
10/12/2019	8:44:44 AM	16.332	17.1638	35.2615	1.8195	4.76E-02	0.3043	4.55E+04	7.9081	100.714	16.649	1.106	-0.06	25.6516	0.00E+00
10/12/2019	8:45:34 AM	16.449	16.86	35.3792	2.1208	4.76E-02	0.3059	4.52E+04	8.0032	103.77	16.524	-0.674	-0.03	25.8454	0.00E+00
10/12/2019	8:44:45 AM	16.535	17.1206	35.2715	1.818	4.76E-02	0.3106	4.54E+04	7.891	100.457	16.842	1.074	-0.13	25.672	0.00E+00
10/12/2019	8:45:34 AM	16.616	16.8459	35.3801	2.1208	4.76E-02	0.3059	4.52E+04	7.9741	103.314	16.711	-0.666	-0.01	25.8496	0.00E+00
10/12/2019	8:44:45 AM	16.725	17.0811	35.2805	1.821	4.76E-02	0.3075	4.54E+04	7.8567	99.983	16.967	1.011	-0.25	25.6903	0.00E+00
10/12/2019	8:45:33 AM	16.783	16.8316	35.3817	2.1201	4.76E-02	0.3075	4.51E+04	7.9387	102.776	16.884	-0.663	-0.02	25.8545	0.00E+00
10/12/2019	8:44:45 AM	16.907	17.0436	35.2873	1.8187	4.76E-02	0.2966	4.54E+04	7.8327	99.642	17.078	0.918	-0.37	25.7059	0.00E+00
10/12/2019	8:45:33 AM	16.949	16.8169	35.3841	2.1208	4.76E-02	0.2997	4.51E+04	7.9037	102.222	17.061	-0.659	0	25.8602	0.00E+00
10/12/2019	8:44:45 AM	17.082	17.0082	35.291	2.0087	4.76E-02	0.3572	4.53E+04	7.7968	99.165	17.264	0.832	-0.35	25.7183	0.00E+00
10/12/2019	8:45:33 AM	17.115	16.8015	35.3866	2.2513	4.76E-02	0.2857	4.51E+04	7.8646	101.604	17.211	-0.659	-0.03	25.8662	0.00E+00
10/12/2019	8:44:46 AM	17.252	16.9767	35.2957	2.014	4.76E-02	0.3603	4.53E+04	7.7666	98.77	17.404	0.746	-0.34	25.7308	0.00E+00
10/12/2019	8:45:33 AM	17.28	16.7851	35.3884	2.2528	4.76E-02	0.281	4.51E+04	7.8383	101.165	17.381	-0.651	-0.01	25.8719	0.00E+00
10/12/2019	8:44:46 AM	17.42	16.9501	35.3043	2.0148	4.76E-02	0.351	4.53E+04	7.7377	98.4	17.462	0.648	-0.39	25.7459	0.00E+00
10/12/2019	8:45:32 AM	17.445	16.7675	35.3891	2.2513	4.76E-02	0.2764	4.51E+04	7.8166	100.743	17.544	-0.649	-0.01	25.8767	0.00E+00
10/12/2019	8:44:46 AM	17.59	16.9268	35.3138	2.0102	4.76E-02	0.3494	4.52E+04	7.7068	98.006	17.567	0.565	-0.33	25.7607	0.00E+00
10/12/2019	8:45:32 AM	17.61	16.7493	35.3882	2.2551	4.76E-02	0.2733	4.51E+04	7.7993	100.386	17.723	-0.646	0.01	25.8801	0.00E+00
10/12/2019	8:44:46 AM	17.767	16.9043	35.3195	2.072	4.76E-02	0.3821	4.52E+04	7.6827	97.699	17.784	0.536	-0.12	25.7714	0.00E+00
10/12/2019	8:45:32 AM	17.774	16.7312	35.3844	2.2513	4.76E-02	0.2841	4.50E+04	7.7986	100.226	17.883	-0.648	-0.01	25.8806	0.00E+00
10/12/2019	8:45:32 AM	17.937	16.7141	35.3784	2.2734	4.76E-02	0.281	4.50E+04	7.8036	100.159	18.045	-0.647	0	25.8787	0.00E+00
10/12/2019	8:44:46 AM	17.949	16.8812	35.3206	2.1819	4.76E-02	0.3758	4.52E+04	7.6648	97.47	18.004	0.552	0.06	25.7778	0.00E+00
10/12/2019	8:45:32 AM	18.1	16.6996	35.3734	2.2757	4.76E-02	0.281	4.50E+04	7.8122	100.153	18.213	-0.647	0.02	25.8769	0.00E+00
10/12/2019	8:44:47 AM	18.133	16.8577	35.3195	2.1804	4.76E-02	0.3727	4.52E+04	7.6496	97.275	18.209	0.596	0.18	25.7823	0.00E+00
10/12/2019	8:45:31 AM	18.262	16.6883	35.3704	2.278	4.76E-02	0.2826	4.50E+04	7.8252	100.213	18.366	-0.652	0	25.8762	0.00E+00

10/12/2019	8:44:47 AM	18.32	16.8346	35.3194	2.1811	4.76E-02	0.3852	4.52E+04	7.6342	97.079	18.416	0.647	0.2	25.7876	0.00E+00
10/12/2019	8:45:31 AM	18.424	16.6797	35.3689	2.2727	4.76E-02	0.2841	4.50E+04	7.8294	100.215	18.53	-0.652	0	25.8765	0.00E+00
10/12/2019	8:44:47 AM	18.506	16.8124	35.3208	2.1811	4.76E-02	0.3821	4.51E+04	7.6351	97.093	18.621	0.693	0.18	25.7944	0.00E+00
10/12/2019	8:45:31 AM	18.586	16.6726	35.3683	2.3818	4.76E-02	0.4023	4.50E+04	7.8386	100.28	18.68	-0.651	-0.03	25.8775	0.00E+00
10/12/2019	8:44:48 AM	18.692	16.7914	35.323	2.2544	4.76E-02	0.3028	4.51E+04	7.636	97.106	18.819	0.751	0.23	25.8015	0.00E+00
10/12/2019	8:45:30 AM	18.748	16.6663	35.3682	2.3864	4.76E-02	0.4007	4.50E+04	7.8445	100.332	18.857	-0.644	0	25.8788	0.00E+00
10/12/2019	8:44:48 AM	18.877	16.7719	35.3257	2.2544	4.76E-02	0.3012	4.51E+04	7.6483	97.261	18.999	0.799	0.19	25.8088	0.00E+00
10/12/2019	8:45:30 AM	18.909	16.6603	35.3688	2.3825	4.76E-02	0.41	4.50E+04	7.8387	100.223	19.02	-0.645	-0.01	25.8807	0.00E+00
10/12/2019	8:44:48 AM	19.061	16.7537	35.3288	2.2544	4.76E-02	0.3121	4.51E+04	7.6549	97.343	19.181	0.81	0.04	25.8162	0.00E+00
10/12/2019	8:45:30 AM	19.071	16.6543	35.3701	2.3841	4.76E-02	0.4054	4.50E+04	7.8283	100.067	19.183	-0.642	0	25.8833	0.00E+00
10/12/2019	8:45:30 AM	19.232	16.648	35.371	2.1804	4.76E-02	0.2857	4.50E+04	7.8122	99.835	19.335	-0.641	-0.01	25.8857	0.00E+00
10/12/2019	8:44:48 AM	19.244	16.7363	35.3314	2.2544	4.76E-02	0.3043	4.51E+04	7.6689	97.517	19.37	0.791	-0.08	25.8228	0.00E+00
10/12/2019	8:45:30 AM	19.394	16.6412	35.3707	2.1826	4.76E-02	0.2841	4.50E+04	7.7932	99.57	19.499	-0.638	-0.03	25.8871	0.00E+00
10/12/2019	8:44:48 AM	19.425	16.7194	35.3327	2.4787	4.76E-02	0.2515	4.50E+04	7.6779	97.629	19.545	0.771	-0.08	25.8281	0.00E+00
10/12/2019	8:45:29 AM	19.555	16.634	35.3696	2.1796	4.76E-02	0.2904	4.49E+04	7.7679	99.229	19.674	-0.631	0.02	25.8878	0.00E+00
10/12/2019	8:44:49 AM	19.607	16.7032	35.3338	2.4756	4.76E-02	0.2593	4.50E+04	7.684	97.704	19.701	0.748	-0.09	25.8331	0.00E+00
10/12/2019	8:45:29 AM	19.716	16.6272	35.3688	2.1788	4.76E-02	0.281	4.49E+04	7.7417	98.861	19.829	-0.637	0.05	25.8885	0.00E+00
10/12/2019	8:44:49 AM	19.789	16.6873	35.3352	2.4787	4.76E-02	0.2593	4.50E+04	7.6895	97.771	19.868	0.725	-0.09	25.8381	0.00E+00
10/12/2019	8:45:29 AM	19.877	16.6209	35.3686	2.2757	4.76E-02	0.3043	4.49E+04	7.7159	98.512	19.986	-0.649	0.07	25.8897	0.00E+00
10/12/2019	8:44:49 AM	19.972	16.6713	35.3354	2.4756	4.76E-02	0.2515	4.50E+04	7.6947	97.833	20.08	0.717	-0.03	25.8421	0.00E+00
10/12/2019	8:45:28 AM	20.038	16.6151	35.3683	2.2742	4.76E-02	0.3075	4.49E+04	7.6973	98.244	20.14	-0.667	0.06	25.8907	0.00E+00
10/12/2019	8:44:50 AM	20.155	16.6563	35.3354	2.3482	4.76E-02	0.309	4.50E+04	7.6973	97.857	20.321	0.73	0.05	25.8459	0.00E+00
10/12/2019	8:45:28 AM	20.2	16.6094	35.3678	2.2773	4.76E-02	0.3059	4.49E+04	7.685	98.066	20.313	-0.681	0.08	25.8915	0.00E+00
10/12/2019	8:44:50 AM	20.335	16.6437	35.3381	2.3497	4.76E-02	0.309	4.50E+04	7.7013	97.882	20.543	0.756	0.1	25.8517	0.00E+00
10/12/2019	8:45:28 AM	20.361	16.6039	35.3671	2.2773	4.76E-02	0.3106	4.49E+04	7.6793	97.954	20.459	-0.701	0.03	25.8922	0.00E+00
10/12/2019	8:44:50 AM	20.51	16.6343	35.3436	2.3505	4.76E-02	0.309	4.50E+04	7.7031	97.86	20.729	0.776	0.08	25.8595	0.00E+00
10/12/2019	8:45:28 AM	20.524	16.5988	35.3666	2.278	4.76E-02	0.3059	4.49E+04	7.6781	97.906	20.624	-0.709	0.01	25.8928	0.00E+00
10/12/2019	8:44:50 AM	20.678	16.628	35.3501	2.3505	4.76E-02	0.3043	4.50E+04	7.6988	97.763	20.903	0.788	0.05	25.8674	0.00E+00
10/12/2019	8:45:28 AM	20.687	16.5941	35.3667	2.2383	4.76E-02	0.3619	4.49E+04	7.6727	97.793	20.783	-0.71	-0.04	25.8939	0.00E+00
10/12/2019	8:44:50 AM	20.839	16.6241	35.3558	2.3497	4.76E-02	0.2313	4.49E+04	7.6985	97.721	21.052	0.788	0	25.874	0.00E+00
10/12/2019	8:45:27 AM	20.853	16.5897	35.3671	2.2406	4.76E-02	0.351	4.49E+04	7.6639	97.642	20.926	-0.7	-0.09	25.8953	0.00E+00
10/12/2019	8:44:51 AM	20.995	16.6216	35.3598	2.6473	4.76E-02	0.2344	4.49E+04	7.6868	97.542	21.162	0.764	-0.1	25.8786	0.00E+00
10/12/2019	8:45:27 AM	21.02	16.5853	35.3672	2.2414	4.76E-02	0.3541	4.49E+04	7.6521	97.453	21.112	-0.678	-0.08	25.8964	0.00E+00
10/12/2019	8:44:51 AM	21.149	16.62	35.362	2.6488	4.76E-02	0.2313	4.49E+04	7.6645	97.237	21.232	0.702	-0.25	25.8812	0.00E+00
10/12/2019	8:45:27 AM	21.188	16.5808	35.3671	2.2383	4.76E-02	0.3603	4.49E+04	7.6394	97.261	21.301	-0.659	-0.05	25.8974	0.00E+00
10/12/2019	8:44:51 AM	21.305	16.619	35.3631	2.6458	4.76E-02	0.2282	4.49E+04	7.6361	96.858	21.284	0.607	-0.38	25.8826	0.00E+00
10/12/2019	8:45:26 AM	21.357	16.5763	35.3669	2.2261	4.76E-02	0.3821	4.49E+04	7.6213	97.022	21.496	-0.648	-0.02	25.8982	0.00E+00
10/12/2019	8:44:52 AM	21.469	16.6183	35.3637	2.6458	4.76E-02	0.2282	4.49E+04	7.5975	96.352	21.374	0.513	-0.38	25.8835	0.00E+00
10/12/2019	8:45:26 AM	21.525	16.5718	35.3666	2.2307	4.76E-02	0.3758	4.49E+04	7.6072	96.833	21.669	-0.644	-0.05	25.899	0.00E+00
10/12/2019	8:44:52 AM	21.646	16.618	35.3642	2.4916	4.76E-02	0.2033	4.49E+04	7.5596	95.848	21.556	0.462	-0.21	25.8841	0.00E+00
10/12/2019	8:45:26 AM	21.691	16.5675	35.3664	2.2307	4.76E-02	0.3789	4.49E+04	7.5974	96.703	21.852	-0.632	-0.05	25.8997	0.00E+00
10/12/2019	8:44:52 AM	21.835	16.6178	35.3646	2.4878	4.76E-02	0.2049	4.49E+04	7.5159	95.269	21.784	0.463	0	25.8845	0.00E+00
10/12/2019	8:45:26 AM	21.856	16.5634	35.3666	2.2292	4.76E-02	0.3821	4.49E+04	7.5924	96.627	22.012	-0.62	-0.05	25.9008	0.00E+00
10/12/2019	8:45:25 AM	22.018	16.5594	35.3672	2.397	4.76E-02	0.1831	4.49E+04	7.5894	96.584	22.17	-0.608	-0.02	25.9023	0.00E+00
10/12/2019	8:44:52 AM	22.034	16.6174	35.3646	2.4916	4.76E-02	0.2049	4.49E+04	7.4739	94.711	22.025	0.508	0.18	25.8846	0.00E+00
10/12/2019	8:45:25 AM	22.178	16.5553	35.3681	2.3955	4.76E-02	0.1769	4.49E+04	7.5881	96.554	22.314	-0.602	-0.01	25.9042	0.00E+00
10/12/2019	8:44:53 AM	22.242	16.6164	35.3638	2.4901	4.76E-02	0.2096	4.49E+04	7.4357	94.204	22.266	0.588	0.32	25.8841	0.00E+00
10/12/2019	8:45:25 AM	22.338	16.5509	35.3693	2.397	4.76E-02	0.18	4.49E+04	7.5883	96.548	22.473	-0.599	0	25.9064	0.00E+00
10/12/2019	8:44:53 AM	22.456	16.6148	35.3627	2.5969	4.76E-02	0.2779	4.49E+04	7.4014	93.753	22.527	0.697	0.44	25.8833	0.00E+00
10/12/2019	8:45:25 AM	22.497	16.546	35.3705	2.3986	4.76E-02	0.1831	4.49E+04	7.5859	96.501	22.639	-0.599	0.04	25.9087	0.00E+00
10/12/2019	8:45:25 AM	22.654	16.5405	35.3714	2.336	4.76E-02	0.1847	4.49E+04	7.5825	96.44	22.812	-0.608	0.07	25.9109	0.00E+00

10/12/2019	8:44:53 AM	22.674	16.6128	35.3615	2.5985	4.76E-02	0.2826	4.49E+04	7.3731	93.38	22.783	0.813	0.46	25.8827	0.00E+00
10/12/2019	8:45:24 AM	22.81	16.5345	35.3724	2.336	4.76E-02	0.1847	4.49E+04	7.5824	96.426	22.975	-0.625	0.12	25.9134	0.00E+00
10/12/2019	8:44:53 AM	22.893	16.6102	35.3606	2.6	4.76E-02	0.2795	4.49E+04	7.3469	93.036	23.005	0.902	0.36	25.8823	0.00E+00
10/12/2019	8:45:24 AM	22.964	16.528	35.3742	2.336	4.76E-02	0.1862	4.48E+04	7.5767	96.343	23.096	-0.655	0.08	25.9166	0.00E+00
10/12/2019	8:44:53 AM	23.114	16.6068	35.3596	2.5985	4.76E-02	0.2795	4.49E+04	7.3253	92.748	23.188	0.94	0.15	25.882	0.00E+00
10/12/2019	8:45:24 AM	23.118	16.521	35.3765	2.336	4.76E-02	0.1816	4.48E+04	7.5758	96.325	23.229	-0.675	0.04	25.9205	0.00E+00
10/12/2019	8:45:23 AM	23.273	16.513	35.3788	2.3383	4.76E-02	0.1862	4.48E+04	7.578	96.339	23.369	-0.686	-0.03	25.9247	0.00E+00
10/12/2019	8:44:54 AM	23.338	16.6022	35.358	2.5489	4.76E-02	0.3059	4.49E+04	7.3056	92.481	23.382	0.933	-0.03	25.8814	0.00E+00
10/12/2019	8:45:23 AM	23.429	16.5039	35.3808	2.1224	4.76E-02	0.2111	4.48E+04	7.5822	96.383	23.534	-0.679	-0.07	25.9288	0.00E+00
10/12/2019	8:44:54 AM	23.567	16.5954	35.3553	2.5481	4.76E-02	0.3121	4.49E+04	7.2938	92.309	23.62	0.916	-0.07	25.8801	0.00E+00
10/12/2019	8:45:23 AM	23.587	16.4936	35.3818	2.1186	4.76E-02	0.2002	4.48E+04	7.5823	96.374	23.707	-0.661	-0.11	25.9324	0.00E+00
10/12/2019	8:45:23 AM	23.746	16.4824	35.3823	2.1216	4.76E-02	0.2111	4.48E+04	7.5873	96.431	23.866	-0.634	-0.17	25.9354	0.00E+00
10/12/2019	8:44:54 AM	23.8	16.5855	35.3509	2.5512	4.76E-02	0.309	4.49E+04	7.2853	92.16	23.896	0.911	-0.02	25.8778	0.00E+00
10/12/2019	8:45:23 AM	23.906	16.4708	35.3822	2.1216	4.76E-02	0.2127	4.48E+04	7.5841	96.386	24.042	-0.593	-0.14	25.9381	0.00E+00
10/12/2019	8:44:55 AM	24.035	16.5718	35.3446	2.5504	4.76E-02	0.3075	4.49E+04	7.281	92.014	24.169	0.918	0.03	25.8745	0.00E+00
10/12/2019	8:45:22 AM	24.065	16.459	35.381	2.0117	4.76E-02	0.2313	4.48E+04	7.5782	96.301	24.206	-0.558	-0.1	25.9398	0.00E+00
10/12/2019	8:45:22 AM	24.224	16.4474	35.3792	2.0125	4.76E-02	0.2251	4.48E+04	7.5767	96.274	24.4	-0.533	-0.02	25.9406	0.00E+00
10/12/2019	8:44:55 AM	24.271	16.5554	35.3376	2.5489	4.76E-02	0.2919	4.49E+04	7.2799	91.88	24.447	0.937	0.08	25.8715	0.00E+00
10/12/2019	8:45:22 AM	24.381	16.4365	35.3771	2.014	4.76E-02	0.2313	4.48E+04	7.5709	96.189	24.568	-0.528	0.04	25.941	0.00E+00
10/12/2019	8:44:55 AM	24.504	16.5384	35.3333	2.3986	4.76E-02	0.2795	4.49E+04	7.2663	91.582	24.728	0.972	0.14	25.8713	0.00E+00
10/12/2019	8:45:21 AM	24.534	16.4268	35.3754	2.0117	4.76E-02	0.236	4.47E+04	7.5646	96.103	24.736	-0.538	0.09	25.9414	0.00E+00
10/12/2019	8:45:21 AM	24.684	16.4183	35.374	1.8325	4.76E-02	0.2266	4.47E+04	7.5617	96.056	24.87	-0.562	0.13	25.9419	0.00E+00
10/12/2019	8:44:55 AM	24.731	16.5224	35.3334	2.3993	4.76E-02	0.2795	4.48E+04	7.2611	91.404	24.988	1.016	0.17	25.8753	0.00E+00
10/12/2019	8:45:21 AM	24.83	16.4108	35.3726	1.8286	4.76E-02	0.2266	4.47E+04	7.5521	95.93	24.996	-0.594	0.14	25.9421	0.00E+00
10/12/2019	8:44:55 AM	24.952	16.5079	35.336	2.3963	4.76E-02	0.2748	4.48E+04	7.2279	90.892	25.217	1.047	0.13	25.8813	0.00E+00
10/12/2019	8:45:21 AM	24.975	16.4043	35.3726	1.8286	4.76E-02	0.2313	4.47E+04	7.5375	95.738	25.111	-0.629	0.13	25.9435	0.00E+00
10/12/2019	8:45:21 AM	25.121	16.3985	35.3747	1.8317	4.76E-02	0.2313	4.47E+04	7.5268	95.595	25.211	-0.662	0.05	25.9467	0.00E+00
10/12/2019	8:44:56 AM	25.166	16.4948	35.3392	2.3993	4.76E-02	0.2841	4.48E+04	7.1848	90.273	25.393	1.039	-0.03	25.8875	0.00E+00
10/12/2019	8:45:20 AM	25.269	16.3926	35.3775	1.9019	4.76E-02	0.2313	4.47E+04	7.5094	95.367	25.354	-0.674	0.03	25.9509	0.00E+00
10/12/2019	8:44:56 AM	25.374	16.4828	35.3422	2.336	4.76E-02	0.1862	4.48E+04	7.1221	89.427	25.559	0.992	-0.19	25.8932	0.00E+00
10/12/2019	8:45:20 AM	25.421	16.3854	35.3804	1.9049	4.76E-02	0.2375	4.47E+04	7.4838	95.032	25.509	-0.681	0	25.9555	0.00E+00
10/12/2019	8:45:20 AM	25.575	16.3768	35.3837	1.9042	4.76E-02	0.236	4.47E+04	7.4617	94.743	25.671	-0.682	0	25.9609	0.00E+00
10/12/2019	8:44:56 AM	25.58	16.4709	35.3441	2.336	4.76E-02	0.1862	4.48E+04	7.0521	88.511	25.728	0.925	-0.27	25.8977	0.00E+00
10/12/2019	8:45:19 AM	25.733	16.3666	35.3876	1.9042	4.76E-02	0.2344	4.47E+04	7.4362	94.404	25.836	-0.681	-0.03	25.9671	0.00E+00
10/12/2019	8:44:57 AM	25.785	16.4585	35.3442	2.3391	4.76E-02	0.1831	4.48E+04	6.9672	87.422	25.905	0.857	-0.27	25.9006	0.00E+00
10/12/2019	8:45:19 AM	25.893	16.3546	35.3919	1.9049	4.76E-02	0.2282	4.47E+04	7.4087	94.046	25.992	-0.673	-0.02	25.9743	0.00E+00
10/12/2019	8:44:57 AM	25.991	16.4459	35.3433	2.3391	4.76E-02	0.1862	4.48E+04	6.8787	86.294	26.111	0.8	-0.23	25.9027	0.00E+00
10/12/2019	8:45:19 AM	26.056	16.3405	35.3965	2.0606	4.76E-02	0.2888	4.47E+04	7.3863	93.751	26.172	-0.668	0.02	25.9822	0.00E+00
10/12/2019	8:44:57 AM	26.199	16.4336	35.3434	2.2078	4.76E-02	0.1598	4.48E+04	6.7854	85.108	26.334	0.767	-0.13	25.9056	0.00E+00
10/12/2019	8:45:19 AM	26.221	16.3241	35.4007	2.059	4.76E-02	0.2795	4.47E+04	7.3725	93.562	26.348	-0.673	0.05	25.9903	0.00E+00
10/12/2019	8:45:18 AM	26.387	16.3053	35.4049	2.0621	4.76E-02	0.2841	4.46E+04	7.3546	93.316	26.537	-0.686	0.06	25.9989	0.00E+00
10/12/2019	8:44:57 AM	26.408	16.4219	35.3445	2.2017	4.76E-02	0.152	4.47E+04	6.6907	83.891	26.553	0.759	-0.03	25.9095	0.00E+00
10/12/2019	8:45:18 AM	26.553	16.2842	35.4105	2.0598	4.76E-02	0.2857	4.46E+04	7.3523	93.265	26.689	-0.7	0.01	26.0092	0.00E+00
10/12/2019	8:44:57 AM	26.616	16.4107	35.346	2.2032	4.76E-02	0.1583	4.47E+04	6.6111	82.864	26.775	0.776	0.07	25.9135	0.00E+00
10/12/2019	8:45:18 AM	26.72	16.2609	35.4179	1.7462	4.76E-02	0.2282	4.46E+04	7.3529	93.251	26.86	-0.703	0.01	26.0219	0.00E+00
10/12/2019	8:44:58 AM	26.824	16.3993	35.3471	2.2048	4.76E-02	0.1598	4.47E+04	6.5522	81.987	26.981	0.805	0.12	25.9171	0.00E+00
10/12/2019	8:45:18 AM	26.888	16.2348	35.4273	1.7455	4.76E-02	0.2313	4.46E+04	7.3566	93.271	27.02	-0.705	-0.01	26.0374	0.00E+00
10/12/2019	8:44:58 AM	27.033	16.3868	35.3469	2.0606	4.76E-02	0.2795	4.47E+04	6.501	81.2	27.154	0.822	0.07	25.9195	0.00E+00
10/12/2019	8:45:18 AM	27.056	16.2046	35.4358	1.7447	4.76E-02	0.2298	4.45E+04	7.3607	93.303	27.191	-0.703	-0.01	26.053	0.00E+00
10/12/2019	8:45:17 AM	27.226	16.1693	35.438	1.7462	4.76E-02	0.236	4.45E+04	7.3673	93.359	27.336	-0.7	-0.05	26.0639	0.00E+00
10/12/2019	8:44:58 AM	27.243	16.3718	35.3444	2.0606	4.76E-02	0.2764	4.47E+04	6.4604	80.556	27.324	0.821	0	25.9203	0.00E+00

10/12/2019	8:45:17 AM	27.398	16.1299	35.4322	1.5425	4.76E-02	0.18	4.45E+04	7.3722	93.402	27.528	-0.687	-0.02	26.0678	0.00E+00
10/12/2019	8:44:59 AM	27.457	16.3523	35.3391	2.0621	4.76E-02	0.2764	4.47E+04	6.4196	79.963	27.508	0.808	-0.05	25.9191	0.00E+00
10/12/2019	8:45:17 AM	27.571	16.09	35.4197	1.5402	4.76E-02	0.1831	4.44E+04	7.3693	93.349	27.723	-0.683	0.01	26.0651	0.00E+00
10/12/2019	8:44:59 AM	27.678	16.3261	35.3303	2.0621	4.76E-02	0.2779	4.47E+04	6.3836	79.463	27.721	0.793	-0.06	25.9159	0.00E+00
10/12/2019	8:45:16 AM	27.745	16.0537	35.4072	1.5433	4.76E-02	0.1847	4.44E+04	7.3685	93.325	27.921	-0.685	0.04	26.0609	0.00E+00
10/12/2019	8:44:59 AM	27.905	16.2908	35.3169	2.0613	4.76E-02	0.3043	4.46E+04	6.3354	78.833	27.969	0.791	-0.01	25.9101	0.00E+00
10/12/2019	8:45:16 AM	27.917	16.024	35.4016	1.5425	4.76E-02	0.1847	4.43E+04	7.3557	93.156	28.083	-0.694	0.03	26.0615	0.00E+00
10/12/2019	8:45:16 AM	28.09	16.0002	35.4011	1.3457	4.76E-02	0.1723	4.43E+04	7.3478	93.043	28.237	-0.703	0.03	26.066	0.00E+00
10/12/2019	8:44:59 AM	28.137	16.2455	35.2988	2.3597	4.76E-02	0.3323	4.46E+04	6.2747	78.048	28.227	0.808	0.07	25.9022	0.00E+00
10/12/2019	8:45:16 AM	28.262	15.9788	35.4009	1.3495	4.76E-02	0.1862	4.43E+04	7.3295	92.81	28.407	-0.709	0.03	26.0706	0.00E+00
10/12/2019	8:45:00 AM	28.374	16.1936	35.2801	2.3604	4.76E-02	0.3354	4.45E+04	6.1949	77.028	28.488	0.841	0.13	25.896	0.00E+00
10/12/2019	8:45:16 AM	28.435	15.9577	35.4003	1.3487	4.76E-02	0.1862	4.43E+04	7.306	92.505	28.579	-0.717	0.02	26.0748	0.00E+00
10/12/2019	8:45:15 AM	28.61	15.9368	35.4005	1.3465	4.76E-02	0.1831	4.43E+04	7.2738	92.086	28.75	-0.722	0.02	26.0798	0.00E+00
10/12/2019	8:45:00 AM	28.613	16.1405	35.2693	2.3612	4.76E-02	0.3339	4.45E+04	6.1098	75.951	28.755	0.891	0.2	25.8982	0.00E+00
10/12/2019	8:45:15 AM	28.785	15.9161	35.4014	1.348	4.76E-02	0.1847	4.42E+04	7.2352	91.579	28.924	-0.728	0.02	26.0854	0.00E+00
10/12/2019	8:45:00 AM	28.854	16.0904	35.2693	2.3627	4.76E-02	0.3354	4.44E+04	6.021	74.837	29.025	0.949	0.23	25.9102	0.00E+00
10/12/2019	8:45:15 AM	28.962	15.8951	35.4027	0.9795	4.76E-02	0.1365	4.42E+04	7.1911	91.004	29.111	-0.732	0.03	26.0915	0.00E+00
10/12/2019	8:45:00 AM	29.094	16.0453	35.276	1.8218	4.76E-02	0.2608	4.44E+04	5.9544	74.003	29.286	0.999	0.2	25.9275	0.00E+00
10/12/2019	8:45:14 AM	29.14	15.8735	35.4055	0.9825	4.76E-02	0.1303	4.42E+04	7.1329	90.249	29.29	-0.74	0.01	26.0992	0.00E+00
10/12/2019	8:45:14 AM	29.319	15.851	35.4101	0.9818	4.76E-02	0.1334	4.42E+04	7.0843	89.607	29.459	-0.742	0.02	26.1089	0.00E+00
10/12/2019	8:45:00 AM	29.333	16.0066	35.286	1.8218	4.76E-02	0.2546	4.43E+04	5.8903	73.207	29.52	1.025	0.11	25.9468	0.00E+00
10/12/2019	8:45:14 AM	29.499	15.8267	35.4145	0.981	4.76E-02	0.1381	4.42E+04	7.0279	88.868	29.638	-0.747	0.03	26.1188	0.00E+00
10/12/2019	8:45:01 AM	29.57	15.9745	35.2983	1.821	4.76E-02	0.2562	4.43E+04	5.8431	72.622	29.736	1.024	0	25.9666	0.00E+00
10/12/2019	8:45:14 AM	29.68	15.8	35.4183	0.807	4.76E-02	0.2841	4.41E+04	6.9721	88.118	29.826	-0.754	0.04	26.1289	0.00E+00
10/12/2019	8:45:01 AM	29.808	15.948	35.3107	1.8187	4.76E-02	0.2593	4.43E+04	5.81	72.213	29.941	1	-0.1	25.9851	0.00E+00
10/12/2019	8:45:14 AM	29.863	15.771	35.4224	0.8048	4.76E-02	0.2795	4.41E+04	6.9185	87.415	30.018	-0.763	0.03	26.1396	0.00E+00
10/12/2019	8:45:01 AM	30.047	15.9248	35.3207	1.261	4.76E-02	0.1785	4.43E+04	5.7956	72.04	30.156	0.969	-0.13	26.0002	0.00E+00
10/12/2019	8:45:13 AM	30.047	15.7397	35.4254	0.807	4.76E-02	0.281	4.41E+04	6.8715	86.778	30.192	-0.77	0.04	26.1499	0.00E+00
10/12/2019	8:45:13 AM	30.232	15.7063	35.425	0.8048	4.76E-02	0.2904	4.40E+04	6.8273	86.192	30.385	-0.779	0.05	26.1576	0.00E+00
10/12/2019	8:45:02 AM	30.29	15.9019	35.326	1.2595	4.76E-02	0.1831	4.42E+04	5.7928	72.015	30.386	0.938	-0.12	26.0103	0.00E+00
10/12/2019	8:45:13 AM	30.418	15.6712	35.4203	0.6712	4.76E-02	0.1303	4.40E+04	6.793	85.694	30.574	-0.793	0.06	26.1614	0.00E+00
10/12/2019	8:45:02 AM	30.538	15.8756	35.3248	1.2618	4.76E-02	0.1878	4.42E+04	5.7999	72.112	30.642	0.92	-0.08	26.0147	0.00E+00
10/12/2019	8:45:12 AM	30.605	15.6361	35.4123	0.6751	4.76E-02	0.1334	4.40E+04	6.7628	85.253	30.762	-0.809	0.03	26.1618	0.00E+00
10/12/2019	8:45:02 AM	30.789	15.8421	35.3164	1.2618	4.76E-02	0.1862	4.42E+04	5.8077	72.215	30.909	0.917	-0.01	26.0135	0.00E+00
10/12/2019	8:45:12 AM	30.793	15.6031	35.4018	0.6735	4.76E-02	0.1365	4.39E+04	6.7274	84.701	30.934	-0.816	-0.02	26.159	0.00E+00
10/12/2019	8:45:12 AM	30.983	15.5741	35.3911	0.6728	4.76E-02	0.1272	4.39E+04	6.6948	84.213	31.143	-0.811	-0.04	26.1549	0.00E+00
10/12/2019	8:45:02 AM	31.044	15.7977	35.3008	1.0176	4.76E-02	0.1816	4.41E+04	5.8129	72.283	31.185	0.935	0.07	26.0075	0.00E+00
10/12/2019	8:45:12 AM	31.173	15.5506	35.383	0.6583	4.76E-02	0.1318	4.39E+04	6.6631	83.743	31.345	-0.8	-0.05	26.152	0.00E+00
10/12/2019	8:45:02 AM	31.3	15.7415	35.2768	1.0199	4.76E-02	0.1816	4.41E+04	5.8283	72.474	31.463	0.969	0.14	25.9966	0.00E+00
10/12/2019	8:45:11 AM	31.364	15.5322	35.3776	0.6613	4.76E-02	0.135	4.38E+04	6.6276	83.264	31.548	-0.788	-0.06	26.1505	0.00E+00
10/12/2019	8:45:11 AM	31.554	15.5177	35.3739	0.6621	4.76E-02	0.135	4.38E+04	6.5861	82.728	31.727	-0.771	-0.1	26.15	0.00E+00
10/12/2019	8:45:03 AM	31.557	15.6806	35.2517	1.0191	4.76E-02	0.1893	4.40E+04	5.8424	72.649	31.749	1.013	0.18	25.9874	0.00E+00
10/12/2019	8:45:11 AM	31.744	15.5056	35.3706	0.659	4.76E-02	0.135	4.38E+04	6.5409	82.14	31.947	-0.746	-0.09	26.1494	0.00E+00
10/12/2019	8:45:03 AM	31.813	15.6251	35.244	1.0191	4.76E-02	0.18	4.39E+04	5.8503	72.746	32.038	1.058	0.18	25.9942	0.00E+00
10/12/2019	8:45:11 AM	31.933	15.4955	35.3674	0.6613	4.76E-02	0.135	4.38E+04	6.4964	81.541	32.16	-0.723	-0.08	26.1485	0.00E+00
10/12/2019	8:45:03 AM	32.067	15.5802	35.2571	1.0161	4.76E-02	0.1754	4.39E+04	5.8651	72.932	32.317	1.091	0.13	26.0181	0.00E+00
10/12/2019	8:45:11 AM	32.119	15.4869	35.3643	0.5751	4.76E-02	0.1412	4.38E+04	6.4409	80.815	32.377	-0.703	-0.07	26.1472	0.00E+00
10/12/2019	8:45:10 AM	32.3	15.48	35.3609	0.5774	4.76E-02	0.1334	4.38E+04	6.3818	80.041	32.559	-0.685	-0.08	26.1454	0.00E+00
10/12/2019	8:45:04 AM	32.315	15.5456	35.2778	0.8154	4.76E-02	0.1396	4.39E+04	5.8739	73.048	32.607	1.115	0.1	26.0466	0.00E+00
10/12/2019	8:45:10 AM	32.476	15.4748	35.3576	0.5766	4.76E-02	0.1318	4.38E+04	6.315	79.176	32.749	-0.666	-0.08	26.1433	0.00E+00
10/12/2019	8:45:04 AM	32.557	15.5187	35.296	0.8185	4.76E-02	0.1318	4.38E+04	5.8876	73.221	32.898	1.13	0.06	26.0708	0.00E+00

10/12/2019	8:45:10 AM	32.646	15.4712	35.3549	0.5759	4.76E-02	0.1318	4.38E+04	6.2536	78.37	32.921	-0.646	-0.19	26.1413	0.00E+00
10/12/2019	8:45:04 AM	32.788	15.4973	35.3089	0.817	4.76E-02	0.1334	4.38E+04	5.9031	73.405	33.197	1.143	0.05	26.0886	0.00E+00
10/12/2019	8:45:09 AM	32.811	15.4693	35.3524	0.5858	4.76E-02	0.1536	4.38E+04	6.1925	77.579	33.105	-0.598	-0.3	26.1392	0.00E+00
10/12/2019	8:45:09 AM	32.969	15.4688	35.3504	0.5858	4.76E-02	0.1567	4.38E+04	6.1364	76.836	33.278	-0.524	-0.38	26.1373	0.00E+00
10/12/2019	8:45:04 AM	33.006	15.4806	35.318	0.8139	4.76E-02	0.1303	4.38E+04	5.9136	73.527	33.485	1.151	0.03	26.1017	0.00E+00
10/12/2019	8:45:09 AM	33.119	15.4696	35.3502	0.5881	4.76E-02	0.1567	4.38E+04	6.0877	76.191	33.452	-0.43	-0.41	26.1367	0.00E+00
10/12/2019	8:45:04 AM	33.205	15.4685	35.3262	0.6369	4.76E-02	0.1583	4.38E+04	5.9198	73.6	33.777	1.158	0.02	26.1128	0.00E+00
10/12/2019	8:45:09 AM	33.26	15.4714	35.3524	0.5896	4.76E-02	0.1583	4.38E+04	6.0428	75.571	33.617	-0.328	-0.4	26.1383	0.00E+00
10/12/2019	8:45:05 AM	33.379	15.4606	35.3345	0.6369	4.76E-02	0.1505	4.38E+04	5.9244	73.656	34.072	1.162	0.02	26.123	0.00E+00
10/12/2019	8:45:09 AM	33.39	15.4732	35.355	0.598	4.76E-02	0.2313	4.38E+04	6.0104	75.133	33.778	-0.229	-0.35	26.1404	0.00E+00
10/12/2019	8:45:08 AM	33.507	15.4739	35.3559	0.5988	4.76E-02	0.2344	4.38E+04	5.9936	74.855	33.921	-0.141	-0.29	26.1413	0.00E+00
10/12/2019	8:45:05 AM	33.524	15.4561	35.3416	0.6377	4.76E-02	0.1536	4.38E+04	5.9282	73.704	34.238	1.133	-0.12	26.1312	0.00E+00
10/12/2019	8:45:08 AM	33.61	15.4733	35.3554	0.6018	4.76E-02	0.2298	4.38E+04	5.9757	74.583	34.074	-0.068	-0.18	26.1411	0.00E+00
10/12/2019	8:45:05 AM	33.637	15.4541	35.347	0.6369	4.76E-02	0.1567	4.38E+04	5.9315	73.748	34.28	1.045	-0.35	26.1371	0.00E+00
10/12/2019	8:45:08 AM	33.696	15.4725	35.3552	0.6003	4.76E-02	0.236	4.38E+04	5.9631	74.345	34.214	-0.024	-0.04	26.1411	0.00E+00
10/12/2019	8:45:06 AM	33.722	15.454	35.3513	0.5911	4.76E-02	0.208	4.38E+04	5.9261	73.688	34.285	0.902	-0.57	26.1414	0.00E+00
10/12/2019	8:45:07 AM	33.763	15.4718	35.3559	0.5866	4.76E-02	0.2608	4.38E+04	5.9543	74.194	34.257	-0.014	-0.01	26.1418	0.00E+00
10/12/2019	8:45:06 AM	33.784	15.4555	35.355	0.5904	4.76E-02	0.2033	4.38E+04	5.9222	73.648	34.284	0.724	-0.71	26.1447	0.00E+00
10/12/2019	8:45:07 AM	33.811	15.4711	35.3573	0.5904	4.76E-02	0.2546	4.38E+04	5.9461	74.037	34.266	-0.011	-0.05	26.1433	0.00E+00
10/12/2019	8:45:06 AM	33.826	15.4584	35.3581	0.5896	4.76E-02	0.208	4.38E+04	5.9173	73.6	34.279	0.53	-0.78	26.1472	0.00E+00
10/12/2019	8:45:07 AM	33.842	15.4701	35.3592	0.5896	4.76E-02	0.2546	4.38E+04	5.9378	73.913	34.265	0.001	-0.22	26.1454	0.00E+00
10/12/2019	8:45:06 AM	33.851	15.462	35.3606	0.5911	4.76E-02	0.2064	4.38E+04	5.9209	73.658	34.275	0.342	-0.75	26.1487	0.00E+00
10/12/2019	8:45:07 AM	33.859	15.4682	35.3611	0.5896	4.76E-02	0.2608	4.38E+04	5.9318	73.82	34.264	0.057	-0.48	26.1476	0.00E+00
10/12/2019	8:45:07 AM	33.862	15.4655	35.3617	0.5904	4.76E-02	0.2515	4.38E+04	5.9251	73.725	34.27	0.178	-0.66	26.1489	0.00E+00

TRANSECT 2 - 0 m

DD MMM YYYY HH:MM:SS	DD MMM YYYY HH:MM:SS	DepSM	Tv290C	Sal00	FlECO-AFL	Par	TurbWETntu0	C0uS/cm	Sbeox0Mg/L	Sbeox0PS	PrdM	Dz/dtM	AccM	Sigma-t00	Flag
10/12/2019	9:22:55 AM	0.433	18.3114	35.2777	0.3745	4.76E-02	0.8312	4.65E+04	7.3941	97.054	0.237	-0.29	0	25.408	0.00E+00
10/12/2019	9:22:55 AM	0.438	18.3122	35.2831	0.4073	4.76E-02	2.8204	4.65E+04	7.4095	97.255	0.195	-0.268	0.09	25.4119	0.00E+00
10/12/2019	9:22:55 AM	0.439	18.3103	35.2735	0.3691	4.76E-02	0.8327	4.65E+04	7.3909	97.012	0.282	-0.29	-0.1	25.405	0.00E+00
10/12/2019	9:22:56 AM	0.459	18.3128	35.2886	0.4065	4.76E-02	2.8204	4.66E+04	7.4262	97.475	0.172	-0.227	0.17	25.4158	0.00E+00
10/12/2019	9:24:19 AM	0.484	18.2838	35.2893	0.4591	4.76E-02	0.2298	4.65E+04	-9.99E-29	-9.99E-29	0.497	-0.149	-0.01	25.4225	0.00E+00
10/12/2019	9:22:56 AM	0.498	18.313	35.2928	0.4073	4.76E-02	2.8235	4.66E+04	7.4348	97.585	0.188	-0.172	0.22	25.4188	0.00E+00
10/12/2019	9:22:56 AM	0.555	18.3129	35.2952	0.4088	4.76E-02	2.8266	4.66E+04	7.4349	97.583	0.255	-0.108	0.26	25.4205	0.00E+00
10/12/2019	9:24:18 AM	0.575	18.2854	35.2916	0.4576	4.76E-02	0.2344	4.65E+04	-9.99E-29	-9.99E-29	0.733	-0.147	0.27	25.4243	0.00E+00
10/12/2019	9:22:57 AM	0.631	18.3121	35.2962	0.405	4.76E-02	2.8251	4.66E+04	7.4277	97.485	0.378	-0.028	0.32	25.4212	0.00E+00
10/12/2019	9:24:18 AM	0.658	18.2863	35.2938	0.4569	4.76E-02	0.2298	4.65E+04	-9.99E-29	-9.99E-29	0.836	-0.213	0.38	25.4262	0.00E+00
10/12/2019	9:22:57 AM	0.722	18.3107	35.2965	0.2142	4.76E-02	5.697	4.66E+04	7.4132	97.289	0.517	0.072	0.4	25.4215	0.00E+00
10/12/2019	9:24:18 AM	0.731	18.2863	35.2955	0.4591	4.76E-02	0.2298	4.65E+04	-9.99E-29	-9.99E-29	0.821	-0.307	0.33	25.4277	0.00E+00
10/12/2019	9:24:17 AM	0.8	18.2856	35.2963	0.4576	4.76E-02	0.2344	4.65E+04	-9.99E-29	-9.99E-29	0.779	-0.39	0.23	25.4287	0.00E+00
10/12/2019	9:22:57 AM	0.827	18.3085	35.2962	0.218	4.76E-02	5.6954	4.66E+04	7.3761	96.798	0.638	0.18	0.43	25.4214	0.00E+00
10/12/2019	9:24:17 AM	0.87	18.2844	35.2963	0.4683	4.76E-02	0.2329	4.65E+04	7.2613	95.209	0.758	-0.448	0.16	25.429	0.00E+00
10/12/2019	9:22:57 AM	0.945	18.3059	35.295	0.2158	4.76E-02	5.6986	4.66E+04	7.3146	95.988	0.763	0.287	0.43	25.4209	0.00E+00
10/12/2019	9:24:17 AM	0.947	18.283	35.296	0.4668	4.76E-02	0.2298	4.65E+04	7.2557	95.139	0.785	-0.487	0.12	25.429	0.00E+00
10/12/2019	9:24:17 AM	1.033	18.2819	35.2959	0.4683	4.76E-02	0.236	4.65E+04	7.2658	95.274	0.868	-0.517	0.11	25.4291	0.00E+00
10/12/2019	9:22:57 AM	1.074	18.3034	35.2935	0.2119	4.76E-02	5.6923	4.66E+04	7.2427	95.045	0.908	0.386	0.39	25.4203	0.00E+00
10/12/2019	9:24:17 AM	1.13	18.281	35.2963	0.4691	4.76E-02	0.236	4.65E+04	7.2999	95.725	0.995	-0.543	0.13	25.4297	0.00E+00
10/12/2019	9:22:58 AM	1.213	18.3013	35.2924	0.3577	4.76E-02	0.8856	4.66E+04	7.1636	94.005	1.077	0.47	0.34	25.4201	0.00E+00
10/12/2019	9:24:16 AM	1.235	18.2802	35.297	0.4538	4.76E-02	0.2096	4.65E+04	7.3567	96.473	1.139	-0.576	0.26	25.4306	0.00E+00
10/12/2019	9:24:16 AM	1.347	18.2793	35.2981	0.4569	4.76E-02	0.2142	4.65E+04	7.4159	97.255	1.261	-0.641	0.31	25.4319	0.00E+00
10/12/2019	9:22:58 AM	1.361	18.3	35.292	0.3592	4.76E-02	0.8763	4.65E+04	7.0871	92.998	1.249	0.534	0.26	25.4204	0.00E+00
10/12/2019	9:24:16 AM	1.465	18.2779	35.299	0.4561	4.76E-02	0.2064	4.65E+04	7.4763	98.046	1.368	-0.717	0.15	25.4332	0.00E+00
10/12/2019	9:22:58 AM	1.517	18.2995	35.2921	0.3561	4.76E-02	0.8763	4.65E+04	7.0113	92	1.43	0.58	0.18	25.4209	0.00E+00
10/12/2019	9:24:15 AM	1.589	18.2759	35.2994	0.4561	4.76E-02	0.2033	4.65E+04	7.5363	98.84	1.479	-0.754	-0.09	25.4342	0.00E+00
10/12/2019	9:22:59 AM	1.678	18.3001	35.2917	0.36	4.76E-02	0.8763	4.65E+04	6.9381	91.036	1.606	0.612	0.13	25.421	0.00E+00
10/12/2019	9:24:15 AM	1.721	18.2735	35.2994	0.4576	4.76E-02	0.2064	4.65E+04	7.6091	99.804	1.6	-0.733	-0.25	25.4349	0.00E+00
10/12/2019	9:22:59 AM	1.845	18.3016	35.2904	0.3745	4.76E-02	0.8281	4.65E+04	6.8855	90.342	1.77	0.639	0.11	25.4201	0.00E+00
10/12/2019	9:24:15 AM	1.861	18.2709	35.2995	0.5179	4.76E-02	0.1831	4.65E+04	7.6728	100.646	1.761	-0.671	-0.27	25.4356	0.00E+00
10/12/2019	9:24:15 AM	2.007	18.2682	35.2998	0.5186	4.76E-02	0.1847	4.65E+04	7.7316	101.429	1.945	-0.602	-0.27	25.4365	0.00E+00
10/12/2019	9:22:59 AM	2.018	18.3037	35.2877	0.3714	4.76E-02	0.8312	4.65E+04	6.857	89.965	1.941	0.665	0.1	25.4179	0.00E+00
10/12/2019	9:24:14 AM	2.158	18.2654	35.3001	0.5171	4.76E-02	0.1754	4.65E+04	7.7707	101.951	2.119	-0.536	-0.25	25.4374	0.00E+00
10/12/2019	9:22:59 AM	2.195	18.3058	35.284	0.3699	4.76E-02	0.825	4.65E+04	6.8569	89.959	2.129	0.687	0.09	25.4147	0.00E+00
10/12/2019	9:24:14 AM	2.312	18.2626	35.3008	0.5156	4.76E-02	0.18	4.65E+04	7.7929	102.242	2.297	-0.473	-0.19	25.4387	0.00E+00
10/12/2019	9:22:59 AM	2.378	18.3075	35.28	0.3729	4.76E-02	0.8374	4.65E+04	6.8843	90.314	2.344	0.708	0.09	25.4111	0.00E+00
10/12/2019	9:24:14 AM	2.466	18.2599	35.3024	0.5156	4.76E-02	0.135	4.65E+04	7.8035	102.387	2.561	-0.427	0.02	25.4407	0.00E+00
10/12/2019	9:23:00 AM	2.563	18.3084	35.2762	0.4202	4.76E-02	0.5312	4.65E+04	6.9681	91.394	2.567	0.732	0.09	25.4077	0.00E+00
10/12/2019	9:24:14 AM	2.616	18.2571	35.3044	0.5148	4.76E-02	0.1334	4.65E+04	7.8097	102.477	2.808	-0.43	0.21	25.4433	0.00E+00
10/12/2019	9:23:00 AM	2.748	18.3086	35.2732	0.4172	4.76E-02	0.5297	4.65E+04	7.0899	92.962	2.796	0.762	0.12	25.4049	0.00E+00
10/12/2019	9:24:14 AM	2.757	18.2537	35.3059	0.5164	4.76E-02	0.1287	4.65E+04	7.8126	102.518	2.914	-0.482	0.24	25.4455	0.00E+00
10/12/2019	9:24:13 AM	2.889	18.2496	35.3066	0.5209	4.76E-02	0.1334	4.65E+04	7.8119	102.51	2.941	-0.543	0.15	25.4472	0.00E+00
10/12/2019	9:23:00 AM	2.932	18.308	35.2711	0.4172	4.76E-02	0.5359	4.65E+04	7.2411	94.917	3.004	0.791	0.12	25.4031	0.00E+00
10/12/2019	9:24:13 AM	3.02	18.2452	35.3072	0.527	4.76E-02	0.065	4.65E+04	7.8116	102.506	3.005	-0.581	0.1	25.4487	0.00E+00
10/12/2019	9:23:00 AM	3.113	18.3064	35.2702	0.4218	4.76E-02	0.5297	4.65E+04	7.4019	97.004	3.194	0.814	0.09	25.4024	0.00E+00
10/12/2019	9:24:13 AM	3.151	18.2408	35.3076	0.5309	4.76E-02	0.0635	4.65E+04	7.8094	102.473	3.129	-0.607	0.08	25.4501	0.00E+00
10/12/2019	9:24:12 AM	3.284	18.2364	35.3075	0.5286	4.76E-02	0.0681	4.65E+04	7.8102	102.478	3.249	-0.628	0.03	25.4511	0.00E+00
10/12/2019	9:23:01 AM	3.29	18.304	35.2707	0.4195	4.76E-02	0.5281	4.65E+04	7.5435	98.828	3.379	0.827	0.05	25.4029	0.00E+00
10/12/2019	9:24:12 AM	3.421	18.2321	35.307	0.5278	4.76E-02	0.0743	4.65E+04	7.8069	102.432	3.371	-0.635	-0.04	25.4517	0.00E+00

10/12/2019	9:23:01 AM	3.462	18.3011	35.2726	0.4202	4.76E-02	0.4333	4.65E+04	7.6657	100.397	3.562	0.825	-0.01	25.4048	0.00E+00
10/12/2019	9:24:12 AM	3.562	18.2278	35.3066	0.5408	4.76E-02	0.0681	4.65E+04	7.799	102.326	3.524	-0.626	-0.03	25.4524	0.00E+00
10/12/2019	9:23:01 AM	3.629	18.2981	35.276	0.4187	4.76E-02	0.4333	4.65E+04	7.7647	101.661	3.746	0.81	-0.06	25.408	0.00E+00
10/12/2019	9:24:12 AM	3.706	18.2238	35.3066	0.5423	4.76E-02	0.0681	4.65E+04	7.7917	102.23	3.689	-0.62	-0.01	25.4534	0.00E+00
10/12/2019	9:23:02 AM	3.79	18.2953	35.2799	0.4187	4.76E-02	0.4333	4.65E+04	7.8342	102.54	3.921	0.784	-0.1	25.4117	0.00E+00
10/12/2019	9:24:12 AM	3.853	18.2198	35.3066	0.5438	4.76E-02	0.0681	4.65E+04	7.7882	102.184	3.841	-0.618	0.01	25.4545	0.00E+00
10/12/2019	9:23:02 AM	3.945	18.2928	35.2837	0.4164	4.76E-02	0.424	4.65E+04	7.8729	102.994	4.071	0.749	-0.14	25.4153	0.00E+00
10/12/2019	9:24:11 AM	4.002	18.2157	35.3066	0.5362	4.76E-02	0.0635	4.65E+04	7.7907	102.216	4.001	-0.621	0.01	25.4555	0.00E+00
10/12/2019	9:23:02 AM	4.093	18.2904	35.287	0.4309	4.76E-02	0.0728	4.65E+04	7.8829	103.046	4.176	0.703	-0.19	25.4186	0.00E+00
10/12/2019	9:24:11 AM	4.152	18.2116	35.307	0.5438	4.76E-02	0.0666	4.65E+04	7.8018	102.36	4.154	-0.624	0.03	25.4569	0.00E+00
10/12/2019	9:23:02 AM	4.239	18.2879	35.2902	0.4324	4.76E-02	0.0743	4.65E+04	7.8841	102.934	4.233	0.64	-0.25	25.4217	0.00E+00
10/12/2019	9:24:11 AM	4.304	18.2075	35.3076	0.5324	4.76E-02	0.0479	4.65E+04	7.8109	102.475	4.331	-0.632	0.06	25.4585	0.00E+00
10/12/2019	9:23:02 AM	4.386	18.2855	35.2933	0.4324	4.76E-02	0.0712	4.65E+04	7.8747	102.682	4.293	0.567	-0.29	25.4247	0.00E+00
10/12/2019	9:24:10 AM	4.455	18.2031	35.3084	0.527	4.76E-02	0.0386	4.65E+04	7.8205	102.593	4.49	-0.648	0.09	25.4604	0.00E+00
10/12/2019	9:23:03 AM	4.54	18.283	35.296	0.4286	4.76E-02	0.0728	4.65E+04	7.8723	102.534	4.414	0.504	-0.25	25.4273	0.00E+00
10/12/2019	9:24:10 AM	4.607	18.1984	35.3095	0.5293	4.76E-02	0.0417	4.65E+04	7.8268	102.67	4.629	-0.672	0.08	25.4626	0.00E+00
10/12/2019	9:23:03 AM	4.703	18.2802	35.2978	0.4591	4.76E-02	0.0479	4.65E+04	7.8594	102.271	4.588	0.467	-0.15	25.4293	0.00E+00
10/12/2019	9:24:10 AM	4.758	18.1934	35.3114	0.5316	4.76E-02	0.0479	4.64E+04	7.8361	102.787	4.76	-0.692	0.04	25.4657	0.00E+00
10/12/2019	9:23:03 AM	4.874	18.2771	35.2987	0.4607	4.76E-02	0.0386	4.65E+04	7.8486	102.063	4.782	0.463	-0.02	25.4307	0.00E+00
10/12/2019	9:24:10 AM	4.911	18.1878	35.3139	0.5759	4.76E-02	0.0712	4.64E+04	7.843	102.869	4.927	-0.703	-0.09	25.4696	0.00E+00
10/12/2019	9:23:04 AM	5.052	18.2734	35.2991	0.4538	4.76E-02	0.0433	4.65E+04	7.8434	101.955	4.992	0.495	0.13	25.4317	0.00E+00
10/12/2019	9:24:10 AM	5.064	18.1812	35.3158	0.5759	4.76E-02	0.0666	4.64E+04	7.8464	102.91	5.087	-0.679	-0.27	25.4732	0.00E+00
10/12/2019	9:24:09 AM	5.218	18.1734	35.316	0.5759	4.76E-02	0.065	4.64E+04	7.8487	102.938	5.266	-0.611	-0.38	25.4755	0.00E+00
10/12/2019	9:23:04 AM	5.236	18.2688	35.299	0.4569	4.76E-02	0.0464	4.65E+04	7.8497	102.012	5.199	0.557	0.25	25.4324	0.00E+00
10/12/2019	9:24:09 AM	5.37	18.1646	35.3146	0.5766	4.76E-02	0.0666	4.64E+04	7.8467	102.91	5.421	-0.516	-0.44	25.4763	0.00E+00
10/12/2019	9:23:04 AM	5.425	18.2627	35.2983	0.4591	4.76E-02	0.0666	4.65E+04	7.8327	101.773	5.389	0.634	0.31	25.4327	0.00E+00
10/12/2019	9:24:09 AM	5.521	18.156	35.3125	0.5751	4.76E-02	0.0681	4.64E+04	7.8452	102.883	5.602	-0.406	-0.38	25.4764	0.00E+00
10/12/2019	9:23:04 AM	5.618	18.2543	35.2966	0.4546	4.76E-02	0.0681	4.65E+04	7.8393	101.842	5.577	0.709	0.3	25.4326	0.00E+00
10/12/2019	9:24:08 AM	5.669	18.1481	35.3104	0.5751	4.76E-02	0.0619	4.64E+04	7.8443	102.86	5.775	-0.31	-0.26	25.4761	0.00E+00
10/12/2019	9:24:08 AM	5.811	18.1415	35.3094	0.5804	4.76E-02	0.0743	4.64E+04	7.8394	102.786	5.965	-0.245	-0.09	25.4767	0.00E+00
10/12/2019	9:23:04 AM	5.815	18.2431	35.2934	0.4538	4.76E-02	0.0743	4.65E+04	7.8512	101.979	5.769	0.761	0.21	25.4317	0.00E+00
10/12/2019	9:24:08 AM	5.947	18.1361	35.3113	0.5766	4.76E-02	0.0681	4.64E+04	7.8388	102.771	6.147	-0.224	0.1	25.4797	0.00E+00
10/12/2019	9:23:05 AM	6.017	18.2297	35.2893	0.4576	4.76E-02	0.0666	4.65E+04	7.8656	102.151	5.989	0.789	0.11	25.4307	0.00E+00
10/12/2019	9:24:08 AM	6.071	18.131	35.3154	0.6247	4.76E-02	0.0899	4.64E+04	7.8351	102.713	6.328	-0.248	0.32	25.4849	0.00E+00
10/12/2019	9:24:07 AM	6.184	18.1246	35.3199	0.6262	4.76E-02	0.0868	4.64E+04	7.8328	102.676	6.383	-0.327	0.4	25.4911	0.00E+00
10/12/2019	9:23:05 AM	6.223	18.2149	35.2863	0.4569	4.76E-02	0.0759	4.65E+04	7.8832	102.361	6.207	0.802	0.05	25.4311	0.00E+00
10/12/2019	9:24:07 AM	6.286	18.1161	35.3243	0.6255	4.76E-02	0.0945	4.64E+04	7.8356	102.703	6.38	-0.428	0.4	25.4977	0.00E+00
10/12/2019	9:24:07 AM	6.386	18.1051	35.3286	0.6255	4.76E-02	0.093	4.64E+04	7.8372	102.717	6.377	-0.529	0.35	25.5048	0.00E+00
10/12/2019	9:23:05 AM	6.432	18.1986	35.285	0.5156	4.76E-02	0.1225	4.65E+04	7.9026	102.578	6.415	0.809	0.03	25.4334	0.00E+00
10/12/2019	9:24:07 AM	6.487	18.0919	35.3329	0.6255	4.76E-02	0.093	4.64E+04	7.8432	102.787	6.405	-0.616	0.27	25.5125	0.00E+00
10/12/2019	9:24:07 AM	6.596	18.0765	35.3373	0.6712	4.76E-02	0.0759	4.63E+04	7.851	102.883	6.478	-0.682	0.17	25.5208	0.00E+00
10/12/2019	9:23:06 AM	6.645	18.1804	35.2836	0.5164	4.76E-02	0.1179	4.65E+04	7.92	102.755	6.636	0.818	0.04	25.436	0.00E+00
10/12/2019	9:24:06 AM	6.713	18.059	35.3424	0.672	4.76E-02	0.0712	4.63E+04	7.8598	102.991	6.598	-0.725	0.1	25.5303	0.00E+00
10/12/2019	9:24:06 AM	6.84	18.0391	35.3494	0.672	4.76E-02	0.0681	4.63E+04	7.8661	103.066	6.729	-0.75	-0.01	25.5422	0.00E+00
10/12/2019	9:23:06 AM	6.859	18.1597	35.281	0.5164	4.76E-02	0.1132	4.64E+04	7.9361	102.902	6.883	0.839	0.09	25.4381	0.00E+00
10/12/2019	9:24:06 AM	6.976	18.0164	35.3585	0.6751	4.76E-02	0.065	4.63E+04	7.8759	103.185	6.864	-0.748	-0.13	25.5569	0.00E+00
10/12/2019	9:23:06 AM	7.075	18.1358	35.2781	0.5164	4.76E-02	0.1148	4.64E+04	7.9474	102.978	7.118	0.866	0.11	25.4403	0.00E+00
10/12/2019	9:24:05 AM	7.121	17.9899	35.3684	0.7346	4.76E-02	0.0899	4.63E+04	7.8784	103.21	7.024	-0.715	-0.2	25.5735	0.00E+00
10/12/2019	9:24:05 AM	7.274	17.9585	35.3778	0.7338	4.76E-02	0.0899	4.62E+04	7.8789	103.209	7.21	-0.664	-0.18	25.5908	0.00E+00
10/12/2019	9:23:06 AM	7.291	18.1071	35.274	0.6514	4.76E-02	0.1225	4.64E+04	7.9451	102.878	7.322	0.883	0.07	25.4424	0.00E+00
10/12/2019	9:24:05 AM	7.434	17.922	35.3847	0.7361	4.76E-02	0.0945	4.62E+04	7.8778	103.186	7.42	-0.619	-0.09	25.6068	0.00E+00

10/12/2019	9:23:06 AM	7.508	18.0714	35.2668	0.6514	4.76E-02	0.1163	4.64E+04	7.9386	102.734	7.508	0.883	0	25.4427	0.00E+00
10/12/2019	9:24:05 AM	7.597	17.8812	35.3875	0.7315	4.76E-02	0.1008	4.61E+04	7.8765	103.157	7.628	-0.597	0.03	25.6197	0.00E+00
10/12/2019	9:23:07 AM	7.728	18.0281	35.2559	0.6491	4.76E-02	0.121	4.63E+04	7.9238	102.495	7.701	0.87	-0.05	25.4415	0.00E+00
10/12/2019	9:24:05 AM	7.761	17.8376	35.3845	0.8536	4.76E-02	0.0666	4.61E+04	7.8739	103.099	7.831	-0.604	0.11	25.6274	0.00E+00
10/12/2019	9:24:04 AM	7.923	17.7938	35.3748	0.8543	4.76E-02	0.065	4.61E+04	7.8747	103.089	8.011	-0.632	0.18	25.6286	0.00E+00
10/12/2019	9:23:07 AM	7.951	17.9795	35.244	0.6499	4.76E-02	0.1256	4.63E+04	7.9056	102.229	7.912	0.858	-0.05	25.4412	0.00E+00
10/12/2019	9:24:04 AM	8.083	17.7529	35.3644	0.8536	4.76E-02	0.0681	4.60E+04	7.8787	103.116	8.173	-0.678	0.16	25.6277	0.00E+00
10/12/2019	9:23:07 AM	8.179	17.9303	35.2362	0.7552	4.76E-02	0.093	4.62E+04	7.8758	101.827	8.142	0.851	-0.03	25.446	0.00E+00
10/12/2019	9:24:04 AM	8.241	17.7179	35.3588	0.8536	4.76E-02	0.0666	4.60E+04	7.885	103.186	8.303	-0.718	0.04	25.6297	0.00E+00
10/12/2019	9:24:03 AM	8.398	17.6888	35.3564	0.9192	4.76E-02	0.0868	4.60E+04	7.8897	103.237	8.412	-0.728	-0.14	25.6337	0.00E+00
10/12/2019	9:23:07 AM	8.413	17.8849	35.2369	0.7567	4.76E-02	0.0899	4.62E+04	7.8424	101.388	8.393	0.852	0	25.4585	0.00E+00
10/12/2019	9:24:03 AM	8.557	17.663	35.3534	0.9223	4.76E-02	0.0899	4.59E+04	7.8992	103.361	8.531	-0.693	-0.24	25.6369	0.00E+00
10/12/2019	9:23:08 AM	8.65	17.846	35.2452	0.7567	4.76E-02	0.0992	4.61E+04	7.8083	100.942	8.663	0.866	0.06	25.477	0.00E+00
10/12/2019	9:24:03 AM	8.72	17.6389	35.3497	0.9207	4.76E-02	0.1008	4.59E+04	7.9022	103.4	8.701	-0.634	-0.23	25.6389	0.00E+00
10/12/2019	9:24:03 AM	8.887	17.6166	35.3467	0.9177	4.76E-02	0.0992	4.59E+04	7.9069	103.453	8.897	-0.577	-0.12	25.641	0.00E+00
10/12/2019	9:23:08 AM	8.89	17.8149	35.258	0.7575	4.76E-02	0.093	4.61E+04	7.7766	100.513	8.931	0.899	0.13	25.498	0.00E+00
10/12/2019	9:24:03 AM	9.055	17.5966	35.3452	0.9177	4.76E-02	0.0899	4.59E+04	7.9093	103.464	9.112	-0.547	0.06	25.6441	0.00E+00
10/12/2019	9:23:08 AM	9.13	17.7911	35.2723	0.9337	4.76E-02	0.1163	4.61E+04	7.7481	100.095	9.197	0.945	0.18	25.5185	0.00E+00
10/12/2019	9:24:02 AM	9.224	17.5783	35.3452	0.9444	4.76E-02	0.0899	4.58E+04	7.9062	103.4	9.307	-0.563	0.21	25.6483	0.00E+00
10/12/2019	9:23:09 AM	9.369	17.7727	35.285	0.9322	4.76E-02	0.1101	4.60E+04	7.7254	99.74	9.459	0.99	0.18	25.5359	0.00E+00
10/12/2019	9:24:02 AM	9.39	17.5609	35.3465	0.9459	4.76E-02	0.0977	4.58E+04	7.9056	103.365	9.521	-0.616	0.34	25.6536	0.00E+00
10/12/2019	9:24:02 AM	9.553	17.5437	35.3469	0.9451	4.76E-02	0.093	4.58E+04	7.9054	103.329	9.672	-0.701	0.34	25.6581	0.00E+00
10/12/2019	9:23:09 AM	9.605	17.7576	35.2941	0.9352	4.76E-02	0.1225	4.60E+04	7.7075	99.451	9.706	1.021	0.12	25.5487	0.00E+00
10/12/2019	9:24:01 AM	9.712	17.5261	35.3448	0.9459	4.76E-02	0.0977	4.58E+04	7.9055	103.3	9.773	-0.786	0.28	25.6603	0.00E+00
10/12/2019	9:23:09 AM	9.84	17.7442	35.2992	0.9329	4.76E-02	0.1225	4.60E+04	7.7303	99.698	9.923	1.027	0.03	25.5572	0.00E+00
10/12/2019	9:24:01 AM	9.871	17.5089	35.3427	0.9955	4.76E-02	0.121	4.58E+04	7.8967	103.147	9.837	-0.856	0.11	25.662	0.00E+00
10/12/2019	9:24:01 AM	10.035	17.4933	35.3427	0.9947	4.76E-02	0.1163	4.58E+04	7.8878	102.994	9.952	-0.884	-0.05	25.6653	0.00E+00
10/12/2019	9:23:09 AM	10.073	17.7311	35.301	0.9337	4.76E-02	0.1163	4.60E+04	7.7178	99.502	10.134	1.012	-0.06	25.5623	0.00E+00
10/12/2019	9:24:01 AM	10.207	17.4793	35.3441	0.9947	4.76E-02	0.1194	4.58E+04	7.876	102.788	10.101	-0.871	-0.19	25.6697	0.00E+00
10/12/2019	9:23:09 AM	10.305	17.7169	35.3004	1.0291	4.76E-02	0.093	4.60E+04	7.7292	99.619	10.356	0.984	-0.11	25.5651	0.00E+00
10/12/2019	9:24:00 AM	10.388	17.4658	35.3455	0.997	4.76E-02	0.121	4.57E+04	7.8581	102.491	10.312	-0.822	-0.19	25.6742	0.00E+00
10/12/2019	9:23:10 AM	10.537	17.7	35.2974	1.0306	4.76E-02	0.0914	4.60E+04	7.7522	99.878	10.584	0.953	-0.12	25.566	0.00E+00
10/12/2019	9:24:00 AM	10.577	17.4521	35.3475	1.0642	4.76E-02	0.1318	4.57E+04	7.8421	102.195	10.566	-0.774	-0.11	25.6793	0.00E+00
10/12/2019	9:23:10 AM	10.77	17.6793	35.2916	1.0306	4.76E-02	0.093	4.60E+04	7.7448	99.728	10.823	0.93	-0.09	25.565	0.00E+00
10/12/2019	9:24:00 AM	10.77	17.4381	35.351	1.0634	4.76E-02	0.1287	4.57E+04	7.8185	101.803	10.825	-0.746	-0.02	25.6858	0.00E+00
10/12/2019	9:24:00 AM	10.964	17.4235	35.3549	1.0687	4.76E-02	0.1334	4.57E+04	7.7979	101.417	11.057	-0.742	0.05	25.693	0.00E+00
10/12/2019	9:23:10 AM	11.004	17.6547	35.2841	1.0298	4.76E-02	0.093	4.59E+04	7.7424	99.648	11.063	0.916	-0.05	25.5634	0.00E+00
10/12/2019	9:24:00 AM	11.157	17.4076	35.3572	1.0672	4.76E-02	0.1381	4.57E+04	7.7786	101.078	11.256	-0.753	0.04	25.699	0.00E+00
10/12/2019	9:23:11 AM	11.238	17.6273	35.2775	1.0405	4.76E-02	0.121	4.59E+04	7.7323	99.48	11.297	0.911	-0.02	25.5634	0.00E+00
10/12/2019	9:23:59 AM	11.347	17.3904	35.3587	1.1267	4.76E-02	0.1256	4.57E+04	7.7674	100.825	11.464	-0.762	-0.01	25.7043	0.00E+00
10/12/2019	9:23:11 AM	11.472	17.5987	35.2732	1.0428	4.76E-02	0.121	4.59E+04	7.7113	99.177	11.521	0.914	0.01	25.5661	0.00E+00
10/12/2019	9:23:59 AM	11.535	17.3729	35.361	1.129	4.76E-02	0.0899	4.57E+04	7.7476	100.527	11.65	-0.76	-0.09	25.7104	0.00E+00
10/12/2019	9:23:11 AM	11.707	17.571	35.2722	1.0436	4.76E-02	0.1179	4.58E+04	7.6817	98.759	11.748	0.921	0.03	25.572	0.00E+00
10/12/2019	9:23:59 AM	11.719	17.3554	35.3625	1.1252	4.76E-02	0.0914	4.56E+04	7.7412	100.409	11.805	-0.738	-0.16	25.7159	0.00E+00
10/12/2019	9:23:58 AM	11.902	17.3374	35.3613	1.1275	4.76E-02	0.093	4.56E+04	7.7339	100.279	11.95	-0.698	-0.19	25.719	0.00E+00
10/12/2019	9:23:11 AM	11.943	17.5461	35.2755	1.0405	4.76E-02	0.1163	4.58E+04	7.6687	98.557	11.977	0.926	0.02	25.5815	0.00E+00
10/12/2019	9:23:58 AM	12.086	17.3194	35.3583	1.1298	4.76E-02	0.0992	4.56E+04	7.7321	100.198	12.151	-0.651	-0.12	25.7203	0.00E+00
10/12/2019	9:23:11 AM	12.182	17.5252	35.2827	1.0649	4.76E-02	0.1334	4.58E+04	7.6506	98.294	12.215	0.928	0.01	25.5938	0.00E+00
10/12/2019	9:23:58 AM	12.269	17.3027	35.3549	1.2129	4.76E-02	0.1241	4.56E+04	7.7327	100.174	12.369	-0.622	-0.04	25.7206	0.00E+00
10/12/2019	9:23:12 AM	12.422	17.5083	35.2918	1.0657	4.76E-02	0.1381	4.58E+04	7.6353	98.07	12.461	0.931	0.01	25.6068	0.00E+00
10/12/2019	9:23:58 AM	12.451	17.2881	35.3514	1.2114	4.76E-02	0.1241	4.56E+04	7.7368	100.188	12.586	-0.613	0.04	25.7205	0.00E+00

10/12/2019	9:23:58 AM	12.628	17.2758	35.3484	1.2137	4.76E-02	0.1148	4.56E+04	7.74	100.209	12.793	-0.624	0.1	25.7202	0.00E+00
10/12/2019	9:23:12 AM	12.665	17.4944	35.3005	1.068	4.76E-02	0.1381	4.58E+04	7.6149	97.787	12.717	0.938	0.03	25.6186	0.00E+00
10/12/2019	9:23:57 AM	12.8	17.2655	35.3467	1.2114	4.76E-02	0.1148	4.56E+04	7.7455	100.246	12.969	-0.649	0.13	25.7207	0.00E+00
10/12/2019	9:23:12 AM	12.908	17.4816	35.3072	1.0664	4.76E-02	0.1427	4.58E+04	7.596	97.527	12.986	0.953	0.06	25.6278	0.00E+00
10/12/2019	9:23:57 AM	12.967	17.257	35.3461	1.2137	4.76E-02	0.0977	4.55E+04	7.7479	100.248	13.096	-0.682	0.06	25.7219	0.00E+00
10/12/2019	9:23:57 AM	13.13	17.2495	35.3459	1.2114	4.76E-02	0.0961	4.55E+04	7.7536	100.283	13.197	-0.697	-0.03	25.7234	0.00E+00
10/12/2019	9:23:13 AM	13.151	17.4672	35.3101	1.0787	4.76E-02	0.1334	4.58E+04	7.5793	97.294	13.254	0.976	0.09	25.6334	0.00E+00
10/12/2019	9:23:56 AM	13.293	17.2425	35.3458	1.2122	4.76E-02	0.0883	4.55E+04	7.7541	100.246	13.324	-0.689	-0.1	25.7249	0.00E+00
10/12/2019	9:23:13 AM	13.392	17.449	35.3083	1.0771	4.76E-02	0.1241	4.57E+04	7.5781	97.26	13.524	1.003	0.11	25.6351	0.00E+00
10/12/2019	9:23:56 AM	13.459	17.2357	35.3459	1.2106	4.76E-02	0.0961	4.55E+04	7.7526	100.206	13.495	-0.664	-0.06	25.7265	0.00E+00
10/12/2019	9:23:56 AM	13.626	17.2291	35.3465	1.2618	4.76E-02	0.0945	4.55E+04	7.7495	100.148	13.698	-0.65	-0.02	25.7287	0.00E+00
10/12/2019	9:23:13 AM	13.629	17.4266	35.3025	1.0787	4.76E-02	0.1381	4.57E+04	7.5789	97.252	13.782	1.025	0.09	25.6342	0.00E+00
10/12/2019	9:23:56 AM	13.794	17.2226	35.3478	1.2625	4.76E-02	0.0899	4.55E+04	7.7456	100.077	13.887	-0.646	-0.02	25.7314	0.00E+00
10/12/2019	9:23:13 AM	13.862	17.4021	35.2969	1.0787	4.76E-02	0.1318	4.57E+04	7.5844	97.301	14.017	1.035	0.04	25.6342	0.00E+00
10/12/2019	9:23:56 AM	13.961	17.2158	35.3492	1.2625	4.76E-02	0.0961	4.55E+04	7.7448	100.039	14.068	-0.64	-0.03	25.7343	0.00E+00
10/12/2019	9:23:13 AM	14.091	17.3777	35.2956	1.0787	4.76E-02	0.1365	4.57E+04	7.5958	97.419	14.236	1.028	-0.03	25.6387	0.00E+00
10/12/2019	9:23:55 AM	14.126	17.2085	35.3505	1.2633	4.76E-02	0.093	4.55E+04	7.7397	99.953	14.237	-0.632	-0.04	25.7373	0.00E+00
10/12/2019	9:23:55 AM	14.289	17.2007	35.3523	1.2854	4.76E-02	0.0992	4.55E+04	7.7328	99.838	14.404	-0.621	0	25.7409	0.00E+00
10/12/2019	9:23:14 AM	14.315	17.3545	35.2985	1.1244	4.76E-02	0.1225	4.57E+04	7.6156	97.644	14.449	1.007	-0.09	25.6468	0.00E+00
10/12/2019	9:23:55 AM	14.45	17.1924	35.3546	1.2869	4.76E-02	0.1148	4.55E+04	7.7291	99.758	14.538	-0.621	-0.02	25.745	0.00E+00
10/12/2019	9:23:14 AM	14.535	17.3325	35.3031	1.1267	4.76E-02	0.1179	4.56E+04	7.6368	97.889	14.668	0.977	-0.12	25.6563	0.00E+00
10/12/2019	9:23:54 AM	14.611	17.1834	35.357	1.2885	4.76E-02	0.121	4.55E+04	7.7172	99.563	14.684	-0.615	-0.04	25.7496	0.00E+00
10/12/2019	9:23:14 AM	14.753	17.3107	35.3076	1.1267	4.76E-02	0.1101	4.56E+04	7.6596	98.149	14.893	0.945	-0.13	25.6654	0.00E+00
10/12/2019	9:23:54 AM	14.772	17.1733	35.3593	1.2839	4.76E-02	0.1148	4.55E+04	7.7056	99.383	14.835	-0.605	-0.01	25.7543	0.00E+00
10/12/2019	9:23:54 AM	14.934	17.1621	35.3624	1.2885	4.76E-02	0.1179	4.55E+04	7.6925	99.186	15.04	-0.603	0.09	25.7599	0.00E+00
10/12/2019	9:23:14 AM	14.967	17.2881	35.3104	1.129	4.76E-02	0.1163	4.56E+04	7.6686	98.239	15.112	0.916	-0.11	25.6728	0.00E+00
10/12/2019	9:23:54 AM	15.095	17.1498	35.366	1.3739	4.76E-02	0.1225	4.54E+04	7.6853	99.052	15.209	-0.627	0.14	25.7663	0.00E+00
10/12/2019	9:23:15 AM	15.176	17.2651	35.3113	1.1771	4.76E-02	0.1318	4.56E+04	7.6675	98.201	15.325	0.892	-0.1	25.6787	0.00E+00
10/12/2019	9:23:53 AM	15.254	17.1363	35.3682	1.3724	4.76E-02	0.1225	4.54E+04	7.6849	99.003	15.348	-0.663	0.14	25.7717	0.00E+00
10/12/2019	9:23:15 AM	15.382	17.243	35.3126	1.1763	4.76E-02	0.1318	4.56E+04	7.6634	98.126	15.534	0.875	-0.07	25.6852	0.00E+00
10/12/2019	9:23:53 AM	15.413	17.1213	35.3681	1.3709	4.76E-02	0.1163	4.54E+04	7.6861	98.987	15.474	-0.697	0.13	25.7751	0.00E+00
10/12/2019	9:23:53 AM	15.574	17.1058	35.367	1.3739	4.76E-02	0.1116	4.54E+04	7.6927	99.047	15.605	-0.729	0.08	25.7776	0.00E+00
10/12/2019	9:23:15 AM	15.584	17.2224	35.3164	1.1733	4.76E-02	0.1365	4.55E+04	7.6491	97.925	15.738	0.865	-0.04	25.6936	0.00E+00
10/12/2019	9:23:53 AM	15.737	17.091	35.367	1.4472	4.76E-02	0.0961	4.54E+04	7.7065	99.205	15.778	-0.747	0.08	25.7809	0.00E+00
10/12/2019	9:23:16 AM	15.782	17.203	35.3213	1.174	4.76E-02	0.1365	4.55E+04	7.6303	97.673	15.94	0.856	-0.03	25.7027	0.00E+00
10/12/2019	9:23:53 AM	15.903	17.0771	35.3689	1.4426	4.76E-02	0.0961	4.54E+04	7.7187	99.346	15.933	-0.768	0.05	25.7858	0.00E+00
10/12/2019	9:23:16 AM	15.975	17.1846	35.3251	1.3007	4.76E-02	0.1878	4.55E+04	7.6152	97.467	16.139	0.846	-0.04	25.7106	0.00E+00
10/12/2019	9:23:52 AM	16.074	17.0635	35.3718	1.4433	4.76E-02	0.0961	4.54E+04	7.7279	99.455	16.085	-0.781	0.01	25.7917	0.00E+00
10/12/2019	9:23:16 AM	16.163	17.1675	35.3283	1.2976	4.76E-02	0.1847	4.55E+04	7.6019	97.279	16.326	0.829	-0.07	25.7177	0.00E+00
10/12/2019	9:23:52 AM	16.248	17.049	35.3737	1.4449	4.76E-02	0.093	4.54E+04	7.7391	99.59	16.277	-0.783	0.01	25.797	0.00E+00
10/12/2019	9:23:16 AM	16.348	17.1519	35.3319	1.2984	4.76E-02	0.1831	4.55E+04	7.5891	97.091	16.499	0.807	-0.09	25.7249	0.00E+00
10/12/2019	9:23:52 AM	16.427	17.0335	35.3743	1.5555	4.76E-02	0.1396	4.53E+04	7.7503	99.72	16.475	-0.785	-0.01	25.8015	0.00E+00
10/12/2019	9:23:16 AM	16.528	17.1378	35.3358	1.3007	4.76E-02	0.1831	4.55E+04	7.5834	96.989	16.662	0.78	-0.1	25.732	0.00E+00
10/12/2019	9:23:51 AM	16.608	17.0172	35.3749	1.5555	4.76E-02	0.1381	4.53E+04	7.7582	99.811	16.669	-0.782	-0.03	25.8059	0.00E+00
10/12/2019	9:23:17 AM	16.706	17.1252	35.3395	1.3739	4.76E-02	0.135	4.54E+04	7.5803	96.905	16.823	0.752	-0.11	25.7386	0.00E+00
10/12/2019	9:23:51 AM	16.791	17.0007	35.3752	1.5578	4.76E-02	0.1318	4.53E+04	7.7649	99.886	16.855	-0.774	-0.1	25.81	0.00E+00
10/12/2019	9:23:17 AM	16.883	17.1134	35.3427	1.3701	4.76E-02	0.1318	4.54E+04	7.5825	96.89	16.983	0.724	-0.11	25.7444	0.00E+00
10/12/2019	9:23:51 AM	16.976	16.9841	35.3747	1.5563	4.76E-02	0.135	4.53E+04	7.7721	99.968	17.064	-0.749	-0.1	25.8135	0.00E+00
10/12/2019	9:23:17 AM	17.058	17.1019	35.345	1.3716	4.76E-02	0.1412	4.54E+04	7.5818	96.849	17.151	0.699	-0.1	25.7492	0.00E+00
10/12/2019	9:23:51 AM	17.161	16.9674	35.3737	1.6783	4.76E-02	0.1381	4.53E+04	7.7782	100.034	17.25	-0.723	-0.08	25.8165	0.00E+00
10/12/2019	9:23:18 AM	17.234	17.0903	35.3462	1.3732	4.76E-02	0.1365	4.54E+04	7.578	96.774	17.321	0.68	-0.08	25.753	0.00E+00

10/12/2019	9:23:51 AM	17.347	16.9512	35.3732	1.6776	4.76E-02	0.1179	4.53E+04	7.7797	100.039	17.449	-0.703	-0.07	25.8198	0.00E+00
10/12/2019	9:23:18 AM	17.411	17.0783	35.3464	1.3724	4.76E-02	0.1365	4.54E+04	7.5778	96.747	17.487	0.667	-0.05	25.7559	0.00E+00
10/12/2019	9:23:50 AM	17.532	16.9356	35.3739	1.6783	4.76E-02	0.121	4.52E+04	7.7772	99.994	17.648	-0.687	-0.04	25.824	0.00E+00
10/12/2019	9:23:18 AM	17.589	17.0656	35.3457	1.4174	4.76E-02	0.121	4.54E+04	7.5814	96.756	17.645	0.659	-0.03	25.7581	0.00E+00
10/12/2019	9:23:50 AM	17.717	16.9203	35.3754	1.6783	4.76E-02	0.121	4.52E+04	7.7704	99.892	17.845	-0.677	0.01	25.8289	0.00E+00
10/12/2019	9:23:18 AM	17.77	17.052	35.3443	1.4197	4.76E-02	0.1272	4.54E+04	7.593	96.849	17.807	0.656	-0.01	25.7599	0.00E+00
10/12/2019	9:23:50 AM	17.899	16.9049	35.3767	1.6791	4.76E-02	0.1132	4.52E+04	7.7605	99.749	18.043	-0.68	0.06	25.8338	0.00E+00
10/12/2019	9:23:18 AM	17.955	17.0379	35.3427	1.4235	4.76E-02	0.1163	4.54E+04	7.6126	97.018	17.977	0.658	0.01	25.7617	0.00E+00
10/12/2019	9:23:49 AM	18.079	16.8889	35.3782	1.6799	4.76E-02	0.1148	4.52E+04	7.7517	99.615	18.221	-0.696	0.07	25.839	0.00E+00
10/12/2019	9:23:19 AM	18.144	17.0239	35.3419	1.4235	4.76E-02	0.1132	4.54E+04	7.636	97.236	18.162	0.665	0.03	25.7643	0.00E+00
10/12/2019	9:23:49 AM	18.256	16.8724	35.3814	1.6791	4.76E-02	0.1194	4.52E+04	7.74	99.442	18.395	-0.714	0.04	25.8459	0.00E+00
10/12/2019	9:23:19 AM	18.338	17.0102	35.342	1.4212	4.76E-02	0.1381	4.53E+04	7.6575	97.439	18.357	0.678	0.05	25.7678	0.00E+00
10/12/2019	9:23:49 AM	18.432	16.8553	35.3862	1.6783	4.76E-02	0.1163	4.52E+04	7.7206	99.172	18.529	-0.725	-0.02	25.8545	0.00E+00
10/12/2019	9:23:19 AM	18.537	16.9973	35.3426	1.4227	4.76E-02	0.1365	4.53E+04	7.6905	97.791	18.571	0.698	0.08	25.7716	0.00E+00
10/12/2019	9:23:49 AM	18.607	16.8366	35.3898	1.6791	4.76E-02	0.121	4.51E+04	7.7044	98.937	18.684	-0.721	-0.06	25.8625	0.00E+00
10/12/2019	9:23:20 AM	18.741	16.9854	35.3437	1.4166	4.76E-02	0.1318	4.53E+04	7.7186	98.066	18.796	0.729	0.12	25.7757	0.00E+00
10/12/2019	9:23:49 AM	18.784	16.8158	35.3912	1.5669	4.76E-02	0.1334	4.51E+04	7.6906	98.724	18.88	-0.706	-0.04	25.8689	0.00E+00
10/12/2019	9:23:20 AM	18.947	16.9744	35.3449	1.4182	4.76E-02	0.135	4.53E+04	7.7343	98.171	19.03	0.769	0.16	25.7797	0.00E+00
10/12/2019	9:23:48 AM	18.961	16.7936	35.3925	1.5669	4.76E-02	0.1365	4.51E+04	7.6768	98.509	19.049	-0.696	-0.02	25.8752	0.00E+00
10/12/2019	9:23:48 AM	19.14	16.7712	35.3937	1.5654	4.76E-02	0.1318	4.51E+04	7.671	98.411	19.227	-0.691	0	25.8813	0.00E+00
10/12/2019	9:23:20 AM	19.155	16.964	35.346	1.5807	4.76E-02	0.1365	4.53E+04	7.7247	97.951	19.273	0.815	0.19	25.7833	0.00E+00
10/12/2019	9:23:48 AM	19.319	16.7488	35.3935	1.5692	4.76E-02	0.1365	4.51E+04	7.6649	98.313	19.424	-0.692	0.06	25.8864	0.00E+00
10/12/2019	9:23:20 AM	19.362	16.9539	35.3469	1.5799	4.76E-02	0.1334	4.53E+04	7.6941	97.483	19.51	0.858	0.17	25.7866	0.00E+00
10/12/2019	9:23:48 AM	19.499	16.7265	35.3942	1.5776	4.76E-02	0.1629	4.50E+04	7.6532	98.144	19.619	-0.708	0.14	25.892	0.00E+00
10/12/2019	9:23:20 AM	19.567	16.9431	35.3471	1.5799	4.76E-02	0.135	4.53E+04	7.6319	96.638	19.711	0.885	0.1	25.7893	0.00E+00
10/12/2019	9:23:47 AM	19.678	16.7047	35.3968	1.5769	4.76E-02	0.1552	4.50E+04	7.6585	98.185	19.798	-0.744	0.15	25.8994	0.00E+00
10/12/2019	9:23:21 AM	19.77	16.9308	35.3454	1.5792	4.76E-02	0.1303	4.53E+04	7.544	95.49	19.909	0.894	0.04	25.7904	0.00E+00
10/12/2019	9:23:47 AM	19.857	16.6829	35.3994	1.5799	4.76E-02	0.1536	4.50E+04	7.6685	98.279	19.949	-0.781	0.12	25.9069	0.00E+00
10/12/2019	9:23:21 AM	19.971	16.9162	35.3418	1.6425	4.76E-02	0.1598	4.52E+04	7.4397	94.148	20.11	0.889	-0.02	25.7902	0.00E+00
10/12/2019	9:23:47 AM	20.037	16.6601	35.4009	1.5792	4.76E-02	0.1614	4.50E+04	7.6838	98.439	20.111	-0.811	0.09	25.9137	0.00E+00
10/12/2019	9:23:21 AM	20.17	16.8993	35.3371	1.6432	4.76E-02	0.1583	4.52E+04	7.3145	92.547	20.323	0.877	-0.05	25.7895	0.00E+00
10/12/2019	9:23:46 AM	20.219	16.6365	35.4021	1.6249	4.76E-02	0.1598	4.50E+04	7.7022	98.648	20.275	-0.834	0.03	25.9204	0.00E+00
10/12/2019	9:23:21 AM	20.367	16.8806	35.3324	1.6402	4.76E-02	0.1598	4.52E+04	7.1907	90.965	20.54	0.862	-0.06	25.7894	0.00E+00
10/12/2019	9:23:46 AM	20.404	16.6126	35.4033	1.641	4.76E-02	0.1318	4.49E+04	7.7253	98.907	20.446	-0.84	-0.02	25.9271	0.00E+00
10/12/2019	9:23:22 AM	20.561	16.8615	35.3293	1.6417	4.76E-02	0.1598	4.52E+04	7.0797	89.534	20.688	0.831	-0.13	25.791	0.00E+00
10/12/2019	9:23:46 AM	20.594	16.5884	35.4047	1.6402	4.76E-02	0.1334	4.49E+04	7.7555	99.261	20.645	-0.834	-0.04	25.9342	0.00E+00
10/12/2019	9:23:22 AM	20.755	16.8425	35.3286	1.6455	4.76E-02	0.1567	4.52E+04	6.981	88.251	20.763	0.771	-0.24	25.7949	0.00E+00
10/12/2019	9:23:46 AM	20.788	16.5638	35.4057	1.641	4.76E-02	0.135	4.49E+04	7.7812	99.557	20.844	-0.823	-0.04	25.941	0.00E+00
10/12/2019	9:23:22 AM	20.955	16.8227	35.3288	1.5906	4.76E-02	0.1179	4.51E+04	6.8988	87.172	20.868	0.705	-0.26	25.7996	0.00E+00
10/12/2019	9:23:46 AM	20.985	16.5382	35.4053	1.6402	4.76E-02	0.1303	4.49E+04	7.8118	99.923	21.058	-0.812	-0.03	25.9468	0.00E+00
10/12/2019	9:23:23 AM	21.167	16.8001	35.3269	1.5906	4.76E-02	0.1179	4.51E+04	6.8311	86.27	21.073	0.667	-0.15	25.8026	0.00E+00
10/12/2019	9:23:45 AM	21.184	16.5121	35.4041	1.6181	4.76E-02	0.1303	4.48E+04	7.8218	100.028	21.297	-0.805	0.02	25.9516	0.00E+00
10/12/2019	9:23:45 AM	21.385	16.4862	35.4012	1.6204	4.76E-02	0.1381	4.48E+04	7.8208	99.984	21.497	-0.81	0.06	25.9549	0.00E+00
10/12/2019	9:23:23 AM	21.392	16.7734	35.322	1.5921	4.76E-02	0.1179	4.51E+04	6.7819	85.599	21.325	0.658	-0.04	25.8036	0.00E+00
10/12/2019	9:23:45 AM	21.586	16.4612	35.3959	1.6135	4.76E-02	0.1381	4.48E+04	7.8138	99.865	21.708	-0.826	0.06	25.9556	0.00E+00
10/12/2019	9:23:23 AM	21.628	16.7417	35.3146	1.5921	4.76E-02	0.1163	4.51E+04	6.7477	85.13	21.566	0.672	0.06	25.8032	0.00E+00
10/12/2019	9:23:44 AM	21.787	16.4379	35.3903	1.6165	4.76E-02	0.1396	4.48E+04	7.7955	99.601	21.915	-0.842	0.04	25.9553	0.00E+00
10/12/2019	9:23:23 AM	21.875	16.706	35.3059	1.5906	4.76E-02	0.1334	4.50E+04	6.721	84.762	21.843	0.716	0.18	25.8028	0.00E+00
10/12/2019	9:23:44 AM	21.988	16.4176	35.3865	1.5212	4.76E-02	0.1225	4.47E+04	7.7596	99.116	22.102	-0.853	0.01	25.9559	0.00E+00
10/12/2019	9:23:23 AM	22.132	16.6686	35.2991	1.5921	4.76E-02	0.1396	4.50E+04	6.6904	84.355	22.114	0.788	0.29	25.8051	0.00E+00
10/12/2019	9:23:44 AM	22.189	16.4004	35.3841	1.5174	4.76E-02	0.1179	4.47E+04	7.712	98.475	22.298	-0.855	-0.07	25.9572	0.00E+00

10/12/2019	9:23:44 AM	22.391	16.3853	35.3816	1.5174	4.76E-02	0.1148	4.47E+04	7.6641	97.811	22.492	-0.838	-0.14	25.9581	0.00E+00
10/12/2019	9:23:24 AM	22.398	16.6305	35.2965	1.5952	4.76E-02	0.1303	4.50E+04	6.6579	83.932	22.383	0.885	0.39	25.8115	0.00E+00
10/12/2019	9:23:44 AM	22.594	16.3717	35.379	1.5189	4.76E-02	0.1132	4.47E+04	7.5988	96.933	22.709	-0.804	-0.16	25.9586	0.00E+00
10/12/2019	9:23:24 AM	22.672	16.5912	35.2954	1.5906	4.76E-02	0.1381	4.49E+04	6.6213	83.461	22.681	0.988	0.41	25.8195	0.00E+00
10/12/2019	9:23:43 AM	22.798	16.3596	35.3772	1.4067	4.76E-02	0.1256	4.47E+04	7.5459	96.215	22.92	-0.764	-0.13	25.9595	0.00E+00
10/12/2019	9:23:24 AM	22.954	16.5503	35.2926	1.5822	4.76E-02	0.1645	4.49E+04	6.584	82.984	22.989	1.065	0.31	25.8263	0.00E+00
10/12/2019	9:23:43 AM	23.002	16.3489	35.3759	1.4075	4.76E-02	0.1194	4.47E+04	7.4859	95.412	23.132	-0.732	-0.05	25.9606	0.00E+00
10/12/2019	9:23:43 AM	23.206	16.3392	35.3751	1.4067	4.76E-02	0.1132	4.47E+04	7.4175	94.494	23.382	-0.718	0.07	25.9618	0.00E+00
10/12/2019	9:23:25 AM	23.241	16.509	35.2894	1.5814	4.76E-02	0.1629	4.48E+04	6.5469	82.508	23.307	1.113	0.19	25.8331	0.00E+00
10/12/2019	9:23:42 AM	23.408	16.3303	35.3753	1.4105	4.76E-02	0.1163	4.46E+04	7.3505	93.611	23.591	-0.737	0.2	25.964	0.00E+00
10/12/2019	9:23:25 AM	23.532	16.47	35.2895	1.5776	4.76E-02	0.1567	4.48E+04	6.5058	81.981	23.639	1.156	0.17	25.8427	0.00E+00
10/12/2019	9:23:42 AM	23.606	16.322	35.3767	1.3533	4.76E-02	0.1256	4.46E+04	7.2939	92.853	23.782	-0.786	0.21	25.9672	0.00E+00
10/12/2019	9:23:42 AM	23.801	16.3136	35.3786	1.2984	4.76E-02	0.1179	4.46E+04	7.236	92.076	23.981	-0.84	0.19	25.971	0.00E+00
10/12/2019	9:23:25 AM	23.825	16.4361	35.2951	1.5769	4.76E-02	0.1629	4.48E+04	6.471	81.537	23.963	1.198	0.17	25.8567	0.00E+00
10/12/2019	9:23:42 AM	23.994	16.3045	35.3811	1.2999	4.76E-02	0.1148	4.46E+04	7.182	91.34	24.135	-0.888	0.08	25.9755	0.00E+00
10/12/2019	9:23:25 AM	24.118	16.4084	35.3057	1.5196	4.76E-02	0.1412	4.47E+04	6.445	81.205	24.271	1.227	0.12	25.874	0.00E+00
10/12/2019	9:23:42 AM	24.187	16.2945	35.3851	1.3007	4.76E-02	0.1194	4.46E+04	7.1275	90.612	24.286	-0.909	-0.05	25.9817	0.00E+00
10/12/2019	9:23:41 AM	24.382	16.2832	35.3898	1.2969	4.76E-02	0.1179	4.46E+04	7.0787	89.948	24.445	-0.896	-0.18	25.9889	0.00E+00
10/12/2019	9:23:25 AM	24.41	16.3863	35.318	1.5196	4.76E-02	0.1334	4.47E+04	6.4266	80.969	24.578	1.249	0.09	25.8914	0.00E+00
10/12/2019	9:23:41 AM	24.581	16.2698	35.3935	1.1412	4.76E-02	0.1318	4.46E+04	7.0366	89.371	24.642	-0.85	-0.26	25.9958	0.00E+00
10/12/2019	9:23:26 AM	24.699	16.368	35.3283	1.5174	4.76E-02	0.1365	4.47E+04	6.4109	80.769	24.866	1.256	0.03	25.9058	0.00E+00
10/12/2019	9:23:41 AM	24.784	16.2541	35.3946	1.1397	4.76E-02	0.1396	4.46E+04	6.9981	88.836	24.879	-0.786	-0.2	26.0005	0.00E+00
10/12/2019	9:23:26 AM	24.988	16.3516	35.335	1.5143	4.76E-02	0.1334	4.47E+04	6.3975	80.6	25.134	1.241	-0.06	25.9161	0.00E+00
10/12/2019	9:23:41 AM	24.989	16.2369	35.3917	1.1374	4.76E-02	0.135	4.46E+04	6.9634	88.341	25.123	-0.736	-0.14	26.0018	0.00E+00
10/12/2019	9:23:40 AM	25.194	16.2197	35.3863	1.1389	4.76E-02	0.1334	4.45E+04	6.9389	87.985	25.412	-0.701	-0.04	26.0005	0.00E+00
10/12/2019	9:23:26 AM	25.276	16.3349	35.3378	1.5196	4.76E-02	0.1365	4.47E+04	6.3834	80.426	25.407	1.215	-0.11	25.9224	0.00E+00
10/12/2019	9:23:40 AM	25.395	16.2045	35.3811	1.0687	4.76E-02	0.1583	4.45E+04	6.9162	87.649	25.645	-0.691	0.01	25.9986	0.00E+00
10/12/2019	9:23:27 AM	25.564	16.3165	35.3366	1.3953	4.76E-02	0.1318	4.46E+04	6.3768	80.345	25.684	1.183	-0.13	25.9253	0.00E+00
10/12/2019	9:23:40 AM	25.59	16.1925	35.3771	1.0664	4.76E-02	0.1598	4.45E+04	6.9	87.398	25.841	-0.694	0	25.9971	0.00E+00
10/12/2019	9:23:39 AM	25.779	16.1834	35.374	1.0664	4.76E-02	0.1645	4.45E+04	6.8795	87.111	26.013	-0.693	-0.05	25.9959	0.00E+00
10/12/2019	9:23:27 AM	25.854	16.2961	35.3329	1.3945	4.76E-02	0.1334	4.46E+04	6.3758	80.334	25.981	1.157	-0.1	25.9264	0.00E+00
10/12/2019	9:23:39 AM	25.962	16.1766	35.3717	1.068	4.76E-02	0.1614	4.45E+04	6.8608	86.852	26.165	-0.681	-0.1	25.9951	0.00E+00
10/12/2019	9:23:39 AM	26.142	16.1714	35.37	1.0306	4.76E-02	0.1862	4.45E+04	6.8458	86.642	26.314	-0.655	-0.1	25.9945	0.00E+00
10/12/2019	9:23:27 AM	26.144	16.274	35.3292	1.396	4.76E-02	0.1334	4.46E+04	6.3801	80.388	26.286	1.145	-0.05	25.9279	0.00E+00
10/12/2019	9:23:39 AM	26.32	16.1675	35.3687	1.0306	4.76E-02	0.1893	4.45E+04	6.8276	86.39	26.465	-0.63	-0.08	25.9939	0.00E+00
10/12/2019	9:23:27 AM	26.435	16.2515	35.3271	1.396	4.76E-02	0.1303	4.46E+04	6.3863	80.468	26.599	1.148	0.01	25.9309	0.00E+00
10/12/2019	9:23:39 AM	26.497	16.1645	35.3676	1.0283	4.76E-02	0.1847	4.45E+04	6.8073	86.113	26.679	-0.609	0.03	25.9935	0.00E+00
10/12/2019	9:23:38 AM	26.672	16.1622	35.3669	1.0314	4.76E-02	0.1862	4.45E+04	6.7807	85.764	26.877	-0.618	0.13	25.9932	0.00E+00
10/12/2019	9:23:28 AM	26.725	16.23	35.3269	1.1778	4.76E-02	0.1598	4.46E+04	6.3962	80.594	26.902	1.158	0.04	25.9359	0.00E+00
10/12/2019	9:23:38 AM	26.844	16.1606	35.3664	1.0222	4.76E-02	0.1847	4.45E+04	6.7517	85.381	27.051	-0.651	0.23	25.993	0.00E+00
10/12/2019	9:23:28 AM	27.013	16.211	35.3297	1.1778	4.76E-02	0.1598	4.45E+04	6.409	80.757	27.201	1.175	0.07	25.9432	0.00E+00
10/12/2019	9:23:38 AM	27.013	16.1595	35.3661	1.0062	4.76E-02	0.1847	4.45E+04	6.7163	84.925	27.216	-0.709	0.24	25.993	0.00E+00
10/12/2019	9:23:37 AM	27.179	16.1586	35.366	1.0054	4.76E-02	0.1785	4.45E+04	6.6809	84.466	27.35	-0.769	0.15	25.993	0.00E+00
10/12/2019	9:23:28 AM	27.299	16.1953	35.3349	1.1771	4.76E-02	0.1505	4.45E+04	6.4175	80.867	27.503	1.194	0.07	25.9522	0.00E+00
10/12/2019	9:23:37 AM	27.344	16.1579	35.3661	1.0077	4.76E-02	0.194	4.45E+04	6.6371	83.901	27.473	-0.808	0.02	25.9932	0.00E+00
10/12/2019	9:23:37 AM	27.51	16.1573	35.3663	1.0077	4.76E-02	0.1878	4.45E+04	6.5981	83.395	27.595	-0.812	-0.11	25.9936	0.00E+00
10/12/2019	9:23:28 AM	27.582	16.1828	35.3409	1.174	4.76E-02	0.1567	4.45E+04	6.4333	81.072	27.801	1.206	0.05	25.9612	0.00E+00
10/12/2019	9:23:37 AM	27.68	16.1567	35.3665	0.9345	4.76E-02	0.1816	4.45E+04	6.5707	83.035	27.769	-0.784	-0.19	25.9939	0.00E+00
10/12/2019	9:23:37 AM	27.854	16.1559	35.3663	0.9345	4.76E-02	0.1831	4.45E+04	6.5447	82.691	27.958	-0.736	-0.23	25.9939	0.00E+00
10/12/2019	9:23:28 AM	27.861	16.173	35.3467	1.0924	4.76E-02	0.1862	4.45E+04	6.4398	81.156	28.117	1.215	0.04	25.9694	0.00E+00
10/12/2019	9:23:36 AM	28.03	16.1552	35.3658	0.9329	4.76E-02	0.1862	4.45E+04	6.5261	82.434	28.176	-0.677	-0.22	25.9935	0.00E+00

10/12/2019	9:23:29 AM	28.133	16.1654	35.3517	1.0916	4.76E-02	0.1831	4.45E+04	6.4464	81.241	28.426	1.218	0.01	25.9761	0.00E+00
10/12/2019	9:23:36 AM	28.208	16.1546	35.3651	0.9306	4.76E-02	0.1847	4.45E+04	6.5127	82.228	28.396	-0.622	-0.16	25.993	0.00E+00
10/12/2019	9:23:36 AM	28.383	16.1544	35.3647	0.9909	4.76E-02	0.1831	4.45E+04	6.5028	82.068	28.648	-0.582	-0.03	25.9926	0.00E+00
10/12/2019	9:23:29 AM	28.396	16.1591	35.3552	1.0901	4.76E-02	0.18	4.45E+04	6.4509	81.3	28.73	1.219	0	25.9811	0.00E+00
10/12/2019	9:23:35 AM	28.552	16.1545	35.3646	0.9947	4.76E-02	0.1831	4.45E+04	6.5015	82.013	28.849	-0.574	-0.01	25.9924	0.00E+00
10/12/2019	9:23:29 AM	28.649	16.1537	35.3572	1.0893	4.76E-02	0.1847	4.45E+04	6.4558	81.363	29.023	1.216	-0.01	25.9844	0.00E+00
10/12/2019	9:23:35 AM	28.712	16.1548	35.3646	0.9917	4.76E-02	0.1816	4.45E+04	6.4932	81.883	29.011	-0.572	-0.03	25.9923	0.00E+00
10/12/2019	9:23:35 AM	28.865	16.1552	35.3649	0.9963	4.76E-02	0.18	4.45E+04	6.4901	81.831	29.143	-0.565	-0.12	25.9925	0.00E+00
10/12/2019	9:23:30 AM	28.889	16.1491	35.3586	0.9833	4.76E-02	0.1614	4.45E+04	6.4584	81.397	29.327	1.216	0	25.9869	0.00E+00
10/12/2019	9:23:35 AM	29.01	16.1555	35.3655	0.9261	4.76E-02	0.208	4.45E+04	6.4904	81.826	29.288	-0.535	-0.22	25.993	0.00E+00
10/12/2019	9:23:30 AM	29.11	16.1455	35.3601	0.9833	4.76E-02	0.1598	4.45E+04	6.4637	81.464	29.629	1.216	0	25.9893	0.00E+00
10/12/2019	9:23:35 AM	29.148	16.1556	35.3663	0.9223	4.76E-02	0.2096	4.45E+04	6.4893	81.805	29.42	-0.479	-0.32	25.9937	0.00E+00
10/12/2019	9:23:34 AM	29.279	16.1555	35.367	0.9192	4.76E-02	0.2096	4.45E+04	6.4905	81.816	29.555	-0.399	-0.38	25.9945	0.00E+00
10/12/2019	9:23:30 AM	29.309	16.1427	35.3617	0.9825	4.76E-02	0.1567	4.45E+04	6.4717	81.564	29.945	1.218	0.01	25.9916	0.00E+00
10/12/2019	9:23:34 AM	29.403	16.155	35.3675	0.9253	4.76E-02	0.2049	4.45E+04	6.4929	81.841	29.694	-0.305	-0.4	25.9952	0.00E+00
10/12/2019	9:23:30 AM	29.479	16.1409	35.3634	0.981	4.76E-02	0.1598	4.45E+04	6.4744	81.598	30.218	1.211	-0.03	25.9937	0.00E+00
10/12/2019	9:23:34 AM	29.519	16.1542	35.368	0.9253	4.76E-02	0.208	4.45E+04	6.4969	81.888	29.855	-0.206	-0.34	25.9958	0.00E+00
10/12/2019	9:23:30 AM	29.615	16.1401	35.3651	0.9848	4.76E-02	0.1614	4.45E+04	6.4856	81.739	30.313	1.147	-0.26	25.9957	0.00E+00
10/12/2019	9:23:34 AM	29.624	16.1531	35.3685	1.0298	4.76E-02	0.3836	4.45E+04	6.4981	81.902	30.026	-0.12	-0.24	25.9966	0.00E+00
10/12/2019	9:23:33 AM	29.714	16.1519	35.3689	1.0283	4.76E-02	0.3836	4.45E+04	6.4937	81.845	30.144	-0.06	-0.16	25.9972	0.00E+00
10/12/2019	9:23:31 AM	29.72	16.1402	35.3668	0.9024	4.76E-02	0.281	4.45E+04	6.49	81.791	30.313	1.021	-0.5	25.9974	0.00E+00
10/12/2019	9:23:33 AM	29.789	16.1503	35.3688	1.0321	4.76E-02	0.3883	4.45E+04	6.4945	81.855	30.243	-0.021	-0.07	25.9975	0.00E+00
10/12/2019	9:23:31 AM	29.797	16.1408	35.3681	0.9001	4.76E-02	0.2857	4.45E+04	6.494	81.841	30.312	0.851	-0.68	25.9986	0.00E+00
10/12/2019	9:23:33 AM	29.845	16.1486	35.3683	1.0314	4.76E-02	0.3836	4.45E+04	6.492	81.823	30.299	-0.004	-0.01	25.9975	0.00E+00
10/12/2019	9:23:31 AM	29.853	16.1417	35.3687	0.9017	4.76E-02	0.2857	4.45E+04	6.4939	81.839	30.312	0.657	-0.78	25.999	0.00E+00
10/12/2019	9:23:32 AM	29.885	16.147	35.3679	0.9345	4.76E-02	0.3308	4.45E+04	6.4924	81.828	30.311	-0.001	-0.1	25.9974	0.00E+00
10/12/2019	9:23:32 AM	29.889	16.1426	35.3685	0.9017	4.76E-02	0.281	4.45E+04	6.4941	81.844	30.311	0.454	-0.81	25.9987	0.00E+00
10/12/2019	9:23:32 AM	29.908	16.1456	35.3675	0.9345	4.76E-02	0.3354	4.45E+04	6.4884	81.777	30.312	0.024	-0.37	25.9974	0.00E+00
10/12/2019	9:23:32 AM	29.91	16.1434	35.368	0.9329	4.76E-02	0.3308	4.45E+04	6.4861	81.745	30.311	0.267	-0.75	25.9981	0.00E+00
10/12/2019	9:23:32 AM	29.916	16.1444	35.3675	0.9337	4.76E-02	0.3401	4.45E+04	6.4875	81.764	30.312	0.116	-0.61	25.9976	0.00E+00

TRANSECT 2 - 250 m

DD MMM YYYY HH:MM:SS	DD MMM YYYY HH:MM:SS	DepSM	Tv290C	Sal00	FlECO-AFL	Par	TurbWETntu0	C0uS/cm	Sbeox0Mg/L	Sbeox0PS	PrdM	Dz/dtM	AccM	Sigma-t00	Flag
10/12/2019	9:26:09 AM	0.403	18.2244	35.3038	0.2158	4.76E-02	0.6012	4.65E+04	7.8257	102.594	0.211	-0.21	-0.16	25.4489	0.00E+00
10/12/2019	9:26:09 AM	0.408	18.2245	35.3038	0.215	4.76E-02	0.6058	4.65E+04	7.8313	102.667	0.21	-0.221	-0.04	25.4491	0.00E+00
10/12/2019	9:26:09 AM	0.426	18.225	35.3046	0.2135	4.76E-02	0.6074	4.65E+04	7.8387	102.763	0.243	-0.197	0.1	25.4497	0.00E+00
10/12/2019	9:26:10 AM	0.455	18.226	35.3058	0.215	4.76E-02	0.6074	4.65E+04	7.8414	102.797	0.344	-0.126	0.28	25.4507	0.00E+00
10/12/2019	9:26:10 AM	0.491	18.227	35.3068	0.4698	4.76E-02	1.3938	4.65E+04	7.8385	102.755	0.442	-0.027	0.4	25.4513	0.00E+00
10/12/2019	9:26:10 AM	0.531	18.2277	35.3071	0.4668	4.76E-02	1.3938	4.65E+04	7.8372	102.736	0.479	0.063	0.36	25.4513	0.00E+00
10/12/2019	9:27:46 AM	0.538	18.2298	34.9005	0.3722	4.76E-02	0.581	4.60E+04	-9.99E-29	-9.99E-29	0.367	-0.439	0.14	25.1404	0.00E+00
10/12/2019	9:26:10 AM	0.574	18.2282	35.3068	0.4683	4.76E-02	1.3969	4.65E+04	7.839	102.758	0.512	0.137	0.29	25.4508	0.00E+00
10/12/2019	9:27:46 AM	0.61	18.2299	35.0624	0.3706	4.76E-02	0.5841	4.62E+04	-9.99E-29	-9.99E-29	0.439	-0.474	0.1	25.2638	0.00E+00
10/12/2019	9:26:10 AM	0.622	18.2284	35.3063	0.4675	4.76E-02	1.3969	4.65E+04	7.8398	102.762	0.559	0.191	0.22	25.4503	0.00E+00
10/12/2019	9:26:11 AM	0.673	18.2284	35.3059	0.2264	4.76E-02	0.7286	4.65E+04	7.8437	102.806	0.611	0.221	0.12	25.4498	0.00E+00
10/12/2019	9:27:46 AM	0.692	18.2299	35.1596	0.3706	4.76E-02	0.581	4.63E+04	-9.99E-29	-9.99E-29	0.586	-0.498	0.13	25.3379	0.00E+00
10/12/2019	9:26:11 AM	0.728	18.2285	35.3057	0.228	4.76E-02	0.7333	4.65E+04	7.8515	102.906	0.699	0.237	0.06	25.4496	0.00E+00
10/12/2019	9:27:45 AM	0.782	18.2299	35.218	0.3607	4.76E-02	0.6027	4.64E+04	-9.99E-29	-9.99E-29	0.691	-0.532	0.13	25.3825	0.00E+00
10/12/2019	9:26:11 AM	0.785	18.2286	35.3058	0.231	4.76E-02	0.7317	4.65E+04	7.8601	103.018	0.81	0.25	0.05	25.4497	0.00E+00
10/12/2019	9:26:12 AM	0.841	18.2289	35.306	0.2295	4.76E-02	0.7302	4.65E+04	7.8708	103.164	0.874	0.251	0	25.4498	0.00E+00
10/12/2019	9:27:45 AM	0.878	18.2298	35.253	0.3577	4.76E-02	0.6058	4.64E+04	-9.99E-29	-9.99E-29	0.772	-0.564	0.06	25.4092	0.00E+00
10/12/2019	9:26:12 AM	0.896	18.2293	35.3063	0.2257	4.76E-02	0.7519	4.65E+04	7.8752	103.226	0.898	0.25	0	25.45	0.00E+00
10/12/2019	9:26:12 AM	0.951	18.23	35.3066	0.289	4.76E-02	0.7612	4.65E+04	7.8809	103.305	0.91	0.247	-0.01	25.4502	0.00E+00
10/12/2019	9:27:45 AM	0.982	18.2295	35.2739	0.3569	4.76E-02	0.6074	4.64E+04	-9.99E-29	-9.99E-29	0.846	-0.579	0.01	25.4252	0.00E+00
10/12/2019	9:26:12 AM	1.009	18.2308	35.307	0.2875	4.76E-02	0.7519	4.65E+04	7.8831	103.335	0.954	0.238	-0.04	25.4503	0.00E+00
10/12/2019	9:26:12 AM	1.07	18.2318	35.3073	0.2844	4.76E-02	0.7535	4.65E+04	7.8857	103.37	1.077	0.241	0.01	25.4504	0.00E+00
10/12/2019	9:27:44 AM	1.093	18.2293	35.2862	0.3607	4.76E-02	0.6058	4.65E+04	7.518	98.522	0.965	-0.582	-0.03	25.4345	0.00E+00
10/12/2019	9:26:13 AM	1.13	18.2325	35.3074	0.2852	4.76E-02	0.755	4.65E+04	7.8794	103.288	1.177	0.248	0.03	25.4502	0.00E+00
10/12/2019	9:26:13 AM	1.19	18.2331	35.307	0.3508	4.76E-02	0.4535	4.65E+04	7.8766	103.249	1.21	0.24	-0.03	25.4497	0.00E+00
10/12/2019	9:27:44 AM	1.213	18.2291	35.2934	0.36	4.76E-02	0.6074	4.65E+04	8.0649	99.822	1.121	-0.576	-0.01	25.44	0.00E+00
10/12/2019	9:26:13 AM	1.249	18.2334	35.3065	0.347	4.76E-02	0.4489	4.65E+04	7.8793	103.283	1.214	0.223	-0.07	25.4492	0.00E+00
10/12/2019	9:26:14 AM	1.31	18.2333	35.3059	0.347	4.76E-02	0.4535	4.65E+04	7.8755	103.232	1.239	0.215	-0.03	25.4486	0.00E+00
10/12/2019	9:27:44 AM	1.339	18.229	35.2977	0.3706	4.76E-02	0.6058	4.65E+04	8.6043	100.91	1.273	-0.574	0.05	25.4432	0.00E+00
10/12/2019	9:26:14 AM	1.375	18.2329	35.3052	0.3493	4.76E-02	0.4551	4.65E+04	7.8744	103.215	1.303	0.217	0.01	25.448	0.00E+00
10/12/2019	9:26:14 AM	1.446	18.2322	35.3045	0.3485	4.76E-02	0.4085	4.65E+04	7.8769	103.247	1.366	0.215	-0.01	25.4474	0.00E+00
10/12/2019	9:27:44 AM	1.469	18.2292	35.3004	0.3683	4.76E-02	0.6043	4.65E+04	8.9724	101.884	1.438	-0.586	0.07	25.4452	0.00E+00
10/12/2019	9:26:14 AM	1.522	18.2312	35.3039	0.3485	4.76E-02	0.41	4.65E+04	7.8834	103.332	1.421	0.201	-0.06	25.4471	0.00E+00
10/12/2019	9:27:43 AM	1.602	18.2294	35.3021	0.3714	4.76E-02	0.6043	4.65E+04	8.4789	102.622	1.576	-0.604	0.06	25.4465	0.00E+00
10/12/2019	9:26:14 AM	1.606	18.23	35.3034	0.3447	4.76E-02	0.41	4.65E+04	7.8787	103.275	1.465	0.179	-0.09	25.4469	0.00E+00
10/12/2019	9:26:15 AM	1.698	18.2287	35.3032	0.3508	4.76E-02	0.4054	4.65E+04	7.8821	103.326	1.527	0.181	0.01	25.447	0.00E+00
10/12/2019	9:27:43 AM	1.737	18.2296	35.3031	0.3691	4.76E-02	0.6058	4.65E+04	9.4411	103.119	1.711	-0.62	0	25.4472	0.00E+00
10/12/2019	9:26:15 AM	1.802	18.2272	35.3031	0.3249	4.76E-02	0.3743	4.65E+04	7.8837	103.351	1.619	0.21	0.12	25.4472	0.00E+00
10/12/2019	9:27:43 AM	1.875	18.2297	35.3034	0.3683	4.76E-02	0.6525	4.65E+04	9.299	103.329	1.853	-0.621	-0.06	25.4474	0.00E+00
10/12/2019	9:26:15 AM	1.917	18.2256	35.3028	0.3218	4.76E-02	0.3852	4.65E+04	7.8866	103.381	1.74	0.253	0.17	25.4473	0.00E+00
10/12/2019	9:27:43 AM	2.015	18.2298	35.3033	0.3691	4.76E-02	0.6462	4.65E+04	8.798	103.444	1.983	-0.606	-0.09	25.4472	0.00E+00
10/12/2019	9:26:16 AM	2.044	18.2243	35.3027	0.3233	4.76E-02	0.3789	4.65E+04	7.8915	103.436	1.904	0.306	0.21	25.4476	0.00E+00
10/12/2019	9:27:43 AM	2.157	18.2301	35.3031	0.3722	4.76E-02	0.6571	4.65E+04	7.89	103.428	2.142	-0.584	-0.05	25.4469	0.00E+00
10/12/2019	9:26:16 AM	2.179	18.2238	35.3035	0.3233	4.76E-02	0.3789	4.65E+04	7.8939	103.456	2.107	0.375	0.28	25.4486	0.00E+00
10/12/2019	9:27:42 AM	2.301	18.2305	35.303	0.3699	4.76E-02	0.6587	4.65E+04	7.8919	103.453	2.285	-0.572	-0.01	25.4467	0.00E+00
10/12/2019	9:26:16 AM	2.319	18.2241	35.305	0.3226	4.76E-02	0.4333	4.65E+04	7.8905	103.403	2.316	0.463	0.35	25.4501	0.00E+00
10/12/2019	9:27:42 AM	2.446	18.2311	35.303	0.3691	4.76E-02	0.5514	4.65E+04	7.8922	103.457	2.438	-0.569	-0.03	25.4465	0.00E+00
10/12/2019	9:26:16 AM	2.461	18.2249	35.3065	0.3622	4.76E-02	0.438	4.65E+04	7.8863	103.343	2.509	0.557	0.37	25.4514	0.00E+00
10/12/2019	9:27:42 AM	2.592	18.2318	35.3031	0.3722	4.76E-02	0.5514	4.65E+04	7.8883	103.407	2.63	-0.562	-0.01	25.4464	0.00E+00
10/12/2019	9:26:17 AM	2.602	18.226	35.3074	0.363	4.76E-02	0.4287	4.65E+04	7.8839	103.311	2.669	0.635	0.31	25.452	0.00E+00

10/12/2019	9:27:41 AM	2.738	18.2326	35.3033	0.3706	4.76E-02	0.5623	4.65E+04	7.8908	103.438	2.784	-0.559	0.01	25.4464	0.00E+00
10/12/2019	9:26:17 AM	2.739	18.227	35.3077	0.3584	4.76E-02	0.4271	4.65E+04	7.8772	103.227	2.798	0.679	0.18	25.452	0.00E+00
10/12/2019	9:26:17 AM	2.874	18.2277	35.3074	0.3561	4.76E-02	0.4302	4.65E+04	7.8729	103.174	2.908	0.684	0.02	25.4514	0.00E+00
10/12/2019	9:27:41 AM	2.881	18.2332	35.3035	0.3699	4.76E-02	0.5546	4.65E+04	7.8976	103.528	2.937	-0.561	0.06	25.4465	0.00E+00
10/12/2019	9:26:17 AM	3.007	18.228	35.3067	0.3714	4.76E-02	0.5546	4.65E+04	7.8757	103.209	3.014	0.656	-0.11	25.4507	0.00E+00
10/12/2019	9:27:41 AM	3.023	18.2337	35.3036	0.4065	4.76E-02	0.525	4.65E+04	7.9032	103.602	3.056	-0.576	0.07	25.4465	0.00E+00
10/12/2019	9:26:17 AM	3.142	18.2278	35.3059	0.3706	4.76E-02	0.5561	4.65E+04	7.8756	103.212	3.117	0.603	-0.21	25.4499	0.00E+00
10/12/2019	9:27:41 AM	3.163	18.2341	35.3034	0.4065	4.76E-02	0.5328	4.65E+04	7.9082	103.666	3.156	-0.594	0.02	25.4462	0.00E+00
10/12/2019	9:26:18 AM	3.279	18.2275	35.3053	0.3714	4.76E-02	0.5561	4.65E+04	7.8781	103.244	3.218	0.54	-0.25	25.4494	0.00E+00
10/12/2019	9:27:41 AM	3.305	18.2344	35.303	0.4034	4.76E-02	0.5297	4.65E+04	7.9115	103.71	3.292	-0.599	-0.02	25.4458	0.00E+00
10/12/2019	9:26:18 AM	3.421	18.227	35.3049	0.3714	4.76E-02	0.5561	4.65E+04	7.8799	103.269	3.337	0.488	-0.21	25.4491	0.00E+00
10/12/2019	9:27:40 AM	3.448	18.2349	35.303	0.4073	4.76E-02	0.525	4.65E+04	7.9135	103.736	3.458	-0.594	0	25.4457	0.00E+00
10/12/2019	9:26:18 AM	3.569	18.2266	35.3048	0.3729	4.76E-02	0.6323	4.65E+04	7.8799	103.271	3.482	0.463	-0.1	25.4491	0.00E+00
10/12/2019	9:27:40 AM	3.591	18.2354	35.3033	0.408	4.76E-02	0.5281	4.65E+04	7.9142	103.744	3.642	-0.595	0	25.4459	0.00E+00
10/12/2019	9:26:19 AM	3.723	18.2263	35.3048	0.3706	4.76E-02	0.6338	4.65E+04	7.8804	103.278	3.65	0.469	0.03	25.4493	0.00E+00
10/12/2019	9:27:40 AM	3.734	18.2358	35.3037	0.4057	4.76E-02	0.6835	4.65E+04	7.9157	103.762	3.777	-0.596	-0.04	25.4462	0.00E+00
10/12/2019	9:27:39 AM	3.875	18.236	35.304	0.4042	4.76E-02	0.6773	4.65E+04	7.9119	103.712	3.882	-0.587	-0.09	25.4465	0.00E+00
10/12/2019	9:26:19 AM	3.883	18.2263	35.3051	0.3745	4.76E-02	0.6323	4.65E+04	7.8843	103.329	3.836	0.502	0.13	25.4496	0.00E+00
10/12/2019	9:27:39 AM	4.017	18.2359	35.3041	0.4073	4.76E-02	0.6773	4.65E+04	7.9091	103.676	4.023	-0.565	-0.14	25.4466	0.00E+00
10/12/2019	9:26:19 AM	4.048	18.2267	35.3058	0.3722	4.76E-02	0.6307	4.65E+04	7.8836	103.322	4.024	0.551	0.19	25.4502	0.00E+00
10/12/2019	9:27:39 AM	4.159	18.2356	35.3042	0.4088	4.76E-02	0.6835	4.65E+04	7.9139	103.739	4.19	-0.53	-0.12	25.4469	0.00E+00
10/12/2019	9:26:19 AM	4.215	18.2272	35.3065	0.3867	4.76E-02	0.6773	4.65E+04	7.8822	103.303	4.22	0.606	0.22	25.4507	0.00E+00
10/12/2019	9:27:39 AM	4.301	18.2353	35.3045	0.4569	4.76E-02	0.6027	4.65E+04	7.9074	103.656	4.365	-0.499	-0.07	25.4472	0.00E+00
10/12/2019	9:26:19 AM	4.383	18.2274	35.3067	0.3844	4.76E-02	0.6851	4.65E+04	7.8826	103.308	4.431	0.666	0.24	25.4507	0.00E+00
10/12/2019	9:27:39 AM	4.44	18.2348	35.3047	0.4569	4.76E-02	0.6043	4.65E+04	7.9122	103.719	4.521	-0.482	-0.09	25.4476	0.00E+00
10/12/2019	9:26:20 AM	4.55	18.2265	35.3058	0.3844	4.76E-02	0.6804	4.65E+04	7.8854	103.339	4.63	0.719	0.21	25.45	0.00E+00
10/12/2019	9:27:38 AM	4.576	18.2341	35.305	0.4546	4.76E-02	0.6058	4.65E+04	7.9142	103.744	4.655	-0.459	-0.13	25.448	0.00E+00
10/12/2019	9:27:38 AM	4.708	18.2333	35.3053	0.4561	4.76E-02	0.6012	4.65E+04	7.9112	103.705	4.81	-0.425	-0.07	25.4485	0.00E+00
10/12/2019	9:26:20 AM	4.714	18.2242	35.3037	0.3851	4.76E-02	0.6773	4.65E+04	7.8859	103.341	4.802	0.75	0.13	25.4483	0.00E+00
10/12/2019	9:27:38 AM	4.837	18.2324	35.3054	0.4813	4.76E-02	0.5219	4.65E+04	7.9134	103.733	4.918	-0.409	-0.03	25.4488	0.00E+00
10/12/2019	9:26:20 AM	4.874	18.2212	35.3013	0.3844	4.76E-02	0.6835	4.65E+04	7.8845	103.316	4.946	0.754	0.02	25.4467	0.00E+00
10/12/2019	9:27:37 AM	4.961	18.2314	35.3051	0.4805	4.76E-02	0.5235	4.65E+04	7.9156	103.764	5.031	-0.401	-0.01	25.4487	0.00E+00
10/12/2019	9:26:21 AM	5.032	18.2182	35.3003	0.3867	4.76E-02	0.682	4.65E+04	7.8836	103.303	5.066	0.731	-0.09	25.4465	0.00E+00
10/12/2019	9:27:37 AM	5.083	18.2305	35.3046	0.4797	4.76E-02	0.5312	4.65E+04	7.9159	103.769	5.164	-0.399	0.07	25.4485	0.00E+00
10/12/2019	9:26:21 AM	5.189	18.2158	35.3007	0.3851	4.76E-02	0.6742	4.65E+04	7.8872	103.349	5.191	0.691	-0.16	25.4475	0.00E+00
10/12/2019	9:27:37 AM	5.202	18.2298	35.3042	0.479	4.76E-02	0.5219	4.65E+04	7.9112	103.71	5.259	-0.415	0.08	25.4483	0.00E+00
10/12/2019	9:27:37 AM	5.319	18.2293	35.3039	0.5072	4.76E-02	0.4737	4.65E+04	7.9071	103.657	5.374	-0.436	0.12	25.448	0.00E+00
10/12/2019	9:26:21 AM	5.348	18.2144	35.3019	0.3851	4.76E-02	0.6804	4.65E+04	7.89	103.386	5.341	0.651	-0.16	25.4492	0.00E+00
10/12/2019	9:27:36 AM	5.435	18.2291	35.3036	0.5064	4.76E-02	0.4784	4.65E+04	7.9035	103.612	5.505	-0.467	0.2	25.4478	0.00E+00
10/12/2019	9:26:21 AM	5.509	18.2139	35.3036	0.3828	4.76E-02	0.682	4.65E+04	7.8887	103.373	5.507	0.618	-0.13	25.4511	0.00E+00
10/12/2019	9:27:36 AM	5.548	18.2291	35.3033	0.5019	4.76E-02	0.4753	4.65E+04	7.8958	103.512	5.569	-0.516	0.16	25.4475	0.00E+00
10/12/2019	9:27:36 AM	5.662	18.2292	35.303	0.5042	4.76E-02	0.4722	4.65E+04	7.8901	103.437	5.627	-0.557	0.11	25.4471	0.00E+00
10/12/2019	9:26:21 AM	5.672	18.2141	35.3053	0.4454	4.76E-02	0.5281	4.65E+04	7.8941	103.453	5.681	0.597	-0.08	25.4528	0.00E+00
10/12/2019	9:27:36 AM	5.78	18.2296	35.3028	0.5042	4.76E-02	0.4784	4.65E+04	7.8883	103.413	5.74	-0.586	0.1	25.4468	0.00E+00
10/12/2019	9:26:22 AM	5.836	18.2146	35.3063	0.4462	4.76E-02	0.5219	4.65E+04	7.893	103.447	5.865	0.598	0.01	25.4537	0.00E+00
10/12/2019	9:27:36 AM	5.902	18.2301	35.3027	0.5507	4.76E-02	0.5763	4.65E+04	7.8871	103.399	5.869	-0.609	0.06	25.4466	0.00E+00
10/12/2019	9:26:22 AM	6	18.2152	35.3064	0.4469	4.76E-02	0.5328	4.65E+04	7.8935	103.459	6.066	0.624	0.1	25.4537	0.00E+00
10/12/2019	9:27:35 AM	6.028	18.2307	35.3026	0.553	4.76E-02	0.5779	4.65E+04	7.888	103.413	5.988	-0.624	-0.02	25.4464	0.00E+00
10/12/2019	9:27:35 AM	6.159	18.2312	35.3024	0.5515	4.76E-02	0.5856	4.65E+04	7.8927	103.476	6.131	-0.618	-0.09	25.4461	0.00E+00
10/12/2019	9:26:22 AM	6.162	18.2156	35.3061	0.4477	4.76E-02	0.5266	4.65E+04	7.8945	103.478	6.263	0.664	0.16	25.4534	0.00E+00
10/12/2019	9:27:35 AM	6.293	18.2318	35.3022	0.553	4.76E-02	0.5763	4.65E+04	7.8954	103.511	6.27	-0.596	-0.09	25.4457	0.00E+00

10/12/2019	9:26:23 AM	6.32	18.2161	35.306	0.4919	4.76E-02	0.6758	4.65E+04	7.8932	103.462	6.442	0.702	0.15	25.4532	0.00E+00
10/12/2019	9:27:34 AM	6.431	18.2324	35.302	0.601	4.76E-02	0.3712	4.65E+04	7.8918	103.463	6.415	-0.573	-0.08	25.4454	0.00E+00
10/12/2019	9:26:23 AM	6.473	18.2165	35.3061	0.4935	4.76E-02	0.6804	4.65E+04	7.8939	103.474	6.611	0.725	0.09	25.4531	0.00E+00
10/12/2019	9:27:34 AM	6.572	18.2331	35.3021	0.6003	4.76E-02	0.3805	4.65E+04	7.8914	103.456	6.583	-0.552	-0.05	25.4453	0.00E+00
10/12/2019	9:26:23 AM	6.619	18.2169	35.3063	0.4958	4.76E-02	0.6867	4.65E+04	7.8941	103.479	6.761	0.728	0.01	25.4532	0.00E+00
10/12/2019	9:27:34 AM	6.715	18.2338	35.3023	0.601	4.76E-02	0.3789	4.65E+04	7.8936	103.485	6.741	-0.541	-0.04	25.4454	0.00E+00
10/12/2019	9:26:23 AM	6.759	18.2171	35.3064	0.4919	4.76E-02	0.6804	4.65E+04	7.8936	103.475	6.878	0.706	-0.09	25.4531	0.00E+00
10/12/2019	9:27:34 AM	6.858	18.2344	35.3027	0.6003	4.76E-02	0.3852	4.65E+04	7.8951	103.503	6.914	-0.529	-0.01	25.4456	0.00E+00
10/12/2019	9:26:24 AM	6.895	18.2171	35.306	0.5194	4.76E-02	0.783	4.65E+04	7.8896	103.421	6.951	0.657	-0.2	25.4527	0.00E+00
10/12/2019	9:27:34 AM	7	18.2349	35.3031	0.6155	4.76E-02	0.5033	4.65E+04	7.8973	103.532	7.077	-0.528	0.04	25.4459	0.00E+00
10/12/2019	9:26:24 AM	7.03	18.2169	35.3056	0.5171	4.76E-02	0.7815	4.65E+04	7.8861	103.363	7.011	0.586	-0.29	25.4523	0.00E+00
10/12/2019	9:27:33 AM	7.14	18.2351	35.3034	0.614	4.76E-02	0.5079	4.65E+04	7.8984	103.544	7.214	-0.538	0.08	25.4462	0.00E+00
10/12/2019	9:26:24 AM	7.168	18.2163	35.3053	0.5186	4.76E-02	0.7815	4.65E+04	7.8836	103.302	7.103	0.512	-0.3	25.452	0.00E+00
10/12/2019	9:27:33 AM	7.278	18.2351	35.3037	0.6087	4.76E-02	0.5048	4.65E+04	7.9001	103.564	7.327	-0.559	0.08	25.4465	0.00E+00
10/12/2019	9:26:24 AM	7.312	18.2153	35.3047	0.5171	4.76E-02	0.7815	4.65E+04	7.8844	103.247	7.232	0.456	-0.22	25.4516	0.00E+00
10/12/2019	9:27:33 AM	7.416	18.2349	35.3041	0.6125	4.76E-02	0.4986	4.65E+04	7.8976	103.528	7.422	-0.58	0.06	25.447	0.00E+00
10/12/2019	9:26:24 AM	7.464	18.2138	35.3038	0.5209	4.76E-02	0.7348	4.65E+04	7.8866	103.204	7.396	0.433	-0.09	25.4512	0.00E+00
10/12/2019	9:27:32 AM	7.556	18.2344	35.3046	0.6247	4.76E-02	0.5546	4.65E+04	7.8932	103.467	7.567	-0.594	0.09	25.4476	0.00E+00
10/12/2019	9:26:25 AM	7.622	18.2124	35.3033	0.5309	4.76E-02	0.7348	4.65E+04	7.8865	103.129	7.569	0.44	0.03	25.451	0.00E+00
10/12/2019	9:27:32 AM	7.697	18.2337	35.3048	0.627	4.76E-02	0.5561	4.65E+04	7.8922	103.453	7.717	-0.616	0.09	25.4481	0.00E+00
10/12/2019	9:26:25 AM	7.785	18.2113	35.3035	0.5293	4.76E-02	0.7286	4.65E+04	7.8927	103.144	7.749	0.476	0.14	25.4515	0.00E+00
10/12/2019	9:27:32 AM	7.84	18.2326	35.3051	0.627	4.76E-02	0.5546	4.65E+04	7.8896	103.419	7.868	-0.639	0.11	25.4487	0.00E+00
10/12/2019	9:26:25 AM	7.954	18.2109	35.3042	0.5286	4.76E-02	0.7333	4.65E+04	7.8858	103	7.93	0.534	0.23	25.4524	0.00E+00
10/12/2019	9:27:32 AM	7.984	18.2314	35.3058	0.6247	4.76E-02	0.5483	4.65E+04	7.8863	103.376	7.994	-0.667	0.05	25.4497	0.00E+00
10/12/2019	9:26:26 AM	8.127	18.2111	35.3052	0.5278	4.76E-02	0.7317	4.65E+04	7.8863	103.019	8.114	0.603	0.27	25.4535	0.00E+00
10/12/2019	9:27:32 AM	8.13	18.23	35.3066	0.6239	4.76E-02	0.5608	4.65E+04	7.8801	103.295	8.128	-0.68	-0.01	25.4509	0.00E+00
10/12/2019	9:27:31 AM	8.279	18.2282	35.3075	0.6606	4.76E-02	0.5359	4.65E+04	7.8774	103.259	8.271	-0.679	-0.05	25.4523	0.00E+00
10/12/2019	9:26:26 AM	8.304	18.2122	35.3064	0.5782	4.76E-02	0.6835	4.65E+04	7.8796	102.968	8.304	0.664	0.24	25.4545	0.00E+00
10/12/2019	9:27:31 AM	8.431	18.2258	35.3084	0.6598	4.76E-02	0.5266	4.65E+04	7.8717	103.187	8.436	-0.666	-0.08	25.4539	0.00E+00
10/12/2019	9:26:26 AM	8.484	18.2141	35.3078	0.5759	4.76E-02	0.6773	4.65E+04	7.8847	103.056	8.495	0.705	0.17	25.4555	0.00E+00
10/12/2019	9:27:31 AM	8.586	18.2229	35.3093	0.6667	4.76E-02	0.5297	4.65E+04	7.864	103.087	8.603	-0.645	-0.1	25.4556	0.00E+00
10/12/2019	9:26:26 AM	8.665	18.2166	35.3093	0.5789	4.76E-02	0.6804	4.65E+04	7.8944	103.184	8.697	0.733	0.11	25.4564	0.00E+00
10/12/2019	9:27:30 AM	8.743	18.2195	35.31	0.6598	4.76E-02	0.5281	4.65E+04	7.8617	103.059	8.778	-0.62	-0.13	25.4572	0.00E+00
10/12/2019	9:26:26 AM	8.848	18.2191	35.3102	0.5782	4.76E-02	0.6789	4.65E+04	7.8997	103.239	8.894	0.75	0.07	25.4566	0.00E+00
10/12/2019	9:27:30 AM	8.9	18.2156	35.3104	0.7086	4.76E-02	0.2484	4.65E+04	7.8621	103.064	8.962	-0.586	-0.12	25.4586	0.00E+00
10/12/2019	9:26:27 AM	9.031	18.2211	35.3099	0.6262	4.76E-02	0.8265	4.65E+04	7.9083	103.317	9.082	0.76	0.04	25.4558	0.00E+00
10/12/2019	9:27:30 AM	9.056	18.2112	35.3103	0.7086	4.76E-02	0.2531	4.65E+04	7.8652	103.106	9.132	-0.557	-0.07	25.4597	0.00E+00
10/12/2019	9:27:30 AM	9.211	18.2065	35.3101	0.7102	4.76E-02	0.2608	4.65E+04	7.8717	103.192	9.313	-0.54	0.03	25.4605	0.00E+00
10/12/2019	9:26:27 AM	9.214	18.2225	35.3088	0.6239	4.76E-02	0.8312	4.65E+04	7.9177	103.402	9.277	0.768	0.03	25.4543	0.00E+00
10/12/2019	9:27:29 AM	9.363	18.202	35.3098	0.7086	4.76E-02	0.2624	4.65E+04	7.875	103.236	9.46	-0.549	0.09	25.4613	0.00E+00
10/12/2019	9:26:27 AM	9.396	18.2229	35.3074	0.6262	4.76E-02	0.8312	4.65E+04	7.9258	103.452	9.475	0.775	0.03	25.4527	0.00E+00
10/12/2019	9:27:29 AM	9.513	18.1978	35.3096	0.746	4.76E-02	0.3261	4.65E+04	7.879	103.292	9.606	-0.571	0.1	25.4622	0.00E+00
10/12/2019	9:26:28 AM	9.577	18.2224	35.3057	0.6232	4.76E-02	0.8296	4.65E+04	7.9308	103.46	9.673	0.78	0.02	25.4511	0.00E+00
10/12/2019	9:27:29 AM	9.659	18.1937	35.31	0.7452	4.76E-02	0.3354	4.65E+04	7.8815	103.327	9.751	-0.597	0.13	25.4635	0.00E+00
10/12/2019	9:26:28 AM	9.755	18.2203	35.3038	0.6354	4.76E-02	0.6571	4.65E+04	7.9298	103.403	9.845	0.776	-0.02	25.4495	0.00E+00
10/12/2019	9:27:29 AM	9.804	18.1898	35.3111	0.7452	4.76E-02	0.3354	4.64E+04	7.8814	103.326	9.886	-0.628	0	25.4655	0.00E+00
10/12/2019	9:26:28 AM	9.932	18.2159	35.3011	0.6392	4.76E-02	0.6587	4.65E+04	7.9285	103.347	9.998	0.761	-0.06	25.4475	0.00E+00
10/12/2019	9:27:29 AM	9.947	18.1855	35.3126	0.7422	4.76E-02	0.3323	4.64E+04	7.8812	103.323	10.026	-0.628	-0.15	25.4681	0.00E+00
10/12/2019	9:27:28 AM	10.089	18.1806	35.3144	0.685	4.76E-02	0.2468	4.64E+04	7.8798	103.305	10.131	-0.59	-0.21	25.4713	0.00E+00
10/12/2019	9:26:28 AM	10.107	18.2078	35.2968	0.6384	4.76E-02	0.6633	4.65E+04	7.9227	103.248	10.142	0.734	-0.11	25.4447	0.00E+00
10/12/2019	9:27:28 AM	10.231	18.1748	35.3164	0.685	4.76E-02	0.2577	4.64E+04	7.8835	103.352	10.252	-0.538	-0.17	25.4747	0.00E+00

10/12/2019	9:26:28 AM	10.284	18.1947	35.2903	0.6392	4.76E-02	0.6494	4.65E+04	7.9256	103.258	10.309	0.71	-0.1	25.4409	0.00E+00
10/12/2019	9:27:28 AM	10.375	18.1681	35.3175	0.6857	4.76E-02	0.2531	4.64E+04	7.8859	103.383	10.413	-0.495	-0.12	25.4775	0.00E+00
10/12/2019	9:26:29 AM	10.463	18.1757	35.2813	0.6339	4.76E-02	0.7037	4.64E+04	7.9279	103.261	10.502	0.696	-0.06	25.436	0.00E+00
10/12/2019	9:27:27 AM	10.52	18.1603	35.3175	0.6834	4.76E-02	0.2515	4.64E+04	7.8929	103.473	10.6	-0.464	-0.05	25.4796	0.00E+00
10/12/2019	9:26:29 AM	10.642	18.1515	35.2709	0.6628	4.76E-02	0.7069	4.64E+04	7.9194	103.115	10.705	0.691	-0.02	25.4313	0.00E+00
10/12/2019	9:27:27 AM	10.663	18.1521	35.3178	0.6857	4.76E-02	0.2593	4.64E+04	7.9019	103.587	10.791	-0.452	0	25.482	0.00E+00
10/12/2019	9:27:27 AM	10.803	18.1439	35.3198	0.7193	4.76E-02	0.2577	4.64E+04	7.9052	103.63	10.953	-0.451	0.03	25.4859	0.00E+00
10/12/2019	9:26:29 AM	10.821	18.1252	35.2628	0.6628	4.76E-02	0.7037	4.64E+04	7.9263	103.148	10.901	0.695	0.02	25.4298	0.00E+00
10/12/2019	9:27:27 AM	10.937	18.1354	35.3239	0.7193	4.76E-02	0.2562	4.64E+04	7.9112	103.706	11.129	-0.46	0.15	25.4921	0.00E+00
10/12/2019	9:26:30 AM	10.999	18.1002	35.261	0.6606	4.76E-02	0.6991	4.64E+04	7.9239	103.064	11.089	0.707	0.05	25.4344	0.00E+00
10/12/2019	9:27:27 AM	11.064	18.1257	35.3306	0.7224	4.76E-02	0.2562	4.64E+04	7.9156	103.761	11.189	-0.498	0.12	25.5012	0.00E+00
10/12/2019	9:26:30 AM	11.175	18.0796	35.2655	0.659	4.76E-02	0.71	4.63E+04	7.9213	102.997	11.258	0.722	0.06	25.4444	0.00E+00
10/12/2019	9:27:26 AM	11.188	18.1135	35.3376	0.7224	4.76E-02	0.2608	4.64E+04	7.9194	103.805	11.195	-0.528	-0.01	25.5113	0.00E+00
10/12/2019	9:27:26 AM	11.314	18.0977	35.3414	0.804	4.76E-02	0.2795	4.64E+04	7.9193	103.797	11.304	-0.524	-0.02	25.5192	0.00E+00
10/12/2019	9:26:30 AM	11.351	18.0666	35.2758	0.8162	4.76E-02	0.4054	4.63E+04	7.9194	102.959	11.418	0.732	0.04	25.4585	0.00E+00
10/12/2019	9:27:26 AM	11.443	18.0786	35.3432	0.807	4.76E-02	0.281	4.63E+04	7.9168	103.758	11.479	-0.519	0.06	25.5259	0.00E+00
10/12/2019	9:26:30 AM	11.526	18.0618	35.2916	0.8162	4.76E-02	0.4023	4.63E+04	7.9174	102.937	11.575	0.73	-0.01	25.4757	0.00E+00
10/12/2019	9:27:25 AM	11.575	18.0581	35.3482	0.8063	4.76E-02	0.281	4.63E+04	7.9136	103.705	11.632	-0.535	0.14	25.5357	0.00E+00
10/12/2019	9:26:31 AM	11.702	18.0611	35.3072	0.8139	4.76E-02	0.41	4.63E+04	7.9201	102.964	11.725	0.711	-0.08	25.4909	0.00E+00
10/12/2019	9:27:25 AM	11.707	18.0367	35.3574	0.8025	4.76E-02	0.2826	4.63E+04	7.9115	103.669	11.771	-0.571	0.16	25.5499	0.00E+00
10/12/2019	9:27:25 AM	11.84	18.0124	35.3651	0.8887	4.76E-02	0.2577	4.63E+04	7.9091	103.624	11.871	-0.611	0.15	25.5639	0.00E+00
10/12/2019	9:26:31 AM	11.881	18.059	35.3133	0.8185	4.76E-02	0.4131	4.63E+04	7.9267	103.03	11.871	0.681	-0.12	25.4968	0.00E+00
10/12/2019	9:27:25 AM	11.975	17.9833	35.3662	0.891	4.76E-02	0.2577	4.62E+04	7.9104	103.634	11.972	-0.65	0.1	25.5726	0.00E+00
10/12/2019	9:26:31 AM	12.064	18.0527	35.309	1.6791	4.76E-02	1.027	4.63E+04	7.9317	103.055	12.031	0.653	-0.11	25.4936	0.00E+00
10/12/2019	9:27:25 AM	12.113	17.9508	35.3649	0.8887	4.76E-02	0.2562	4.62E+04	7.9096	103.617	12.117	-0.676	0.09	25.5794	0.00E+00
10/12/2019	9:26:31 AM	12.253	18.0418	35.3006	1.6791	4.76E-02	1.0285	4.63E+04	7.9352	103.072	12.223	0.643	-0.04	25.4877	0.00E+00
10/12/2019	9:27:24 AM	12.256	17.9187	35.3722	0.8887	4.76E-02	0.2562	4.62E+04	7.9107	103.624	12.258	-0.699	0.03	25.5938	0.00E+00
10/12/2019	9:27:24 AM	12.403	17.8871	35.3889	1.0443	4.76E-02	0.2779	4.62E+04	7.9106	103.619	12.393	-0.707	-0.03	25.6175	0.00E+00
10/12/2019	9:26:31 AM	12.448	18.0266	35.2921	1.6799	4.76E-02	1.027	4.63E+04	7.9319	102.995	12.442	0.656	0.05	25.4827	0.00E+00
10/12/2019	9:27:24 AM	12.555	17.8511	35.3998	1.0436	4.76E-02	0.2841	4.61E+04	7.9098	103.6	12.551	-0.7	-0.08	25.6378	0.00E+00
10/12/2019	9:26:32 AM	12.648	18.0078	35.2843	1.6814	4.76E-02	1.027	4.63E+04	7.9276	102.913	12.661	0.686	0.12	25.4795	0.00E+00
10/12/2019	9:27:24 AM	12.711	17.8069	35.3971	1.0397	4.76E-02	0.2779	4.61E+04	7.9148	103.657	12.72	-0.68	-0.1	25.6469	0.00E+00
10/12/2019	9:26:32 AM	12.851	17.9867	35.2783	0.8399	4.76E-02	0.3043	4.63E+04	7.9184	102.753	12.875	0.725	0.16	25.4786	0.00E+00
10/12/2019	9:27:23 AM	12.87	17.7585	35.3889	1.039	4.76E-02	0.2717	4.60E+04	7.9213	103.73	12.917	-0.655	-0.09	25.6507	0.00E+00
10/12/2019	9:27:23 AM	13.032	17.7124	35.3825	1.0436	4.76E-02	0.2764	4.60E+04	7.9293	103.82	13.08	-0.632	-0.07	25.6548	0.00E+00
10/12/2019	9:26:32 AM	13.058	17.9652	35.2745	0.8391	4.76E-02	0.3043	4.62E+04	7.9064	102.531	13.083	0.765	0.16	25.4804	0.00E+00
10/12/2019	9:27:23 AM	13.195	17.6714	35.3798	1.1504	4.76E-02	0.7037	4.59E+04	7.9372	103.905	13.275	-0.614	-0.01	25.6613	0.00E+00
10/12/2019	9:26:33 AM	13.267	17.9451	35.2745	0.8399	4.76E-02	0.309	4.62E+04	7.8941	102.327	13.297	0.804	0.15	25.4856	0.00E+00
10/12/2019	9:27:22 AM	13.358	17.6344	35.3801	1.1504	4.76E-02	0.7037	4.59E+04	7.9476	104.021	13.453	-0.61	0.01	25.67	0.00E+00
10/12/2019	9:26:33 AM	13.479	17.9269	35.278	0.8429	4.76E-02	0.3059	4.62E+04	7.873	102.057	13.516	0.836	0.13	25.4936	0.00E+00
10/12/2019	9:27:22 AM	13.519	17.5993	35.3824	1.1519	4.76E-02	0.7037	4.59E+04	7.957	104.134	13.631	-0.614	0.05	25.6803	0.00E+00
10/12/2019	9:27:22 AM	13.679	17.5646	35.385	1.1504	4.76E-02	0.7053	4.58E+04	7.9648	104.226	13.778	-0.625	0.04	25.691	0.00E+00
10/12/2019	9:26:33 AM	13.694	17.9099	35.2817	0.836	4.76E-02	0.3401	4.62E+04	7.8671	101.993	13.751	0.859	0.1	25.5013	0.00E+00
10/12/2019	9:27:22 AM	13.836	17.5294	35.3857	1.1733	4.76E-02	1.4186	4.58E+04	7.9681	104.259	13.932	-0.634	0.04	25.6999	0.00E+00
10/12/2019	9:26:33 AM	13.909	17.8928	35.2834	0.9223	4.76E-02	0.3619	4.62E+04	7.8596	101.903	13.988	0.874	0.06	25.5072	0.00E+00
10/12/2019	9:27:22 AM	13.993	17.4938	35.3847	1.1786	4.76E-02	1.4217	4.58E+04	7.9711	104.273	14.072	-0.644	0.03	25.7073	0.00E+00
10/12/2019	9:26:33 AM	14.124	17.8749	35.2834	0.92	4.76E-02	0.3572	4.61E+04	7.8534	101.85	14.22	0.885	0.04	25.5114	0.00E+00
10/12/2019	9:27:21 AM	14.15	17.4589	35.3844	1.1794	4.76E-02	1.4233	4.57E+04	7.9704	104.227	14.22	-0.652	0.02	25.715	0.00E+00
10/12/2019	9:27:21 AM	14.307	17.4254	35.3853	1.1733	4.76E-02	1.4233	4.57E+04	7.9798	104.297	14.357	-0.658	-0.04	25.7235	0.00E+00
10/12/2019	9:26:34 AM	14.339	17.8558	35.2822	0.92	4.76E-02	0.351	4.61E+04	7.8479	101.773	14.444	0.895	0.04	25.5146	0.00E+00
10/12/2019	9:27:21 AM	14.466	17.3929	35.386	1.3251	4.76E-02	1.515	4.57E+04	7.9858	104.338	14.532	-0.648	-0.05	25.7317	0.00E+00

10/12/2019	9:26:34 AM	14.552	17.8361	35.2803	0.9207	4.76E-02	0.365	4.61E+04	7.8526	101.826	14.668	0.905	0.04	25.5176	0.00E+00
10/12/2019	9:27:20 AM	14.626	17.3607	35.3864	1.3228	4.76E-02	1.5119	4.56E+04	7.9865	104.319	14.706	-0.635	-0.05	25.7396	0.00E+00
10/12/2019	9:26:34 AM	14.762	17.8181	35.2799	0.891	4.76E-02	0.4815	4.61E+04	7.8546	101.835	14.886	0.91	0.02	25.522	0.00E+00
10/12/2019	9:27:20 AM	14.786	17.3287	35.3862	1.3236	4.76E-02	1.515	4.56E+04	7.9802	104.2	14.865	-0.624	0	25.7466	0.00E+00
10/12/2019	9:27:20 AM	14.946	17.2975	35.3854	1.3236	4.76E-02	1.5227	4.56E+04	7.9722	104.005	15.027	-0.623	0.02	25.753	0.00E+00
10/12/2019	9:26:35 AM	14.97	17.8041	35.2848	0.8887	4.76E-02	0.4753	4.61E+04	7.8582	101.85	15.105	0.909	-0.01	25.5306	0.00E+00
10/12/2019	9:27:20 AM	15.107	17.2674	35.3858	1.3716	4.76E-02	1.4217	4.56E+04	7.9696	103.889	15.185	-0.629	0.07	25.7601	0.00E+00
10/12/2019	9:26:35 AM	15.175	17.7937	35.2931	0.8872	4.76E-02	0.4846	4.61E+04	7.8688	101.902	15.313	0.9	-0.04	25.5414	0.00E+00
10/12/2019	9:27:20 AM	15.267	17.2386	35.3852	1.3732	4.76E-02	1.4248	4.55E+04	7.9584	103.697	15.346	-0.646	0.09	25.7662	0.00E+00
10/12/2019	9:26:35 AM	15.376	17.7846	35.2994	0.8917	4.76E-02	0.48	4.61E+04	7.8669	101.832	15.522	0.885	-0.06	25.5497	0.00E+00
10/12/2019	9:27:19 AM	15.428	17.2103	35.3807	1.3754	4.76E-02	1.4217	4.55E+04	7.9366	103.385	15.518	-0.668	0.11	25.7684	0.00E+00
10/12/2019	9:26:35 AM	15.574	17.7742	35.3006	1.0573	4.76E-02	0.3743	4.60E+04	7.8631	101.74	15.73	0.87	-0.06	25.5531	0.00E+00
10/12/2019	9:27:19 AM	15.589	17.1832	35.3757	1.3701	4.76E-02	1.4155	4.55E+04	7.9114	102.994	15.686	-0.696	0.08	25.7696	0.00E+00
10/12/2019	9:27:19 AM	15.75	17.1593	35.3739	1.3732	4.76E-02	1.4186	4.55E+04	7.8969	102.685	15.821	-0.715	0	25.7729	0.00E+00
10/12/2019	9:26:35 AM	15.767	17.7614	35.2975	1.0527	4.76E-02	0.3727	4.60E+04	7.8598	101.667	15.942	0.859	-0.04	25.553	0.00E+00
10/12/2019	9:27:18 AM	15.911	17.1384	35.3727	1.3747	4.76E-02	0.8032	4.54E+04	7.8857	102.373	15.957	-0.714	-0.07	25.7762	0.00E+00
10/12/2019	9:26:36 AM	15.955	17.7466	35.2929	1.0527	4.76E-02	0.3789	4.60E+04	7.8526	101.541	16.142	0.848	-0.04	25.552	0.00E+00
10/12/2019	9:27:18 AM	16.076	17.1191	35.3686	1.3701	4.76E-02	0.8048	4.54E+04	7.873	102.143	16.102	-0.697	-0.06	25.7765	0.00E+00
10/12/2019	9:26:36 AM	16.138	17.731	35.2901	1.0535	4.76E-02	0.3805	4.60E+04	7.8438	101.411	16.309	0.828	-0.08	25.553	0.00E+00
10/12/2019	9:27:18 AM	16.243	17.1014	35.3619	1.3716	4.76E-02	0.7985	4.54E+04	7.858	101.869	16.292	-0.68	-0.01	25.7739	0.00E+00
10/12/2019	9:26:36 AM	16.315	17.7147	35.2895	0.9688	4.76E-02	0.6975	4.60E+04	7.8315	101.234	16.46	0.799	-0.12	25.5562	0.00E+00
10/12/2019	9:27:18 AM	16.414	17.0867	35.3547	1.3709	4.76E-02	0.811	4.54E+04	7.8358	101.544	16.472	-0.677	0	25.7698	0.00E+00
10/12/2019	9:26:36 AM	16.489	17.6975	35.2892	0.9665	4.76E-02	0.7022	4.60E+04	7.8197	101.082	16.606	0.762	-0.15	25.5598	0.00E+00
10/12/2019	9:27:18 AM	16.586	17.0763	35.3477	1.4571	4.76E-02	0.5872	4.54E+04	7.8154	101.21	16.678	-0.676	0.04	25.7649	0.00E+00
10/12/2019	9:26:37 AM	16.661	17.6797	35.2888	0.9734	4.76E-02	0.71	4.60E+04	7.8118	100.98	16.751	0.722	-0.16	25.5635	0.00E+00
10/12/2019	9:27:17 AM	16.758	17.0703	35.3413	1.4556	4.76E-02	0.581	4.54E+04	7.8009	100.966	16.87	-0.687	0.06	25.7595	0.00E+00
10/12/2019	9:26:37 AM	16.834	17.6634	35.2892	0.9718	4.76E-02	0.7006	4.59E+04	7.8104	100.965	16.903	0.682	-0.16	25.568	0.00E+00
10/12/2019	9:27:17 AM	16.929	17.0684	35.336	1.4594	4.76E-02	0.5794	4.54E+04	7.7846	100.684	17.057	-0.703	0.11	25.7544	0.00E+00
10/12/2019	9:26:37 AM	17.008	17.6521	35.2933	0.9718	4.76E-02	0.654	4.59E+04	7.8164	101.024	17.065	0.649	-0.13	25.5755	0.00E+00
10/12/2019	9:27:17 AM	17.099	17.0701	35.3319	1.4586	4.76E-02	0.5841	4.54E+04	7.7743	100.474	17.197	-0.73	0.06	25.7497	0.00E+00
10/12/2019	9:26:38 AM	17.184	17.647	35.304	1.0085	4.76E-02	0.6089	4.59E+04	7.8189	101.027	17.243	0.63	-0.08	25.5876	0.00E+00
10/12/2019	9:27:17 AM	17.269	17.0746	35.3283	1.4571	4.76E-02	0.6804	4.54E+04	7.7669	100.311	17.333	-0.744	0.03	25.7449	0.00E+00
10/12/2019	9:26:38 AM	17.362	17.6455	35.3157	1.0069	4.76E-02	0.6089	4.59E+04	7.824	101.056	17.438	0.633	0.01	25.5994	0.00E+00
10/12/2019	9:27:16 AM	17.44	17.0811	35.3253	1.4578	4.76E-02	0.6789	4.54E+04	7.753	100.076	17.477	-0.751	-0.04	25.7403	0.00E+00
10/12/2019	9:26:38 AM	17.542	17.6448	35.321	1.0046	4.76E-02	0.5996	4.59E+04	7.8283	101.09	17.618	0.651	0.07	25.6047	0.00E+00
10/12/2019	9:27:16 AM	17.615	17.0895	35.3234	1.4586	4.76E-02	0.6851	4.54E+04	7.7404	99.859	17.681	-0.742	-0.04	25.7363	0.00E+00
10/12/2019	9:26:38 AM	17.724	17.6432	35.3218	1.0039	4.76E-02	0.6089	4.59E+04	7.8315	101.115	17.793	0.672	0.09	25.6057	0.00E+00
10/12/2019	9:27:16 AM	17.791	17.0993	35.3221	1.4548	4.76E-02	0.6804	4.54E+04	7.7282	99.632	17.886	-0.732	-0.05	25.7326	0.00E+00
10/12/2019	9:26:38 AM	17.907	17.6386	35.3202	1.0306	4.76E-02	0.7861	4.59E+04	7.8287	101.103	17.977	0.694	0.09	25.6046	0.00E+00
10/12/2019	9:27:15 AM	17.968	17.1099	35.3202	1.3991	4.76E-02	1.0441	4.54E+04	7.7164	99.422	18.068	-0.719	-0.06	25.7284	0.00E+00
10/12/2019	9:26:39 AM	18.091	17.6296	35.3135	1.0314	4.76E-02	0.7768	4.59E+04	7.8264	101.064	18.164	0.714	0.08	25.5998	0.00E+00
10/12/2019	9:27:15 AM	18.145	17.1209	35.318	1.3983	4.76E-02	1.0503	4.54E+04	7.7048	99.212	18.255	-0.705	-0.07	25.7236	0.00E+00
10/12/2019	9:26:39 AM	18.278	17.6159	35.3047	1.0298	4.76E-02	0.7768	4.59E+04	7.8265	101.003	18.347	0.726	0.05	25.5942	0.00E+00
10/12/2019	9:27:15 AM	18.321	17.1327	35.3164	1.396	4.76E-02	1.0534	4.54E+04	7.6942	99.025	18.43	-0.688	-0.1	25.7194	0.00E+00
10/12/2019	9:26:39 AM	18.467	17.5973	35.2966	1.0291	4.76E-02	0.7799	4.59E+04	7.828	100.987	18.545	0.736	0.04	25.5902	0.00E+00
10/12/2019	9:27:15 AM	18.497	17.1454	35.3175	1.3953	4.76E-02	1.0503	4.54E+04	7.6809	98.798	18.624	-0.663	-0.08	25.7174	0.00E+00
10/12/2019	9:26:40 AM	18.657	17.5753	35.2876	1.0802	4.76E-02	1.8771	4.59E+04	7.8132	100.791	18.735	0.741	0.02	25.5866	0.00E+00
10/12/2019	9:27:15 AM	18.672	17.1583	35.3227	1.3983	4.76E-02	1.0456	4.55E+04	7.6728	98.641	18.794	-0.642	-0.08	25.7194	0.00E+00
10/12/2019	9:27:14 AM	18.844	17.1699	35.3298	1.3602	4.76E-02	1.8258	4.55E+04	7.6722	98.564	18.999	-0.623	-0.03	25.7239	0.00E+00
10/12/2019	9:26:40 AM	18.849	17.5543	35.2829	1.0794	4.76E-02	1.8771	4.58E+04	7.7987	100.645	18.907	0.74	0	25.5876	0.00E+00
10/12/2019	9:27:14 AM	19.015	17.1781	35.3358	1.3602	4.76E-02	1.832	4.55E+04	7.6668	98.465	19.174	-0.615	-0.05	25.7283	0.00E+00

10/12/2019	9:26:40 AM	19.044	17.5362	35.2878	1.0787	4.76E-02	1.8771	4.58E+04	7.7944	100.607	19.096	0.743	0.01	25.5967	0.00E+00
10/12/2019	9:27:14 AM	19.182	17.1822	35.3398	1.3564	4.76E-02	1.8242	4.55E+04	7.6679	98.448	19.337	-0.603	-0.03	25.7317	0.00E+00
10/12/2019	9:26:40 AM	19.242	17.5205	35.2951	1.0817	4.76E-02	1.8802	4.58E+04	7.7985	100.598	19.31	0.753	0.04	25.6074	0.00E+00
10/12/2019	9:27:13 AM	19.346	17.1829	35.3424	1.3594	4.76E-02	1.818	4.55E+04	7.6683	98.418	19.487	-0.595	-0.05	25.7345	0.00E+00
10/12/2019	9:26:40 AM	19.442	17.5072	35.3	1.0901	4.76E-02	1.4652	4.58E+04	7.7949	100.475	19.524	0.766	0.05	25.6156	0.00E+00
10/12/2019	9:27:13 AM	19.508	17.1815	35.3449	1.3938	4.76E-02	1.8771	4.55E+04	7.6721	98.42	19.654	-0.584	0	25.7373	0.00E+00
10/12/2019	9:26:41 AM	19.644	17.497	35.3056	1.0893	4.76E-02	1.4761	4.58E+04	7.7974	100.395	19.731	0.78	0.05	25.6236	0.00E+00
10/12/2019	9:27:13 AM	19.668	17.1786	35.3463	1.3953	4.76E-02	1.8771	4.55E+04	7.6791	98.482	19.806	-0.583	0.04	25.7395	0.00E+00
10/12/2019	9:27:13 AM	19.826	17.1745	35.3462	1.396	4.76E-02	1.8802	4.55E+04	7.6858	98.553	19.943	-0.593	0.11	25.7405	0.00E+00
10/12/2019	9:26:41 AM	19.848	17.4893	35.3119	1.0886	4.76E-02	1.4808	4.58E+04	7.785	100.158	19.928	0.791	0.05	25.6317	0.00E+00
10/12/2019	9:27:13 AM	19.983	17.1698	35.3456	1.396	4.76E-02	1.8771	4.55E+04	7.6919	98.627	20.097	-0.621	0.15	25.741	0.00E+00
10/12/2019	9:26:41 AM	20.053	17.4836	35.3171	1.0947	4.76E-02	1.4715	4.58E+04	7.7861	100.107	20.135	0.801	0.04	25.6382	0.00E+00
10/12/2019	9:27:12 AM	20.14	17.1654	35.3452	1.3831	4.76E-02	1.5927	4.55E+04	7.7006	98.742	20.259	-0.659	0.15	25.7416	0.00E+00
10/12/2019	9:26:42 AM	20.26	17.4784	35.3207	1.0909	4.76E-02	1.4621	4.58E+04	7.7907	100.104	20.356	0.817	0.06	25.6428	0.00E+00
10/12/2019	9:27:12 AM	20.297	17.1614	35.3442	1.3823	4.76E-02	1.5927	4.55E+04	7.7083	98.853	20.412	-0.696	0.12	25.7416	0.00E+00
10/12/2019	9:27:12 AM	20.454	17.1576	35.3422	1.3869	4.76E-02	1.6005	4.55E+04	7.7124	98.919	20.53	-0.726	0.04	25.7405	0.00E+00
10/12/2019	9:26:42 AM	20.468	17.4719	35.3214	1.1389	4.76E-02	1.1746	4.58E+04	7.7755	99.842	20.574	0.834	0.07	25.6447	0.00E+00
10/12/2019	9:27:11 AM	20.614	17.1546	35.3396	1.3846	4.76E-02	1.5989	4.54E+04	7.7173	98.998	20.681	-0.735	0.01	25.7385	0.00E+00
10/12/2019	9:26:42 AM	20.677	17.4629	35.3182	1.142	4.76E-02	1.1731	4.58E+04	7.7608	99.637	20.791	0.843	0.04	25.6435	0.00E+00
10/12/2019	9:27:11 AM	20.777	17.1527	35.3369	1.396	4.76E-02	1.874	4.54E+04	7.7228	99.09	20.815	-0.738	-0.04	25.7362	0.00E+00
10/12/2019	9:26:42 AM	20.886	17.4521	35.3134	1.1374	4.76E-02	1.1669	4.57E+04	7.7456	99.464	20.994	0.843	0	25.6414	0.00E+00
10/12/2019	9:27:11 AM	20.944	17.1522	35.3349	1.396	4.76E-02	1.8724	4.54E+04	7.7285	99.187	20.979	-0.727	-0.03	25.7343	0.00E+00
10/12/2019	9:26:42 AM	21.096	17.4415	35.3106	1.1382	4.76E-02	1.1746	4.57E+04	7.7371	99.404	21.189	0.841	-0.01	25.6415	0.00E+00
10/12/2019	9:27:11 AM	21.115	17.1531	35.3348	1.3945	4.76E-02	1.8786	4.54E+04	7.732	99.25	21.162	-0.719	-0.04	25.7338	0.00E+00
10/12/2019	9:27:11 AM	21.291	17.1549	35.3368	1.3953	4.76E-02	1.8802	4.55E+04	7.7391	99.362	21.394	-0.71	0.02	25.7354	0.00E+00
10/12/2019	9:26:43 AM	21.307	17.4326	35.3115	1.2755	4.76E-02	2.2951	4.57E+04	7.7409	99.479	21.374	0.834	-0.03	25.6448	0.00E+00
10/12/2019	9:27:10 AM	21.468	17.1563	35.3407	1.3983	4.76E-02	1.8755	4.55E+04	7.7401	99.395	21.603	-0.715	0.07	25.739	0.00E+00
10/12/2019	9:26:43 AM	21.522	17.4257	35.3149	1.2755	4.76E-02	2.2842	4.57E+04	7.7459	99.543	21.584	0.829	-0.02	25.6499	0.00E+00
10/12/2019	9:27:10 AM	21.644	17.1563	35.3454	1.396	4.76E-02	2.3371	4.55E+04	7.737	99.392	21.775	-0.733	0.07	25.7438	0.00E+00
10/12/2019	9:26:43 AM	21.739	17.4193	35.3185	1.2755	4.76E-02	2.2874	4.57E+04	7.7439	99.521	21.812	0.826	-0.01	25.6548	0.00E+00
10/12/2019	9:27:10 AM	21.82	17.154	35.3502	1.3945	4.76E-02	2.3355	4.55E+04	7.7349	99.395	21.932	-0.751	0.04	25.7494	0.00E+00
10/12/2019	9:26:43 AM	21.96	17.41	35.3182	1.2732	4.76E-02	2.2905	4.57E+04	7.7545	99.59	22.041	0.828	0.01	25.6563	0.00E+00
10/12/2019	9:27:10 AM	21.997	17.1489	35.3545	1.3968	4.76E-02	2.3371	4.54E+04	7.7288	99.355	22.091	-0.762	-0.02	25.755	0.00E+00
10/12/2019	9:27:09 AM	22.175	17.1412	35.3569	1.3983	4.76E-02	2.3371	4.54E+04	7.7269	99.341	22.269	-0.757	-0.02	25.7594	0.00E+00
10/12/2019	9:26:44 AM	22.183	17.3974	35.3105	1.2999	4.76E-02	2.2936	4.57E+04	7.7736	99.756	22.278	0.84	0.05	25.6519	0.00E+00
10/12/2019	9:27:09 AM	22.355	17.1315	35.3555	1.409	4.76E-02	2.4319	4.54E+04	7.7248	99.309	22.446	-0.752	-0.05	25.7605	0.00E+00
10/12/2019	9:26:44 AM	22.408	17.386	35.3044	1.3007	4.76E-02	2.2827	4.57E+04	7.7775	99.692	22.532	0.864	0.1	25.6495	0.00E+00
10/12/2019	9:27:09 AM	22.537	17.1209	35.3503	1.4083	4.76E-02	2.4334	4.54E+04	7.7202	99.243	22.658	-0.74	-0.03	25.758	0.00E+00
10/12/2019	9:26:44 AM	22.633	17.3791	35.3108	1.2969	4.76E-02	2.2858	4.57E+04	7.7815	99.649	22.776	0.895	0.12	25.6574	0.00E+00
10/12/2019	9:27:08 AM	22.72	17.1116	35.3443	1.4075	4.76E-02	2.4257	4.54E+04	7.7168	99.19	22.846	-0.731	-0.06	25.7542	0.00E+00
10/12/2019	9:26:45 AM	22.857	17.3719	35.3209	1.2991	4.76E-02	2.2889	4.57E+04	7.7709	99.44	23.007	0.923	0.11	25.6679	0.00E+00
10/12/2019	9:27:08 AM	22.902	17.1053	35.34	1.409	4.76E-02	2.4288	4.54E+04	7.7132	99.136	23.03	-0.717	-0.06	25.7511	0.00E+00
10/12/2019	9:26:45 AM	23.08	17.3568	35.3187	1.3114	4.76E-02	2.2469	4.57E+04	7.7624	99.159	23.23	0.941	0.07	25.6679	0.00E+00
10/12/2019	9:27:08 AM	23.085	17.1022	35.3383	1.3342	4.76E-02	2.118	4.54E+04	7.712	99.107	23.226	-0.703	-0.05	25.75	0.00E+00
10/12/2019	9:27:08 AM	23.267	17.1011	35.339	1.335	4.76E-02	2.1102	4.54E+04	7.7101	99.07	23.417	-0.691	-0.06	25.7507	0.00E+00
10/12/2019	9:26:45 AM	23.302	17.3307	35.302	1.3106	4.76E-02	2.2407	4.56E+04	7.7605	98.865	23.443	0.941	0	25.6569	0.00E+00
10/12/2019	9:27:08 AM	23.447	17.1007	35.3406	1.335	4.76E-02	2.1117	4.54E+04	7.7114	99.077	23.604	-0.676	0	25.7524	0.00E+00
10/12/2019	9:26:45 AM	23.522	17.2974	35.2835	1.3098	4.76E-02	2.2469	4.56E+04	7.7389	98.28	23.655	0.93	-0.04	25.6463	0.00E+00
10/12/2019	9:27:07 AM	23.626	17.0998	35.3423	1.3365	4.76E-02	2.118	4.54E+04	7.7132	99.095	23.763	-0.675	0.01	25.7544	0.00E+00
10/12/2019	9:26:45 AM	23.743	17.2624	35.2744	1.3144	4.76E-02	2.2423	4.56E+04	7.6867	97.403	23.857	0.911	-0.08	25.6456	0.00E+00
10/12/2019	9:27:07 AM	23.804	17.0979	35.3445	1.4205	4.76E-02	2.5515	4.54E+04	7.7157	99.115	23.96	-0.678	0.08	25.757	0.00E+00

10/12/2019	9:26:46 AM	23.966	17.2296	35.275	1.3106	4.76E-02	2.2392	4.55E+04	7.6167	96.376	24.048	0.883	-0.11	25.6541	0.00E+00
10/12/2019	9:27:07 AM	23.982	17.0949	35.3473	1.422	4.76E-02	2.55	4.54E+04	7.7143	99.09	24.135	-0.698	0.1	25.7606	0.00E+00
10/12/2019	9:27:06 AM	24.158	17.0907	35.3509	1.4227	4.76E-02	2.5484	4.54E+04	7.7147	99.092	24.305	-0.722	0.13	25.7653	0.00E+00
10/12/2019	9:26:46 AM	24.191	17.2004	35.2813	1.2625	4.76E-02	1.947	4.55E+04	7.5291	95.181	24.242	0.852	-0.13	25.6674	0.00E+00
10/12/2019	9:27:06 AM	24.333	17.0848	35.3555	1.4189	4.76E-02	2.5609	4.54E+04	7.71	99.033	24.462	-0.754	0.1	25.7714	0.00E+00
10/12/2019	9:26:46 AM	24.422	17.1758	35.2896	1.261	4.76E-02	1.9501	4.55E+04	7.4011	93.499	24.475	0.837	-0.06	25.6817	0.00E+00
10/12/2019	9:27:06 AM	24.509	17.0768	35.3614	1.4182	4.76E-02	2.5531	4.54E+04	7.7023	98.942	24.635	-0.778	0.06	25.7792	0.00E+00
10/12/2019	9:26:47 AM	24.657	17.1582	35.2992	1.2595	4.76E-02	1.9455	4.55E+04	7.254	91.627	24.742	0.844	0.03	25.6961	0.00E+00
10/12/2019	9:27:06 AM	24.686	17.0662	35.3691	1.3365	4.76E-02	2.6044	4.54E+04	7.6953	98.864	24.797	-0.794	0.03	25.7894	0.00E+00
10/12/2019	9:27:06 AM	24.864	17.0523	35.3788	1.3373	4.76E-02	2.6044	4.54E+04	7.6855	98.748	24.944	-0.803	-0.05	25.8025	0.00E+00
10/12/2019	9:26:47 AM	24.895	17.1499	35.3136	1.2625	4.76E-02	1.9486	4.54E+04	7.1	89.668	25.008	0.869	0.1	25.713	0.00E+00
10/12/2019	9:27:05 AM	25.045	17.0342	35.3897	1.335	4.76E-02	2.609	4.53E+04	7.6762	98.631	25.142	-0.791	-0.08	25.8177	0.00E+00
10/12/2019	9:26:47 AM	25.135	17.149	35.3312	1.406	4.76E-02	1.3502	4.54E+04	6.9533	87.793	25.259	0.901	0.13	25.7307	0.00E+00
10/12/2019	9:27:05 AM	25.229	17.0109	35.4011	1.3365	4.76E-02	2.6028	4.53E+04	7.6724	98.576	25.344	-0.77	-0.15	25.8348	0.00E+00
10/12/2019	9:26:47 AM	25.376	17.1497	35.3436	1.4098	4.76E-02	1.3487	4.55E+04	6.8214	86.102	25.519	0.939	0.15	25.7423	0.00E+00
10/12/2019	9:27:05 AM	25.415	16.982	35.4134	1.2969	4.76E-02	1.4948	4.53E+04	7.6692	98.522	25.558	-0.733	-0.14	25.8539	0.00E+00
10/12/2019	9:27:04 AM	25.6	16.9472	35.4248	1.2999	4.76E-02	1.4948	4.53E+04	7.6696	98.503	25.753	-0.699	-0.13	25.8736	0.00E+00
10/12/2019	9:26:47 AM	25.618	17.1462	35.3447	1.4083	4.76E-02	1.344	4.55E+04	6.7078	84.644	25.76	0.973	0.14	25.7433	0.00E+00
10/12/2019	9:27:04 AM	25.785	16.9065	35.4349	1.2976	4.76E-02	1.4994	4.52E+04	7.6731	98.522	25.972	-0.665	-0.08	25.8934	0.00E+00
10/12/2019	9:26:48 AM	25.859	17.1353	35.3353	1.4052	4.76E-02	1.344	4.54E+04	6.6137	83.444	25.997	0.997	0.1	25.7359	0.00E+00
10/12/2019	9:27:04 AM	25.967	16.8603	35.4454	1.3007	4.76E-02	1.4932	4.52E+04	7.6704	98.451	26.163	-0.645	-0.08	25.9146	0.00E+00
10/12/2019	9:26:48 AM	26.101	17.1147	35.3215	1.4571	4.76E-02	1.2011	4.54E+04	6.5528	82.679	26.235	1.006	0.03	25.7261	0.00E+00
10/12/2019	9:27:04 AM	26.147	16.8094	35.4551	1.4472	4.76E-02	0.9757	4.51E+04	7.6802	98.552	26.344	-0.625	-0.05	25.9362	0.00E+00
10/12/2019	9:27:04 AM	26.323	16.7536	35.4593	1.4426	4.76E-02	0.9804	4.51E+04	7.6893	98.662	26.539	-0.611	-0.03	25.9536	0.00E+00
10/12/2019	9:26:48 AM	26.344	17.0816	35.3033	1.4594	4.76E-02	1.1948	4.54E+04	6.5186	82.258	26.485	1	-0.02	25.7148	0.00E+00
10/12/2019	9:27:03 AM	26.494	16.694	35.4585	1.4418	4.76E-02	0.9726	4.50E+04	7.702	98.833	26.717	-0.604	0	25.9668	0.00E+00
10/12/2019	9:26:49 AM	26.587	17.0367	35.2806	1.4586	4.76E-02	1.1948	4.53E+04	6.4989	82.023	26.738	0.99	-0.04	25.7022	0.00E+00
10/12/2019	9:27:03 AM	26.662	16.6336	35.455	1.4449	4.76E-02	0.9757	4.49E+04	7.7125	98.975	26.876	-0.605	0.03	25.9771	0.00E+00
10/12/2019	9:27:03 AM	26.826	16.5748	35.4456	1.5181	4.76E-02	0.6012	4.49E+04	7.7209	99.088	26.997	-0.613	0.05	25.9812	0.00E+00
10/12/2019	9:26:49 AM	26.829	16.9835	35.2622	1.454	4.76E-02	1.1979	4.53E+04	6.4884	81.902	26.978	0.982	-0.03	25.696	0.00E+00
10/12/2019	9:27:03 AM	26.988	16.5196	35.4327	1.5166	4.76E-02	0.6074	4.48E+04	7.7269	99.164	27.155	-0.626	0.1	25.9808	0.00E+00
10/12/2019	9:26:49 AM	27.072	16.9222	35.2499	1.4319	4.76E-02	1.2523	4.52E+04	6.4892	81.92	27.238	0.982	0	25.6972	0.00E+00
10/12/2019	9:27:02 AM	27.149	16.4711	35.4211	1.5196	4.76E-02	0.6027	4.48E+04	7.721	99.085	27.313	-0.651	0.1	25.9796	0.00E+00
10/12/2019	9:27:02 AM	27.309	16.4307	35.4085	1.5196	4.76E-02	0.6105	4.47E+04	7.7066	98.896	27.478	-0.675	0.1	25.9758	0.00E+00
10/12/2019	9:26:49 AM	27.314	16.8483	35.2361	1.4357	4.76E-02	1.2477	4.52E+04	6.4958	82.007	27.493	0.986	0.02	25.6993	0.00E+00
10/12/2019	9:27:02 AM	27.469	16.3976	35.3941	1.5212	4.76E-02	0.6058	4.47E+04	7.681	98.561	27.615	-0.702	0.04	25.9689	0.00E+00
10/12/2019	9:26:49 AM	27.555	16.7569	35.213	1.4304	4.76E-02	1.2492	4.51E+04	6.5025	82.093	27.718	0.988	0.01	25.696	0.00E+00
10/12/2019	9:27:01 AM	27.628	16.3721	35.3823	1.2503	4.76E-02	0.6074	4.47E+04	7.6431	98.064	27.778	-0.711	0.01	25.9625	0.00E+00
10/12/2019	9:27:01 AM	27.788	16.3544	35.3748	1.2488	4.76E-02	0.6012	4.47E+04	7.5967	97.457	27.918	-0.713	-0.05	25.9585	0.00E+00
10/12/2019	9:26:50 AM	27.795	16.6531	35.1827	1.4342	4.76E-02	1.2539	4.50E+04	6.518	82.289	27.957	0.987	0	25.6903	0.00E+00
10/12/2019	9:27:01 AM	27.95	16.343	35.3701	1.2496	4.76E-02	0.6074	4.47E+04	7.5373	96.678	28.066	-0.701	-0.06	25.956	0.00E+00
10/12/2019	9:26:50 AM	28.034	16.5522	35.1665	1.4311	4.76E-02	1.2523	4.49E+04	6.5357	82.511	28.2	0.984	-0.01	25.6994	0.00E+00
10/12/2019	9:27:01 AM	28.114	16.3356	35.3685	1.2496	4.76E-02	0.6058	4.47E+04	7.4766	95.878	28.235	-0.687	-0.08	25.9558	0.00E+00
10/12/2019	9:26:50 AM	28.272	16.467	35.1802	1.4563	4.76E-02	0.9229	4.48E+04	6.5559	82.764	28.466	0.983	0	25.7344	0.00E+00
10/12/2019	9:27:01 AM	28.28	16.3307	35.3711	1.2244	4.76E-02	0.696	4.47E+04	7.4098	94.989	28.439	-0.667	-0.08	25.9591	0.00E+00
10/12/2019	9:27:00 AM	28.445	16.3264	35.3763	1.2229	4.76E-02	0.7084	4.47E+04	7.3327	93.961	28.649	-0.647	-0.09	25.9651	0.00E+00
10/12/2019	9:26:50 AM	28.508	16.4002	35.2138	1.4563	4.76E-02	0.9322	4.47E+04	6.5749	83.004	28.733	0.989	0.02	25.7838	0.00E+00
10/12/2019	9:27:00 AM	28.609	16.3204	35.3807	1.2206	4.76E-02	0.7006	4.46E+04	7.2534	92.884	28.825	-0.625	-0.11	25.9711	0.00E+00
10/12/2019	9:26:51 AM	28.74	16.3497	35.2486	1.4594	4.76E-02	0.9338	4.47E+04	6.5931	83.236	29.006	1.002	0.05	25.8306	0.00E+00
10/12/2019	9:27:00 AM	28.768	16.3118	35.3826	1.2251	4.76E-02	0.7022	4.46E+04	7.166	91.706	29.002	-0.597	-0.09	25.9752	0.00E+00
10/12/2019	9:26:59 AM	28.924	16.301	35.3817	1.2885	4.76E-02	0.9291	4.46E+04	7.0851	90.587	29.148	-0.576	-0.1	25.977	0.00E+00

10/12/2019	9:26:51 AM	28.966	16.3134	35.2784	1.4571	4.76E-02	0.9291	4.46E+04	6.609	83.44	29.273	1.015	0.05	25.8692	0.00E+00
10/12/2019	9:26:59 AM	29.076	16.2897	35.3788	1.2877	4.76E-02	0.9275	4.46E+04	7.0147	89.605	29.3	-0.551	-0.14	25.9767	0.00E+00
10/12/2019	9:26:51 AM	29.182	16.2882	35.3043	1.3823	4.76E-02	1.0301	4.46E+04	6.621	83.598	29.531	1.03	0.06	25.9009	0.00E+00
10/12/2019	9:26:59 AM	29.223	16.2791	35.3739	1.2862	4.76E-02	0.9213	4.46E+04	6.9505	88.69	29.454	-0.517	-0.19	25.9744	0.00E+00
10/12/2019	9:26:59 AM	29.366	16.2704	35.3681	1.2869	4.76E-02	0.9229	4.46E+04	6.9019	87.963	29.644	-0.469	-0.19	25.9705	0.00E+00
10/12/2019	9:26:52 AM	29.386	16.2695	35.3241	1.3854	4.76E-02	1.0285	4.46E+04	6.631	83.73	29.796	1.048	0.07	25.9246	0.00E+00
10/12/2019	9:26:59 AM	29.502	16.2644	35.3632	1.3465	4.76E-02	0.7302	4.46E+04	6.8692	87.435	29.805	-0.421	-0.22	25.9668	0.00E+00
10/12/2019	9:26:52 AM	29.575	16.2536	35.334	1.3861	4.76E-02	1.027	4.46E+04	6.6375	83.816	30.066	1.059	0.05	25.9381	0.00E+00
10/12/2019	9:26:58 AM	29.629	16.2617	35.3602	1.3465	4.76E-02	0.7317	4.46E+04	6.8489	87.043	29.943	-0.365	-0.25	25.9641	0.00E+00
10/12/2019	9:26:52 AM	29.743	16.2404	35.3381	1.3846	4.76E-02	1.0239	4.46E+04	6.6418	83.881	30.348	1.069	0.04	25.9456	0.00E+00
10/12/2019	9:26:58 AM	29.748	16.2616	35.3596	1.3465	4.76E-02	0.7271	4.46E+04	6.8328	86.75	30.048	-0.302	-0.29	25.9632	0.00E+00
10/12/2019	9:26:58 AM	29.859	16.263	35.361	1.3495	4.76E-02	0.7271	4.46E+04	6.83	86.592	30.158	-0.23	-0.3	25.9641	0.00E+00
10/12/2019	9:26:52 AM	29.886	16.2313	35.344	1.1984	4.76E-02	0.9586	4.46E+04	6.6484	83.978	30.501	1.042	-0.11	25.9538	0.00E+00
10/12/2019	9:26:57 AM	29.96	16.2646	35.3639	1.348	4.76E-02	0.7333	4.46E+04	6.826	86.474	30.292	-0.156	-0.25	25.9665	0.00E+00
10/12/2019	9:26:52 AM	30.002	16.2267	35.3521	1.2	4.76E-02	0.9555	4.46E+04	6.6573	84.09	30.549	0.962	-0.32	25.9631	0.00E+00
10/12/2019	9:26:57 AM	30.052	16.2655	35.3676	1.3007	4.76E-02	0.5064	4.46E+04	6.8195	86.332	30.418	-0.094	-0.17	25.9699	0.00E+00
10/12/2019	9:26:53 AM	30.095	16.2261	35.3603	1.203	4.76E-02	0.9508	4.46E+04	6.6628	84.159	30.563	0.836	-0.5	25.9715	0.00E+00
10/12/2019	9:26:57 AM	30.131	16.2648	35.3698	1.3014	4.76E-02	0.5033	4.46E+04	6.8069	86.126	30.513	-0.052	-0.1	25.9724	0.00E+00
10/12/2019	9:26:53 AM	30.169	16.2284	35.3673	1.1984	4.76E-02	0.9493	4.46E+04	6.6689	84.225	30.578	0.684	-0.61	25.978	0.00E+00
10/12/2019	9:26:57 AM	30.198	16.2624	35.37	1.2984	4.76E-02	0.5064	4.46E+04	6.7864	85.822	30.572	-0.026	-0.06	25.9733	0.00E+00
10/12/2019	9:26:53 AM	30.227	16.2319	35.3718	1.2145	4.76E-02	1.3518	4.46E+04	6.6774	84.322	30.592	0.519	-0.66	25.9816	0.00E+00
10/12/2019	9:26:56 AM	30.252	16.259	35.3698	1.2991	4.76E-02	0.5126	4.46E+04	6.7629	85.519	30.613	-0.01	-0.03	25.9739	0.00E+00
10/12/2019	9:26:54 AM	30.273	16.2355	35.3734	1.2137	4.76E-02	1.3502	4.46E+04	6.6824	84.379	30.605	0.356	-0.65	25.9823	0.00E+00
10/12/2019	9:26:56 AM	30.294	16.2557	35.3698	1.3617	4.76E-02	0.7504	4.46E+04	6.7399	85.224	30.625	-0.002	-0.03	25.9746	0.00E+00
10/12/2019	9:26:54 AM	30.309	16.2385	35.373	1.2099	4.76E-02	1.344	4.46E+04	6.6893	84.46	30.615	0.212	-0.58	25.9812	0.00E+00
10/12/2019	9:26:56 AM	30.326	16.2525	35.3693	1.3571	4.76E-02	0.7519	4.46E+04	6.722	84.999	30.632	0.004	-0.03	25.9748	0.00E+00
10/12/2019	9:26:54 AM	30.337	16.2407	35.3716	1.2099	4.76E-02	1.3487	4.46E+04	6.6904	84.483	30.624	0.106	-0.42	25.9793	0.00E+00
10/12/2019	9:26:56 AM	30.35	16.2495	35.3683	1.3587	4.76E-02	0.755	4.46E+04	6.7052	84.79	30.637	0.01	-0.03	25.9744	0.00E+00
10/12/2019	9:26:54 AM	30.357	16.2421	35.3699	1.2129	4.76E-02	1.3456	4.46E+04	6.6896	84.491	30.631	0.058	-0.19	25.9772	0.00E+00
10/12/2019	9:26:56 AM	30.366	16.247	35.3672	1.3579	4.76E-02	0.7597	4.46E+04	6.6988	84.715	30.639	0.017	-0.03	25.9738	0.00E+00
10/12/2019	9:26:54 AM	30.37	16.2429	35.3684	1.2023	4.76E-02	0.8312	4.46E+04	6.6943	84.57	30.635	0.044	-0.06	25.9755	0.00E+00
10/12/2019	9:26:55 AM	30.376	16.2452	35.3664	1.2007	4.76E-02	0.8327	4.46E+04	6.6907	84.605	30.64	0.024	-0.03	25.9734	0.00E+00
10/12/2019	9:26:55 AM	30.378	16.2435	35.3671	1.1992	4.76E-02	0.8312	4.46E+04	6.6933	84.587	30.638	0.038	-0.03	25.9743	0.00E+00
10/12/2019	9:26:55 AM	30.38	16.2441	35.3664	1.2007	4.76E-02	0.8374	4.46E+04	6.6928	84.604	30.64	0.031	-0.03	25.9735	0.00E+00

TRANSECT 2 - 500 m

DD MMM YYYY HH:MM:SS	DD MMM YYYY HH:MM:SS	DepSM	Tv290C	Sal00	FlECO-AFL	Par	TurbWETntu0	C0uS/cm	Sbeox0Mg/L	Sbeox0PS	PrdM	Dz/dtM	AccM	Sigma-t00	Flag
10/12/2019	9:29:07 AM	0.485	18.2445	35.3055	0.3691	4.76E-02	0.5887	4.65E+04	7.8503	102.947	0.226	-0.308	-0.01	25.4455	0.00E+00
10/12/2019	9:29:07 AM	0.491	18.2447	35.3054	0.3706	4.76E-02	0.5841	4.65E+04	7.8474	102.902	0.227	-0.294	0.06	25.4454	0.00E+00
10/12/2019	9:29:08 AM	0.515	18.2449	35.3053	0.3096	4.76E-02	0.8498	4.65E+04	7.8442	102.854	0.256	-0.25	0.18	25.4453	0.00E+00
10/12/2019	9:29:08 AM	0.554	18.2451	35.3052	0.3073	4.76E-02	0.856	4.65E+04	7.8387	102.775	0.312	-0.167	0.33	25.4451	0.00E+00
10/12/2019	9:30:45 AM	0.556	18.2919	35.248	0.2997	4.76E-02	0.9493	4.65E+04	-9.99E-29	-9.99E-29	0.615	-0.241	0.4	25.3907	0.00E+00
10/12/2019	9:29:08 AM	0.608	18.2452	35.305	0.3096	4.76E-02	0.8529	4.65E+04	7.8347	102.718	0.398	-0.062	0.42	25.4449	0.00E+00
10/12/2019	9:30:45 AM	0.62	18.2899	35.2667	0.2989	4.76E-02	0.9555	4.65E+04	-9.99E-29	-9.99E-29	0.607	-0.342	0.35	25.4053	0.00E+00
10/12/2019	9:29:08 AM	0.676	18.2455	35.305	0.3096	4.76E-02	0.8545	4.65E+04	7.8261	102.604	0.503	0.047	0.44	25.4449	0.00E+00
10/12/2019	9:30:44 AM	0.684	18.2882	35.2782	0.2966	4.76E-02	0.9493	4.65E+04	-9.99E-29	-9.99E-29	0.618	-0.428	0.26	25.4145	0.00E+00
10/12/2019	9:30:44 AM	0.752	18.2866	35.2855	0.2966	4.76E-02	0.9477	4.65E+04	8.7822	95.707	0.646	-0.494	0.21	25.4205	0.00E+00
10/12/2019	9:29:08 AM	0.755	18.2461	35.3053	0.3119	4.76E-02	0.3929	4.65E+04	7.8202	102.524	0.598	0.15	0.41	25.4451	0.00E+00
10/12/2019	9:30:44 AM	0.828	18.2852	35.2905	0.3127	4.76E-02	0.7535	4.65E+04	8.7829	96.148	0.678	-0.546	0.14	25.4248	0.00E+00
10/12/2019	9:29:09 AM	0.844	18.2473	35.3058	0.2631	4.76E-02	0.3308	4.65E+04	7.8212	102.537	0.691	0.236	0.35	25.4454	0.00E+00
10/12/2019	9:30:44 AM	0.913	18.2835	35.2939	0.3111	4.76E-02	0.7535	4.65E+04	8.7785	96.725	0.715	-0.579	0.06	25.428	0.00E+00
10/12/2019	9:29:09 AM	0.942	18.2491	35.3068	0.2615	4.76E-02	0.3292	4.65E+04	7.8306	102.658	0.797	0.303	0.27	25.4461	0.00E+00
10/12/2019	9:30:44 AM	1.01	18.2814	35.296	0.3088	4.76E-02	0.7535	4.65E+04	8.794	97.597	0.824	-0.595	0.04	25.4302	0.00E+00
10/12/2019	9:29:09 AM	1.051	18.2514	35.3081	0.2608	4.76E-02	0.3323	4.65E+04	7.8367	102.736	0.911	0.355	0.2	25.4468	0.00E+00
10/12/2019	9:30:43 AM	1.118	18.2791	35.2975	0.3134	4.76E-02	0.7504	4.65E+04	8.8485	98.763	0.966	-0.604	0.06	25.4318	0.00E+00
10/12/2019	9:29:10 AM	1.168	18.2536	35.3087	0.2631	4.76E-02	0.3339	4.65E+04	7.8482	102.886	1.034	0.393	0.15	25.4468	0.00E+00
10/12/2019	9:30:43 AM	1.235	18.2769	35.2988	0.3348	4.76E-02	0.5841	4.65E+04	8.8888	99.684	1.129	-0.618	0.08	25.4332	0.00E+00
10/12/2019	9:29:10 AM	1.294	18.2553	35.3083	0.3378	4.76E-02	0.7037	4.65E+04	7.8585	103.021	1.178	0.426	0.13	25.4459	0.00E+00
10/12/2019	9:30:43 AM	1.36	18.275	35.3001	0.334	4.76E-02	0.5701	4.65E+04	7.8672	100.453	1.308	-0.637	0.11	25.4346	0.00E+00
10/12/2019	9:29:10 AM	1.427	18.2566	35.3073	0.334	4.76E-02	0.7022	4.65E+04	7.8725	103.205	1.334	0.458	0.13	25.4445	0.00E+00
10/12/2019	9:30:42 AM	1.489	18.2733	35.3014	0.3348	4.76E-02	0.5794	4.65E+04	7.7064	101.116	1.437	-0.666	0.07	25.436	0.00E+00
10/12/2019	9:29:10 AM	1.567	18.2575	35.3064	0.3348	4.76E-02	0.7053	4.65E+04	7.8867	103.39	1.497	0.493	0.14	25.4434	0.00E+00
10/12/2019	9:30:42 AM	1.623	18.2716	35.3024	0.3394	4.76E-02	0.581	4.65E+04	7.7462	101.644	1.554	-0.682	-0.02	25.4372	0.00E+00
10/12/2019	9:29:10 AM	1.711	18.2578	35.3055	0.3401	4.76E-02	0.7084	4.65E+04	7.894	103.486	1.661	0.534	0.16	25.4423	0.00E+00
10/12/2019	9:30:42 AM	1.76	18.27	35.3034	0.3584	4.76E-02	0.682	4.65E+04	7.8074	102.454	1.702	-0.678	-0.1	25.4384	0.00E+00
10/12/2019	9:29:11 AM	1.86	18.2571	35.3041	0.3607	4.76E-02	0.3743	4.65E+04	7.8873	103.397	1.822	0.573	0.15	25.4411	0.00E+00
10/12/2019	9:30:42 AM	1.902	18.2683	35.3045	0.3607	4.76E-02	0.6804	4.65E+04	7.8426	102.924	1.858	-0.653	-0.22	25.4398	0.00E+00
10/12/2019	9:29:11 AM	2.012	18.2555	35.3023	0.3569	4.76E-02	0.3821	4.65E+04	7.8926	103.466	1.976	0.601	0.12	25.4396	0.00E+00
10/12/2019	9:30:42 AM	2.047	18.2664	35.3052	0.3577	4.76E-02	0.6742	4.65E+04	7.8529	103.062	2.038	-0.599	-0.28	25.4409	0.00E+00
10/12/2019	9:29:11 AM	2.166	18.2534	35.3008	0.363	4.76E-02	0.3774	4.65E+04	7.8901	103.433	2.121	0.619	0.07	25.4386	0.00E+00
10/12/2019	9:30:41 AM	2.193	18.2643	35.3053	0.3607	4.76E-02	0.6804	4.65E+04	7.8578	103.126	2.209	-0.53	-0.32	25.4414	0.00E+00
10/12/2019	9:29:12 AM	2.325	18.251	35.3001	0.3607	4.76E-02	0.3805	4.65E+04	7.8764	103.253	2.262	0.623	0.02	25.4386	0.00E+00
10/12/2019	9:30:41 AM	2.339	18.2621	35.3047	0.3577	4.76E-02	0.6789	4.65E+04	7.8635	103.199	2.396	-0.45	-0.29	25.4413	0.00E+00
10/12/2019	9:30:41 AM	2.483	18.2602	35.304	0.3615	4.76E-02	0.4955	4.65E+04	7.8618	103.174	2.567	-0.377	-0.2	25.4409	0.00E+00
10/12/2019	9:29:12 AM	2.488	18.2485	35.2999	0.3355	4.76E-02	0.452	4.65E+04	7.8768	103.257	2.416	0.62	-0.01	25.439	0.00E+00
10/12/2019	9:30:40 AM	2.622	18.2588	35.3032	0.3615	4.76E-02	0.5064	4.65E+04	7.8646	103.206	2.739	-0.328	-0.08	25.4404	0.00E+00
10/12/2019	9:29:12 AM	2.656	18.2458	35.2999	0.3363	4.76E-02	0.4582	4.65E+04	7.8731	103.207	2.58	0.616	-0.02	25.4395	0.00E+00
10/12/2019	9:30:40 AM	2.754	18.2579	35.3026	0.3592	4.76E-02	0.5064	4.65E+04	7.8718	103.296	2.89	-0.307	0	25.4399	0.00E+00
10/12/2019	9:29:12 AM	2.83	18.2431	35.2999	0.3363	4.76E-02	0.4535	4.65E+04	7.8732	103.206	2.748	0.616	0	25.4402	0.00E+00
10/12/2019	9:30:40 AM	2.88	18.2576	35.302	0.3607	4.76E-02	0.5048	4.65E+04	7.878	103.374	3.03	-0.308	0.1	25.4394	0.00E+00
10/12/2019	9:30:40 AM	2.997	18.2577	35.3016	0.3867	4.76E-02	0.6105	4.65E+04	7.8857	103.474	3.138	-0.333	0.18	25.4389	0.00E+00
10/12/2019	9:29:13 AM	3.01	18.2408	35.3002	0.3363	4.76E-02	0.4489	4.65E+04	7.8714	103.18	2.919	0.621	0.02	25.4411	0.00E+00
10/12/2019	9:30:40 AM	3.107	18.258	35.3013	0.3821	4.76E-02	0.6058	4.65E+04	7.8879	103.503	3.19	-0.379	0.24	25.4385	0.00E+00
10/12/2019	9:29:13 AM	3.197	18.239	35.3011	0.334	4.76E-02	0.6089	4.65E+04	7.8792	103.283	3.097	0.633	0.05	25.4424	0.00E+00
10/12/2019	9:30:39 AM	3.214	18.2585	35.301	0.3806	4.76E-02	0.5981	4.65E+04	7.8846	103.459	3.244	-0.439	0.28	25.4382	0.00E+00
10/12/2019	9:30:39 AM	3.319	18.2592	35.3009	0.3844	4.76E-02	0.6058	4.65E+04	7.8844	103.451	3.287	-0.509	0.3	25.4379	0.00E+00
10/12/2019	9:29:13 AM	3.391	18.2376	35.3021	0.3638	4.76E-02	0.6074	4.65E+04	7.8734	103.213	3.287	0.655	0.08	25.4438	0.00E+00

10/12/2019	9:30:39 AM	3.428	18.2598	35.301	0.4088	4.76E-02	0.7783	4.65E+04	7.8805	103.394	3.351	-0.585	0.26	25.4379	0.00E+00
10/12/2019	9:30:39 AM	3.541	18.2605	35.3014	0.4057	4.76E-02	0.7737	4.65E+04	7.8788	103.366	3.466	-0.651	0.21	25.4381	0.00E+00
10/12/2019	9:29:13 AM	3.592	18.2364	35.3029	0.3622	4.76E-02	0.5996	4.65E+04	7.8807	103.316	3.485	0.682	0.11	25.4448	0.00E+00
10/12/2019	9:30:38 AM	3.661	18.2611	35.3019	0.4057	4.76E-02	0.7815	4.65E+04	7.8772	103.342	3.584	-0.705	0.11	25.4384	0.00E+00
10/12/2019	9:30:38 AM	3.787	18.2614	35.3024	0.4095	4.76E-02	0.7783	4.65E+04	7.8799	103.375	3.684	-0.733	-0.03	25.4388	0.00E+00
10/12/2019	9:29:13 AM	3.802	18.2355	35.3033	0.3584	4.76E-02	0.6074	4.65E+04	7.8736	103.229	3.698	0.714	0.13	25.4455	0.00E+00
10/12/2019	9:30:38 AM	3.921	18.2615	35.3028	0.4782	4.76E-02	0.5763	4.65E+04	7.8817	103.396	3.802	-0.726	-0.09	25.4393	0.00E+00
10/12/2019	9:29:14 AM	4.019	18.2346	35.3037	0.3577	4.76E-02	0.6105	4.65E+04	7.8697	103.181	3.927	0.749	0.14	25.446	0.00E+00
10/12/2019	9:30:37 AM	4.063	18.2613	35.3032	0.4797	4.76E-02	0.5779	4.65E+04	7.883	103.413	3.935	-0.703	-0.16	25.4397	0.00E+00
10/12/2019	9:30:37 AM	4.214	18.261	35.3035	0.4805	4.76E-02	0.5779	4.65E+04	7.8842	103.425	4.125	-0.664	-0.12	25.4401	0.00E+00
10/12/2019	9:29:14 AM	4.243	18.2339	35.3041	0.3859	4.76E-02	0.553	4.65E+04	7.8684	103.164	4.166	0.789	0.16	25.4465	0.00E+00
10/12/2019	9:30:37 AM	4.372	18.2604	35.3037	0.4782	4.76E-02	0.5887	4.65E+04	7.886	103.447	4.329	-0.633	-0.08	25.4404	0.00E+00
10/12/2019	9:29:14 AM	4.473	18.2335	35.3045	0.3821	4.76E-02	0.5546	4.65E+04	7.8661	103.14	4.404	0.829	0.16	25.4471	0.00E+00
10/12/2019	9:30:37 AM	4.533	18.2598	35.3039	0.4797	4.76E-02	0.5794	4.65E+04	7.8889	103.482	4.565	-0.612	0.03	25.4408	0.00E+00
10/12/2019	9:30:37 AM	4.695	18.259	35.3043	0.5179	4.76E-02	0.5546	4.65E+04	7.889	103.477	4.769	-0.621	0.11	25.4413	0.00E+00
10/12/2019	9:29:15 AM	4.709	18.2331	35.3049	0.3813	4.76E-02	0.5546	4.65E+04	7.8717	103.216	4.654	0.871	0.17	25.4476	0.00E+00
10/12/2019	9:30:36 AM	4.854	18.2582	35.3048	0.5171	4.76E-02	0.5546	4.65E+04	7.8878	103.455	4.932	-0.648	0.12	25.4419	0.00E+00
10/12/2019	9:29:15 AM	4.95	18.2328	35.3051	0.3851	4.76E-02	0.5639	4.65E+04	7.877	103.286	4.916	0.912	0.17	25.4479	0.00E+00
10/12/2019	9:30:36 AM	5.01	18.2573	35.3052	0.5148	4.76E-02	0.553	4.65E+04	7.8868	103.437	5.055	-0.678	0.03	25.4426	0.00E+00
10/12/2019	9:30:36 AM	5.165	18.2561	35.3055	0.5133	4.76E-02	0.5577	4.65E+04	7.882	103.372	5.171	-0.686	-0.1	25.4433	0.00E+00
10/12/2019	9:29:15 AM	5.195	18.2325	35.305	0.4317	4.76E-02	0.6276	4.65E+04	7.8866	103.405	5.191	0.953	0.16	25.4479	0.00E+00
10/12/2019	9:30:35 AM	5.322	18.2547	35.3058	0.5911	4.76E-02	0.6571	4.65E+04	7.8778	103.317	5.33	-0.661	-0.14	25.4439	0.00E+00
10/12/2019	9:29:15 AM	5.441	18.2322	35.305	0.4294	4.76E-02	0.6338	4.65E+04	7.8886	103.429	5.475	0.994	0.16	25.4479	0.00E+00
10/12/2019	9:30:35 AM	5.479	18.2531	35.3061	0.5881	4.76E-02	0.6556	4.65E+04	7.8742	103.271	5.488	-0.625	-0.18	25.4446	0.00E+00
10/12/2019	9:30:35 AM	5.638	18.2514	35.3066	0.5888	4.76E-02	0.654	4.65E+04	7.8693	103.207	5.669	-0.58	-0.17	25.4455	0.00E+00
10/12/2019	9:29:15 AM	5.688	18.232	35.3051	0.4324	4.76E-02	0.6323	4.65E+04	7.8905	103.452	5.746	1.026	0.13	25.4481	0.00E+00
10/12/2019	9:30:35 AM	5.796	18.2496	35.3072	0.5904	4.76E-02	0.6602	4.65E+04	7.865	103.152	5.84	-0.538	-0.16	25.4466	0.00E+00
10/12/2019	9:29:16 AM	5.933	18.2317	35.3052	0.4378	4.76E-02	0.6323	4.65E+04	7.887	103.406	6.012	1.05	0.1	25.4482	0.00E+00
10/12/2019	9:30:35 AM	5.954	18.2474	35.308	0.6133	4.76E-02	0.5608	4.65E+04	7.8644	103.146	6.031	-0.499	-0.07	25.448	0.00E+00
10/12/2019	9:30:34 AM	6.109	18.2449	35.3091	0.6102	4.76E-02	0.5561	4.65E+04	7.8614	103.108	6.213	-0.482	0.05	25.4497	0.00E+00
10/12/2019	9:29:16 AM	6.175	18.2315	35.3052	0.4683	4.76E-02	0.525	4.65E+04	7.8811	103.333	6.28	1.068	0.07	25.4484	0.00E+00
10/12/2019	9:30:34 AM	6.26	18.2419	35.3102	0.614	4.76E-02	0.5561	4.65E+04	7.8643	103.147	6.379	-0.495	0.16	25.4516	0.00E+00
10/12/2019	9:30:34 AM	6.406	18.2383	35.3113	0.614	4.76E-02	0.5608	4.65E+04	7.8696	103.22	6.502	-0.535	0.21	25.4536	0.00E+00
10/12/2019	9:29:16 AM	6.412	18.2312	35.3053	0.4675	4.76E-02	0.5297	4.65E+04	7.8799	103.319	6.545	1.079	0.04	25.4485	0.00E+00
10/12/2019	9:30:33 AM	6.549	18.2341	35.3125	0.6621	4.76E-02	0.281	4.65E+04	7.8741	103.281	6.598	-0.588	0.2	25.4558	0.00E+00
10/12/2019	9:29:17 AM	6.644	18.2308	35.3052	0.4698	4.76E-02	0.525	4.65E+04	7.8819	103.332	6.788	1.076	-0.01	25.4485	0.00E+00
10/12/2019	9:30:33 AM	6.691	18.2294	35.3138	0.6606	4.76E-02	0.2748	4.65E+04	7.8777	103.328	6.716	-0.637	0.21	25.4583	0.00E+00
10/12/2019	9:30:33 AM	6.833	18.2241	35.3145	0.6628	4.76E-02	0.2779	4.65E+04	7.8774	103.324	6.83	-0.689	0.17	25.4604	0.00E+00
10/12/2019	9:29:17 AM	6.869	18.2304	35.305	0.4683	4.76E-02	0.5328	4.65E+04	7.8857	103.368	7.021	1.059	-0.07	25.4484	0.00E+00
10/12/2019	9:30:33 AM	6.978	18.2182	35.314	0.6621	4.76E-02	0.281	4.65E+04	7.8779	103.33	6.953	-0.73	0.1	25.4614	0.00E+00
10/12/2019	9:29:17 AM	7.087	18.2302	35.305	0.4668	4.76E-02	0.581	4.65E+04	7.8888	103.394	7.236	1.029	-0.12	25.4485	0.00E+00
10/12/2019	9:30:32 AM	7.127	18.2122	35.3123	0.6613	4.76E-02	0.2873	4.65E+04	7.8764	103.31	7.068	-0.756	-0.02	25.4611	0.00E+00
10/12/2019	9:30:32 AM	7.282	18.2066	35.3103	0.7117	4.76E-02	0.0681	4.65E+04	7.8726	103.257	7.221	-0.751	-0.08	25.4604	0.00E+00
10/12/2019	9:29:17 AM	7.298	18.2306	35.3055	0.5293	4.76E-02	0.5825	4.65E+04	7.8912	103.408	7.456	0.995	-0.14	25.4489	0.00E+00
10/12/2019	9:30:32 AM	7.443	18.2021	35.3089	0.714	4.76E-02	0.0666	4.65E+04	7.8687	103.205	7.402	-0.73	-0.11	25.46	0.00E+00
10/12/2019	9:29:17 AM	7.502	18.2318	35.3065	0.5286	4.76E-02	0.5794	4.65E+04	7.8907	103.388	7.675	0.962	-0.13	25.4497	0.00E+00
10/12/2019	9:30:32 AM	7.609	18.1988	35.308	0.7086	4.76E-02	0.0635	4.65E+04	7.864	103.142	7.593	-0.702	-0.09	25.4599	0.00E+00
10/12/2019	9:29:18 AM	7.697	18.2336	35.3079	0.527	4.76E-02	0.5794	4.65E+04	7.8906	103.374	7.889	0.931	-0.13	25.4507	0.00E+00
10/12/2019	9:30:32 AM	7.778	18.1962	35.3075	0.7086	4.76E-02	0.0666	4.65E+04	7.8613	103.106	7.791	-0.679	-0.06	25.46	0.00E+00
10/12/2019	9:29:18 AM	7.884	18.2358	35.3092	0.5309	4.76E-02	0.5825	4.65E+04	7.8882	103.33	8.078	0.896	-0.14	25.4514	0.00E+00
10/12/2019	9:30:31 AM	7.95	18.194	35.3072	0.7216	4.76E-02	0.0992	4.65E+04	7.8596	103.081	7.98	-0.663	-0.02	25.4602	0.00E+00

10/12/2019	9:29:18 AM	8.062	18.2377	35.3094	0.5789	4.76E-02	0.5825	4.65E+04	7.8857	103.284	8.193	0.842	-0.21	25.4512	0.00E+00
10/12/2019	9:30:31 AM	8.122	18.1921	35.3075	0.7185	4.76E-02	0.0914	4.65E+04	7.8625	103.117	8.187	-0.659	0.05	25.4609	0.00E+00
10/12/2019	9:29:18 AM	8.235	18.2391	35.3088	0.5736	4.76E-02	0.581	4.65E+04	7.8865	103.273	8.261	0.768	-0.3	25.4501	0.00E+00
10/12/2019	9:30:31 AM	8.292	18.1903	35.3083	0.7178	4.76E-02	0.0899	4.65E+04	7.8683	103.189	8.375	-0.671	0.07	25.4621	0.00E+00
10/12/2019	9:29:19 AM	8.409	18.2403	35.3079	0.5751	4.76E-02	0.5887	4.65E+04	7.8916	103.317	8.369	0.69	-0.32	25.449	0.00E+00
10/12/2019	9:30:30 AM	8.461	18.1883	35.3093	0.7216	4.76E-02	0.093	4.64E+04	7.8749	103.274	8.547	-0.688	0.03	25.4636	0.00E+00
10/12/2019	9:29:19 AM	8.588	18.2414	35.3076	0.5766	4.76E-02	0.5856	4.65E+04	7.8973	103.367	8.551	0.632	-0.23	25.4484	0.00E+00
10/12/2019	9:30:30 AM	8.628	18.1859	35.3102	0.7582	4.76E-02	0.121	4.64E+04	7.8825	103.371	8.688	-0.694	-0.06	25.4652	0.00E+00
10/12/2019	9:29:19 AM	8.771	18.2418	35.3073	0.5759	4.76E-02	0.4986	4.65E+04	7.902	103.4	8.74	0.594	-0.15	25.4478	0.00E+00
10/12/2019	9:30:30 AM	8.794	18.1829	35.3108	0.7575	4.76E-02	0.121	4.64E+04	7.8863	103.417	8.843	-0.679	-0.08	25.4665	0.00E+00
10/12/2019	9:29:20 AM	8.96	18.2415	35.306	0.5782	4.76E-02	0.5048	4.65E+04	7.915	103.491	8.903	0.572	-0.09	25.4466	0.00E+00
10/12/2019	9:30:30 AM	8.96	18.1795	35.3108	0.7575	4.76E-02	0.1148	4.64E+04	7.8939	103.513	8.992	-0.659	-0.1	25.4674	0.00E+00
10/12/2019	9:30:30 AM	9.127	18.1759	35.3104	0.759	4.76E-02	0.121	4.64E+04	7.8995	103.581	9.172	-0.633	-0.06	25.468	0.00E+00
10/12/2019	9:29:20 AM	9.156	18.2405	35.3044	0.5743	4.76E-02	0.5095	4.65E+04	7.9258	103.546	9.075	0.573	0	25.4452	0.00E+00
10/12/2019	9:30:29 AM	9.294	18.1723	35.3104	0.7658	4.76E-02	0.093	4.64E+04	7.9026	103.617	9.347	-0.618	-0.03	25.4688	0.00E+00
10/12/2019	9:29:20 AM	9.36	18.2394	35.3034	0.5759	4.76E-02	0.5048	4.65E+04	7.93	103.525	9.291	0.61	0.15	25.4446	0.00E+00
10/12/2019	9:30:29 AM	9.46	18.1689	35.3112	0.7674	4.76E-02	0.0899	4.64E+04	7.9069	103.664	9.539	-0.611	0.03	25.4704	0.00E+00
10/12/2019	9:29:20 AM	9.571	18.2385	35.3036	0.5652	4.76E-02	0.4271	4.65E+04	7.9293	103.469	9.528	0.68	0.28	25.4449	0.00E+00
10/12/2019	9:30:29 AM	9.625	18.1655	35.3129	0.7704	4.76E-02	0.0961	4.64E+04	7.908	103.672	9.736	-0.618	0.08	25.4729	0.00E+00
10/12/2019	9:30:28 AM	9.787	18.1616	35.3153	0.7689	4.76E-02	0.093	4.64E+04	7.9102	103.69	9.904	-0.637	0.07	25.4763	0.00E+00
10/12/2019	9:29:20 AM	9.788	18.2375	35.304	0.5667	4.76E-02	0.4302	4.65E+04	7.9285	103.396	9.758	0.752	0.29	25.4455	0.00E+00
10/12/2019	9:30:28 AM	9.945	18.1567	35.3179	0.7704	4.76E-02	0.0977	4.64E+04	7.912	103.702	10.032	-0.654	0.01	25.4802	0.00E+00
10/12/2019	9:29:21 AM	10.01	18.2358	35.3037	0.566	4.76E-02	0.4256	4.65E+04	7.9265	103.314	9.973	0.8	0.19	25.4455	0.00E+00
10/12/2019	9:30:28 AM	10.102	18.1505	35.3204	0.8536	4.76E-02	0.093	4.64E+04	7.9139	103.712	10.146	-0.658	-0.07	25.4842	0.00E+00
10/12/2019	9:29:21 AM	10.238	18.2327	35.3023	0.5682	4.76E-02	0.4271	4.65E+04	7.9229	103.239	10.197	0.83	0.12	25.4447	0.00E+00
10/12/2019	9:30:28 AM	10.259	18.143	35.3222	0.8566	4.76E-02	0.0914	4.64E+04	7.9202	103.778	10.299	-0.64	-0.06	25.4879	0.00E+00
10/12/2019	9:30:28 AM	10.416	18.1343	35.3227	0.8536	4.76E-02	0.0899	4.64E+04	7.9251	103.829	10.456	-0.626	-0.05	25.4907	0.00E+00
10/12/2019	9:29:21 AM	10.472	18.2278	35.2997	0.5637	4.76E-02	0.4831	4.65E+04	7.9132	103.097	10.429	0.86	0.12	25.4431	0.00E+00
10/12/2019	9:30:27 AM	10.575	18.1249	35.3229	0.8528	4.76E-02	0.0914	4.64E+04	7.9266	103.841	10.635	-0.615	0	25.4932	0.00E+00
10/12/2019	9:29:22 AM	10.712	18.2217	35.2966	0.6026	4.76E-02	0.48	4.65E+04	7.9178	103.117	10.693	0.899	0.15	25.4415	0.00E+00
10/12/2019	9:30:27 AM	10.733	18.1155	35.324	0.8772	4.76E-02	0.0681	4.64E+04	7.9277	103.854	10.813	-0.614	0	25.4965	0.00E+00
10/12/2019	9:30:27 AM	10.89	18.106	35.3257	0.878	4.76E-02	0.0743	4.64E+04	7.927	103.841	10.992	-0.614	0.01	25.5006	0.00E+00
10/12/2019	9:29:22 AM	10.957	18.2148	35.2947	0.601	4.76E-02	0.4769	4.65E+04	7.9265	103.158	10.979	0.938	0.16	25.4413	0.00E+00
10/12/2019	9:30:26 AM	11.045	18.0959	35.3285	0.8757	4.76E-02	0.0666	4.64E+04	7.926	103.827	11.154	-0.617	-0.01	25.5057	0.00E+00
10/12/2019	9:30:26 AM	11.197	18.085	35.3319	0.8757	4.76E-02	0.0681	4.64E+04	7.9279	103.849	11.293	-0.613	-0.1	25.5118	0.00E+00
10/12/2019	9:29:22 AM	11.204	18.2074	35.2937	0.598	4.76E-02	0.48	4.65E+04	7.9359	103.205	11.261	0.971	0.13	25.4421	0.00E+00
10/12/2019	9:30:26 AM	11.346	18.0727	35.3348	0.8902	4.76E-02	0.0743	4.63E+04	7.9284	103.855	11.428	-0.587	-0.18	25.5177	0.00E+00
10/12/2019	9:29:22 AM	11.452	18.1996	35.293	0.6018	4.76E-02	0.4769	4.65E+04	7.9337	103.121	11.534	1.003	0.13	25.4433	0.00E+00
10/12/2019	9:30:26 AM	11.495	18.0588	35.3368	0.8887	4.76E-02	0.0681	4.63E+04	7.9304	103.877	11.558	-0.543	-0.24	25.5233	0.00E+00
10/12/2019	9:30:25 AM	11.643	18.0436	35.3403	0.8902	4.76E-02	0.065	4.63E+04	7.9324	103.899	11.73	-0.484	-0.16	25.5303	0.00E+00
10/12/2019	9:29:22 AM	11.698	18.1913	35.2928	0.6888	4.76E-02	0.1163	4.65E+04	7.9293	103.032	11.797	1.035	0.13	25.4449	0.00E+00
10/12/2019	9:30:25 AM	11.79	18.0275	35.346	0.8917	4.76E-02	0.0681	4.63E+04	7.936	103.938	11.901	-0.443	-0.06	25.5399	0.00E+00
10/12/2019	9:30:25 AM	11.934	18.0095	35.3519	0.9818	4.76E-02	0.0619	4.63E+04	7.9395	103.976	12.081	-0.428	0.07	25.5502	0.00E+00
10/12/2019	9:29:23 AM	11.943	18.182	35.2923	0.6873	4.76E-02	0.1163	4.64E+04	7.9323	103.053	12.051	1.06	0.1	25.4465	0.00E+00
10/12/2019	9:30:25 AM	12.073	17.9888	35.3545	0.9795	4.76E-02	0.0666	4.63E+04	7.9461	104.053	12.222	-0.445	0.14	25.5581	0.00E+00
10/12/2019	9:29:23 AM	12.185	18.1709	35.2908	0.6865	4.76E-02	0.1194	4.64E+04	7.9338	103.057	12.307	1.071	0.05	25.4474	0.00E+00
10/12/2019	9:30:25 AM	12.208	17.9654	35.3527	0.9833	4.76E-02	0.065	4.62E+04	7.9503	104.101	12.358	-0.479	0.21	25.5623	0.00E+00
10/12/2019	9:30:24 AM	12.337	17.9414	35.3504	0.984	4.76E-02	0.0681	4.62E+04	7.9485	104.074	12.475	-0.531	0.21	25.5657	0.00E+00
10/12/2019	9:29:23 AM	12.424	18.1576	35.2882	0.6834	4.76E-02	0.1132	4.64E+04	7.9352	103.057	12.57	1.072	0	25.4478	0.00E+00
10/12/2019	9:30:24 AM	12.463	17.9187	35.3508	0.9833	4.76E-02	0.065	4.62E+04	7.9464	104.041	12.547	-0.583	0.09	25.5713	0.00E+00
10/12/2019	9:30:24 AM	12.587	17.8975	35.353	0.9955	4.76E-02	0.0728	4.62E+04	7.9456	104.029	12.625	-0.607	-0.05	25.5783	0.00E+00

10/12/2019	9:29:24 AM	12.657	18.1415	35.2846	0.7216	4.76E-02	0.0666	4.64E+04	7.9382	103.073	12.825	1.06	-0.05	25.4478	0.00E+00
10/12/2019	9:30:23 AM	12.714	17.8764	35.3544	0.997	4.76E-02	0.0759	4.61E+04	7.9412	103.959	12.705	-0.594	-0.17	25.585	0.00E+00
10/12/2019	9:30:23 AM	12.844	17.8544	35.3542	0.9924	4.76E-02	0.0743	4.61E+04	7.9399	103.931	12.847	-0.551	-0.17	25.5904	0.00E+00
10/12/2019	9:29:24 AM	12.885	18.1219	35.2805	0.7208	4.76E-02	0.065	4.64E+04	7.9409	103.058	13.075	1.044	-0.07	25.4479	0.00E+00
10/12/2019	9:30:23 AM	12.979	17.8317	35.3524	0.9955	4.76E-02	0.0681	4.61E+04	7.9382	103.888	13.006	-0.509	-0.11	25.5942	0.00E+00
10/12/2019	9:29:24 AM	13.104	18.0971	35.2748	0.7216	4.76E-02	0.0743	4.64E+04	7.957	103.164	13.341	1.035	-0.04	25.4475	0.00E+00
10/12/2019	9:30:23 AM	13.116	17.8092	35.3496	1.0924	4.76E-02	0.0992	4.61E+04	7.9347	103.822	13.181	-0.481	0	25.5968	0.00E+00
10/12/2019	9:30:23 AM	13.253	17.788	35.3458	1.0932	4.76E-02	0.0961	4.61E+04	7.9352	103.808	13.341	-0.482	0.08	25.598	0.00E+00
10/12/2019	9:29:24 AM	13.314	18.0671	35.2661	0.7216	4.76E-02	0.079	4.63E+04	7.9604	103.101	13.596	1.03	-0.02	25.4457	0.00E+00
10/12/2019	9:30:22 AM	13.39	17.7687	35.3408	1.0909	4.76E-02	0.093	4.60E+04	7.9338	103.769	13.52	-0.501	0.17	25.5976	0.00E+00
10/12/2019	9:29:24 AM	13.511	18.0349	35.2575	0.817	4.76E-02	0.0914	4.63E+04	7.9575	102.976	13.821	1.02	-0.04	25.4452	0.00E+00
10/12/2019	9:30:22 AM	13.524	17.7519	35.3357	1.0939	4.76E-02	0.0992	4.60E+04	7.933	103.751	13.662	-0.545	0.17	25.5965	0.00E+00
10/12/2019	9:30:22 AM	13.655	17.7379	35.3322	1.0436	4.76E-02	0.0743	4.60E+04	7.9381	103.792	13.763	-0.587	0.08	25.5961	0.00E+00
10/12/2019	9:29:25 AM	13.694	18.0043	35.256	0.817	4.76E-02	0.0961	4.63E+04	7.9438	102.749	13.981	0.989	-0.13	25.4515	0.00E+00
10/12/2019	9:30:21 AM	13.784	17.7266	35.3311	1.0405	4.76E-02	0.0635	4.60E+04	7.941	103.816	13.835	-0.607	-0.02	25.5976	0.00E+00
10/12/2019	9:29:25 AM	13.864	17.9761	35.2612	0.8193	4.76E-02	0.0945	4.62E+04	7.9219	102.44	14.111	0.931	-0.23	25.4635	0.00E+00
10/12/2019	9:30:21 AM	13.914	17.717	35.332	1.0413	4.76E-02	0.0588	4.60E+04	7.9445	103.835	13.921	-0.601	-0.11	25.6006	0.00E+00
10/12/2019	9:29:25 AM	14.024	17.9495	35.2662	0.817	4.76E-02	0.0945	4.62E+04	7.8863	101.967	14.228	0.852	-0.31	25.4748	0.00E+00
10/12/2019	9:30:21 AM	14.048	17.7079	35.333	1.0428	4.76E-02	0.0635	4.60E+04	7.9522	103.906	14.052	-0.574	-0.1	25.6038	0.00E+00
10/12/2019	9:29:25 AM	14.176	17.9251	35.269	0.8147	4.76E-02	0.1023	4.62E+04	7.8473	101.458	14.331	0.761	-0.37	25.484	0.00E+00
10/12/2019	9:30:21 AM	14.186	17.6983	35.3327	1.0779	4.76E-02	0.093	4.60E+04	7.9599	103.975	14.209	-0.548	-0.07	25.606	0.00E+00
10/12/2019	9:29:26 AM	14.324	17.9035	35.274	0.9032	4.76E-02	0.093	4.62E+04	7.8109	100.936	14.385	0.651	-0.44	25.4944	0.00E+00
10/12/2019	9:30:21 AM	14.327	17.6882	35.3325	1.0794	4.76E-02	0.0899	4.60E+04	7.965	104.015	14.397	-0.53	0.01	25.6083	0.00E+00
10/12/2019	9:30:20 AM	14.469	17.6783	35.3335	1.0787	4.76E-02	0.093	4.59E+04	7.9661	104.003	14.571	-0.533	0.05	25.6117	0.00E+00
10/12/2019	9:29:26 AM	14.474	17.8818	35.2795	0.9032	4.76E-02	0.0914	4.62E+04	7.773	100.444	14.42	0.53	-0.48	25.5046	0.00E+00
10/12/2019	9:30:20 AM	14.61	17.6683	35.3348	1.0809	4.76E-02	0.0883	4.59E+04	7.9652	103.937	14.745	-0.545	0.08	25.6155	0.00E+00
10/12/2019	9:29:26 AM	14.63	17.8572	35.2787	0.9017	4.76E-02	0.0945	4.61E+04	7.747	100.087	14.535	0.439	-0.37	25.5093	0.00E+00
10/12/2019	9:30:20 AM	14.748	17.6576	35.3374	1.0787	4.76E-02	0.0961	4.59E+04	7.962	103.84	14.869	-0.566	0.07	25.6208	0.00E+00
10/12/2019	9:29:27 AM	14.797	17.8301	35.2725	0.8978	4.76E-02	0.0977	4.61E+04	7.734	99.905	14.719	0.402	-0.15	25.5099	0.00E+00
10/12/2019	9:30:19 AM	14.884	17.6459	35.3434	1.1481	4.76E-02	0.1536	4.59E+04	7.9705	103.881	14.963	-0.584	0.01	25.6295	0.00E+00
10/12/2019	9:29:27 AM	14.974	17.8039	35.269	0.9825	4.76E-02	0.0961	4.61E+04	7.7269	99.79	14.913	0.417	0.06	25.5133	0.00E+00
10/12/2019	9:30:19 AM	15.02	17.6324	35.351	1.1527	4.76E-02	0.1536	4.59E+04	7.9674	103.812	15.076	-0.587	-0.02	25.6404	0.00E+00
10/12/2019	9:30:19 AM	15.157	17.6155	35.3576	1.1519	4.76E-02	0.1583	4.59E+04	7.9671	103.773	15.196	-0.581	-0.05	25.6513	0.00E+00
10/12/2019	9:29:27 AM	15.16	17.7814	35.2724	0.981	4.76E-02	0.0945	4.61E+04	7.7278	99.78	15.114	0.466	0.2	25.5226	0.00E+00
10/12/2019	9:30:19 AM	15.297	17.5948	35.3639	1.1488	4.76E-02	0.1614	4.59E+04	7.9656	103.727	15.358	-0.569	-0.01	25.6627	0.00E+00
10/12/2019	9:29:27 AM	15.353	17.7627	35.2801	0.9795	4.76E-02	0.0914	4.60E+04	7.737	99.876	15.33	0.541	0.3	25.5348	0.00E+00
10/12/2019	9:30:18 AM	15.439	17.5707	35.37	1.1527	4.76E-02	0.2577	4.58E+04	7.9621	103.619	15.519	-0.567	0.01	25.6746	0.00E+00
10/12/2019	9:29:27 AM	15.553	17.7463	35.2871	0.981	4.76E-02	0.0961	4.60E+04	7.7496	100.016	15.559	0.634	0.37	25.5458	0.00E+00
10/12/2019	9:30:18 AM	15.58	17.5436	35.3735	1.1488	4.76E-02	0.2562	4.58E+04	7.9663	103.629	15.687	-0.569	0.03	25.6846	0.00E+00
10/12/2019	9:30:18 AM	15.721	17.5141	35.3722	1.1496	4.76E-02	0.2608	4.58E+04	7.9657	103.566	15.828	-0.577	0	25.6904	0.00E+00
10/12/2019	9:29:28 AM	15.758	17.7298	35.2906	1.0222	4.76E-02	0.0914	4.60E+04	7.768	100.221	15.798	0.737	0.41	25.553	0.00E+00
10/12/2019	9:30:18 AM	15.861	17.4839	35.3673	1.1534	4.76E-02	0.2484	4.58E+04	7.9601	103.455	15.958	-0.578	-0.05	25.6926	0.00E+00
10/12/2019	9:29:28 AM	15.966	17.7109	35.2895	1.0153	4.76E-02	0.093	4.60E+04	7.7816	100.361	16.043	0.825	0.35	25.5562	0.00E+00
10/12/2019	9:30:18 AM	16	17.4558	35.3628	1.126	4.76E-02	0.1365	4.57E+04	7.9529	103.32	16.092	-0.565	-0.09	25.6944	0.00E+00
10/12/2019	9:30:17 AM	16.139	17.4311	35.3609	1.126	4.76E-02	0.1318	4.57E+04	7.946	103.197	16.226	-0.544	-0.08	25.6979	0.00E+00
10/12/2019	9:29:28 AM	16.175	17.6871	35.2841	1.0153	4.76E-02	0.0977	4.60E+04	7.7925	100.467	16.284	0.879	0.21	25.5561	0.00E+00
10/12/2019	9:30:17 AM	16.277	17.4094	35.3616	1.126	4.76E-02	0.1318	4.57E+04	7.9361	103.048	16.37	-0.525	-0.07	25.7032	0.00E+00
10/12/2019	9:29:29 AM	16.383	17.6568	35.2746	1.0214	4.76E-02	0.0945	4.59E+04	7.7995	100.524	16.513	0.908	0.11	25.5535	0.00E+00
10/12/2019	9:30:17 AM	16.416	17.3892	35.3637	1.1275	4.76E-02	0.1287	4.57E+04	7.924	102.878	16.516	-0.508	-0.07	25.7097	0.00E+00
10/12/2019	9:30:16 AM	16.554	17.3692	35.365	1.261	4.76E-02	0.1101	4.57E+04	7.911	102.702	16.686	-0.491	-0.04	25.7155	0.00E+00
10/12/2019	9:29:29 AM	16.589	17.6211	35.2623	1.0291	4.76E-02	0.093	4.59E+04	7.8135	100.651	16.737	0.926	0.07	25.5499	0.00E+00

10/12/2019	9:30:16 AM	16.689	17.349	35.3619	1.261	4.76E-02	0.1132	4.56E+04	7.8943	102.472	16.827	-0.482	-0.05	25.7173	0.00E+00
10/12/2019	9:29:29 AM	16.791	17.5853	35.2543	1.0298	4.76E-02	0.0961	4.59E+04	7.825	100.73	16.951	0.931	0.02	25.5511	0.00E+00
10/12/2019	9:30:16 AM	16.822	17.3292	35.3558	1.261	4.76E-02	0.1148	4.56E+04	7.8865	102.347	16.971	-0.47	-0.02	25.7157	0.00E+00
10/12/2019	9:30:16 AM	16.951	17.3123	35.3516	1.2618	4.76E-02	0.1179	4.56E+04	7.8791	102.23	17.088	-0.465	-0.01	25.715	0.00E+00
10/12/2019	9:29:29 AM	16.989	17.5546	35.2577	1.0283	4.76E-02	0.0961	4.58E+04	7.8225	100.632	17.161	0.923	-0.03	25.5624	0.00E+00
10/12/2019	9:30:16 AM	17.078	17.2992	35.3502	1.2633	4.76E-02	0.1256	4.56E+04	7.8702	102.095	17.187	-0.462	0.01	25.7162	0.00E+00
10/12/2019	9:29:29 AM	17.183	17.5307	35.2702	1.0291	4.76E-02	0.0945	4.58E+04	7.8204	100.548	17.349	0.901	-0.09	25.5808	0.00E+00
10/12/2019	9:30:15 AM	17.205	17.2887	35.3495	1.1649	4.76E-02	0.1303	4.56E+04	7.8546	101.884	17.295	-0.464	0.03	25.7177	0.00E+00
10/12/2019	9:30:15 AM	17.331	17.2794	35.3494	1.1656	4.76E-02	0.1303	4.56E+04	7.8449	101.733	17.439	-0.471	0.1	25.7196	0.00E+00
10/12/2019	9:29:30 AM	17.372	17.5126	35.2845	1.0275	4.76E-02	0.1039	4.58E+04	7.7977	100.234	17.508	0.863	-0.15	25.5991	0.00E+00
10/12/2019	9:30:15 AM	17.456	17.2708	35.3502	1.1656	4.76E-02	0.1334	4.56E+04	7.8323	101.557	17.57	-0.497	0.16	25.7223	0.00E+00
10/12/2019	9:29:30 AM	17.559	17.498	35.2959	1.0687	4.76E-02	0.1163	4.58E+04	7.8001	100.274	17.66	0.816	-0.19	25.6137	0.00E+00
10/12/2019	9:30:14 AM	17.58	17.2624	35.3519	1.1611	4.76E-02	0.1334	4.56E+04	7.816	101.323	17.685	-0.537	0.15	25.7259	0.00E+00
10/12/2019	9:30:14 AM	17.705	17.2538	35.3543	1.1519	4.76E-02	0.1552	4.55E+04	7.8011	101.102	17.795	-0.575	0.11	25.7302	0.00E+00
10/12/2019	9:29:30 AM	17.746	17.4844	35.303	1.0687	4.76E-02	0.1179	4.58E+04	7.7938	100.214	17.826	0.77	-0.18	25.6235	0.00E+00
10/12/2019	9:30:14 AM	17.829	17.2445	35.3563	1.1565	4.76E-02	0.1614	4.55E+04	7.7882	100.879	17.887	-0.603	0.02	25.7344	0.00E+00
10/12/2019	9:29:31 AM	17.934	17.4714	35.3055	1.0695	4.76E-02	0.1148	4.58E+04	7.7695	99.919	18.016	0.736	-0.13	25.629	0.00E+00
10/12/2019	9:30:14 AM	17.957	17.234	35.3568	1.1519	4.76E-02	0.1567	4.55E+04	7.7884	100.838	17.996	-0.608	-0.02	25.7375	0.00E+00
10/12/2019	9:30:14 AM	18.088	17.2228	35.3574	1.1488	4.76E-02	0.1567	4.55E+04	7.7828	100.7	18.113	-0.605	-0.04	25.7407	0.00E+00
10/12/2019	9:29:31 AM	18.122	17.4598	35.3072	1.068	4.76E-02	0.1116	4.57E+04	7.7628	99.841	18.22	0.718	-0.07	25.6335	0.00E+00
10/12/2019	9:30:13 AM	18.223	17.2116	35.3592	1.2404	4.76E-02	0.2608	4.55E+04	7.7909	100.736	18.265	-0.594	-0.03	25.745	0.00E+00
10/12/2019	9:29:31 AM	18.311	17.4489	35.311	1.1153	4.76E-02	0.1536	4.57E+04	7.7658	99.866	18.433	0.717	0	25.6397	0.00E+00
10/12/2019	9:30:13 AM	18.362	17.2002	35.3608	1.2366	4.76E-02	0.2655	4.55E+04	7.7804	100.526	18.42	-0.587	-0.03	25.7492	0.00E+00
10/12/2019	9:29:31 AM	18.498	17.4374	35.3128	1.1168	4.76E-02	0.1583	4.57E+04	7.7654	99.855	18.641	0.73	0.05	25.6439	0.00E+00
10/12/2019	9:30:13 AM	18.503	17.1881	35.3605	1.2335	4.76E-02	0.2531	4.55E+04	7.7793	100.456	18.589	-0.578	-0.03	25.7519	0.00E+00
10/12/2019	9:30:12 AM	18.646	17.1756	35.3584	1.2381	4.76E-02	0.2515	4.55E+04	7.7719	100.323	18.768	-0.572	0.01	25.7527	0.00E+00
10/12/2019	9:29:31 AM	18.683	17.4252	35.3123	1.113	4.76E-02	0.1505	4.57E+04	7.7735	99.92	18.837	0.753	0.09	25.6461	0.00E+00
10/12/2019	9:30:12 AM	18.787	17.1639	35.3554	1.2229	4.76E-02	0.2033	4.55E+04	7.7671	100.235	18.918	-0.574	0	25.7522	0.00E+00
10/12/2019	9:29:32 AM	18.865	17.4124	35.3121	1.1145	4.76E-02	0.1598	4.57E+04	7.7817	99.97	19.017	0.774	0.09	25.6487	0.00E+00
10/12/2019	9:30:12 AM	18.928	17.1538	35.3529	1.2259	4.76E-02	0.208	4.55E+04	7.7601	100.114	19.049	-0.573	-0.06	25.7519	0.00E+00
10/12/2019	9:29:32 AM	19.044	17.3986	35.3118	1.1282	4.76E-02	0.1132	4.57E+04	7.7816	99.908	19.186	0.783	0.03	25.6515	0.00E+00
10/12/2019	9:30:12 AM	19.067	17.1457	35.3514	1.2221	4.76E-02	0.2049	4.54E+04	7.7582	100.051	19.162	-0.559	-0.14	25.7521	0.00E+00
10/12/2019	9:30:11 AM	19.207	17.1392	35.3502	1.2251	4.76E-02	0.2049	4.54E+04	7.7567	99.987	19.311	-0.523	-0.13	25.7523	0.00E+00
10/12/2019	9:29:32 AM	19.221	17.3833	35.3106	1.126	4.76E-02	0.1179	4.57E+04	7.784	99.887	19.349	0.774	-0.04	25.6536	0.00E+00
10/12/2019	9:30:11 AM	19.346	17.1336	35.3488	1.2213	4.76E-02	0.2096	4.54E+04	7.7581	99.953	19.466	-0.492	-0.09	25.7522	0.00E+00
10/12/2019	9:29:32 AM	19.397	17.3661	35.3083	1.1267	4.76E-02	0.1194	4.57E+04	7.7877	99.899	19.507	0.749	-0.1	25.6552	0.00E+00
10/12/2019	9:30:11 AM	19.485	17.1289	35.3478	1.261	4.76E-02	0.1179	4.54E+04	7.7598	99.944	19.631	-0.469	-0.02	25.7522	0.00E+00
10/12/2019	9:29:33 AM	19.572	17.3475	35.3059	1.129	4.76E-02	0.1241	4.56E+04	7.7851	99.834	19.666	0.718	-0.12	25.6571	0.00E+00
10/12/2019	9:30:11 AM	19.622	17.1251	35.3478	1.2618	4.76E-02	0.1132	4.54E+04	7.7593	99.929	19.772	-0.464	0.02	25.7529	0.00E+00
10/12/2019	9:29:33 AM	19.749	17.3274	35.3041	1.1656	4.76E-02	0.135	4.56E+04	7.7763	99.699	19.84	0.692	-0.11	25.6598	0.00E+00
10/12/2019	9:30:11 AM	19.756	17.1219	35.3486	1.2648	4.76E-02	0.1163	4.54E+04	7.7631	99.969	19.906	-0.47	0.07	25.7544	0.00E+00
10/12/2019	9:30:10 AM	19.888	17.1187	35.3502	1.261	4.76E-02	0.121	4.54E+04	7.7646	99.972	20.044	-0.488	0.11	25.7567	0.00E+00
10/12/2019	9:29:33 AM	19.926	17.3052	35.3022	1.1633	4.76E-02	0.1396	4.56E+04	7.7682	99.564	20.021	0.676	-0.06	25.6629	0.00E+00
10/12/2019	9:30:10 AM	20.017	17.1151	35.3517	1.2991	4.76E-02	0.1303	4.54E+04	7.7688	100.012	20.164	-0.516	0.14	25.759	0.00E+00
10/12/2019	9:29:34 AM	20.105	17.2808	35.299	1.1641	4.76E-02	0.135	4.56E+04	7.7625	99.441	20.202	0.673	-0.01	25.6653	0.00E+00
10/12/2019	9:30:10 AM	20.145	17.1107	35.3524	1.2984	4.76E-02	0.1303	4.54E+04	7.7717	100.042	20.26	-0.551	0.13	25.7607	0.00E+00
10/12/2019	9:30:09 AM	20.272	17.1057	35.3523	1.2984	4.76E-02	0.1381	4.54E+04	7.773	100.041	20.344	-0.582	0.09	25.7619	0.00E+00
10/12/2019	9:29:34 AM	20.285	17.2559	35.296	1.1641	4.76E-02	0.1256	4.56E+04	7.7606	99.303	20.378	0.678	0.02	25.6683	0.00E+00
10/12/2019	9:30:09 AM	20.401	17.1006	35.3527	1.2961	4.76E-02	0.1287	4.54E+04	7.7728	100.021	20.466	-0.605	0.06	25.7634	0.00E+00
10/12/2019	9:29:34 AM	20.465	17.2335	35.2967	1.1626	4.76E-02	0.1427	4.55E+04	7.7482	99.044	20.554	0.687	0.04	25.6748	0.00E+00
10/12/2019	9:30:09 AM	20.534	17.0956	35.3544	1.2869	4.76E-02	0.1272	4.54E+04	7.7755	100.033	20.595	-0.619	0.02	25.7662	0.00E+00

10/12/2019	9:29:34 AM	20.648	17.2167	35.3033	1.2618	4.76E-02	0.2049	4.55E+04	7.7287	98.721	20.718	0.693	0.03	25.6858	0.00E+00
10/12/2019	9:30:09 AM	20.67	17.0904	35.3571	1.2854	4.76E-02	0.1381	4.54E+04	7.7739	99.987	20.739	-0.624	0.01	25.77	0.00E+00
10/12/2019	9:30:09 AM	20.808	17.0844	35.3603	1.2869	4.76E-02	0.1303	4.54E+04	7.7755	99.988	20.88	-0.625	-0.03	25.7746	0.00E+00
10/12/2019	9:29:34 AM	20.834	17.2071	35.3152	1.2656	4.76E-02	0.2127	4.55E+04	7.708	98.403	20.889	0.698	0.02	25.7003	0.00E+00
10/12/2019	9:30:08 AM	20.949	17.0771	35.3635	1.2847	4.76E-02	0.1318	4.54E+04	7.7736	99.944	21.036	-0.617	-0.07	25.7796	0.00E+00
10/12/2019	9:29:35 AM	21.023	17.2036	35.3291	1.261	4.76E-02	0.2096	4.55E+04	7.6764	97.955	21.082	0.704	0.02	25.7151	0.00E+00
10/12/2019	9:30:08 AM	21.092	17.0682	35.3661	1.3983	4.76E-02	0.1148	4.54E+04	7.7727	99.906	21.179	-0.6	-0.12	25.7845	0.00E+00
10/12/2019	9:29:35 AM	21.215	17.2028	35.3397	1.2602	4.76E-02	0.2064	4.55E+04	7.6446	97.475	21.283	0.711	0.03	25.7255	0.00E+00
10/12/2019	9:30:08 AM	21.237	17.0576	35.3678	1.3983	4.76E-02	0.1179	4.54E+04	7.7737	99.885	21.342	-0.569	-0.1	25.7888	0.00E+00
10/12/2019	9:30:07 AM	21.383	17.0457	35.3678	1.3945	4.76E-02	0.1148	4.53E+04	7.7793	99.932	21.504	-0.543	-0.08	25.7918	0.00E+00
10/12/2019	9:29:35 AM	21.411	17.2014	35.3434	1.2793	4.76E-02	0.2655	4.55E+04	7.5954	96.823	21.48	0.722	0.04	25.7292	0.00E+00
10/12/2019	9:30:07 AM	21.528	17.0331	35.3673	1.3968	4.76E-02	0.1116	4.53E+04	7.7852	99.989	21.676	-0.523	0	25.7943	0.00E+00
10/12/2019	9:29:36 AM	21.61	17.197	35.3412	1.2785	4.76E-02	0.2577	4.55E+04	7.5397	96.136	21.682	0.737	0.06	25.7277	0.00E+00
10/12/2019	9:30:07 AM	21.672	17.0205	35.3673	1.396	4.76E-02	0.1148	4.53E+04	7.7893	100.035	21.826	-0.522	0.03	25.7971	0.00E+00
10/12/2019	9:29:36 AM	21.811	17.1886	35.3354	1.274	4.76E-02	0.2608	4.55E+04	7.493	95.539	21.896	0.758	0.09	25.7235	0.00E+00
10/12/2019	9:30:07 AM	21.814	17.0083	35.3678	1.3823	4.76E-02	0.1303	4.53E+04	7.7904	100.04	21.967	-0.53	0.02	25.8005	0.00E+00
10/12/2019	9:30:07 AM	21.954	16.9961	35.3685	1.3831	4.76E-02	0.1334	4.53E+04	7.7898	100.023	22.12	-0.536	0.01	25.804	0.00E+00
10/12/2019	9:29:36 AM	22.015	17.1755	35.3281	1.2717	4.76E-02	0.2577	4.55E+04	7.4661	95.091	22.129	0.788	0.12	25.719	0.00E+00
10/12/2019	9:30:06 AM	22.091	16.9838	35.3687	1.3892	4.76E-02	0.1365	4.53E+04	7.7926	100.05	22.252	-0.539	0	25.8071	0.00E+00
10/12/2019	9:29:36 AM	22.22	17.1574	35.3202	1.2526	4.76E-02	0.4287	4.55E+04	7.4334	94.552	22.356	0.82	0.13	25.715	0.00E+00
10/12/2019	9:30:06 AM	22.226	16.9714	35.3688	1.3823	4.76E-02	0.135	4.53E+04	7.7905	100.02	22.366	-0.538	-0.01	25.8101	0.00E+00
10/12/2019	9:30:06 AM	22.361	16.9591	35.3698	1.396	4.76E-02	0.2033	4.53E+04	7.7921	100.038	22.467	-0.536	-0.03	25.8139	0.00E+00
10/12/2019	9:29:36 AM	22.424	17.1353	35.3115	1.2496	4.76E-02	0.4287	4.54E+04	7.4062	94.066	22.552	0.839	0.08	25.7114	0.00E+00
10/12/2019	9:30:06 AM	22.495	16.9469	35.3718	1.3976	4.76E-02	0.2033	4.53E+04	7.7899	100.008	22.605	-0.529	0	25.8187	0.00E+00
10/12/2019	9:29:37 AM	22.628	17.112	35.3055	1.2518	4.76E-02	0.4287	4.54E+04	7.3805	93.656	22.735	0.841	0.01	25.7111	0.00E+00
10/12/2019	9:30:05 AM	22.631	16.9341	35.3746	1.3976	4.76E-02	0.208	4.52E+04	7.7894	99.995	22.741	-0.53	0.02	25.8244	0.00E+00
10/12/2019	9:30:05 AM	22.768	16.9203	35.3782	1.396	4.76E-02	0.2049	4.52E+04	7.7854	99.933	22.906	-0.534	0.08	25.8313	0.00E+00
10/12/2019	9:29:37 AM	22.834	17.0896	35.3051	1.2518	4.76E-02	0.4302	4.54E+04	7.3492	93.228	22.922	0.835	-0.03	25.7161	0.00E+00
10/12/2019	9:30:05 AM	22.904	16.905	35.3815	1.4098	4.76E-02	0.2779	4.52E+04	7.7812	99.865	23.061	-0.554	0.1	25.8384	0.00E+00
10/12/2019	9:30:04 AM	23.039	16.8877	35.3826	1.4083	4.76E-02	0.281	4.52E+04	7.7731	99.752	23.186	-0.578	0.06	25.8437	0.00E+00
10/12/2019	9:29:37 AM	23.041	17.0684	35.3079	1.3434	4.76E-02	0.2064	4.54E+04	7.3134	92.781	23.13	0.828	-0.03	25.7238	0.00E+00
10/12/2019	9:30:04 AM	23.173	16.8689	35.3821	1.4075	4.76E-02	0.2826	4.52E+04	7.7598	99.574	23.287	-0.593	-0.03	25.8478	0.00E+00
10/12/2019	9:29:38 AM	23.251	17.0473	35.3101	1.3457	4.76E-02	0.2064	4.54E+04	7.2644	92.159	23.339	0.82	-0.03	25.7309	0.00E+00
10/12/2019	9:30:04 AM	23.307	16.8497	35.3828	1.4083	4.76E-02	0.2764	4.52E+04	7.7448	99.376	23.4	-0.584	-0.08	25.853	0.00E+00
10/12/2019	9:30:04 AM	23.444	16.8307	35.3842	1.393	4.76E-02	0.4023	4.51E+04	7.723	99.089	23.538	-0.564	-0.09	25.8588	0.00E+00
10/12/2019	9:29:38 AM	23.464	17.0242	35.3101	1.3487	4.76E-02	0.2127	4.53E+04	7.2093	91.455	23.555	0.812	-0.03	25.7359	0.00E+00
10/12/2019	9:30:04 AM	23.583	16.8113	35.3846	1.3945	4.76E-02	0.4054	4.51E+04	7.7062	98.858	23.688	-0.54	-0.06	25.8637	0.00E+00
10/12/2019	9:29:38 AM	23.679	16.9968	35.3068	1.3503	4.76E-02	0.2064	4.53E+04	7.1547	90.749	23.779	0.811	-0.01	25.7385	0.00E+00
10/12/2019	9:30:03 AM	23.723	16.7915	35.3843	1.3922	4.76E-02	0.4023	4.51E+04	7.6935	98.68	23.85	-0.526	0	25.8679	0.00E+00
10/12/2019	9:30:03 AM	23.864	16.7719	35.3845	1.3968	4.76E-02	0.4023	4.51E+04	7.6829	98.515	24.004	-0.525	0.07	25.8725	0.00E+00
10/12/2019	9:29:38 AM	23.896	16.9633	35.2992	1.348	4.76E-02	0.208	4.53E+04	7.1145	90.227	24.015	0.825	0.06	25.7382	0.00E+00
10/12/2019	9:30:03 AM	24.004	16.7528	35.3857	1.3999	4.76E-02	0.4007	4.51E+04	7.669	98.313	24.171	-0.543	0.13	25.878	0.00E+00
10/12/2019	9:29:38 AM	24.114	16.925	35.2881	1.4807	4.76E-02	0.2577	4.52E+04	7.0721	89.67	24.238	0.848	0.09	25.7362	0.00E+00
10/12/2019	9:30:02 AM	24.142	16.7339	35.3867	1.4449	4.76E-02	0.309	4.50E+04	7.657	98.127	24.312	-0.575	0.11	25.8835	0.00E+00
10/12/2019	9:30:02 AM	24.278	16.7146	35.3867	1.4441	4.76E-02	0.3043	4.50E+04	7.6474	97.982	24.433	-0.603	0.04	25.888	0.00E+00
10/12/2019	9:29:39 AM	24.334	16.887	35.2805	1.483	4.76E-02	0.2562	4.52E+04	7.0552	89.437	24.443	0.866	0.07	25.7383	0.00E+00
10/12/2019	9:30:02 AM	24.414	16.6949	35.3858	1.4449	4.76E-02	0.3137	4.50E+04	7.6341	97.791	24.529	-0.613	-0.07	25.8916	0.00E+00
10/12/2019	9:30:02 AM	24.551	16.6757	35.3843	1.4441	4.76E-02	0.3059	4.50E+04	7.6213	97.604	24.654	-0.594	-0.12	25.8945	0.00E+00
10/12/2019	9:29:39 AM	24.554	16.853	35.2836	1.4823	4.76E-02	0.2531	4.52E+04	7.0369	89.185	24.657	0.876	0.04	25.7498	0.00E+00
10/12/2019	9:30:02 AM	24.689	16.6574	35.3831	1.48	4.76E-02	0.3743	4.50E+04	7.6009	97.321	24.783	-0.565	-0.14	25.8973	0.00E+00
10/12/2019	9:29:39 AM	24.777	16.8228	35.2927	1.4823	4.76E-02	0.2577	4.51E+04	7.0227	88.988	24.877	0.879	0.01	25.7659	0.00E+00

10/12/2019	9:30:01 AM	24.83	16.6405	35.3818	1.483	4.76E-02	0.3743	4.50E+04	7.5843	97.083	24.942	-0.529	-0.11	25.8998	0.00E+00
10/12/2019	9:30:01 AM	24.973	16.6245	35.3805	1.4815	4.76E-02	0.3789	4.49E+04	7.5652	96.819	25.104	-0.503	-0.06	25.9023	0.00E+00
10/12/2019	9:29:39 AM	25.002	16.7948	35.2997	1.4945	4.76E-02	0.337	4.51E+04	7.0161	88.878	25.104	0.881	0.01	25.7792	0.00E+00
10/12/2019	9:30:01 AM	25.115	16.6094	35.3805	1.4777	4.76E-02	0.3789	4.49E+04	7.5434	96.52	25.295	-0.488	0.07	25.9056	0.00E+00
10/12/2019	9:29:40 AM	25.229	16.7696	35.3038	1.4937	4.76E-02	0.3292	4.51E+04	7.0106	88.786	25.329	0.881	0	25.7896	0.00E+00
10/12/2019	9:30:00 AM	25.256	16.5949	35.38	1.4716	4.76E-02	0.2251	4.49E+04	7.5215	96.222	25.461	-0.505	0.16	25.9084	0.00E+00
10/12/2019	9:30:00 AM	25.393	16.5807	35.3782	1.4685	4.76E-02	0.2313	4.49E+04	7.5022	95.948	25.594	-0.544	0.18	25.9098	0.00E+00
10/12/2019	9:29:40 AM	25.459	16.7483	35.31	1.4929	4.76E-02	0.3339	4.51E+04	7.005	88.643	25.555	0.881	0	25.8009	0.00E+00
10/12/2019	9:30:00 AM	25.527	16.5672	35.3763	1.4662	4.76E-02	0.2298	4.49E+04	7.4837	95.685	25.694	-0.588	0.11	25.911	0.00E+00
10/12/2019	9:30:00 AM	25.659	16.555	35.375	1.4693	4.76E-02	0.2298	4.49E+04	7.4614	95.361	25.784	-0.616	0	25.9123	0.00E+00
10/12/2019	9:29:40 AM	25.692	16.7275	35.319	1.4929	4.76E-02	0.3339	4.50E+04	6.9915	88.371	25.781	0.882	0.01	25.8138	0.00E+00
10/12/2019	9:30:00 AM	25.793	16.544	35.3738	1.5547	4.76E-02	0.3292	4.49E+04	7.439	95.035	25.901	-0.617	-0.07	25.9135	0.00E+00
10/12/2019	9:29:41 AM	25.928	16.6987	35.3192	1.5067	4.76E-02	0.4815	4.50E+04	6.9751	88.053	26.019	0.892	0.04	25.819	0.00E+00
10/12/2019	9:29:59 AM	25.928	16.534	35.3729	1.557	4.76E-02	0.3416	4.49E+04	7.4205	94.759	26.026	-0.598	-0.14	25.9149	0.00E+00
10/12/2019	9:29:59 AM	26.066	16.5249	35.3732	1.5532	4.76E-02	0.3323	4.48E+04	7.4028	94.504	26.173	-0.562	-0.16	25.9171	0.00E+00
10/12/2019	9:29:41 AM	26.168	16.6586	35.3015	1.5082	4.76E-02	0.4784	4.50E+04	6.945	87.589	26.263	0.908	0.06	25.8103	0.00E+00
10/12/2019	9:29:59 AM	26.206	16.5162	35.3743	1.5578	4.76E-02	0.3292	4.48E+04	7.3786	94.158	26.325	-0.522	-0.15	25.9201	0.00E+00
10/12/2019	9:29:59 AM	26.348	16.5074	35.3746	1.5586	4.76E-02	0.3323	4.48E+04	7.3567	93.837	26.506	-0.485	-0.06	25.9225	0.00E+00
10/12/2019	9:29:41 AM	26.41	16.6133	35.2801	1.5036	4.76E-02	0.4784	4.49E+04	6.9128	87.136	26.523	0.927	0.07	25.8007	0.00E+00
10/12/2019	9:29:58 AM	26.488	16.4982	35.3733	1.4815	4.76E-02	0.2562	4.48E+04	7.3352	93.531	26.686	-0.47	0.01	25.9235	0.00E+00
10/12/2019	9:29:58 AM	26.627	16.489	35.371	1.4807	4.76E-02	0.2562	4.48E+04	7.3171	93.267	26.846	-0.472	0.07	25.9233	0.00E+00
10/12/2019	9:29:41 AM	26.655	16.5718	35.2742	1.5067	4.76E-02	0.4784	4.49E+04	6.8613	86.464	26.788	0.949	0.09	25.8056	0.00E+00
10/12/2019	9:29:58 AM	26.761	16.4807	35.3683	1.48	4.76E-02	0.2546	4.48E+04	7.3007	93.03	26.971	-0.49	0.09	25.9226	0.00E+00
10/12/2019	9:29:57 AM	26.891	16.4737	35.3661	1.4823	4.76E-02	0.2577	4.48E+04	7.2874	92.821	27.077	-0.512	0.09	25.9219	0.00E+00
10/12/2019	9:29:41 AM	26.9	16.5403	35.2855	1.4319	4.76E-02	0.4302	4.48E+04	6.794	85.607	27.055	0.973	0.1	25.8248	0.00E+00
10/12/2019	9:29:57 AM	27.02	16.468	35.3649	1.3861	4.76E-02	0.2733	4.48E+04	7.2722	92.586	27.182	-0.536	0.06	25.922	0.00E+00
10/12/2019	9:29:42 AM	27.146	16.52	35.3067	1.4311	4.76E-02	0.4302	4.48E+04	6.7177	84.643	27.315	0.997	0.1	25.8509	0.00E+00
10/12/2019	9:29:57 AM	27.148	16.4635	35.3644	1.3846	4.76E-02	0.2795	4.48E+04	7.2524	92.299	27.281	-0.55	0.03	25.9225	0.00E+00
10/12/2019	9:29:57 AM	27.276	16.4595	35.3641	1.3854	4.76E-02	0.2857	4.48E+04	7.2386	92.093	27.395	-0.557	0.01	25.9231	0.00E+00
10/12/2019	9:29:42 AM	27.391	16.5074	35.3282	1.4319	4.76E-02	0.4333	4.48E+04	6.6356	83.613	27.565	1.016	0.07	25.8749	0.00E+00
10/12/2019	9:29:57 AM	27.407	16.4557	35.3636	1.3861	4.76E-02	0.2841	4.48E+04	7.2238	91.878	27.525	-0.558	0.02	25.9236	0.00E+00
10/12/2019	9:29:56 AM	27.54	16.452	35.3632	1.3373	4.76E-02	0.2795	4.48E+04	7.2094	91.671	27.677	-0.563	-0.01	25.9241	0.00E+00
10/12/2019	9:29:42 AM	27.634	16.4979	35.3413	1.4342	4.76E-02	0.4333	4.48E+04	6.5642	82.723	27.814	1.027	0.04	25.8897	0.00E+00
10/12/2019	9:29:56 AM	27.673	16.4485	35.363	1.3365	4.76E-02	0.2764	4.48E+04	7.1894	91.384	27.81	-0.559	-0.02	25.9249	0.00E+00
10/12/2019	9:29:56 AM	27.808	16.4448	35.3622	1.3335	4.76E-02	0.2764	4.48E+04	7.1662	91.071	27.952	-0.553	0.04	25.9254	0.00E+00
10/12/2019	9:29:43 AM	27.875	16.4889	35.3454	1.4304	4.76E-02	0.4287	4.48E+04	6.4918	81.825	28.062	1.029	0.01	25.8957	0.00E+00
10/12/2019	9:29:55 AM	27.944	16.4407	35.3618	1.335	4.76E-02	0.2764	4.48E+04	7.1403	90.713	28.086	-0.564	0.06	25.9261	0.00E+00
10/12/2019	9:29:55 AM	28.081	16.4362	35.3631	1.2602	4.76E-02	0.2577	4.48E+04	7.1208	90.441	28.238	-0.579	0.04	25.9283	0.00E+00
10/12/2019	9:29:43 AM	28.115	16.4795	35.3456	1.5196	4.76E-02	0.4007	4.48E+04	6.4408	81.205	28.302	1.022	-0.03	25.8981	0.00E+00
10/12/2019	9:29:55 AM	28.217	16.4314	35.3654	1.2625	4.76E-02	0.2577	4.47E+04	7.0977	90.127	28.362	-0.59	-0.01	25.9313	0.00E+00
10/12/2019	9:29:43 AM	28.353	16.4692	35.3449	1.5196	4.76E-02	0.3991	4.48E+04	6.4004	80.711	28.545	1.01	-0.05	25.8998	0.00E+00
10/12/2019	9:29:55 AM	28.355	16.4264	35.3676	1.2618	4.76E-02	0.2577	4.47E+04	7.0708	89.77	28.504	-0.587	-0.05	25.9343	0.00E+00
10/12/2019	9:29:55 AM	28.492	16.4212	35.3702	1.2633	4.76E-02	0.25	4.47E+04	7.0549	89.554	28.649	-0.573	-0.08	25.938	0.00E+00
10/12/2019	9:29:43 AM	28.589	16.4577	35.3432	1.5219	4.76E-02	0.4038	4.48E+04	6.3829	80.504	28.791	0.997	-0.05	25.9007	0.00E+00
10/12/2019	9:29:54 AM	28.63	16.4153	35.3735	1.2633	4.76E-02	0.2562	4.47E+04	7.0379	89.325	28.812	-0.552	-0.08	25.9426	0.00E+00
10/12/2019	9:29:54 AM	28.768	16.4084	35.3772	1.3259	4.76E-02	0.2608	4.47E+04	7.0318	89.236	28.914	-0.531	-0.12	25.9477	0.00E+00
10/12/2019	9:29:43 AM	28.822	16.4447	35.3408	1.5174	4.76E-02	0.4007	4.48E+04	6.3781	80.46	29.04	0.988	-0.04	25.9012	0.00E+00
10/12/2019	9:29:54 AM	28.905	16.3998	35.38	1.3228	4.76E-02	0.2515	4.47E+04	7.0263	89.151	29.048	-0.502	-0.1	25.9525	0.00E+00
10/12/2019	9:29:53 AM	29.043	16.3897	35.3821	1.3236	4.76E-02	0.2531	4.47E+04	7.0219	89.076	29.239	-0.477	-0.01	25.9569	0.00E+00
10/12/2019	9:29:44 AM	29.051	16.4297	35.338	1.4334	4.76E-02	0.3852	4.48E+04	6.3843	80.55	29.291	0.984	-0.01	25.9017	0.00E+00
10/12/2019	9:29:53 AM	29.179	16.3784	35.3833	1.3259	4.76E-02	0.2593	4.47E+04	7.0196	89.025	29.413	-0.475	0.07	25.9608	0.00E+00

10/12/2019	9:29:44 AM	29.275	16.412	35.3347	1.4311	4.76E-02	0.3789	4.47E+04	6.4066	80.871	29.543	0.986	0.01	25.9022	0.00E+00
10/12/2019	9:29:53 AM	29.312	16.3663	35.3831	1.2366	4.76E-02	0.2282	4.47E+04	7.0177	88.987	29.538	-0.493	0.1	25.9635	0.00E+00
10/12/2019	9:29:53 AM	29.441	16.3538	35.3822	1.2381	4.76E-02	0.2251	4.47E+04	7.016	88.954	29.655	-0.519	0.11	25.9654	0.00E+00
10/12/2019	9:29:44 AM	29.493	16.3901	35.3297	1.4319	4.76E-02	0.3758	4.47E+04	6.4233	81.113	29.787	0.987	0.01	25.9019	0.00E+00
10/12/2019	9:29:53 AM	29.566	16.3417	35.3813	1.2412	4.76E-02	0.236	4.47E+04	7.0142	88.926	29.763	-0.545	0.06	25.9672	0.00E+00
10/12/2019	9:29:52 AM	29.69	16.3303	35.3802	1.2373	4.76E-02	0.2313	4.47E+04	7.0202	88.998	29.868	-0.561	-0.01	25.9687	0.00E+00
10/12/2019	9:29:45 AM	29.703	16.3614	35.3213	1.4311	4.76E-02	0.3852	4.47E+04	6.4534	81.508	30.019	0.985	-0.01	25.8996	0.00E+00
10/12/2019	9:29:52 AM	29.813	16.3195	35.3785	1.1756	4.76E-02	0.3028	4.46E+04	7.0132	88.904	29.968	-0.557	-0.1	25.9695	0.00E+00
10/12/2019	9:29:45 AM	29.904	16.325	35.3083	1.2747	4.76E-02	0.3106	4.47E+04	6.4785	81.841	30.247	0.98	-0.02	25.8947	0.00E+00
10/12/2019	9:29:52 AM	29.937	16.3095	35.3759	1.1733	4.76E-02	0.3012	4.46E+04	7.0112	88.871	30.1	-0.532	-0.1	25.9692	0.00E+00
10/12/2019	9:29:52 AM	30.06	16.3005	35.3716	1.1771	4.76E-02	0.3043	4.46E+04	7.006	88.8	30.245	-0.506	-0.13	25.967	0.00E+00
10/12/2019	9:29:45 AM	30.094	16.2837	35.2941	1.277	4.76E-02	0.3043	4.46E+04	6.5089	82.237	30.471	0.968	-0.05	25.8904	0.00E+00
10/12/2019	9:29:51 AM	30.183	16.2932	35.3665	1.1748	4.76E-02	0.3059	4.46E+04	6.9937	88.639	30.391	-0.474	-0.21	25.9636	0.00E+00
10/12/2019	9:29:45 AM	30.27	16.2439	35.2873	1.274	4.76E-02	0.3043	4.46E+04	6.5435	82.684	30.69	0.952	-0.07	25.8936	0.00E+00
10/12/2019	9:29:51 AM	30.303	16.2883	35.3631	1.2587	4.76E-02	0.5297	4.46E+04	6.9798	88.459	30.537	-0.422	-0.26	25.9611	0.00E+00
10/12/2019	9:29:51 AM	30.419	16.2861	35.3628	1.2641	4.76E-02	0.5297	4.46E+04	6.964	88.251	30.689	-0.357	-0.29	25.961	0.00E+00
10/12/2019	9:29:46 AM	30.431	16.211	35.2929	1.274	4.76E-02	0.309	4.45E+04	6.5818	83.168	30.91	0.933	-0.08	25.9075	0.00E+00
10/12/2019	9:29:50 AM	30.528	16.2856	35.3653	1.2602	4.76E-02	0.5312	4.46E+04	6.9425	87.954	30.834	-0.286	-0.29	25.9633	0.00E+00
10/12/2019	9:29:46 AM	30.572	16.1872	35.3082	1.0321	4.76E-02	0.452	4.45E+04	6.6194	83.639	31.137	0.916	-0.07	25.9285	0.00E+00
10/12/2019	9:29:50 AM	30.63	16.2851	35.3694	1.2602	4.76E-02	0.5328	4.46E+04	6.9042	87.475	30.954	-0.214	-0.29	25.9675	0.00E+00
10/12/2019	9:29:46 AM	30.69	16.1718	35.3259	1.0306	4.76E-02	0.452	4.45E+04	6.6571	84.104	31.242	0.871	-0.18	25.9498	0.00E+00
10/12/2019	9:29:50 AM	30.722	16.2831	35.3738	1.2633	4.76E-02	0.5281	4.46E+04	6.894	87.338	31.049	-0.142	-0.27	25.9723	0.00E+00
10/12/2019	9:29:46 AM	30.786	16.1631	35.3411	1.0283	4.76E-02	0.4535	4.45E+04	6.693	84.55	31.281	0.791	-0.32	25.967	0.00E+00
10/12/2019	9:29:50 AM	30.805	16.279	35.3774	1.1023	4.76E-02	0.4023	4.46E+04	6.8672	86.995	31.136	-0.074	-0.24	25.977	0.00E+00
10/12/2019	9:29:46 AM	30.861	16.1598	35.353	1.0306	4.76E-02	0.4566	4.45E+04	6.7183	84.875	31.295	0.68	-0.45	25.9796	0.00E+00
10/12/2019	9:29:50 AM	30.877	16.2725	35.3819	1.1046	4.76E-02	0.4007	4.46E+04	6.8381	86.616	31.262	-0.014	-0.13	25.983	0.00E+00
10/12/2019	9:29:47 AM	30.92	16.1608	35.3622	1.0283	4.76E-02	0.4551	4.45E+04	6.7376	85.135	31.308	0.549	-0.52	25.9888	0.00E+00
10/12/2019	9:29:49 AM	30.937	16.2642	35.3881	1.1046	4.76E-02	0.4054	4.46E+04	6.8143	86.305	31.347	0.018	-0.04	25.9908	0.00E+00
10/12/2019	9:29:47 AM	30.965	16.1654	35.3698	0.9825	4.76E-02	0.581	4.45E+04	6.7517	85.33	31.322	0.411	-0.55	25.9954	0.00E+00
10/12/2019	9:29:49 AM	30.982	16.2535	35.3915	1.1046	4.76E-02	0.4038	4.46E+04	6.7918	86.004	31.367	0.029	-0.02	25.9967	0.00E+00
10/12/2019	9:29:47 AM	30.999	16.1726	35.3758	0.9825	4.76E-02	0.5841	4.45E+04	6.7563	85.409	31.33	0.279	-0.53	25.9998	0.00E+00
10/12/2019	9:29:49 AM	31.014	16.2403	35.3901	1.0153	4.76E-02	0.525	4.46E+04	6.7748	85.769	31.38	0.035	-0.01	25.9987	0.00E+00
10/12/2019	9:29:48 AM	31.023	16.1816	35.3804	0.9825	4.76E-02	0.5717	4.45E+04	6.7583	85.451	31.334	0.164	-0.46	26.0023	0.00E+00
10/12/2019	9:29:48 AM	31.035	16.2261	35.3874	1.0184	4.76E-02	0.5281	4.46E+04	6.7629	85.595	31.376	0.036	0	25.9992	0.00E+00
10/12/2019	9:29:48 AM	31.038	16.1913	35.3832	0.9825	4.76E-02	0.5779	4.45E+04	6.7573	85.456	31.339	0.081	-0.33	26.0027	0.00E+00
10/12/2019	9:29:48 AM	31.045	16.213	35.3852	1.0191	4.76E-02	0.5312	4.45E+04	6.7587	85.522	31.362	0.037	-0.04	25.9999	0.00E+00
10/12/2019	9:29:48 AM	31.046	16.2016	35.3841	1.0176	4.76E-02	0.5297	4.45E+04	6.7541	85.435	31.347	0.046	-0.14	26.0014	0.00E+00

TRANSECT 2 - 750 m

DD MMM YYYY HH:MM:SS	DD MMM YYYY HH:MM:SS	DepSM	Tv290C	Sal00	FlECO-AFL	Par	TurbWETntu0	C0uS/cm	Sbeox0Mg/L	Sbeox0PS	PrdM	Dz/dtM	AccM	Sigma-t00	Flag
10/12/2019	9:33:54 AM	0.531	18.2609	34.6867	0.4576	4.76E-02	0.6058	4.58E+04	-9.99E-29	-9.99E-29	0.57	-0.232	0.34	24.9692	0.00E+00
10/12/2019	9:33:54 AM	0.585	18.2611	34.9336	0.4591	4.76E-02	0.5996	4.61E+04	-9.99E-29	-9.99E-29	0.561	-0.318	0.29	25.1576	0.00E+00
10/12/2019	9:33:54 AM	0.641	18.2611	35.0818	0.4546	4.76E-02	0.6074	4.62E+04	-9.99E-29	-9.99E-29	0.543	-0.39	0.19	25.2707	0.00E+00
10/12/2019	9:33:53 AM	0.702	18.2611	35.1708	0.4927	4.76E-02	0.6245	4.64E+04	-9.99E-29	-9.99E-29	0.585	-0.437	0.12	25.3386	0.00E+00
10/12/2019	9:33:53 AM	0.77	18.261	35.2241	0.4935	4.76E-02	0.6276	4.64E+04	-9.99E-29	-9.99E-29	0.659	-0.466	0.13	25.3792	0.00E+00
10/12/2019	9:33:53 AM	0.846	18.261	35.2559	0.4927	4.76E-02	0.6338	4.65E+04	-9.99E-29	-9.99E-29	0.723	-0.498	0.1	25.4034	0.00E+00
10/12/2019	9:32:22 AM	0.888	18.239	35.3029	0.4187	4.76E-02	1.4202	4.65E+04	7.9073	103.707	0.71	0.208	0.57	25.444	0.00E+00
10/12/2019	9:33:52 AM	0.93	18.2609	35.2746	0.4919	4.76E-02	0.6323	4.65E+04	-9.99E-29	-9.99E-29	0.782	-0.523	0.03	25.4177	0.00E+00
10/12/2019	9:32:23 AM	0.995	18.2361	35.3009	0.4187	4.76E-02	1.4279	4.65E+04	7.9002	103.633	0.834	0.321	0.45	25.4427	0.00E+00
10/12/2019	9:33:52 AM	1.024	18.261	35.2857	0.5301	4.76E-02	0.6509	4.65E+04	9.19	98.872	0.873	-0.531	-0.02	25.426	0.00E+00
10/12/2019	9:32:23 AM	1.112	18.2334	35.3001	0.4202	4.76E-02	1.4155	4.65E+04	7.8989	103.622	1.003	0.409	0.35	25.4427	0.00E+00
10/12/2019	9:33:52 AM	1.125	18.2613	35.2924	0.5309	4.76E-02	0.654	4.65E+04	9.2015	99.236	1.053	-0.527	-0.02	25.4309	0.00E+00
10/12/2019	9:33:52 AM	1.232	18.2619	35.2966	0.5293	4.76E-02	0.6602	4.65E+04	9.2458	100.021	1.196	-0.523	-0.07	25.434	0.00E+00
10/12/2019	9:32:23 AM	1.236	18.2315	35.3008	0.4202	4.76E-02	1.414	4.65E+04	7.897	103.603	1.161	0.473	0.26	25.4439	0.00E+00
10/12/2019	9:33:52 AM	1.342	18.2625	35.2993	0.5301	4.76E-02	0.6478	4.65E+04	9.2424	101.101	1.314	-0.506	-0.13	25.4359	0.00E+00
10/12/2019	9:32:23 AM	1.366	18.2306	35.3025	0.4546	4.76E-02	0.581	4.65E+04	7.8947	103.58	1.283	0.506	0.13	25.4459	0.00E+00
10/12/2019	9:33:51 AM	1.455	18.2631	35.3009	0.5537	4.76E-02	0.6571	4.65E+04	9.2459	102.104	1.43	-0.474	-0.15	25.437	0.00E+00
10/12/2019	9:32:23 AM	1.502	18.2309	35.3044	0.4576	4.76E-02	0.5794	4.65E+04	7.8946	103.582	1.382	0.512	0.02	25.4478	0.00E+00
10/12/2019	9:33:51 AM	1.57	18.2636	35.3018	0.5507	4.76E-02	0.6602	4.65E+04	8.5082	102.839	1.531	-0.435	-0.15	25.4376	0.00E+00
10/12/2019	9:32:24 AM	1.646	18.2326	35.3064	0.4584	4.76E-02	0.5794	4.65E+04	7.8939	103.575	1.5	0.515	0.01	25.4496	0.00E+00
10/12/2019	9:33:51 AM	1.687	18.2641	35.3024	0.5537	4.76E-02	0.6509	4.65E+04	7.9326	103.255	1.684	-0.397	-0.09	25.4379	0.00E+00
10/12/2019	9:32:24 AM	1.799	18.2357	35.3087	0.4546	4.76E-02	0.581	4.65E+04	7.8929	103.564	1.643	0.523	0.03	25.4513	0.00E+00
10/12/2019	9:33:50 AM	1.804	18.2645	35.3029	0.5553	4.76E-02	0.6509	4.65E+04	8.7321	103.513	1.839	-0.374	0.01	25.4383	0.00E+00
10/12/2019	9:33:50 AM	1.921	18.265	35.3034	0.5537	4.76E-02	0.6556	4.65E+04	8.2161	103.654	1.979	-0.378	0.08	25.4387	0.00E+00
10/12/2019	9:32:24 AM	1.962	18.2397	35.311	0.4958	4.76E-02	0.654	4.65E+04	7.8907	103.537	1.823	0.54	0.07	25.4526	0.00E+00
10/12/2019	9:33:50 AM	2.034	18.2652	35.304	0.5522	4.76E-02	0.5763	4.65E+04	7.9086	103.732	2.117	-0.397	0.13	25.4391	0.00E+00
10/12/2019	9:32:25 AM	2.134	18.2439	35.3121	0.4927	4.76E-02	0.654	4.65E+04	7.8959	103.603	2.027	0.561	0.08	25.4527	0.00E+00
10/12/2019	9:33:50 AM	2.144	18.2653	35.3044	0.5553	4.76E-02	0.5748	4.65E+04	7.918	103.856	2.205	-0.429	0.15	25.4395	0.00E+00
10/12/2019	9:33:50 AM	2.251	18.2652	35.3048	0.5522	4.76E-02	0.581	4.65E+04	7.9212	103.898	2.265	-0.467	0.11	25.4399	0.00E+00
10/12/2019	9:32:25 AM	2.313	18.2478	35.3117	0.4927	4.76E-02	0.6602	4.65E+04	7.8962	103.606	2.222	0.587	0.11	25.4513	0.00E+00
10/12/2019	9:33:49 AM	2.357	18.2648	35.305	0.553	4.76E-02	0.5794	4.65E+04	7.9264	103.966	2.326	-0.496	0.05	25.4403	0.00E+00
10/12/2019	9:33:49 AM	2.467	18.2643	35.3053	0.5667	4.76E-02	0.5561	4.65E+04	7.9274	103.979	2.411	-0.509	0.01	25.4407	0.00E+00
10/12/2019	9:32:25 AM	2.5	18.2515	35.3108	0.4927	4.76E-02	0.6571	4.65E+04	7.8915	103.544	2.409	0.628	0.16	25.4496	0.00E+00
10/12/2019	9:33:49 AM	2.58	18.2637	35.3057	0.5652	4.76E-02	0.5514	4.65E+04	7.922	103.907	2.532	-0.512	0.02	25.4413	0.00E+00
10/12/2019	9:32:25 AM	2.693	18.2548	35.3103	0.4919	4.76E-02	0.8048	4.65E+04	7.8882	103.498	2.59	0.676	0.19	25.4482	0.00E+00
10/12/2019	9:33:48 AM	2.697	18.2629	35.3063	0.5675	4.76E-02	0.5499	4.65E+04	7.9193	103.873	2.65	-0.518	0.07	25.4421	0.00E+00
10/12/2019	9:33:48 AM	2.817	18.2619	35.307	0.5652	4.76E-02	0.5499	4.65E+04	7.9197	103.877	2.796	-0.536	0.13	25.443	0.00E+00
10/12/2019	9:32:25 AM	2.893	18.2565	35.3092	0.4935	4.76E-02	0.8048	4.65E+04	7.8871	103.481	2.784	0.72	0.18	25.4465	0.00E+00
10/12/2019	9:33:48 AM	2.94	18.2605	35.3074	0.6018	4.76E-02	0.6245	4.65E+04	7.9234	103.924	2.919	-0.568	0.14	25.4439	0.00E+00
10/12/2019	9:33:48 AM	3.066	18.2587	35.3075	0.6018	4.76E-02	0.6354	4.65E+04	7.9161	103.828	3.027	-0.603	0.08	25.4444	0.00E+00
10/12/2019	9:32:26 AM	3.101	18.2564	35.3063	0.4904	4.76E-02	0.8001	4.65E+04	7.8861	103.453	2.99	0.753	0.13	25.4434	0.00E+00
10/12/2019	9:33:47 AM	3.195	18.2567	35.3071	0.5995	4.76E-02	0.6292	4.65E+04	7.9164	103.832	3.172	-0.624	0.04	25.4446	0.00E+00
10/12/2019	9:32:26 AM	3.317	18.2552	35.3028	0.4919	4.76E-02	0.8032	4.65E+04	7.8859	103.432	3.207	0.776	0.09	25.4403	0.00E+00
10/12/2019	9:33:47 AM	3.327	18.2546	35.3065	0.6003	4.76E-02	0.6245	4.65E+04	7.913	103.789	3.3	-0.633	-0.04	25.4445	0.00E+00
10/12/2019	9:33:47 AM	3.461	18.2528	35.3058	0.5995	4.76E-02	0.6789	4.65E+04	7.9097	103.748	3.426	-0.624	-0.12	25.4443	0.00E+00
10/12/2019	9:32:26 AM	3.54	18.2546	35.3016	0.4935	4.76E-02	0.797	4.65E+04	7.8858	103.41	3.439	0.794	0.07	25.4394	0.00E+00
10/12/2019	9:33:47 AM	3.599	18.2513	35.3052	0.6003	4.76E-02	0.6867	4.65E+04	7.9099	103.753	3.556	-0.593	-0.14	25.444	0.00E+00
10/12/2019	9:33:47 AM	3.741	18.2502	35.3047	0.5988	4.76E-02	0.6742	4.65E+04	7.911	103.768	3.699	-0.558	-0.13	25.4438	0.00E+00
10/12/2019	9:32:27 AM	3.771	18.2554	35.3031	0.5301	4.76E-02	0.926	4.65E+04	7.8835	103.367	3.702	0.823	0.12	25.4409	0.00E+00
10/12/2019	9:33:46 AM	3.885	18.2493	35.3043	0.601	4.76E-02	0.6789	4.65E+04	7.9093	103.747	3.893	-0.524	-0.05	25.4436	0.00E+00

10/12/2019	9:32:27 AM	4.008	18.2581	35.306	0.5278	4.76E-02	0.9244	4.65E+04	7.8802	103.317	3.974	0.867	0.18	25.4432	0.00E+00
10/12/2019	9:33:46 AM	4.031	18.2486	35.304	0.6064	4.76E-02	0.6789	4.65E+04	7.9142	103.812	4.073	-0.513	0.06	25.4435	0.00E+00
10/12/2019	9:33:46 AM	4.176	18.2482	35.304	0.6247	4.76E-02	1.1171	4.65E+04	7.916	103.836	4.248	-0.528	0.13	25.4436	0.00E+00
10/12/2019	9:32:27 AM	4.248	18.2622	35.3091	0.5286	4.76E-02	0.9306	4.65E+04	7.8743	103.228	4.237	0.917	0.2	25.4454	0.00E+00
10/12/2019	9:33:45 AM	4.318	18.2478	35.3041	0.6278	4.76E-02	1.1156	4.65E+04	7.9113	103.777	4.394	-0.562	0.15	25.4438	0.00E+00
10/12/2019	9:33:45 AM	4.457	18.2474	35.3042	0.6262	4.76E-02	1.1265	4.65E+04	7.9135	103.806	4.51	-0.598	0.07	25.4439	0.00E+00
10/12/2019	9:32:27 AM	4.491	18.2664	35.3111	0.5316	4.76E-02	0.9244	4.65E+04	7.8724	103.194	4.48	0.959	0.17	25.4463	0.00E+00
10/12/2019	9:33:45 AM	4.594	18.2469	35.3041	0.6255	4.76E-02	1.128	4.65E+04	7.9131	103.801	4.615	-0.617	0	25.4439	0.00E+00
10/12/2019	9:33:45 AM	4.732	18.2465	35.3039	0.6155	4.76E-02	0.6773	4.65E+04	7.918	103.864	4.707	-0.617	-0.06	25.4438	0.00E+00
10/12/2019	9:32:28 AM	4.736	18.27	35.3109	0.5156	4.76E-02	0.7504	4.65E+04	7.8681	103.124	4.712	0.985	0.11	25.4452	0.00E+00
10/12/2019	9:33:45 AM	4.872	18.2462	35.3037	0.6148	4.76E-02	0.6742	4.65E+04	7.9175	103.857	4.844	-0.603	-0.07	25.4437	0.00E+00
10/12/2019	9:32:28 AM	4.984	18.273	35.3095	0.5171	4.76E-02	0.755	4.65E+04	7.8673	103.1	4.959	1.001	0.06	25.443	0.00E+00
10/12/2019	9:33:44 AM	5.016	18.246	35.3035	0.6133	4.76E-02	0.6835	4.65E+04	7.9208	103.898	4.996	-0.585	-0.07	25.4435	0.00E+00
10/12/2019	9:33:44 AM	5.163	18.2459	35.3031	0.614	4.76E-02	0.6789	4.65E+04	7.9231	103.928	5.16	-0.569	-0.06	25.4431	0.00E+00
10/12/2019	9:32:28 AM	5.235	18.2755	35.3083	0.5186	4.76E-02	0.7504	4.65E+04	7.8741	103.178	5.227	1.011	0.04	25.4412	0.00E+00
10/12/2019	9:33:44 AM	5.311	18.246	35.3026	0.6056	4.76E-02	0.6245	4.65E+04	7.9255	103.958	5.353	-0.555	0.03	25.4427	0.00E+00
10/12/2019	9:33:43 AM	5.458	18.2463	35.3023	0.6041	4.76E-02	0.6323	4.65E+04	7.9279	103.988	5.522	-0.561	0.09	25.4423	0.00E+00
10/12/2019	9:32:28 AM	5.489	18.2775	35.3072	0.5164	4.76E-02	0.7457	4.65E+04	7.8769	103.208	5.496	1.016	0.02	25.4396	0.00E+00
10/12/2019	9:33:43 AM	5.604	18.2467	35.3022	0.5988	4.76E-02	0.6323	4.65E+04	7.9271	103.974	5.669	-0.584	0.11	25.4421	0.00E+00
10/12/2019	9:32:28 AM	5.743	18.2788	35.3058	0.5179	4.76E-02	0.9679	4.65E+04	7.8833	103.285	5.773	1.021	0.02	25.4379	0.00E+00
10/12/2019	9:33:43 AM	5.748	18.2474	35.3024	0.6003	4.76E-02	0.6292	4.65E+04	7.9264	103.959	5.776	-0.613	0.05	25.442	0.00E+00
10/12/2019	9:33:43 AM	5.892	18.248	35.3026	0.5919	4.76E-02	0.6323	4.65E+04	7.9218	103.894	5.894	-0.627	-0.02	25.4421	0.00E+00
10/12/2019	9:32:29 AM	5.998	18.2794	35.3043	0.5171	4.76E-02	0.9726	4.65E+04	7.8931	103.407	6.051	1.031	0.04	25.4363	0.00E+00
10/12/2019	9:33:43 AM	6.038	18.2485	35.3029	0.5896	4.76E-02	0.6292	4.65E+04	7.9188	103.849	6.045	-0.622	-0.01	25.4423	0.00E+00
10/12/2019	9:33:42 AM	6.185	18.2489	35.3036	0.5896	4.76E-02	0.6229	4.65E+04	7.9138	103.779	6.193	-0.62	0	25.443	0.00E+00
10/12/2019	9:32:29 AM	6.252	18.2794	35.303	0.5171	4.76E-02	0.9757	4.65E+04	7.9035	103.538	6.333	1.05	0.08	25.435	0.00E+00
10/12/2019	9:33:42 AM	6.334	18.249	35.3048	0.5919	4.76E-02	0.6276	4.65E+04	7.915	103.792	6.346	-0.621	0.02	25.4441	0.00E+00
10/12/2019	9:33:42 AM	6.485	18.2486	35.3061	0.5904	4.76E-02	0.6323	4.65E+04	7.9162	103.808	6.487	-0.625	0	25.4456	0.00E+00
10/12/2019	9:32:29 AM	6.503	18.2787	35.302	0.5125	4.76E-02	0.9773	4.65E+04	7.909	103.604	6.6	1.071	0.08	25.434	0.00E+00
10/12/2019	9:33:42 AM	6.637	18.2475	35.3075	0.6018	4.76E-02	0.7519	4.65E+04	7.9204	103.86	6.654	-0.625	0	25.4473	0.00E+00
10/12/2019	9:32:30 AM	6.75	18.2776	35.3011	0.6155	4.76E-02	1.414	4.65E+04	7.9161	103.692	6.817	1.074	0.01	25.4334	0.00E+00
10/12/2019	9:33:41 AM	6.79	18.2457	35.3091	0.601	4.76E-02	0.7504	4.65E+04	7.9179	103.827	6.831	-0.626	0.04	25.4493	0.00E+00
10/12/2019	9:33:41 AM	6.943	18.2432	35.3108	0.6018	4.76E-02	0.755	4.65E+04	7.919	103.842	6.994	-0.635	0.02	25.4517	0.00E+00
10/12/2019	9:32:30 AM	6.996	18.2756	35.3003	0.6133	4.76E-02	1.4202	4.65E+04	7.9182	103.715	7.026	1.054	-0.08	25.4329	0.00E+00
10/12/2019	9:33:41 AM	7.096	18.2397	35.3121	0.5995	4.76E-02	0.7519	4.65E+04	7.9132	103.765	7.136	-0.639	-0.03	25.4539	0.00E+00
10/12/2019	9:32:30 AM	7.243	18.2726	35.2993	0.614	4.76E-02	1.4202	4.65E+04	7.9166	103.686	7.255	1.023	-0.12	25.4324	0.00E+00
10/12/2019	9:33:40 AM	7.249	18.2353	35.3123	0.5896	4.76E-02	0.4551	4.65E+04	7.9103	103.727	7.261	-0.631	-0.09	25.4554	0.00E+00
10/12/2019	9:33:40 AM	7.403	18.2304	35.3117	0.5911	4.76E-02	0.4489	4.65E+04	7.9097	103.717	7.424	-0.609	-0.08	25.456	0.00E+00
10/12/2019	9:32:30 AM	7.49	18.2681	35.2977	0.614	4.76E-02	1.4279	4.65E+04	7.9184	103.702	7.507	0.995	-0.11	25.4317	0.00E+00
10/12/2019	9:33:40 AM	7.559	18.2255	35.3109	0.5881	4.76E-02	0.4551	4.65E+04	7.9073	103.685	7.591	-0.59	-0.01	25.4564	0.00E+00
10/12/2019	9:33:40 AM	7.715	18.221	35.3106	0.5896	4.76E-02	0.4551	4.65E+04	7.9108	103.729	7.765	-0.587	0.05	25.4572	0.00E+00
10/12/2019	9:32:30 AM	7.739	18.262	35.2955	0.611	4.76E-02	1.4186	4.65E+04	7.919	103.703	7.773	0.976	-0.08	25.4307	0.00E+00
10/12/2019	9:33:40 AM	7.87	18.217	35.3107	0.614	4.76E-02	0.1987	4.65E+04	7.9138	103.769	7.929	-0.599	0.08	25.4581	0.00E+00
10/12/2019	9:32:31 AM	7.989	18.255	35.2934	0.5995	4.76E-02	1.2228	4.65E+04	7.9155	103.652	8.044	0.97	-0.02	25.4302	0.00E+00
10/12/2019	9:33:39 AM	8.025	18.2133	35.3107	0.614	4.76E-02	0.208	4.65E+04	7.9163	103.803	8.082	-0.62	0.08	25.459	0.00E+00
10/12/2019	9:33:39 AM	8.179	18.2096	35.3103	0.6133	4.76E-02	0.2096	4.65E+04	7.9184	103.829	8.248	-0.64	0.08	25.4595	0.00E+00
10/12/2019	9:32:31 AM	8.238	18.2483	35.2928	0.598	4.76E-02	1.2244	4.65E+04	7.9138	103.627	8.312	0.976	0.03	25.4313	0.00E+00
10/12/2019	9:33:39 AM	8.332	18.206	35.3097	0.6094	4.76E-02	0.2018	4.65E+04	7.9204	103.857	8.381	-0.659	0.04	25.4598	0.00E+00
10/12/2019	9:32:31 AM	8.485	18.2421	35.2938	0.6018	4.76E-02	1.2197	4.65E+04	7.916	103.655	8.569	0.994	0.07	25.4338	0.00E+00
10/12/2019	9:33:38 AM	8.485	18.2027	35.3094	0.6735	4.76E-02	0.0728	4.65E+04	7.9186	103.834	8.502	-0.669	-0.01	25.4604	0.00E+00
10/12/2019	9:33:38 AM	8.639	18.1996	35.3095	0.672	4.76E-02	0.0728	4.65E+04	7.9187	103.838	8.636	-0.667	-0.02	25.4611	0.00E+00

10/12/2019	9:32:32 AM	8.73	18.2364	35.2952	0.601	4.76E-02	1.2213	4.65E+04	7.917	103.664	8.819	1.019	0.1	25.4366	0.00E+00
10/12/2019	9:33:38 AM	8.797	18.1967	35.3094	0.672	4.76E-02	0.0588	4.65E+04	7.9145	103.785	8.788	-0.661	-0.04	25.4617	0.00E+00
10/12/2019	9:33:38 AM	8.958	18.1938	35.309	0.6735	4.76E-02	0.065	4.65E+04	7.9133	103.771	8.981	-0.651	-0.01	25.462	0.00E+00
10/12/2019	9:32:32 AM	8.972	18.2307	35.2959	0.5759	4.76E-02	0.093	4.65E+04	7.9226	103.722	9.071	1.036	0.07	25.4387	0.00E+00
10/12/2019	9:33:38 AM	9.12	18.1909	35.3085	0.6773	4.76E-02	0.065	4.65E+04	7.9101	103.73	9.168	-0.649	0.04	25.4623	0.00E+00
10/12/2019	9:32:32 AM	9.211	18.2249	35.2958	0.5797	4.76E-02	0.0961	4.65E+04	7.9318	103.805	9.33	1.041	0.02	25.44	0.00E+00
10/12/2019	9:33:37 AM	9.282	18.1883	35.3081	0.6926	4.76E-02	0.1194	4.64E+04	7.9087	103.713	9.344	-0.66	0.07	25.4626	0.00E+00
10/12/2019	9:33:37 AM	9.445	18.1859	35.3081	0.6964	4.76E-02	0.1116	4.64E+04	7.9137	103.778	9.508	-0.678	0.09	25.4632	0.00E+00
10/12/2019	9:32:32 AM	9.446	18.2191	35.2958	0.5789	4.76E-02	0.0899	4.65E+04	7.9347	103.787	9.588	1.037	-0.01	25.4414	0.00E+00
10/12/2019	9:33:37 AM	9.606	18.1835	35.3087	0.6979	4.76E-02	0.1148	4.64E+04	7.9142	103.783	9.649	-0.7	0.04	25.4644	0.00E+00
10/12/2019	9:32:32 AM	9.676	18.2136	35.296	0.5759	4.76E-02	0.093	4.65E+04	7.9403	103.771	9.819	1.023	-0.05	25.443	0.00E+00
10/12/2019	9:33:36 AM	9.769	18.181	35.3094	0.6979	4.76E-02	0.121	4.64E+04	7.9164	103.808	9.8	-0.71	0	25.4658	0.00E+00
10/12/2019	9:32:33 AM	9.901	18.2088	35.2967	0.6117	4.76E-02	0.0712	4.65E+04	7.9409	103.671	10.025	1	-0.1	25.445	0.00E+00
10/12/2019	9:33:36 AM	9.932	18.1781	35.3101	0.7315	4.76E-02	0.0573	4.64E+04	7.9203	103.853	9.959	-0.712	-0.03	25.4672	0.00E+00
10/12/2019	9:33:36 AM	10.097	18.1747	35.311	0.7353	4.76E-02	0.0681	4.64E+04	7.9189	103.827	10.141	-0.703	-0.06	25.4689	0.00E+00
10/12/2019	9:32:33 AM	10.121	18.2047	35.298	0.614	4.76E-02	0.0666	4.65E+04	7.9397	103.533	10.216	0.967	-0.13	25.4474	0.00E+00
10/12/2019	9:33:36 AM	10.263	18.171	35.3119	0.7338	4.76E-02	0.0635	4.64E+04	7.9184	103.807	10.312	-0.69	-0.08	25.4708	0.00E+00
10/12/2019	9:32:33 AM	10.339	18.201	35.2992	0.6102	4.76E-02	0.0635	4.65E+04	7.9347	103.349	10.392	0.925	-0.16	25.4495	0.00E+00
10/12/2019	9:33:36 AM	10.43	18.1668	35.3127	0.7307	4.76E-02	0.0681	4.64E+04	7.9202	103.818	10.483	-0.668	-0.13	25.4727	0.00E+00
10/12/2019	9:32:34 AM	10.557	18.1975	35.2998	0.6125	4.76E-02	0.0681	4.65E+04	7.9275	103.154	10.58	0.881	-0.18	25.451	0.00E+00
10/12/2019	9:33:35 AM	10.596	18.1621	35.3137	0.7353	4.76E-02	0.0681	4.64E+04	7.9221	103.831	10.672	-0.636	-0.14	25.4749	0.00E+00
10/12/2019	9:33:35 AM	10.762	18.157	35.3147	0.7346	4.76E-02	0.0681	4.64E+04	7.9237	103.845	10.854	-0.602	-0.13	25.4772	0.00E+00
10/12/2019	9:32:34 AM	10.777	18.1942	35.3002	0.6766	4.76E-02	0.093	4.65E+04	7.9214	102.999	10.81	0.847	-0.13	25.4522	0.00E+00
10/12/2019	9:33:35 AM	10.925	18.1513	35.3156	0.7323	4.76E-02	0.065	4.64E+04	7.9276	103.891	11.042	-0.569	-0.1	25.4794	0.00E+00
10/12/2019	9:32:34 AM	10.998	18.1911	35.3007	0.6728	4.76E-02	0.093	4.65E+04	7.9113	102.817	11.068	0.834	-0.05	25.4535	0.00E+00
10/12/2019	9:33:35 AM	11.085	18.1452	35.3155	0.7338	4.76E-02	0.0681	4.64E+04	7.9281	103.891	11.206	-0.544	-0.09	25.4809	0.00E+00
10/12/2019	9:32:34 AM	11.219	18.1879	35.301	0.672	4.76E-02	0.0883	4.65E+04	7.9111	102.786	11.307	0.837	0.01	25.4545	0.00E+00
10/12/2019	9:33:34 AM	11.242	18.1388	35.3147	0.7224	4.76E-02	0.1132	4.64E+04	7.9302	103.91	11.372	-0.522	-0.07	25.4816	0.00E+00
10/12/2019	9:33:34 AM	11.394	18.1327	35.3143	0.7208	4.76E-02	0.1194	4.64E+04	7.9315	103.919	11.531	-0.504	-0.02	25.4827	0.00E+00
10/12/2019	9:32:35 AM	11.438	18.1844	35.301	0.6751	4.76E-02	0.0961	4.64E+04	7.9099	102.753	11.519	0.851	0.06	25.4553	0.00E+00
10/12/2019	9:33:34 AM	11.542	18.1271	35.3147	0.7216	4.76E-02	0.1101	4.64E+04	7.9315	103.913	11.674	-0.499	0.01	25.4844	0.00E+00
10/12/2019	9:32:35 AM	11.657	18.1807	35.3006	0.6705	4.76E-02	0.0868	4.64E+04	7.9143	102.797	11.723	0.868	0.07	25.4558	0.00E+00
10/12/2019	9:33:33 AM	11.686	18.1218	35.3155	0.7216	4.76E-02	0.1101	4.64E+04	7.9325	103.923	11.817	-0.502	0	25.4864	0.00E+00
10/12/2019	9:33:33 AM	11.825	18.1164	35.3165	0.7216	4.76E-02	0.1163	4.64E+04	7.9305	103.89	11.939	-0.503	0.01	25.4887	0.00E+00
10/12/2019	9:32:35 AM	11.875	18.1768	35.3003	0.7193	4.76E-02	0.093	4.64E+04	7.9221	102.867	11.938	0.884	0.06	25.4564	0.00E+00
10/12/2019	9:33:33 AM	11.962	18.1106	35.3183	0.7315	4.76E-02	0.0914	4.64E+04	7.9329	103.916	12.059	-0.506	0.03	25.4919	0.00E+00
10/12/2019	9:32:35 AM	12.093	18.1728	35.3002	0.7193	4.76E-02	0.0977	4.64E+04	7.9334	102.961	12.17	0.897	0.06	25.4573	0.00E+00
10/12/2019	9:33:33 AM	12.097	18.1043	35.3211	0.7361	4.76E-02	0.0837	4.64E+04	7.9334	103.916	12.182	-0.513	0.06	25.4963	0.00E+00
10/12/2019	9:33:33 AM	12.23	18.097	35.3251	0.7338	4.76E-02	0.0821	4.64E+04	7.9353	103.937	12.31	-0.528	0.1	25.502	0.00E+00
10/12/2019	9:32:35 AM	12.311	18.1683	35.3002	0.7239	4.76E-02	0.1008	4.64E+04	7.944	103.024	12.413	0.905	0.03	25.4582	0.00E+00
10/12/2019	9:33:32 AM	12.363	18.0882	35.3312	0.7353	4.76E-02	0.0961	4.64E+04	7.9291	103.852	12.432	-0.553	0.1	25.5103	0.00E+00
10/12/2019	9:33:32 AM	12.497	18.0771	35.3394	0.7674	4.76E-02	0.0635	4.63E+04	7.9295	103.854	12.545	-0.579	0.1	25.5212	0.00E+00
10/12/2019	9:32:36 AM	12.526	18.1627	35.2995	0.7216	4.76E-02	0.0945	4.64E+04	7.9548	103.09	12.653	0.904	0	25.4587	0.00E+00
10/12/2019	9:33:32 AM	12.63	18.0626	35.3475	0.7681	4.76E-02	0.0619	4.63E+04	7.9261	103.805	12.692	-0.604	0.11	25.5331	0.00E+00
10/12/2019	9:32:36 AM	12.738	18.1548	35.2977	0.7422	4.76E-02	0.1132	4.64E+04	7.9528	103.011	12.857	0.895	-0.03	25.4584	0.00E+00
10/12/2019	9:33:31 AM	12.765	18.0437	35.3547	0.7704	4.76E-02	0.0666	4.63E+04	7.9286	103.832	12.83	-0.632	0.06	25.5452	0.00E+00
10/12/2019	9:33:31 AM	12.901	18.0208	35.3625	0.7697	4.76E-02	0.0681	4.63E+04	7.9283	103.821	12.933	-0.648	-0.05	25.5588	0.00E+00
10/12/2019	9:32:36 AM	12.948	18.1429	35.2937	0.7445	4.76E-02	0.1163	4.64E+04	7.9419	102.832	13.039	0.885	-0.04	25.4567	0.00E+00
10/12/2019	9:33:31 AM	13.038	17.9941	35.3719	0.878	4.76E-02	0.0883	4.63E+04	7.9277	103.806	13.067	-0.635	-0.16	25.5747	0.00E+00
10/12/2019	9:32:37 AM	13.156	18.1248	35.2865	0.746	4.76E-02	0.1101	4.64E+04	7.9289	102.619	13.231	0.875	-0.04	25.4531	0.00E+00
10/12/2019	9:33:31 AM	13.178	17.9633	35.3777	0.8765	4.76E-02	0.0868	4.62E+04	7.9308	103.84	13.218	-0.595	-0.24	25.5883	0.00E+00

10/12/2019	9:33:31 AM	13.32	17.928	35.3748	0.878	4.76E-02	0.0945	4.62E+04	7.9286	103.798	13.378	-0.536	-0.26	25.5946	0.00E+00
10/12/2019	9:32:37 AM	13.363	18.0991	35.2756	0.7445	4.76E-02	0.1194	4.64E+04	7.902	102.253	13.432	0.86	-0.06	25.4478	0.00E+00
10/12/2019	9:33:30 AM	13.463	17.8908	35.3669	0.8742	4.76E-02	0.093	4.62E+04	7.9368	103.898	13.56	-0.472	-0.23	25.5959	0.00E+00
10/12/2019	9:32:37 AM	13.571	18.0653	35.2626	0.7559	4.76E-02	0.0681	4.63E+04	7.8719	101.842	13.653	0.844	-0.06	25.4423	0.00E+00
10/12/2019	9:33:30 AM	13.604	17.8562	35.3584	0.9818	4.76E-02	0.0914	4.61E+04	7.9396	103.921	13.719	-0.414	-0.16	25.5954	0.00E+00
10/12/2019	9:33:30 AM	13.743	17.8266	35.3509	0.9833	4.76E-02	0.0914	4.61E+04	7.9389	103.898	13.899	-0.374	-0.02	25.5946	0.00E+00
10/12/2019	9:32:37 AM	13.778	18.0238	35.2491	0.7544	4.76E-02	0.065	4.63E+04	7.8402	101.432	13.896	0.837	-0.03	25.4383	0.00E+00
10/12/2019	9:33:29 AM	13.877	17.8021	35.3456	0.9802	4.76E-02	0.0914	4.61E+04	7.9405	103.903	14.065	-0.369	0.12	25.5948	0.00E+00
10/12/2019	9:32:37 AM	13.983	17.9772	35.2371	0.7567	4.76E-02	0.065	4.62E+04	7.8139	101.092	14.118	0.835	-0.01	25.4375	0.00E+00
10/12/2019	9:33:29 AM	14.005	17.7819	35.3426	0.9818	4.76E-02	0.0883	4.61E+04	7.9433	103.926	14.19	-0.399	0.21	25.5962	0.00E+00
10/12/2019	9:33:29 AM	14.126	17.7647	35.3414	0.9825	4.76E-02	0.0868	4.60E+04	7.9486	103.991	14.291	-0.45	0.21	25.5989	0.00E+00
10/12/2019	9:32:38 AM	14.185	17.929	35.2301	0.7536	4.76E-02	0.0681	4.62E+04	7.7904	100.808	14.318	0.838	0.01	25.4424	0.00E+00
10/12/2019	9:33:29 AM	14.242	17.7493	35.3418	0.9932	4.76E-02	0.0681	4.60E+04	7.9481	103.974	14.364	-0.504	0.18	25.6028	0.00E+00
10/12/2019	9:33:29 AM	14.356	17.7346	35.3423	0.9924	4.76E-02	0.065	4.60E+04	7.951	104.004	14.426	-0.548	0.06	25.6069	0.00E+00
10/12/2019	9:32:38 AM	14.383	17.8829	35.2295	0.891	4.76E-02	0.0681	4.62E+04	7.7781	100.637	14.514	0.847	0.03	25.4535	0.00E+00
10/12/2019	9:33:28 AM	14.47	17.7198	35.3417	0.9955	4.76E-02	0.0619	4.60E+04	7.9519	104.004	14.509	-0.564	-0.05	25.61	0.00E+00
10/12/2019	9:32:38 AM	14.579	17.8421	35.2354	0.8879	4.76E-02	0.065	4.61E+04	7.7719	100.521	14.691	0.846	0	25.4699	0.00E+00
10/12/2019	9:33:28 AM	14.587	17.7048	35.3408	0.9947	4.76E-02	0.0728	4.60E+04	7.9527	104.007	14.591	-0.551	-0.1	25.6128	0.00E+00
10/12/2019	9:33:28 AM	14.708	17.6901	35.3407	1.0565	4.76E-02	0.0961	4.60E+04	7.9584	104.073	14.712	-0.527	-0.08	25.6162	0.00E+00
10/12/2019	9:32:39 AM	14.772	17.8083	35.2467	0.8887	4.76E-02	0.0681	4.61E+04	7.7729	100.493	14.842	0.824	-0.09	25.4899	0.00E+00
10/12/2019	9:33:28 AM	14.833	17.6758	35.3405	1.055	4.76E-02	0.0899	4.59E+04	7.9606	104.086	14.87	-0.508	-0.05	25.6195	0.00E+00
10/12/2019	9:33:27 AM	14.961	17.6616	35.3401	1.055	4.76E-02	0.0899	4.59E+04	7.96	104.063	15.035	-0.495	0	25.6226	0.00E+00
10/12/2019	9:32:39 AM	14.967	17.7814	35.2606	0.891	4.76E-02	0.0743	4.61E+04	7.7729	100.493	15.007	0.79	-0.14	25.5105	0.00E+00
10/12/2019	9:33:27 AM	15.09	17.6476	35.3412	1.055	4.76E-02	0.0914	4.59E+04	7.9556	103.979	15.204	-0.495	0.03	25.627	0.00E+00
10/12/2019	9:32:39 AM	15.163	17.7599	35.2735	0.8864	4.76E-02	0.065	4.60E+04	7.7798	100.569	15.222	0.762	-0.11	25.5287	0.00E+00
10/12/2019	9:33:27 AM	15.218	17.6336	35.3431	1.0535	4.76E-02	0.1505	4.59E+04	7.9578	103.963	15.338	-0.502	-0.01	25.6322	0.00E+00
10/12/2019	9:33:26 AM	15.343	17.619	35.3447	1.0558	4.76E-02	0.1552	4.59E+04	7.9553	103.882	15.473	-0.5	-0.01	25.6373	0.00E+00
10/12/2019	9:32:39 AM	15.36	17.741	35.2826	0.9947	4.76E-02	0.0588	4.60E+04	7.7909	100.7	15.476	0.756	-0.02	25.5424	0.00E+00
10/12/2019	9:33:26 AM	15.466	17.6037	35.3467	1.0558	4.76E-02	0.1614	4.59E+04	7.9493	103.751	15.567	-0.496	-0.07	25.6429	0.00E+00
10/12/2019	9:32:39 AM	15.556	17.7218	35.2865	0.9909	4.76E-02	0.0635	4.60E+04	7.7984	100.778	15.736	0.779	0.09	25.5506	0.00E+00
10/12/2019	9:33:26 AM	15.588	17.5877	35.3467	1.0542	4.76E-02	0.152	4.59E+04	7.9393	103.555	15.639	-0.48	-0.12	25.6468	0.00E+00
10/12/2019	9:33:26 AM	15.711	17.571	35.3427	1.0787	4.76E-02	0.3991	4.58E+04	7.9373	103.433	15.779	-0.451	-0.07	25.6471	0.00E+00
10/12/2019	9:32:40 AM	15.746	17.6997	35.2846	0.9924	4.76E-02	0.0743	4.60E+04	7.8079	100.859	15.948	0.809	0.12	25.5538	0.00E+00
10/12/2019	9:33:26 AM	15.835	17.5549	35.3389	1.0794	4.76E-02	0.4023	4.58E+04	7.9379	103.334	15.941	-0.433	-0.01	25.6469	0.00E+00
10/12/2019	9:32:40 AM	15.93	17.6738	35.2781	0.997	4.76E-02	0.0666	4.60E+04	7.8106	100.862	16.124	0.831	0.09	25.5535	0.00E+00
10/12/2019	9:33:25 AM	15.959	17.5413	35.3373	1.0787	4.76E-02	0.4085	4.58E+04	7.9364	103.243	16.076	-0.43	0.04	25.6481	0.00E+00
10/12/2019	9:33:25 AM	16.081	17.5299	35.3361	1.0771	4.76E-02	0.4023	4.58E+04	7.9373	103.21	16.22	-0.44	0.07	25.6494	0.00E+00
10/12/2019	9:32:40 AM	16.107	17.646	35.2712	1.1015	4.76E-02	0.0868	4.59E+04	7.8121	100.862	16.294	0.844	0.05	25.5536	0.00E+00
10/12/2019	9:33:25 AM	16.2	17.5198	35.3351	1.0802	4.76E-02	0.4038	4.58E+04	7.9315	103.091	16.329	-0.459	0.06	25.6506	0.00E+00
10/12/2019	9:32:41 AM	16.278	17.6192	35.2688	1.1031	4.76E-02	0.093	4.59E+04	7.8073	100.79	16.444	0.836	-0.03	25.5581	0.00E+00
10/12/2019	9:33:24 AM	16.317	17.5108	35.3345	1.1038	4.76E-02	0.5033	4.58E+04	7.9273	103.017	16.41	-0.473	0.07	25.652	0.00E+00
10/12/2019	9:33:24 AM	16.434	17.5026	35.3345	1.1015	4.76E-02	0.4971	4.58E+04	7.9212	102.91	16.505	-0.49	0.1	25.6538	0.00E+00
10/12/2019	9:32:41 AM	16.444	17.5956	35.2728	1.1038	4.76E-02	0.0961	4.59E+04	7.8117	100.809	16.59	0.802	-0.14	25.5679	0.00E+00
10/12/2019	9:33:24 AM	16.552	17.4951	35.3352	1.1023	4.76E-02	0.4986	4.58E+04	7.9154	102.817	16.596	-0.515	0.13	25.6561	0.00E+00
10/12/2019	9:32:41 AM	16.607	17.5757	35.2806	1.1031	4.76E-02	0.0914	4.59E+04	7.8149	100.752	16.759	0.75	-0.21	25.5805	0.00E+00
10/12/2019	9:33:24 AM	16.673	17.4878	35.3362	1.1031	4.76E-02	0.5017	4.58E+04	7.907	102.68	16.716	-0.548	0.15	25.6587	0.00E+00
10/12/2019	9:32:41 AM	16.766	17.5595	35.2888	1.0878	4.76E-02	0.1194	4.58E+04	7.8091	100.627	16.924	0.698	-0.21	25.5925	0.00E+00
10/12/2019	9:33:24 AM	16.796	17.4804	35.3376	1.1046	4.76E-02	0.6789	4.58E+04	7.8967	102.521	16.854	-0.586	0.19	25.6618	0.00E+00
10/12/2019	9:32:42 AM	16.922	17.5472	35.2964	1.0939	4.76E-02	0.1179	4.58E+04	7.8051	100.477	17.048	0.649	-0.19	25.6031	0.00E+00
10/12/2019	9:33:23 AM	16.922	17.4726	35.3387	1.1046	4.76E-02	0.6742	4.58E+04	7.8877	102.363	16.975	-0.632	0.16	25.6647	0.00E+00
10/12/2019	9:33:23 AM	17.051	17.4644	35.3387	1.1069	4.76E-02	0.6758	4.57E+04	7.8797	102.237	17.113	-0.673	0.14	25.6667	0.00E+00

10/12/2019	9:32:42 AM	17.076	17.5387	35.3045	1.0916	4.76E-02	0.1132	4.58E+04	7.8024	100.386	17.146	0.609	-0.16	25.6133	0.00E+00
10/12/2019	9:33:23 AM	17.182	17.4559	35.338	1.1023	4.76E-02	0.6835	4.57E+04	7.8656	102.027	17.222	-0.707	0.02	25.6679	0.00E+00
10/12/2019	9:32:42 AM	17.232	17.5333	35.312	1.0863	4.76E-02	0.1148	4.58E+04	7.8028	100.316	17.253	0.574	-0.14	25.6221	0.00E+00
10/12/2019	9:33:22 AM	17.316	17.4479	35.3378	1.1389	4.76E-02	0.8219	4.57E+04	7.8522	101.83	17.323	-0.712	-0.14	25.6694	0.00E+00
10/12/2019	9:32:42 AM	17.391	17.5292	35.3173	1.0916	4.76E-02	0.41	4.58E+04	7.787	100.059	17.385	0.546	-0.11	25.6282	0.00E+00
10/12/2019	9:33:22 AM	17.456	17.4405	35.3376	1.1405	4.76E-02	0.8265	4.57E+04	7.8378	101.611	17.481	-0.678	-0.24	25.6708	0.00E+00
10/12/2019	9:32:42 AM	17.557	17.5244	35.3197	1.0886	4.76E-02	0.4054	4.58E+04	7.7922	100.079	17.537	0.531	-0.06	25.6314	0.00E+00
10/12/2019	9:33:22 AM	17.599	17.4336	35.3358	1.1405	4.76E-02	0.8219	4.57E+04	7.8274	101.455	17.658	-0.619	-0.36	25.6707	0.00E+00
10/12/2019	9:32:43 AM	17.731	17.5164	35.3179	1.0901	4.76E-02	0.3991	4.58E+04	7.7696	99.731	17.716	0.531	0	25.631	0.00E+00
10/12/2019	9:33:22 AM	17.745	17.4271	35.3326	1.1374	4.76E-02	0.8296	4.57E+04	7.8202	101.336	17.862	-0.528	-0.43	25.669	0.00E+00
10/12/2019	9:33:22 AM	17.89	17.422	35.3293	1.2663	4.76E-02	0.9011	4.57E+04	7.8149	101.238	18.049	-0.419	-0.47	25.6668	0.00E+00
10/12/2019	9:32:43 AM	17.91	17.5055	35.3118	1.0909	4.76E-02	0.4038	4.58E+04	7.7607	99.579	17.934	0.553	0.09	25.6275	0.00E+00
10/12/2019	9:33:21 AM	18.031	17.4188	35.3265	1.2648	4.76E-02	0.9042	4.57E+04	7.806	101.083	18.24	-0.302	-0.4	25.6647	0.00E+00
10/12/2019	9:32:43 AM	18.094	17.4951	35.3076	1.0901	4.76E-02	0.4007	4.58E+04	7.7438	99.336	18.173	0.605	0.21	25.6261	0.00E+00
10/12/2019	9:33:21 AM	18.165	17.4174	35.3254	1.2625	4.76E-02	0.9027	4.57E+04	7.8036	101.018	18.416	-0.201	-0.26	25.6637	0.00E+00
10/12/2019	9:32:44 AM	18.28	17.4862	35.31	1.1023	4.76E-02	0.6462	4.58E+04	7.7255	99.079	18.383	0.674	0.28	25.6306	0.00E+00
10/12/2019	9:33:21 AM	18.291	17.4174	35.3265	1.261	4.76E-02	0.898	4.57E+04	7.8023	100.951	18.577	-0.136	-0.05	25.6646	0.00E+00
10/12/2019	9:33:21 AM	18.405	17.4177	35.3288	1.2618	4.76E-02	0.9011	4.57E+04	7.8098	101.034	18.697	-0.123	0.12	25.6669	0.00E+00
10/12/2019	9:32:44 AM	18.467	17.4767	35.3133	1.1	4.76E-02	0.6509	4.58E+04	7.7056	98.756	18.549	0.732	0.23	25.6357	0.00E+00
10/12/2019	9:33:20 AM	18.508	17.4173	35.3316	1.2404	4.76E-02	0.9555	4.57E+04	7.8052	100.964	18.794	-0.152	0.25	25.6699	0.00E+00
10/12/2019	9:33:20 AM	18.599	17.4154	35.3364	1.2389	4.76E-02	0.9524	4.57E+04	7.8003	100.88	18.871	-0.214	0.37	25.6751	0.00E+00
10/12/2019	9:32:44 AM	18.655	17.4652	35.3118	1.1	4.76E-02	0.654	4.58E+04	7.6883	98.46	18.709	0.764	0.13	25.6367	0.00E+00
10/12/2019	9:33:20 AM	18.681	17.4118	35.3428	1.2396	4.76E-02	0.9493	4.57E+04	7.7963	100.816	18.877	-0.307	0.37	25.6823	0.00E+00
10/12/2019	9:33:19 AM	18.757	17.4054	35.3466	1.2389	4.76E-02	0.954	4.57E+04	7.7918	100.743	18.861	-0.399	0.32	25.6879	0.00E+00
10/12/2019	9:33:19 AM	18.833	17.3959	35.346	1.1618	4.76E-02	0.9804	4.57E+04	7.7998	100.835	18.847	-0.48	0.24	25.69	0.00E+00
10/12/2019	9:32:44 AM	18.846	17.4515	35.3087	1.1061	4.76E-02	0.6556	4.57E+04	7.6661	98.114	18.877	0.773	0.04	25.6367	0.00E+00
10/12/2019	9:33:19 AM	18.915	17.385	35.3443	1.1633	4.76E-02	0.9757	4.57E+04	7.8006	100.836	18.866	-0.541	0.14	25.6908	0.00E+00
10/12/2019	9:33:19 AM	19.005	17.3748	35.3434	1.1633	4.76E-02	0.9695	4.57E+04	7.8008	100.824	18.937	-0.577	0.1	25.6921	0.00E+00
10/12/2019	9:32:44 AM	19.041	17.4358	35.3058	1.1267	4.76E-02	0.5748	4.57E+04	7.6334	97.653	19.059	0.766	-0.03	25.6372	0.00E+00
10/12/2019	9:33:19 AM	19.106	17.3657	35.3443	1.1641	4.76E-02	0.9726	4.57E+04	7.7811	100.556	19.062	-0.602	0.08	25.695	0.00E+00
10/12/2019	9:33:18 AM	19.216	17.3572	35.3477	1.2274	4.76E-02	0.7317	4.56E+04	7.7867	100.608	19.191	-0.623	0.06	25.7003	0.00E+00
10/12/2019	9:32:45 AM	19.241	17.4195	35.3037	1.1298	4.76E-02	0.5856	4.57E+04	7.6122	97.338	19.284	0.759	-0.03	25.6389	0.00E+00
10/12/2019	9:33:18 AM	19.335	17.3482	35.3532	1.2251	4.76E-02	0.7286	4.56E+04	7.7885	100.613	19.316	-0.639	0.01	25.708	0.00E+00
10/12/2019	9:32:45 AM	19.445	17.4024	35.3041	1.1282	4.76E-02	0.5825	4.57E+04	7.5907	97.007	19.529	0.759	0	25.643	0.00E+00
10/12/2019	9:33:18 AM	19.461	17.3372	35.3607	1.2236	4.76E-02	0.7255	4.56E+04	7.7918	100.641	19.465	-0.642	-0.02	25.718	0.00E+00
10/12/2019	9:33:17 AM	19.593	17.323	35.3675	1.2274	4.76E-02	0.7302	4.56E+04	7.788	100.578	19.606	-0.636	-0.05	25.7283	0.00E+00
10/12/2019	9:32:45 AM	19.651	17.3817	35.3033	1.1282	4.76E-02	0.5717	4.57E+04	7.5722	96.673	19.752	0.771	0.05	25.6463	0.00E+00
10/12/2019	9:33:17 AM	19.732	17.3052	35.3733	1.3083	4.76E-02	0.7037	4.56E+04	7.7871	100.554	19.765	-0.624	-0.04	25.7385	0.00E+00
10/12/2019	9:32:46 AM	19.858	17.3545	35.2968	1.2114	4.76E-02	1.1746	4.57E+04	7.5572	96.327	19.951	0.795	0.09	25.6455	0.00E+00
10/12/2019	9:33:17 AM	19.875	17.284	35.3796	1.3121	4.76E-02	0.7022	4.56E+04	7.7876	100.541	19.934	-0.615	0	25.7498	0.00E+00
10/12/2019	9:33:17 AM	20.022	17.26	35.3833	1.3121	4.76E-02	0.7037	4.56E+04	7.7916	100.582	20.087	-0.615	0.01	25.7592	0.00E+00
10/12/2019	9:32:46 AM	20.066	17.3222	35.2858	1.2129	4.76E-02	1.1715	4.56E+04	7.5392	95.976	20.145	0.822	0.11	25.6421	0.00E+00
10/12/2019	9:33:17 AM	20.172	17.2332	35.3814	1.3083	4.76E-02	0.7037	4.55E+04	7.7947	100.62	20.264	-0.617	0.08	25.7639	0.00E+00
10/12/2019	9:32:46 AM	20.276	17.2885	35.2792	1.2137	4.76E-02	1.1746	4.56E+04	7.51	95.513	20.341	0.839	0.07	25.6435	0.00E+00
10/12/2019	9:33:16 AM	20.322	17.2057	35.3748	1.3129	4.76E-02	0.7037	4.55E+04	7.7972	100.656	20.424	-0.638	0.11	25.7639	0.00E+00
10/12/2019	9:33:16 AM	20.474	17.1803	35.3685	1.2412	4.76E-02	0.7815	4.55E+04	7.8003	100.703	20.583	-0.665	0.1	25.7634	0.00E+00
10/12/2019	9:32:46 AM	20.488	17.2548	35.2797	1.2106	4.76E-02	1.17	4.56E+04	7.4797	95.069	20.575	0.852	0.05	25.6517	0.00E+00
10/12/2019	9:33:16 AM	20.626	17.1591	35.3672	1.2358	4.76E-02	0.7815	4.55E+04	7.8018	100.73	20.726	-0.689	-0.01	25.7665	0.00E+00
10/12/2019	9:32:46 AM	20.702	17.2215	35.2806	1.2343	4.76E-02	0.8778	4.55E+04	7.4446	94.569	20.817	0.862	0.04	25.6605	0.00E+00
10/12/2019	9:33:15 AM	20.779	17.1413	35.3708	1.2335	4.76E-02	0.7783	4.54E+04	7.8061	100.788	20.862	-0.688	-0.11	25.7737	0.00E+00
10/12/2019	9:32:47 AM	20.917	17.1899	35.282	1.2389	4.76E-02	0.8731	4.55E+04	7.3921	93.835	21.028	0.859	-0.01	25.6697	0.00E+00

10/12/2019	9:33:15 AM	20.934	17.1242	35.3766	1.2389	4.76E-02	0.7768	4.54E+04	7.8088	100.821	21.011	-0.66	-0.13	25.7833	0.00E+00
10/12/2019	9:33:15 AM	21.092	17.1053	35.3821	1.396	4.76E-02	0.71	4.54E+04	7.8052	100.771	21.172	-0.626	-0.1	25.7934	0.00E+00
10/12/2019	9:32:47 AM	21.132	17.1608	35.287	1.2351	4.76E-02	0.8731	4.55E+04	7.332	93.018	21.199	0.845	-0.06	25.6816	0.00E+00
10/12/2019	9:33:15 AM	21.252	17.0837	35.386	1.3976	4.76E-02	0.7022	4.54E+04	7.8035	100.734	21.349	-0.601	-0.02	25.8025	0.00E+00
10/12/2019	9:32:47 AM	21.351	17.1338	35.2929	1.2343	4.76E-02	0.8794	4.54E+04	7.2719	92.22	21.372	0.831	-0.05	25.6937	0.00E+00
10/12/2019	9:33:14 AM	21.413	17.0594	35.3866	1.3968	4.76E-02	0.7006	4.54E+04	7.8056	100.726	21.52	-0.596	0.01	25.8089	0.00E+00
10/12/2019	9:33:14 AM	21.574	17.0338	35.3836	1.4006	4.76E-02	0.7037	4.53E+04	7.8033	100.663	21.726	-0.598	0.08	25.812	0.00E+00
10/12/2019	9:32:48 AM	21.575	17.1082	35.2968	1.2358	4.76E-02	0.8685	4.54E+04	7.21	91.419	21.579	0.824	-0.03	25.7036	0.00E+00
10/12/2019	9:33:14 AM	21.733	17.0088	35.3788	1.3335	4.76E-02	0.6587	4.53E+04	7.7985	100.582	21.914	-0.617	0.1	25.8131	0.00E+00
10/12/2019	9:32:48 AM	21.806	17.0844	35.3	1.2648	4.76E-02	0.7799	4.54E+04	7.1501	90.649	21.82	0.826	0.01	25.7126	0.00E+00
10/12/2019	9:33:14 AM	21.889	16.9862	35.3761	1.3342	4.76E-02	0.6509	4.53E+04	7.7881	100.442	22.078	-0.643	0.12	25.8155	0.00E+00
10/12/2019	9:33:14 AM	22.042	16.9663	35.3777	1.3365	4.76E-02	0.6478	4.53E+04	7.7744	100.253	22.177	-0.672	0.04	25.8212	0.00E+00
10/12/2019	9:32:48 AM	22.043	17.061	35.304	1.2602	4.76E-02	0.7768	4.54E+04	7.0927	89.919	22.086	0.839	0.05	25.7218	0.00E+00
10/12/2019	9:33:13 AM	22.194	16.9478	35.3829	1.335	4.76E-02	0.6525	4.53E+04	7.7591	100.056	22.27	-0.682	-0.09	25.8304	0.00E+00
10/12/2019	9:32:48 AM	22.285	17.0354	35.3054	1.2595	4.76E-02	0.7815	4.53E+04	7.0385	89.215	22.382	0.867	0.11	25.7286	0.00E+00
10/12/2019	9:33:13 AM	22.349	16.9285	35.3898	1.4594	4.76E-02	0.6758	4.52E+04	7.7404	99.786	22.414	-0.66	-0.12	25.8418	0.00E+00
10/12/2019	9:33:13 AM	22.507	16.9065	35.3959	1.4578	4.76E-02	0.6789	4.52E+04	7.7178	99.475	22.594	-0.632	-0.11	25.8531	0.00E+00
10/12/2019	9:32:49 AM	22.529	17.0058	35.3008	1.2633	4.76E-02	0.7815	4.53E+04	7.006	88.771	22.662	0.911	0.18	25.7306	0.00E+00
10/12/2019	9:33:12 AM	22.667	16.881	35.3984	1.4586	4.76E-02	0.682	4.52E+04	7.7125	99.368	22.804	-0.604	-0.05	25.8617	0.00E+00
10/12/2019	9:32:49 AM	22.773	16.9738	35.2931	1.2953	4.76E-02	1.0472	4.53E+04	6.9781	88.376	22.908	0.962	0.21	25.7308	0.00E+00
10/12/2019	9:33:12 AM	22.826	16.8531	35.3974	1.4586	4.76E-02	0.6804	4.52E+04	7.7046	99.212	22.982	-0.591	-0.05	25.8674	0.00E+00
10/12/2019	9:33:12 AM	22.984	16.8248	35.3971	1.4586	4.76E-02	0.6696	4.51E+04	7.6946	99.042	23.155	-0.58	-0.02	25.8736	0.00E+00
10/12/2019	9:32:49 AM	23.017	16.9417	35.2902	1.2976	4.76E-02	1.0534	4.52E+04	6.9561	88.039	23.161	1.012	0.2	25.7356	0.00E+00
10/12/2019	9:33:12 AM	23.14	16.7976	35.3992	1.4594	4.76E-02	0.5546	4.51E+04	7.6898	98.904	23.302	-0.575	-0.03	25.8817	0.00E+00
10/12/2019	9:32:49 AM	23.26	16.9091	35.2922	1.2976	4.76E-02	1.0456	4.52E+04	6.9364	87.782	23.407	1.042	0.12	25.7448	0.00E+00
10/12/2019	9:33:12 AM	23.293	16.7708	35.4021	1.4556	4.76E-02	0.5514	4.51E+04	7.6823	98.745	23.456	-0.567	-0.01	25.8907	0.00E+00
10/12/2019	9:33:11 AM	23.444	16.7431	35.4025	1.4578	4.76E-02	0.553	4.51E+04	7.6885	98.766	23.604	-0.566	0.03	25.8978	0.00E+00
10/12/2019	9:32:49 AM	23.501	16.8726	35.2918	1.2999	4.76E-02	1.0519	4.52E+04	6.915	87.515	23.655	1.049	0.03	25.7521	0.00E+00
10/12/2019	9:33:11 AM	23.594	16.7143	35.3985	1.4586	4.76E-02	0.5546	4.50E+04	7.684	98.686	23.727	-0.573	0.03	25.9008	0.00E+00
10/12/2019	9:32:50 AM	23.741	16.8297	35.2853	1.3815	4.76E-02	0.7737	4.51E+04	6.8976	87.308	23.928	1.046	-0.01	25.7549	0.00E+00
10/12/2019	9:33:11 AM	23.743	16.6857	35.3938	1.409	4.76E-02	0.4038	4.50E+04	7.6742	98.549	23.884	-0.582	0.04	25.9027	0.00E+00
10/12/2019	9:33:10 AM	23.891	16.6598	35.3936	1.4067	4.76E-02	0.4007	4.50E+04	7.6597	98.344	24.031	-0.59	0.03	25.9081	0.00E+00
10/12/2019	9:32:50 AM	23.978	16.7796	35.2745	1.3815	4.76E-02	0.7799	4.51E+04	6.8815	87.087	24.181	1.033	-0.05	25.7552	0.00E+00
10/12/2019	9:33:10 AM	24.04	16.6364	35.3992	1.4113	4.76E-02	0.4007	4.50E+04	7.6441	98.113	24.183	-0.597	0.08	25.9185	0.00E+00
10/12/2019	9:33:10 AM	24.188	16.613	35.4066	1.4121	4.76E-02	0.4038	4.49E+04	7.6284	97.86	24.311	-0.617	0.1	25.9311	0.00E+00
10/12/2019	9:32:50 AM	24.211	16.7261	35.2629	1.3831	4.76E-02	0.7783	4.50E+04	6.8622	86.817	24.396	1.01	-0.09	25.7565	0.00E+00
10/12/2019	9:33:10 AM	24.336	16.5869	35.4103	1.3617	4.76E-02	0.5794	4.49E+04	7.6043	97.495	24.452	-0.641	0.15	25.9411	0.00E+00
10/12/2019	9:32:51 AM	24.44	16.6761	35.2594	1.3831	4.76E-02	0.7721	4.50E+04	6.8385	86.512	24.619	0.99	-0.08	25.7656	0.00E+00
10/12/2019	9:33:10 AM	24.486	16.5574	35.4073	1.3594	4.76E-02	0.5763	4.49E+04	7.5825	97.152	24.581	-0.679	0.13	25.9453	0.00E+00
10/12/2019	9:33:09 AM	24.639	16.527	35.3995	1.3617	4.76E-02	0.5779	4.48E+04	7.5521	96.716	24.732	-0.712	0.1	25.9445	0.00E+00
10/12/2019	9:32:51 AM	24.667	16.6331	35.2693	1.4067	4.76E-02	0.7271	4.49E+04	6.827	86.354	24.847	0.975	-0.06	25.7859	0.00E+00
10/12/2019	9:33:09 AM	24.794	16.4994	35.3908	1.3625	4.76E-02	0.5825	4.48E+04	7.524	96.311	24.898	-0.738	0.01	25.942	0.00E+00
10/12/2019	9:32:51 AM	24.892	16.5959	35.2836	1.4083	4.76E-02	0.7255	4.49E+04	6.8125	86.16	25.065	0.956	-0.08	25.8086	0.00E+00
10/12/2019	9:33:09 AM	24.951	16.4767	35.3845	1.3106	4.76E-02	0.7504	4.48E+04	7.5032	96.028	25.073	-0.742	-0.08	25.9406	0.00E+00
10/12/2019	9:33:08 AM	25.109	16.4588	35.3815	1.3144	4.76E-02	0.7504	4.48E+04	7.4587	95.438	25.214	-0.721	-0.21	25.9413	0.00E+00
10/12/2019	9:32:51 AM	25.113	16.5623	35.2937	1.409	4.76E-02	0.7255	4.49E+04	6.8008	85.997	25.308	0.941	-0.06	25.8265	0.00E+00
10/12/2019	9:33:08 AM	25.27	16.4443	35.3807	1.3129	4.76E-02	0.7488	4.48E+04	7.4282	95.022	25.356	-0.668	-0.34	25.9435	0.00E+00
10/12/2019	9:32:51 AM	25.332	16.5324	35.3006	1.4075	4.76E-02	0.724	4.48E+04	6.7933	85.887	25.563	0.933	-0.03	25.8406	0.00E+00
10/12/2019	9:33:08 AM	25.434	16.4316	35.3805	1.3091	4.76E-02	0.755	4.48E+04	7.398	94.592	25.545	-0.583	-0.31	25.946	0.00E+00
10/12/2019	9:32:52 AM	25.545	16.5077	35.3084	1.4083	4.76E-02	0.7271	4.48E+04	6.7873	85.794	25.779	0.922	-0.05	25.8544	0.00E+00
10/12/2019	9:33:08 AM	25.599	16.4194	35.3793	1.3114	4.76E-02	0.7535	4.47E+04	7.3668	94.134	25.742	-0.505	-0.25	25.9477	0.00E+00

10/12/2019	9:32:52 AM	25.753	16.4886	35.3189	1.409	4.76E-02	0.525	4.48E+04	6.7833	85.723	25.931	0.9	-0.09	25.8695	0.00E+00
10/12/2019	9:33:07 AM	25.764	16.4076	35.3767	1.4227	4.76E-02	0.4784	4.47E+04	7.3348	93.667	25.975	-0.443	-0.04	25.9479	0.00E+00
10/12/2019	9:33:07 AM	25.925	16.3967	35.3732	1.4205	4.76E-02	0.4753	4.47E+04	7.2997	93.156	26.178	-0.432	0.14	25.9468	0.00E+00
10/12/2019	9:32:52 AM	25.959	16.4739	35.3294	1.4067	4.76E-02	0.5204	4.48E+04	6.7838	85.707	26.067	0.866	-0.14	25.8834	0.00E+00
10/12/2019	9:33:07 AM	26.079	16.3874	35.3698	1.4189	4.76E-02	0.4753	4.47E+04	7.2609	92.626	26.36	-0.467	0.28	25.9454	0.00E+00
10/12/2019	9:32:53 AM	26.167	16.4617	35.337	1.4075	4.76E-02	0.5297	4.48E+04	6.7814	85.655	26.24	0.823	-0.17	25.8937	0.00E+00
10/12/2019	9:33:07 AM	26.226	16.3802	35.3669	1.4235	4.76E-02	0.4722	4.47E+04	7.2204	92.072	26.476	-0.538	0.3	25.9441	0.00E+00
10/12/2019	9:33:07 AM	26.367	16.375	35.3644	1.3732	4.76E-02	0.5344	4.47E+04	7.1761	91.448	26.561	-0.612	0.26	25.9427	0.00E+00
10/12/2019	9:32:53 AM	26.379	16.4497	35.3408	1.4113	4.76E-02	0.5266	4.48E+04	6.7687	85.481	26.45	0.788	-0.14	25.9001	0.00E+00
10/12/2019	9:33:06 AM	26.505	16.3713	35.3625	1.3709	4.76E-02	0.5312	4.47E+04	7.1319	90.83	26.634	-0.677	0.19	25.9416	0.00E+00
10/12/2019	9:32:53 AM	26.596	16.4358	35.3403	1.4098	4.76E-02	0.48	4.48E+04	6.756	85.314	26.692	0.771	-0.07	25.9025	0.00E+00
10/12/2019	9:33:06 AM	26.645	16.3691	35.3617	1.3747	4.76E-02	0.525	4.47E+04	7.0885	90.205	26.695	-0.725	0.09	25.9412	0.00E+00
10/12/2019	9:33:06 AM	26.789	16.3677	35.3617	1.3732	4.76E-02	0.525	4.47E+04	7.0492	89.682	26.816	-0.746	0.05	25.9414	0.00E+00
10/12/2019	9:32:53 AM	26.815	16.4196	35.3363	1.4113	4.76E-02	0.4831	4.47E+04	6.7415	85.134	26.951	0.774	0.01	25.9022	0.00E+00
10/12/2019	9:33:05 AM	26.942	16.3667	35.3618	1.4075	4.76E-02	0.5499	4.47E+04	7.01	89.153	26.95	-0.759	-0.01	25.9416	0.00E+00
10/12/2019	9:32:53 AM	27.036	16.4028	35.3324	1.4067	4.76E-02	0.4831	4.47E+04	6.7246	84.927	27.176	0.791	0.07	25.9025	0.00E+00
10/12/2019	9:33:05 AM	27.102	16.3658	35.3617	1.4098	4.76E-02	0.5499	4.47E+04	6.9759	88.704	27.154	-0.757	0.03	25.9418	0.00E+00
10/12/2019	9:32:54 AM	27.258	16.3885	35.3326	1.4083	4.76E-02	0.4784	4.47E+04	6.7029	84.663	27.391	0.827	0.14	25.9064	0.00E+00
10/12/2019	9:33:05 AM	27.268	16.3649	35.3622	1.4098	4.76E-02	0.5546	4.47E+04	6.9456	88.257	27.363	-0.764	0.03	25.9425	0.00E+00
10/12/2019	9:33:05 AM	27.438	16.3641	35.3636	1.409	4.76E-02	0.5639	4.47E+04	6.9251	87.931	27.568	-0.772	0.01	25.944	0.00E+00
10/12/2019	9:32:54 AM	27.481	16.3795	35.3392	1.3236	4.76E-02	0.452	4.47E+04	6.6843	84.437	27.622	0.874	0.19	25.9154	0.00E+00
10/12/2019	9:33:05 AM	27.61	16.3629	35.3654	1.3129	4.76E-02	0.5794	4.47E+04	6.9068	87.623	27.739	-0.774	-0.07	25.946	0.00E+00
10/12/2019	9:32:54 AM	27.704	16.3744	35.3499	1.3236	4.76E-02	0.4551	4.47E+04	6.6728	84.3	27.859	0.912	0.15	25.927	0.00E+00
10/12/2019	9:33:04 AM	27.784	16.361	35.3672	1.3121	4.76E-02	0.5732	4.47E+04	6.8926	87.398	27.911	-0.757	-0.12	25.9482	0.00E+00
10/12/2019	9:32:54 AM	27.928	16.369	35.3556	1.3274	4.76E-02	0.4551	4.47E+04	6.664	84.203	28.104	0.932	0.08	25.9335	0.00E+00
10/12/2019	9:33:04 AM	27.959	16.3582	35.3686	1.3136	4.76E-02	0.581	4.47E+04	6.8782	87.179	28.094	-0.727	-0.15	25.9504	0.00E+00
10/12/2019	9:33:04 AM	28.135	16.3544	35.3696	1.3106	4.76E-02	0.5825	4.47E+04	6.8679	87.036	28.284	-0.69	-0.15	25.9523	0.00E+00
10/12/2019	9:32:55 AM	28.149	16.3615	35.353	1.3243	4.76E-02	0.452	4.47E+04	6.6595	84.157	28.363	0.943	0.04	25.9327	0.00E+00
10/12/2019	9:33:03 AM	28.311	16.35	35.37	1.3121	4.76E-02	0.5763	4.47E+04	6.8603	86.928	28.498	-0.653	-0.12	25.9538	0.00E+00
10/12/2019	9:32:55 AM	28.368	16.3533	35.3485	1.248	4.76E-02	0.4784	4.47E+04	6.6636	84.22	28.622	0.952	0.03	25.9304	0.00E+00
10/12/2019	9:33:03 AM	28.486	16.3451	35.3696	1.229	4.76E-02	0.5281	4.47E+04	6.8628	86.943	28.695	-0.624	-0.09	25.9545	0.00E+00
10/12/2019	9:32:55 AM	28.581	16.346	35.3482	1.2503	4.76E-02	0.4831	4.47E+04	6.6667	84.268	28.836	0.953	0.01	25.932	0.00E+00
10/12/2019	9:33:03 AM	28.658	16.3401	35.3685	1.2282	4.76E-02	0.5312	4.47E+04	6.8623	86.915	28.911	-0.602	-0.01	25.9546	0.00E+00
10/12/2019	9:32:56 AM	28.788	16.3386	35.3501	1.2496	4.76E-02	0.4831	4.47E+04	6.6796	84.44	29.004	0.943	-0.04	25.9353	0.00E+00
10/12/2019	9:33:03 AM	28.824	16.3355	35.3671	1.2251	4.76E-02	0.525	4.47E+04	6.8641	86.914	29.089	-0.599	0.01	25.9541	0.00E+00
10/12/2019	9:33:03 AM	28.984	16.3317	35.3658	1.2274	4.76E-02	0.5266	4.47E+04	6.8622	86.869	29.247	-0.6	-0.03	25.9536	0.00E+00
10/12/2019	9:32:56 AM	28.992	16.3302	35.3494	1.248	4.76E-02	0.4737	4.47E+04	6.6917	84.6	29.188	0.92	-0.09	25.9365	0.00E+00
10/12/2019	9:33:02 AM	29.138	16.3287	35.3648	1.2015	4.76E-02	0.5499	4.47E+04	6.8561	86.774	29.378	-0.593	-0.14	25.9533	0.00E+00
10/12/2019	9:32:56 AM	29.194	16.3214	35.3477	1.248	4.76E-02	0.4753	4.46E+04	6.7056	84.781	29.4	0.891	-0.12	25.9369	0.00E+00
10/12/2019	9:33:02 AM	29.287	16.3265	35.3642	1.2007	4.76E-02	0.5546	4.46E+04	6.868	86.919	29.525	-0.559	-0.19	25.9532	0.00E+00
10/12/2019	9:32:56 AM	29.392	16.3122	35.3471	1.2404	4.76E-02	0.6121	4.46E+04	6.7186	84.948	29.642	0.87	-0.08	25.9384	0.00E+00
10/12/2019	9:33:02 AM	29.432	16.3248	35.3641	1.1969	4.76E-02	0.5452	4.46E+04	6.8675	86.905	29.676	-0.51	-0.19	25.9534	0.00E+00
10/12/2019	9:33:01 AM	29.571	16.3234	35.3646	1.2023	4.76E-02	0.553	4.46E+04	6.8658	86.882	29.833	-0.464	-0.2	25.9542	0.00E+00
10/12/2019	9:32:56 AM	29.585	16.3026	35.3466	1.2396	4.76E-02	0.6043	4.46E+04	6.7346	85.152	29.903	0.863	-0.03	25.94	0.00E+00
10/12/2019	9:33:01 AM	29.704	16.322	35.3657	1.1504	4.76E-02	0.5033	4.46E+04	6.8464	86.635	29.983	-0.414	-0.24	25.9555	0.00E+00
10/12/2019	9:32:57 AM	29.767	16.2925	35.3455	1.2358	4.76E-02	0.6043	4.46E+04	6.7451	85.284	30.174	0.873	0.04	25.9413	0.00E+00
10/12/2019	9:33:01 AM	29.831	16.3205	35.3672	1.1496	4.76E-02	0.5048	4.46E+04	6.8413	86.572	30.13	-0.353	-0.27	25.9573	0.00E+00
10/12/2019	9:32:57 AM	29.935	16.2828	35.3449	1.2389	4.76E-02	0.6074	4.46E+04	6.7541	85.399	30.453	0.906	0.13	25.9431	0.00E+00
10/12/2019	9:33:01 AM	29.948	16.3184	35.3691	1.1511	4.76E-02	0.5095	4.46E+04	6.836	86.505	30.293	-0.285	-0.25	25.9596	0.00E+00
10/12/2019	9:33:00 AM	30.055	16.3156	35.3707	1.1527	4.76E-02	0.5033	4.46E+04	6.8278	86.401	30.432	-0.223	-0.21	25.9619	0.00E+00
10/12/2019	9:32:57 AM	30.081	16.2748	35.3463	1.2656	4.76E-02	0.7488	4.46E+04	6.7635	85.518	30.719	0.957	0.2	25.9465	0.00E+00

10/12/2019	9:33:00 AM	30.149	16.3118	35.3719	1.3365	4.76E-02	0.5033	4.46E+04	6.8191	86.289	30.538	-0.171	-0.18	25.964	0.00E+00
10/12/2019	9:32:58 AM	30.199	16.2696	35.3503	1.261	4.76E-02	0.7504	4.46E+04	6.7722	85.63	30.841	0.972	0.06	25.9518	0.00E+00
10/12/2019	9:33:00 AM	30.231	16.3073	35.3731	1.3358	4.76E-02	0.5002	4.46E+04	6.8152	86.242	30.597	-0.126	-0.19	25.9663	0.00E+00
10/12/2019	9:32:58 AM	30.289	16.2673	35.3557	1.2633	4.76E-02	0.7644	4.46E+04	6.7775	85.7	30.865	0.916	-0.23	25.9579	0.00E+00
10/12/2019	9:33:00 AM	30.299	16.3022	35.3744	1.3373	4.76E-02	0.5033	4.46E+04	6.809	86.163	30.663	-0.078	-0.2	25.9686	0.00E+00
10/12/2019	9:32:58 AM	30.354	16.2678	35.3613	1.2641	4.76E-02	0.7535	4.46E+04	6.7841	85.79	30.865	0.797	-0.48	25.9634	0.00E+00
10/12/2019	9:33:00 AM	30.355	16.2966	35.3748	1.3358	4.76E-02	0.5095	4.46E+04	6.8066	86.128	30.766	-0.029	-0.24	25.9704	0.00E+00
10/12/2019	9:32:59 AM	30.396	16.2905	35.3742	1.335	4.76E-02	0.5064	4.46E+04	6.8054	86.107	30.831	0.031	-0.42	25.9712	0.00E+00
10/12/2019	9:32:58 AM	30.397	16.2703	35.3661	1.1527	4.76E-02	0.6509	4.46E+04	6.7877	85.844	30.863	0.636	-0.64	25.9676	0.00E+00
10/12/2019	9:32:59 AM	30.42	16.2845	35.3731	1.1542	4.76E-02	0.654	4.46E+04	6.8029	86.068	30.853	0.137	-0.59	25.9715	0.00E+00
10/12/2019	9:32:58 AM	30.421	16.2742	35.3695	1.1542	4.76E-02	0.6571	4.46E+04	6.7964	85.965	30.86	0.458	-0.71	25.9702	0.00E+00
10/12/2019	9:32:59 AM	30.429	16.279	35.3717	1.1534	4.76E-02	0.6587	4.46E+04	6.7987	86.005	30.857	0.284	-0.69	25.9713	0.00E+00

TRANSECT 2 - 1,000 m

DD MMM YYYY HH:MM:SS	DD MMM YYYY HH:MM:SS	DepSM	Tv290C	Sal00	FlECO-AFL	Par	TurbWETntu0	C0uS/cm	Sbeox0Mg/L	Sbeox0PS	PrdM	Dz/dtM	AccM	Sigma-t00	Flag
10/12/2019	9:37:13 AM	0.559	18.2854	33.9007	0.4912	4.76E-02	0.0977	4.48E+04	-9.99E-29	-9.99E-29	0.65	-0.198	0.3	24.3651	0.00E+00
10/12/2019	9:37:13 AM	0.624	18.2862	34.4639	0.4919	4.76E-02	0.0899	4.55E+04	-9.99E-29	-9.99E-29	0.656	-0.272	0.32	24.7939	0.00E+00
10/12/2019	9:35:45 AM	0.676	18.305	35.3073	0.5392	4.76E-02	0.2298	4.66E+04	7.8725	103.285	0.582	0.098	0.51	25.4316	0.00E+00
10/12/2019	9:37:12 AM	0.686	18.2866	34.8016	0.5286	4.76E-02	0.0666	4.59E+04	-9.99E-29	-9.99E-29	0.663	-0.353	0.31	25.0511	0.00E+00
10/12/2019	9:35:45 AM	0.74	18.3045	35.3067	0.5881	4.76E-02	0.2282	4.66E+04	7.8838	103.427	0.627	0.196	0.39	25.4312	0.00E+00
10/12/2019	9:37:12 AM	0.75	18.2867	35.0042	0.5316	4.76E-02	0.0743	4.62E+04	7.2959	95.598	0.675	-0.429	0.24	25.2054	0.00E+00
10/12/2019	9:35:45 AM	0.812	18.304	35.3063	0.5881	4.76E-02	0.2298	4.66E+04	7.8933	103.543	0.674	0.258	0.25	25.4309	0.00E+00
10/12/2019	9:37:12 AM	0.82	18.2868	35.1262	0.5263	4.76E-02	0.0635	4.63E+04	7.4177	97.192	0.696	-0.488	0.17	25.2984	0.00E+00
10/12/2019	9:35:45 AM	0.893	18.3033	35.3059	0.5866	4.76E-02	0.2344	4.66E+04	7.8916	103.513	0.726	0.287	0.12	25.4307	0.00E+00
10/12/2019	9:37:12 AM	0.897	18.2868	35.1998	0.527	4.76E-02	0.0712	4.64E+04	7.5342	98.609	0.727	-0.531	0.11	25.3546	0.00E+00
10/12/2019	9:37:12 AM	0.984	18.2865	35.2438	0.5431	4.76E-02	0.0681	4.65E+04	7.6229	99.699	0.807	-0.559	0.02	25.3883	0.00E+00
10/12/2019	9:35:45 AM	0.985	18.3024	35.3053	0.5919	4.76E-02	0.2282	4.66E+04	7.901	103.631	0.799	0.286	0	25.4304	0.00E+00
10/12/2019	9:37:11 AM	1.081	18.2858	35.2698	0.5392	4.76E-02	0.0681	4.65E+04	7.6901	100.486	0.954	-0.565	0.01	25.4083	0.00E+00
10/12/2019	9:35:46 AM	1.088	18.3015	35.3047	0.4576	4.76E-02	0.1567	4.66E+04	7.9046	103.676	0.889	0.268	-0.07	25.4301	0.00E+00
10/12/2019	9:37:11 AM	1.188	18.2851	35.2853	0.54	4.76E-02	0.0666	4.65E+04	8.2979	101.023	1.085	-0.566	0.03	25.4203	0.00E+00
10/12/2019	9:35:46 AM	1.204	18.301	35.3048	0.4561	4.76E-02	0.1567	4.66E+04	7.9126	103.777	0.997	0.262	-0.02	25.4304	0.00E+00
10/12/2019	9:37:11 AM	1.301	18.2844	35.2955	0.5431	4.76E-02	0.065	4.65E+04	8.1983	101.479	1.194	-0.574	0.02	25.4283	0.00E+00
10/12/2019	9:35:46 AM	1.333	18.3008	35.3057	0.4561	4.76E-02	0.1598	4.66E+04	7.9145	103.798	1.124	0.287	0.1	25.4313	0.00E+00
10/12/2019	9:37:11 AM	1.422	18.2838	35.3028	0.566	4.76E-02	0.065	4.65E+04	9.1249	101.931	1.345	-0.579	0	25.4344	0.00E+00
10/12/2019	9:35:47 AM	1.475	18.3006	35.3067	0.4584	4.76E-02	0.1629	4.66E+04	7.9184	103.845	1.282	0.34	0.21	25.4322	0.00E+00
10/12/2019	9:37:10 AM	1.547	18.2827	35.308	0.5629	4.76E-02	0.0681	4.65E+04	9.5532	102.411	1.495	-0.579	-0.01	25.4391	0.00E+00
10/12/2019	9:35:47 AM	1.63	18.3	35.307	0.4691	4.76E-02	0.2484	4.66E+04	7.9164	103.815	1.45	0.407	0.27	25.4325	0.00E+00
10/12/2019	9:37:10 AM	1.677	18.2807	35.3108	0.5644	4.76E-02	0.065	4.65E+04	9.5327	102.958	1.622	-0.576	0.01	25.4421	0.00E+00
10/12/2019	9:35:47 AM	1.796	18.2986	35.3064	0.4675	4.76E-02	0.2624	4.66E+04	7.9135	103.771	1.634	0.481	0.29	25.4321	0.00E+00
10/12/2019	9:37:10 AM	1.81	18.2777	35.3113	0.5637	4.76E-02	0.0759	4.65E+04	9.488	103.311	1.773	-0.579	0.02	25.4431	0.00E+00
10/12/2019	9:37:09 AM	1.946	18.2744	35.3107	0.5614	4.76E-02	0.0728	4.65E+04	9.4734	103.448	1.947	-0.585	0.06	25.4433	0.00E+00
10/12/2019	9:35:47 AM	1.974	18.296	35.305	0.4713	4.76E-02	0.2562	4.66E+04	7.9036	103.636	1.824	0.554	0.29	25.4312	0.00E+00
10/12/2019	9:37:09 AM	2.084	18.2714	35.3102	0.5621	4.76E-02	0.0635	4.65E+04	9.1077	103.501	2.067	-0.599	0.07	25.4434	0.00E+00
10/12/2019	9:35:47 AM	2.161	18.2927	35.3032	0.4691	4.76E-02	0.2484	4.66E+04	7.895	103.516	1.999	0.614	0.24	25.4302	0.00E+00
10/12/2019	9:37:09 AM	2.224	18.2691	35.31	0.5652	4.76E-02	0.0681	4.65E+04	7.889	103.528	2.183	-0.616	0.04	25.4437	0.00E+00
10/12/2019	9:35:48 AM	2.36	18.2892	35.302	0.4912	4.76E-02	0.309	4.66E+04	7.8863	103.396	2.179	0.661	0.19	25.4299	0.00E+00
10/12/2019	9:37:09 AM	2.366	18.2671	35.3104	0.5652	4.76E-02	0.0681	4.65E+04	7.8925	103.577	2.352	-0.627	0.01	25.4444	0.00E+00
10/12/2019	9:37:09 AM	2.509	18.2654	35.3113	0.566	4.76E-02	0.0681	4.65E+04	7.9016	103.697	2.518	-0.629	-0.01	25.4458	0.00E+00
10/12/2019	9:35:48 AM	2.57	18.2862	35.3021	0.4935	4.76E-02	0.309	4.65E+04	7.8802	103.311	2.387	0.702	0.16	25.4308	0.00E+00
10/12/2019	9:37:08 AM	2.654	18.2634	35.3123	0.5881	4.76E-02	0.0681	4.65E+04	7.9099	103.805	2.645	-0.625	-0.04	25.4473	0.00E+00
10/12/2019	9:35:48 AM	2.793	18.2836	35.3028	0.4919	4.76E-02	0.2997	4.65E+04	7.8826	103.34	2.616	0.74	0.15	25.4322	0.00E+00
10/12/2019	9:37:08 AM	2.8	18.2608	35.3124	0.5881	4.76E-02	0.0666	4.65E+04	7.9232	103.978	2.771	-0.616	-0.1	25.4481	0.00E+00
10/12/2019	9:37:08 AM	2.948	18.2577	35.3115	0.5843	4.76E-02	0.0635	4.65E+04	7.9332	104.108	2.954	-0.592	-0.07	25.4481	0.00E+00
10/12/2019	9:35:49 AM	3.027	18.2811	35.3037	0.4927	4.76E-02	0.3043	4.65E+04	7.8842	103.355	2.871	0.781	0.16	25.4336	0.00E+00
10/12/2019	9:37:07 AM	3.097	18.2547	35.3105	0.5888	4.76E-02	0.0619	4.65E+04	7.941	104.211	3.109	-0.574	-0.03	25.4479	0.00E+00
10/12/2019	9:37:07 AM	3.247	18.252	35.3099	0.6133	4.76E-02	0.0635	4.65E+04	7.9424	104.229	3.256	-0.568	-0.05	25.4479	0.00E+00
10/12/2019	9:35:49 AM	3.272	18.2784	35.3039	0.4965	4.76E-02	0.093	4.65E+04	7.8879	103.398	3.128	0.826	0.18	25.4344	0.00E+00
10/12/2019	9:37:07 AM	3.396	18.2498	35.3094	0.6148	4.76E-02	0.0681	4.65E+04	7.9413	104.216	3.442	-0.554	-0.04	25.448	0.00E+00
10/12/2019	9:35:49 AM	3.528	18.2754	35.3033	0.5049	4.76E-02	0.0977	4.65E+04	7.8892	103.409	3.389	0.874	0.19	25.4346	0.00E+00
10/12/2019	9:37:07 AM	3.544	18.2479	35.309	0.6125	4.76E-02	0.0681	4.65E+04	7.9428	104.235	3.619	-0.545	0.06	25.4481	0.00E+00
10/12/2019	9:37:07 AM	3.69	18.2462	35.3086	0.6133	4.76E-02	0.0635	4.65E+04	7.9392	104.183	3.735	-0.56	0.07	25.4481	0.00E+00
10/12/2019	9:35:49 AM	3.793	18.2721	35.3024	0.5026	4.76E-02	0.0837	4.65E+04	7.8904	103.421	3.685	0.933	0.24	25.4346	0.00E+00
10/12/2019	9:37:06 AM	3.834	18.2446	35.3082	0.5888	4.76E-02	0.0635	4.65E+04	7.9331	104.101	3.852	-0.578	0.05	25.4481	0.00E+00
10/12/2019	9:37:06 AM	3.977	18.2433	35.3079	0.5881	4.76E-02	0.0681	4.65E+04	7.9267	104.018	4.006	-0.591	0.11	25.4481	0.00E+00
10/12/2019	9:35:49 AM	4.065	18.2688	35.3019	0.5042	4.76E-02	0.093	4.65E+04	7.8937	103.454	3.994	1.001	0.27	25.435	0.00E+00

10/12/2019	9:37:06 AM	4.121	18.2421	35.3079	0.5888	4.76E-02	0.0619	4.65E+04	7.9209	103.944	4.131	-0.619	0.12	25.4484	0.00E+00
10/12/2019	9:37:05 AM	4.265	18.2411	35.3083	0.5873	4.76E-02	0.0681	4.65E+04	7.9105	103.808	4.266	-0.648	0.01	25.449	0.00E+00
10/12/2019	9:35:50 AM	4.343	18.2656	35.3018	0.5057	4.76E-02	0.0914	4.65E+04	7.9007	103.537	4.331	1.072	0.29	25.4357	0.00E+00
10/12/2019	9:37:05 AM	4.41	18.24	35.309	0.6232	4.76E-02	0.0417	4.65E+04	7.9055	103.734	4.443	-0.651	-0.06	25.45	0.00E+00
10/12/2019	9:37:05 AM	4.555	18.2387	35.3097	0.6239	4.76E-02	0.0386	4.65E+04	7.8976	103.62	4.567	-0.637	-0.1	25.4511	0.00E+00
10/12/2019	9:35:50 AM	4.624	18.2626	35.3019	0.5522	4.76E-02	0.065	4.65E+04	7.8993	103.509	4.668	1.138	0.26	25.4366	0.00E+00
10/12/2019	9:37:05 AM	4.702	18.2369	35.3097	0.6239	4.76E-02	0.0448	4.65E+04	7.8956	103.581	4.679	-0.611	-0.17	25.4516	0.00E+00
10/12/2019	9:37:05 AM	4.85	18.2347	35.3088	0.6247	4.76E-02	0.0448	4.65E+04	7.8916	103.524	4.855	-0.568	-0.19	25.4513	0.00E+00
10/12/2019	9:35:50 AM	4.903	18.26	35.3023	0.5522	4.76E-02	0.065	4.65E+04	7.9006	103.518	4.985	1.192	0.21	25.4377	0.00E+00
10/12/2019	9:37:04 AM	5	18.2326	35.3078	0.6247	4.76E-02	0.0433	4.65E+04	7.8857	103.445	5.033	-0.521	-0.14	25.4509	0.00E+00
10/12/2019	9:37:04 AM	5.15	18.2308	35.3073	0.6384	4.76E-02	0.0635	4.65E+04	7.8848	103.432	5.192	-0.487	0.01	25.4507	0.00E+00
10/12/2019	9:35:50 AM	5.18	18.2577	35.3029	0.5507	4.76E-02	0.0712	4.65E+04	7.8976	103.474	5.286	1.229	0.15	25.4389	0.00E+00
10/12/2019	9:37:04 AM	5.298	18.2296	35.3071	0.6339	4.76E-02	0.0681	4.65E+04	7.8876	103.468	5.39	-0.488	0.14	25.4509	0.00E+00
10/12/2019	9:37:04 AM	5.442	18.2285	35.3073	0.6361	4.76E-02	0.0681	4.65E+04	7.8912	103.512	5.584	-0.524	0.17	25.4514	0.00E+00
10/12/2019	9:35:51 AM	5.451	18.2554	35.3034	0.556	4.76E-02	0.0712	4.65E+04	7.8943	103.429	5.578	1.251	0.09	25.4399	0.00E+00
10/12/2019	9:37:03 AM	5.581	18.2275	35.3077	0.63	4.76E-02	0.065	4.65E+04	7.8974	103.587	5.681	-0.566	0.07	25.452	0.00E+00
10/12/2019	9:37:03 AM	5.716	18.2263	35.3081	0.6247	4.76E-02	0.0417	4.65E+04	7.9076	103.711	5.75	-0.583	0	25.4527	0.00E+00
10/12/2019	9:35:51 AM	5.717	18.2532	35.3034	0.5621	4.76E-02	0.0914	4.65E+04	7.8887	103.352	5.841	1.248	-0.01	25.4406	0.00E+00
10/12/2019	9:37:03 AM	5.85	18.2249	35.3084	0.6255	4.76E-02	0.0448	4.65E+04	7.9155	103.804	5.878	-0.583	-0.04	25.4534	0.00E+00
10/12/2019	9:35:51 AM	5.977	18.2508	35.3032	0.5652	4.76E-02	0.0961	4.65E+04	7.8876	103.334	6.099	1.221	-0.11	25.441	0.00E+00
10/12/2019	9:37:02 AM	5.984	18.2232	35.3083	0.6216	4.76E-02	0.0433	4.65E+04	7.9212	103.876	5.999	-0.573	-0.11	25.4538	0.00E+00
10/12/2019	9:37:02 AM	6.12	18.2214	35.3078	0.6255	4.76E-02	0.0386	4.65E+04	7.9249	103.921	6.096	-0.546	-0.17	25.4538	0.00E+00
10/12/2019	9:35:52 AM	6.231	18.2484	35.303	0.5644	4.76E-02	0.0945	4.65E+04	7.8917	103.384	6.355	1.179	-0.17	25.4413	0.00E+00
10/12/2019	9:37:02 AM	6.259	18.2197	35.3073	0.6262	4.76E-02	0.093	4.65E+04	7.9329	104.023	6.232	-0.504	-0.14	25.4537	0.00E+00
10/12/2019	9:37:02 AM	6.4	18.2182	35.307	0.6232	4.76E-02	0.0899	4.65E+04	7.9305	103.988	6.465	-0.468	-0.02	25.4537	0.00E+00
10/12/2019	9:35:52 AM	6.48	18.2457	35.3026	0.569	4.76E-02	0.093	4.65E+04	7.894	103.411	6.585	1.124	-0.22	25.4416	0.00E+00
10/12/2019	9:37:02 AM	6.54	18.2169	35.3069	0.6224	4.76E-02	0.0883	4.65E+04	7.9327	104.015	6.664	-0.463	0.09	25.4539	0.00E+00
10/12/2019	9:37:01 AM	6.676	18.2157	35.307	0.6262	4.76E-02	0.0914	4.65E+04	7.9323	104.007	6.766	-0.486	0.17	25.4543	0.00E+00
10/12/2019	9:35:52 AM	6.725	18.2429	35.3021	0.5774	4.76E-02	0.065	4.65E+04	7.8983	103.465	6.801	1.066	-0.23	25.4419	0.00E+00
10/12/2019	9:37:01 AM	6.809	18.2146	35.3072	0.6751	4.76E-02	0.0386	4.65E+04	7.9293	103.967	6.847	-0.529	0.19	25.4548	0.00E+00
10/12/2019	9:37:01 AM	6.941	18.2133	35.3074	0.6728	4.76E-02	0.0417	4.65E+04	7.9274	103.941	6.984	-0.576	0.19	25.4554	0.00E+00
10/12/2019	9:35:52 AM	6.968	18.2401	35.3018	0.5789	4.76E-02	0.0712	4.65E+04	7.9008	103.496	7.037	1.019	-0.19	25.4423	0.00E+00
10/12/2019	9:37:00 AM	7.073	18.2119	35.3076	0.6728	4.76E-02	0.0433	4.65E+04	7.9236	103.89	7.097	-0.623	0.16	25.456	0.00E+00
10/12/2019	9:37:00 AM	7.206	18.2104	35.3077	0.6735	4.76E-02	0.0479	4.65E+04	7.9209	103.852	7.189	-0.662	0.1	25.4564	0.00E+00
10/12/2019	9:35:52 AM	7.208	18.2374	35.3018	0.5782	4.76E-02	0.0728	4.65E+04	7.9065	103.57	7.278	0.983	-0.14	25.443	0.00E+00
10/12/2019	9:37:00 AM	7.343	18.2087	35.3078	0.672	4.76E-02	0.0479	4.65E+04	7.9201	103.836	7.308	-0.688	-0.01	25.457	0.00E+00
10/12/2019	9:35:53 AM	7.446	18.2348	35.3019	0.5766	4.76E-02	0.0681	4.65E+04	7.9154	103.685	7.541	0.965	-0.07	25.4438	0.00E+00
10/12/2019	9:37:00 AM	7.484	18.207	35.3081	0.6827	4.76E-02	0.1318	4.65E+04	7.9225	103.861	7.465	-0.685	-0.11	25.4576	0.00E+00
10/12/2019	9:37:00 AM	7.629	18.2052	35.308	0.6827	4.76E-02	0.1381	4.65E+04	7.9222	103.849	7.595	-0.657	-0.16	25.458	0.00E+00
10/12/2019	9:35:53 AM	7.681	18.2323	35.3021	0.5843	4.76E-02	0.0712	4.65E+04	7.9193	103.733	7.793	0.962	-0.01	25.4446	0.00E+00
10/12/2019	9:36:59 AM	7.778	18.2032	35.3075	0.685	4.76E-02	0.135	4.65E+04	7.9242	103.874	7.733	-0.618	-0.15	25.458	0.00E+00
10/12/2019	9:35:53 AM	7.912	18.2295	35.302	0.5881	4.76E-02	0.0681	4.65E+04	7.9227	103.774	8.014	0.958	-0.02	25.4452	0.00E+00
10/12/2019	9:36:59 AM	7.932	18.2013	35.3068	0.6865	4.76E-02	0.1272	4.65E+04	7.9236	103.866	7.95	-0.581	-0.07	25.4578	0.00E+00
10/12/2019	9:36:59 AM	8.088	18.1997	35.3063	0.6865	4.76E-02	0.093	4.65E+04	7.926	103.897	8.161	-0.563	0.01	25.4577	0.00E+00
10/12/2019	9:35:54 AM	8.14	18.2265	35.3015	0.5904	4.76E-02	0.0635	4.65E+04	7.9206	103.742	8.214	0.947	-0.04	25.4454	0.00E+00
10/12/2019	9:36:58 AM	8.243	18.1985	35.3063	0.685	4.76E-02	0.093	4.65E+04	7.9231	103.858	8.317	-0.566	0.1	25.458	0.00E+00
10/12/2019	9:35:54 AM	8.366	18.2233	35.301	0.5888	4.76E-02	0.0728	4.65E+04	7.924	103.784	8.416	0.936	-0.05	25.4457	0.00E+00
10/12/2019	9:36:58 AM	8.396	18.1975	35.3067	0.6834	4.76E-02	0.0914	4.65E+04	7.92	103.815	8.478	-0.591	0.15	25.4586	0.00E+00
10/12/2019	9:36:58 AM	8.546	18.1964	35.3072	0.685	4.76E-02	0.0914	4.65E+04	7.9155	103.752	8.659	-0.63	0.15	25.4594	0.00E+00
10/12/2019	9:35:54 AM	8.591	18.2199	35.3007	0.5896	4.76E-02	0.0681	4.65E+04	7.9235	103.776	8.627	0.919	-0.07	25.4462	0.00E+00
10/12/2019	9:36:58 AM	8.694	18.1951	35.3077	0.6857	4.76E-02	0.0728	4.65E+04	7.9127	103.711	8.772	-0.667	0	25.4602	0.00E+00

10/12/2019	9:35:54 AM	8.817	18.2161	35.3002	0.6163	4.76E-02	0.065	4.65E+04	7.9198	103.723	8.878	0.905	-0.06	25.4466	0.00E+00
10/12/2019	9:36:58 AM	8.84	18.1935	35.3078	0.6827	4.76E-02	0.0681	4.65E+04	7.9129	103.709	8.847	-0.667	-0.18	25.4608	0.00E+00
10/12/2019	9:36:57 AM	8.988	18.1917	35.3077	0.6834	4.76E-02	0.0635	4.65E+04	7.9108	103.677	8.986	-0.622	-0.16	25.4611	0.00E+00
10/12/2019	9:35:54 AM	9.041	18.2122	35.2995	0.6125	4.76E-02	0.0666	4.65E+04	7.9208	103.73	9.153	0.906	0	25.447	0.00E+00
10/12/2019	9:36:57 AM	9.138	18.1899	35.3073	0.6865	4.76E-02	0.0619	4.65E+04	7.9141	103.718	9.171	-0.581	-0.12	25.4612	0.00E+00
10/12/2019	9:35:55 AM	9.262	18.2086	35.2995	0.6133	4.76E-02	0.0681	4.65E+04	7.9171	103.675	9.413	0.914	0.03	25.4479	0.00E+00
10/12/2019	9:36:57 AM	9.289	18.1882	35.3068	0.7201	4.76E-02	0.0635	4.64E+04	7.9163	103.745	9.332	-0.551	-0.13	25.4611	0.00E+00
10/12/2019	9:36:57 AM	9.442	18.1866	35.3061	0.7178	4.76E-02	0.0666	4.64E+04	7.9205	103.798	9.491	-0.52	-0.09	25.4608	0.00E+00
10/12/2019	9:35:55 AM	9.477	18.2056	35.3002	0.6148	4.76E-02	0.0712	4.65E+04	7.9189	103.693	9.606	0.919	0.02	25.4494	0.00E+00
10/12/2019	9:36:56 AM	9.593	18.1853	35.3059	0.7224	4.76E-02	0.0681	4.64E+04	7.9259	103.869	9.71	-0.498	0.09	25.4609	0.00E+00
10/12/2019	9:35:55 AM	9.688	18.2032	35.3012	0.6705	4.76E-02	0.0666	4.65E+04	7.9162	103.654	9.775	0.916	-0.01	25.451	0.00E+00
10/12/2019	9:36:56 AM	9.741	18.1843	35.3062	0.7216	4.76E-02	0.0681	4.64E+04	7.9281	103.894	9.908	-0.521	0.17	25.4615	0.00E+00
10/12/2019	9:36:56 AM	9.883	18.1833	35.3066	0.7201	4.76E-02	0.0666	4.64E+04	7.9272	103.88	10.034	-0.563	0.14	25.4622	0.00E+00
10/12/2019	9:35:56 AM	9.897	18.2011	35.3021	0.6712	4.76E-02	0.0743	4.65E+04	7.9179	103.674	9.945	0.9	-0.07	25.4525	0.00E+00
10/12/2019	9:36:55 AM	10.019	18.1821	35.3069	0.7407	4.76E-02	0.0961	4.64E+04	7.9256	103.855	10.1	-0.597	0.03	25.4628	0.00E+00
10/12/2019	9:35:56 AM	10.107	18.1992	35.3027	0.6728	4.76E-02	0.0712	4.65E+04	7.9158	103.64	10.117	0.867	-0.13	25.4536	0.00E+00
10/12/2019	9:36:55 AM	10.155	18.1806	35.307	0.7475	4.76E-02	0.093	4.64E+04	7.9271	103.872	10.168	-0.603	-0.13	25.4633	0.00E+00
10/12/2019	9:36:55 AM	10.291	18.179	35.3072	0.746	4.76E-02	0.0899	4.64E+04	7.9271	103.868	10.339	-0.572	-0.15	25.4639	0.00E+00
10/12/2019	9:35:56 AM	10.318	18.1973	35.303	0.6728	4.76E-02	0.0681	4.65E+04	7.9192	103.655	10.322	0.829	-0.15	25.4543	0.00E+00
10/12/2019	9:36:55 AM	10.428	18.1773	35.3075	0.7414	4.76E-02	0.0945	4.64E+04	7.9312	103.918	10.487	-0.534	-0.18	25.4646	0.00E+00
10/12/2019	9:35:56 AM	10.533	18.1957	35.3032	0.6674	4.76E-02	0.0386	4.65E+04	7.926	103.69	10.567	0.801	-0.12	25.4549	0.00E+00
10/12/2019	9:36:55 AM	10.565	18.1755	35.3073	0.7239	4.76E-02	0.0868	4.64E+04	7.9307	103.907	10.608	-0.488	-0.21	25.4649	0.00E+00
10/12/2019	9:36:54 AM	10.703	18.1735	35.3068	0.7208	4.76E-02	0.0945	4.64E+04	7.9341	103.945	10.767	-0.435	-0.15	25.4649	0.00E+00
10/12/2019	9:35:56 AM	10.749	18.1943	35.3035	0.6735	4.76E-02	0.0417	4.65E+04	7.931	103.678	10.796	0.787	-0.05	25.4556	0.00E+00
10/12/2019	9:36:54 AM	10.839	18.1717	35.3063	0.7201	4.76E-02	0.0914	4.64E+04	7.9325	103.921	10.977	-0.398	0	25.4648	0.00E+00
10/12/2019	9:35:57 AM	10.966	18.193	35.3038	0.6751	4.76E-02	0.0433	4.65E+04	7.9331	103.625	11.01	0.795	0.03	25.4563	0.00E+00
10/12/2019	9:36:54 AM	10.972	18.1702	35.3063	0.7201	4.76E-02	0.0899	4.64E+04	7.9284	103.868	11.119	-0.398	0.11	25.4651	0.00E+00
10/12/2019	9:36:53 AM	11.099	18.169	35.3069	0.6979	4.76E-02	0.0635	4.64E+04	7.9232	103.8	11.236	-0.426	0.18	25.466	0.00E+00
10/12/2019	9:35:57 AM	11.185	18.1919	35.3041	0.6728	4.76E-02	0.0433	4.65E+04	7.9352	103.571	11.225	0.822	0.11	25.4568	0.00E+00
10/12/2019	9:36:53 AM	11.222	18.1676	35.3078	0.6934	4.76E-02	0.0635	4.64E+04	7.9232	103.799	11.349	-0.47	0.21	25.4672	0.00E+00
10/12/2019	9:36:53 AM	11.342	18.166	35.3086	0.6972	4.76E-02	0.0681	4.64E+04	7.9248	103.816	11.434	-0.522	0.17	25.4684	0.00E+00
10/12/2019	9:35:57 AM	11.404	18.1907	35.3042	0.6728	4.76E-02	0.0899	4.65E+04	7.9382	103.507	11.442	0.851	0.12	25.4572	0.00E+00
10/12/2019	9:36:53 AM	11.459	18.1639	35.3089	0.6995	4.76E-02	0.065	4.64E+04	7.924	103.801	11.514	-0.565	0.08	25.4693	0.00E+00
10/12/2019	9:36:53 AM	11.577	18.1614	35.3089	0.7185	4.76E-02	0.093	4.64E+04	7.9244	103.802	11.593	-0.584	-0.02	25.4699	0.00E+00
10/12/2019	9:35:57 AM	11.625	18.1893	35.304	0.672	4.76E-02	0.0899	4.65E+04	7.9384	103.387	11.659	0.872	0.08	25.4574	0.00E+00
10/12/2019	9:36:52 AM	11.698	18.1589	35.3093	0.7193	4.76E-02	0.0914	4.64E+04	7.9233	103.783	11.688	-0.579	-0.11	25.471	0.00E+00
10/12/2019	9:36:52 AM	11.823	18.1563	35.3103	0.7201	4.76E-02	0.0837	4.64E+04	7.9252	103.805	11.822	-0.552	-0.13	25.4726	0.00E+00
10/12/2019	9:35:58 AM	11.848	18.1877	35.3036	0.672	4.76E-02	0.0945	4.65E+04	7.9372	103.262	11.912	0.891	0.08	25.4574	0.00E+00
10/12/2019	9:36:52 AM	11.952	18.1535	35.3107	0.7216	4.76E-02	0.0883	4.64E+04	7.9292	103.853	11.962	-0.519	-0.1	25.4738	0.00E+00
10/12/2019	9:35:58 AM	12.07	18.1859	35.3032	0.6728	4.76E-02	0.0883	4.65E+04	7.9342	103.142	12.164	0.904	0.05	25.4574	0.00E+00
10/12/2019	9:36:51 AM	12.085	18.1501	35.3106	0.7208	4.76E-02	0.0914	4.64E+04	7.929	103.848	12.136	-0.494	-0.01	25.4745	0.00E+00
10/12/2019	9:36:51 AM	12.218	18.1467	35.3105	0.7452	4.76E-02	0.0899	4.64E+04	7.9285	103.843	12.304	-0.492	0.06	25.4753	0.00E+00
10/12/2019	9:35:58 AM	12.292	18.1841	35.3031	0.6766	4.76E-02	0.0868	4.64E+04	7.9305	103.026	12.385	0.908	0.01	25.4577	0.00E+00
10/12/2019	9:36:51 AM	12.35	18.1433	35.3103	0.7445	4.76E-02	0.0852	4.64E+04	7.9287	103.844	12.459	-0.506	0.09	25.4759	0.00E+00
10/12/2019	9:36:51 AM	12.48	18.14	35.3105	0.7437	4.76E-02	0.1008	4.64E+04	7.9301	103.859	12.594	-0.528	0.1	25.4768	0.00E+00
10/12/2019	9:35:59 AM	12.512	18.1821	35.3031	0.7109	4.76E-02	0.0899	4.64E+04	7.9286	102.911	12.593	0.911	0.01	25.4582	0.00E+00
10/12/2019	9:36:50 AM	12.608	18.1368	35.3116	0.7422	4.76E-02	0.093	4.64E+04	7.9323	103.885	12.699	-0.553	0.06	25.4786	0.00E+00
10/12/2019	9:35:59 AM	12.732	18.1798	35.3031	0.7094	4.76E-02	0.0868	4.64E+04	7.922	102.744	12.788	0.907	-0.01	25.4586	0.00E+00
10/12/2019	9:36:50 AM	12.734	18.1334	35.3135	0.7452	4.76E-02	0.1101	4.64E+04	7.9283	103.829	12.803	-0.567	-0.01	25.4813	0.00E+00
10/12/2019	9:36:50 AM	12.861	18.1295	35.3164	0.7468	4.76E-02	0.1225	4.64E+04	7.929	103.834	12.906	-0.563	-0.12	25.4852	0.00E+00
10/12/2019	9:35:59 AM	12.952	18.177	35.3027	0.7102	4.76E-02	0.093	4.64E+04	7.917	102.606	12.984	0.895	-0.05	25.4588	0.00E+00

10/12/2019	9:36:50 AM	12.989	18.1245	35.3201	0.7437	4.76E-02	0.1194	4.64E+04	7.9285	103.824	13.021	-0.534	-0.18	25.4901	0.00E+00
10/12/2019	9:36:50 AM	13.119	18.118	35.3234	0.7445	4.76E-02	0.1148	4.64E+04	7.9291	103.826	13.175	-0.49	-0.14	25.4952	0.00E+00
10/12/2019	9:35:59 AM	13.175	18.1734	35.3018	0.7086	4.76E-02	0.093	4.64E+04	7.9134	102.481	13.206	0.881	-0.05	25.4587	0.00E+00
10/12/2019	9:36:49 AM	13.25	18.1095	35.3269	0.807	4.76E-02	0.0681	4.64E+04	7.9246	103.763	13.346	-0.455	-0.09	25.5009	0.00E+00
10/12/2019	9:36:49 AM	13.379	18.0992	35.331	0.804	4.76E-02	0.0712	4.64E+04	7.9256	103.774	13.501	-0.434	-0.04	25.5077	0.00E+00
10/12/2019	9:35:59 AM	13.4	18.1692	35.3009	0.7094	4.76E-02	0.0619	4.64E+04	7.9082	102.345	13.44	0.87	-0.04	25.4587	0.00E+00
10/12/2019	9:36:49 AM	13.506	18.0868	35.3342	0.804	4.76E-02	0.0681	4.64E+04	7.9203	103.706	13.632	-0.423	-0.03	25.514	0.00E+00
10/12/2019	9:36:00 AM	13.628	18.164	35.2999	0.7063	4.76E-02	0.0681	4.64E+04	7.8981	102.161	13.662	0.858	-0.05	25.4588	0.00E+00
10/12/2019	9:36:48 AM	13.63	18.0723	35.3355	0.8063	4.76E-02	0.0619	4.63E+04	7.9254	103.772	13.772	-0.415	-0.01	25.519	0.00E+00
10/12/2019	9:36:48 AM	13.749	18.0565	35.3369	0.8521	4.76E-02	0.1132	4.63E+04	7.9265	103.782	13.893	-0.412	0	25.5243	0.00E+00
10/12/2019	9:36:00 AM	13.858	18.1571	35.2985	0.7102	4.76E-02	0.0728	4.64E+04	7.8808	101.912	13.875	0.852	-0.02	25.4588	0.00E+00
10/12/2019	9:36:48 AM	13.865	18.0405	35.3416	0.8543	4.76E-02	0.1148	4.63E+04	7.929	103.809	13.995	-0.413	0.03	25.5327	0.00E+00
10/12/2019	9:36:48 AM	13.978	18.0235	35.3469	0.8513	4.76E-02	0.1163	4.63E+04	7.9332	103.858	14.069	-0.422	0.01	25.5419	0.00E+00
10/12/2019	9:36:48 AM	14.09	18.0043	35.348	0.8536	4.76E-02	0.1085	4.63E+04	7.9371	103.905	14.158	-0.425	0.01	25.548	0.00E+00
10/12/2019	9:36:00 AM	14.092	18.1472	35.2956	0.7094	4.76E-02	0.0666	4.64E+04	7.8639	101.682	14.098	0.86	0.03	25.4579	0.00E+00
10/12/2019	9:36:47 AM	14.202	17.9832	35.3458	0.8521	4.76E-02	0.1194	4.63E+04	7.9409	103.951	14.287	-0.427	0.05	25.551	0.00E+00
10/12/2019	9:36:47 AM	14.314	17.9623	35.3425	0.8872	4.76E-02	0.0666	4.62E+04	7.9476	104.032	14.399	-0.439	0.07	25.5527	0.00E+00
10/12/2019	9:36:01 AM	14.33	18.1322	35.2903	0.7407	4.76E-02	0.065	4.64E+04	7.8457	101.439	14.339	0.877	0.07	25.4555	0.00E+00
10/12/2019	9:36:47 AM	14.425	17.9433	35.3415	0.8925	4.76E-02	0.0681	4.62E+04	7.9466	104.012	14.509	-0.456	0.1	25.5562	0.00E+00
10/12/2019	9:36:46 AM	14.536	17.9262	35.3472	0.8902	4.76E-02	0.0681	4.62E+04	7.9437	103.963	14.608	-0.48	0.09	25.5655	0.00E+00
10/12/2019	9:36:01 AM	14.572	18.1102	35.2815	0.7445	4.76E-02	0.0681	4.64E+04	7.8315	101.241	14.584	0.898	0.08	25.4512	0.00E+00
10/12/2019	9:36:46 AM	14.648	17.909	35.3561	0.8902	4.76E-02	0.0681	4.62E+04	7.9396	103.906	14.699	-0.502	0.08	25.5785	0.00E+00
10/12/2019	9:36:46 AM	14.762	17.8885	35.3623	0.9566	4.76E-02	0.0914	4.62E+04	7.9373	103.867	14.791	-0.522	0.02	25.5901	0.00E+00
10/12/2019	9:36:01 AM	14.818	18.0807	35.2695	0.7475	4.76E-02	0.0588	4.64E+04	7.8184	101.055	14.859	0.924	0.11	25.4457	0.00E+00
10/12/2019	9:36:46 AM	14.879	17.8636	35.3651	0.9612	4.76E-02	0.0914	4.61E+04	7.9352	103.837	14.918	-0.527	0	25.5995	0.00E+00
10/12/2019	9:36:46 AM	14.998	17.8355	35.3642	0.9558	4.76E-02	0.0961	4.61E+04	7.9333	103.809	15.036	-0.528	0.01	25.6057	0.00E+00
10/12/2019	9:36:01 AM	15.067	18.0451	35.2575	0.7468	4.76E-02	0.0681	4.63E+04	7.8096	100.903	15.144	0.954	0.12	25.442	0.00E+00
10/12/2019	9:36:45 AM	15.12	17.8063	35.3621	0.9558	4.76E-02	0.0883	4.61E+04	7.9338	103.81	15.159	-0.53	0.02	25.6107	0.00E+00
10/12/2019	9:36:45 AM	15.245	17.778	35.3602	1.0184	4.76E-02	0.0666	4.60E+04	7.9382	103.862	15.289	-0.535	0.04	25.6154	0.00E+00
10/12/2019	9:36:01 AM	15.317	18.005	35.2487	0.7452	4.76E-02	0.1116	4.63E+04	7.8077	100.832	15.41	0.985	0.12	25.4426	0.00E+00
10/12/2019	9:36:45 AM	15.373	17.7513	35.3567	1.0184	4.76E-02	0.0681	4.60E+04	7.9397	103.868	15.419	-0.545	0.05	25.6184	0.00E+00
10/12/2019	9:36:44 AM	15.503	17.726	35.352	1.0153	4.76E-02	0.0712	4.60E+04	7.9395	103.85	15.561	-0.559	0.08	25.6198	0.00E+00
10/12/2019	9:36:02 AM	15.566	17.9609	35.2424	0.7948	4.76E-02	0.1179	4.62E+04	7.8033	100.731	15.674	1.017	0.13	25.4466	0.00E+00
10/12/2019	9:36:44 AM	15.635	17.7027	35.3464	1.0146	4.76E-02	0.0681	4.60E+04	7.9413	103.846	15.691	-0.579	0.1	25.6198	0.00E+00
10/12/2019	9:36:44 AM	15.768	17.6822	35.3445	1.0191	4.76E-02	0.1754	4.60E+04	7.9405	103.814	15.841	-0.603	0.1	25.6225	0.00E+00
10/12/2019	9:36:02 AM	15.814	17.9132	35.2364	0.7948	4.76E-02	0.1179	4.62E+04	7.7981	100.629	15.931	1.044	0.1	25.4519	0.00E+00
10/12/2019	9:36:44 AM	15.903	17.6645	35.3494	1.0153	4.76E-02	0.1878	4.59E+04	7.9435	103.811	15.957	-0.629	0.05	25.6312	0.00E+00
10/12/2019	9:36:43 AM	16.04	17.6473	35.3566	1.0191	4.76E-02	0.1847	4.59E+04	7.9543	103.925	16.071	-0.642	-0.03	25.6423	0.00E+00
10/12/2019	9:36:02 AM	16.061	17.8643	35.2311	0.7925	4.76E-02	0.1132	4.61E+04	7.7935	100.555	16.175	1.054	0.04	25.4587	0.00E+00
10/12/2019	9:36:43 AM	16.18	17.6276	35.3619	1.0207	4.76E-02	0.1862	4.59E+04	7.9601	103.97	16.221	-0.635	-0.07	25.6525	0.00E+00
10/12/2019	9:36:03 AM	16.305	17.8173	35.2303	0.7895	4.76E-02	0.121	4.61E+04	7.7885	100.487	16.439	1.056	0.01	25.4698	0.00E+00
10/12/2019	9:36:43 AM	16.324	17.6045	35.3631	1.0199	4.76E-02	0.1847	4.59E+04	7.9683	104.049	16.373	-0.618	-0.11	25.6595	0.00E+00
10/12/2019	9:36:43 AM	16.469	17.5794	35.3606	1.126	4.76E-02	0.4318	4.59E+04	7.9749	104.097	16.532	-0.592	-0.1	25.6632	0.00E+00
10/12/2019	9:36:03 AM	16.547	17.7736	35.2359	0.8902	4.76E-02	0.0681	4.60E+04	7.7839	100.417	16.705	1.054	-0.01	25.4862	0.00E+00
10/12/2019	9:36:43 AM	16.617	17.5545	35.3572	1.126	4.76E-02	0.4225	4.58E+04	7.9809	104.106	16.694	-0.567	-0.07	25.6656	0.00E+00
10/12/2019	9:36:42 AM	16.765	17.5314	35.3539	1.126	4.76E-02	0.4256	4.58E+04	7.978	104.031	16.86	-0.55	-0.01	25.6675	0.00E+00
10/12/2019	9:36:03 AM	16.785	17.7319	35.2433	0.8902	4.76E-02	0.0666	4.60E+04	7.782	100.38	16.95	1.041	-0.05	25.5034	0.00E+00
10/12/2019	9:36:42 AM	16.914	17.5108	35.3505	1.1282	4.76E-02	0.4256	4.58E+04	7.9705	103.9	17.037	-0.547	0.05	25.6686	0.00E+00
10/12/2019	9:36:03 AM	17.019	17.691	35.2471	0.8872	4.76E-02	0.0712	4.60E+04	7.7829	100.366	17.195	1.026	-0.06	25.517	0.00E+00
10/12/2019	9:36:42 AM	17.06	17.4926	35.347	1.0893	4.76E-02	0.4831	4.58E+04	7.9632	103.789	17.191	-0.558	0.09	25.6692	0.00E+00
10/12/2019	9:36:41 AM	17.205	17.4768	35.344	1.0932	4.76E-02	0.48	4.58E+04	7.9442	103.523	17.338	-0.581	0.08	25.6696	0.00E+00

10/12/2019	9:36:04 AM	17.247	17.6519	35.2492	0.8925	4.76E-02	0.0681	4.59E+04	7.7821	100.324	17.421	1.012	-0.06	25.5288	0.00E+00
10/12/2019	9:36:41 AM	17.347	17.4635	35.3425	1.0901	4.76E-02	0.4753	4.57E+04	7.9379	103.415	17.463	-0.601	-0.01	25.671	0.00E+00
10/12/2019	9:36:04 AM	17.471	17.6155	35.2541	1.0062	4.76E-02	0.1287	4.59E+04	7.7916	100.374	17.63	0.99	-0.09	25.5426	0.00E+00
10/12/2019	9:36:41 AM	17.488	17.4522	35.3433	1.0886	4.76E-02	0.4753	4.57E+04	7.9281	103.201	17.587	-0.599	-0.05	25.6741	0.00E+00
10/12/2019	9:36:41 AM	17.63	17.4419	35.3465	1.1382	4.76E-02	0.5996	4.57E+04	7.921	103.05	17.703	-0.586	-0.1	25.6796	0.00E+00
10/12/2019	9:36:04 AM	17.691	17.5823	35.2607	1.0054	4.76E-02	0.1318	4.59E+04	7.7927	100.326	17.829	0.961	-0.12	25.5572	0.00E+00
10/12/2019	9:36:41 AM	17.772	17.4313	35.3506	1.1374	4.76E-02	0.6074	4.57E+04	7.923	103	17.845	-0.562	-0.08	25.6861	0.00E+00
10/12/2019	9:36:04 AM	17.909	17.5536	35.2678	1.0077	4.76E-02	0.1365	4.58E+04	7.7982	100.324	18.029	0.927	-0.13	25.5715	0.00E+00
10/12/2019	9:36:40 AM	17.916	17.4191	35.3539	1.1382	4.76E-02	0.6043	4.57E+04	7.9099	102.777	17.998	-0.542	-0.05	25.6925	0.00E+00
10/12/2019	9:36:40 AM	18.061	17.405	35.356	1.142	4.76E-02	0.5996	4.57E+04	7.9005	102.614	18.169	-0.529	0.02	25.6979	0.00E+00
10/12/2019	9:36:04 AM	18.125	17.5309	35.2778	1.0054	4.76E-02	0.1287	4.58E+04	7.8035	100.319	18.247	0.893	-0.14	25.5873	0.00E+00
10/12/2019	9:36:40 AM	18.205	17.3894	35.3554	1.1626	4.76E-02	0.7348	4.57E+04	7.8854	102.35	18.329	-0.535	0.07	25.701	0.00E+00
10/12/2019	9:36:05 AM	18.34	17.5138	35.2902	1.0382	4.76E-02	0.3789	4.58E+04	7.7949	100.115	18.444	0.862	-0.13	25.6037	0.00E+00
10/12/2019	9:36:39 AM	18.348	17.3734	35.3526	1.1656	4.76E-02	0.7255	4.57E+04	7.8754	102.184	18.504	-0.553	0.14	25.7019	0.00E+00
10/12/2019	9:36:39 AM	18.488	17.3586	35.3511	1.1641	4.76E-02	0.7224	4.56E+04	7.8637	101.994	18.635	-0.588	0.13	25.7038	0.00E+00
10/12/2019	9:36:05 AM	18.555	17.5005	35.3009	1.0436	4.76E-02	0.3836	4.58E+04	7.7842	99.897	18.646	0.839	-0.09	25.6175	0.00E+00
10/12/2019	9:36:39 AM	18.626	17.3458	35.3538	1.1656	4.76E-02	0.7271	4.56E+04	7.8465	101.757	18.724	-0.621	0.04	25.709	0.00E+00
10/12/2019	9:36:39 AM	18.764	17.3338	35.3589	1.1633	4.76E-02	0.7271	4.56E+04	7.8317	101.557	18.84	-0.631	-0.07	25.7168	0.00E+00
10/12/2019	9:36:05 AM	18.771	17.4883	35.3074	1.042	4.76E-02	0.3789	4.58E+04	7.7636	99.57	18.863	0.826	-0.05	25.6266	0.00E+00
10/12/2019	9:36:39 AM	18.904	17.3203	35.3629	1.1649	4.76E-02	0.8001	4.56E+04	7.8179	101.332	18.966	-0.615	-0.15	25.724	0.00E+00
10/12/2019	9:36:06 AM	18.987	17.4756	35.3094	1.0451	4.76E-02	0.3758	4.58E+04	7.7417	99.244	19.096	0.83	0.01	25.6314	0.00E+00
10/12/2019	9:36:38 AM	19.045	17.3045	35.3638	1.1611	4.76E-02	0.7954	4.56E+04	7.8276	101.396	19.12	-0.576	-0.17	25.729	0.00E+00
10/12/2019	9:36:38 AM	19.189	17.2871	35.3624	1.1656	4.76E-02	0.8048	4.56E+04	7.8137	101.16	19.276	-0.534	-0.14	25.7318	0.00E+00
10/12/2019	9:36:06 AM	19.203	17.461	35.3082	1.0428	4.76E-02	0.64	4.58E+04	7.7196	98.931	19.33	0.844	0.06	25.6334	0.00E+00
10/12/2019	9:36:38 AM	19.334	17.2695	35.3609	1.1611	4.76E-02	0.8032	4.56E+04	7.8139	101.095	19.452	-0.5	-0.04	25.7345	0.00E+00
10/12/2019	9:36:06 AM	19.418	17.4441	35.305	1.1145	4.76E-02	0.7271	4.57E+04	7.6969	98.599	19.566	0.864	0.08	25.634	0.00E+00
10/12/2019	9:36:37 AM	19.478	17.2531	35.3617	1.1756	4.76E-02	0.8017	4.55E+04	7.7992	100.872	19.617	-0.49	0.02	25.7388	0.00E+00
10/12/2019	9:36:37 AM	19.62	17.2377	35.3645	1.1801	4.76E-02	0.8032	4.55E+04	7.8062	100.919	19.785	-0.495	0.05	25.7451	0.00E+00
10/12/2019	9:36:06 AM	19.63	17.4262	35.3015	1.1145	4.76E-02	0.7286	4.57E+04	7.6727	98.228	19.8	0.884	0.08	25.6349	0.00E+00
10/12/2019	9:36:37 AM	19.759	17.222	35.3679	1.1763	4.76E-02	0.8032	4.55E+04	7.8033	100.854	19.935	-0.508	0.06	25.7522	0.00E+00
10/12/2019	9:36:06 AM	19.838	17.4097	35.3013	1.113	4.76E-02	0.7271	4.57E+04	7.6553	97.907	20.006	0.894	0.04	25.6388	0.00E+00
10/12/2019	9:36:37 AM	19.894	17.2049	35.3704	1.1763	4.76E-02	0.8001	4.55E+04	7.7995	100.775	20.062	-0.521	0.08	25.7588	0.00E+00
10/12/2019	9:36:36 AM	20.026	17.1862	35.3707	1.2625	4.76E-02	0.7799	4.55E+04	7.7976	100.734	20.152	-0.543	0.07	25.7636	0.00E+00
10/12/2019	9:36:07 AM	20.044	17.3959	35.3054	1.113	4.76E-02	0.7333	4.57E+04	7.6352	97.571	20.185	0.892	-0.01	25.6463	0.00E+00
10/12/2019	9:36:36 AM	20.157	17.1667	35.37	1.2633	4.76E-02	0.7768	4.55E+04	7.7943	100.678	20.239	-0.559	0.03	25.7674	0.00E+00
10/12/2019	9:36:07 AM	20.248	17.3845	35.3112	1.1374	4.76E-02	0.7317	4.57E+04	7.6085	97.176	20.36	0.874	-0.07	25.6547	0.00E+00
10/12/2019	9:36:36 AM	20.29	17.1475	35.3703	1.2641	4.76E-02	0.7783	4.54E+04	7.7929	100.653	20.35	-0.567	-0.01	25.7721	0.00E+00
10/12/2019	9:36:36 AM	20.426	17.129	35.3712	1.2595	4.76E-02	0.7768	4.54E+04	7.7914	100.617	20.495	-0.563	0.03	25.7771	0.00E+00
10/12/2019	9:36:07 AM	20.452	17.374	35.3159	1.1397	4.76E-02	0.7271	4.57E+04	7.5961	96.981	20.529	0.841	-0.13	25.6617	0.00E+00
10/12/2019	9:36:36 AM	20.564	17.1108	35.3712	1.2587	4.76E-02	0.6789	4.54E+04	7.7883	100.556	20.671	-0.57	0.08	25.7813	0.00E+00
10/12/2019	9:36:08 AM	20.658	17.3622	35.3174	1.1382	4.76E-02	0.7302	4.57E+04	7.5748	96.679	20.708	0.801	-0.16	25.6656	0.00E+00
10/12/2019	9:36:35 AM	20.703	17.0928	35.3715	1.2648	4.76E-02	0.682	4.54E+04	7.7855	100.479	20.823	-0.591	0.09	25.7858	0.00E+00
10/12/2019	9:36:35 AM	20.842	17.0751	35.3744	1.2595	4.76E-02	0.6789	4.54E+04	7.7812	100.391	20.944	-0.614	0.04	25.7925	0.00E+00
10/12/2019	9:36:08 AM	20.867	17.3474	35.3148	1.1405	4.76E-02	0.7302	4.56E+04	7.5619	96.471	20.924	0.774	-0.11	25.6661	0.00E+00
10/12/2019	9:36:35 AM	20.982	17.0574	35.378	1.2633	4.76E-02	0.682	4.54E+04	7.7775	100.301	21.051	-0.623	-0.01	25.8	0.00E+00
10/12/2019	9:36:08 AM	21.08	17.3283	35.3095	1.1801	4.76E-02	0.7271	4.56E+04	7.5385	96.116	21.156	0.765	-0.04	25.6649	0.00E+00
10/12/2019	9:36:34 AM	21.125	17.0385	35.3787	1.2641	4.76E-02	0.682	4.53E+04	7.7697	100.173	21.198	-0.62	-0.03	25.8053	0.00E+00
10/12/2019	9:36:34 AM	21.27	17.0185	35.3778	1.3861	4.76E-02	0.5561	4.53E+04	7.7603	100.046	21.353	-0.614	-0.01	25.809	0.00E+00
10/12/2019	9:36:08 AM	21.296	17.3041	35.3023	1.1725	4.76E-02	0.724	4.56E+04	7.5185	95.787	21.372	0.771	0.02	25.663	0.00E+00
10/12/2019	9:36:34 AM	21.418	16.9989	35.3779	1.3838	4.76E-02	0.553	4.53E+04	7.7509	99.908	21.512	-0.61	0	25.8135	0.00E+00
10/12/2019	9:36:08 AM	21.515	17.2746	35.2933	1.1748	4.76E-02	0.7271	4.56E+04	7.4958	95.401	21.582	0.79	0.08	25.6607	0.00E+00

10/12/2019	9:36:34 AM	21.567	16.9802	35.3772	1.3846	4.76E-02	0.553	4.53E+04	7.7424	99.782	21.649	-0.611	0.02	25.8171	0.00E+00
10/12/2019	9:36:34 AM	21.718	16.9618	35.374	1.3854	4.76E-02	0.5546	4.53E+04	7.7376	99.673	21.829	-0.615	0.06	25.8183	0.00E+00
10/12/2019	9:36:09 AM	21.737	17.2415	35.2845	1.1771	4.76E-02	0.7286	4.55E+04	7.4606	94.87	21.799	0.817	0.11	25.6597	0.00E+00
10/12/2019	9:36:33 AM	21.87	16.9444	35.3698	1.5174	4.76E-02	0.4504	4.52E+04	7.7331	99.576	21.999	-0.629	0.06	25.8181	0.00E+00
10/12/2019	9:36:09 AM	21.963	17.2063	35.2798	1.2244	4.76E-02	0.8219	4.55E+04	7.4242	94.347	22.036	0.847	0.12	25.6633	0.00E+00
10/12/2019	9:36:33 AM	22.022	16.9291	35.3668	1.5196	4.76E-02	0.4551	4.52E+04	7.7295	99.485	22.146	-0.644	0.02	25.8184	0.00E+00
10/12/2019	9:36:33 AM	22.174	16.9162	35.3653	1.5219	4.76E-02	0.4566	4.52E+04	7.7241	99.396	22.273	-0.65	-0.02	25.8197	0.00E+00
10/12/2019	9:36:09 AM	22.191	17.1693	35.2776	1.2213	4.76E-02	0.8312	4.55E+04	7.3773	93.728	22.275	0.876	0.12	25.6695	0.00E+00
10/12/2019	9:36:32 AM	22.327	16.9051	35.3649	1.5189	4.76E-02	0.4551	4.52E+04	7.7138	99.242	22.43	-0.643	-0.03	25.8217	0.00E+00
10/12/2019	9:36:10 AM	22.422	17.1316	35.2753	1.2274	4.76E-02	0.8327	4.54E+04	7.3277	93.07	22.513	0.898	0.08	25.6763	0.00E+00
10/12/2019	9:36:32 AM	22.481	16.895	35.3658	1.5151	4.76E-02	0.4271	4.52E+04	7.7063	99.123	22.576	-0.637	-0.02	25.8249	0.00E+00
10/12/2019	9:36:32 AM	22.638	16.8851	35.3672	1.5196	4.76E-02	0.4256	4.52E+04	7.694	98.927	22.737	-0.633	0.01	25.8285	0.00E+00
10/12/2019	9:36:10 AM	22.655	17.0962	35.2764	1.2251	4.76E-02	0.8281	4.54E+04	7.279	92.418	22.763	0.913	0.06	25.686	0.00E+00
10/12/2019	9:36:32 AM	22.795	16.8748	35.3678	1.5181	4.76E-02	0.4333	4.52E+04	7.6883	98.813	22.899	-0.634	0.04	25.8316	0.00E+00
10/12/2019	9:36:10 AM	22.889	17.0646	35.283	1.2229	4.76E-02	0.7442	4.54E+04	7.2278	91.733	23.02	0.931	0.07	25.7001	0.00E+00
10/12/2019	9:36:32 AM	22.954	16.864	35.3679	1.5166	4.76E-02	0.4209	4.52E+04	7.6783	98.64	23.088	-0.644	0.07	25.8344	0.00E+00
10/12/2019	9:36:31 AM	23.113	16.8529	35.3684	1.4792	4.76E-02	0.3991	4.52E+04	7.6691	98.484	23.26	-0.662	0.07	25.8374	0.00E+00
10/12/2019	9:36:10 AM	23.123	17.0359	35.2917	1.3114	4.76E-02	0.6571	4.53E+04	7.176	91.061	23.253	0.95	0.07	25.7152	0.00E+00
10/12/2019	9:36:31 AM	23.272	16.8419	35.3707	1.483	4.76E-02	0.4069	4.51E+04	7.6573	98.306	23.412	-0.68	0.02	25.8421	0.00E+00
10/12/2019	9:36:11 AM	23.357	17.0076	35.2979	1.3121	4.76E-02	0.6494	4.53E+04	7.1317	90.489	23.479	0.96	0.04	25.7275	0.00E+00
10/12/2019	9:36:31 AM	23.429	16.8305	35.375	1.4784	4.76E-02	0.4054	4.51E+04	7.6398	98.045	23.543	-0.686	-0.03	25.849	0.00E+00
10/12/2019	9:36:30 AM	23.588	16.8177	35.3796	1.4792	4.76E-02	0.4023	4.51E+04	7.6268	97.847	23.691	-0.678	-0.08	25.8566	0.00E+00
10/12/2019	9:36:11 AM	23.591	16.9773	35.2992	1.3106	4.76E-02	0.6525	4.53E+04	7.1091	90.19	23.707	0.961	0	25.7354	0.00E+00
10/12/2019	9:36:30 AM	23.748	16.8027	35.3831	1.483	4.76E-02	0.4007	4.51E+04	7.6137	97.648	23.846	-0.658	-0.13	25.8637	0.00E+00
10/12/2019	9:36:11 AM	23.827	16.9435	35.2958	1.3114	4.76E-02	0.6556	4.53E+04	7.0725	89.683	23.935	0.954	-0.03	25.7395	0.00E+00
10/12/2019	9:36:30 AM	23.91	16.7855	35.3855	1.4784	4.76E-02	0.4753	4.51E+04	7.5977	97.418	24.028	-0.626	-0.16	25.8703	0.00E+00
10/12/2019	9:36:11 AM	24.064	16.908	35.2904	1.3709	4.76E-02	0.6338	4.52E+04	7.0542	89.37	24.177	0.948	-0.03	25.7426	0.00E+00
10/12/2019	9:36:30 AM	24.073	16.7667	35.3861	1.4823	4.76E-02	0.48	4.51E+04	7.5863	97.231	24.209	-0.586	-0.12	25.8753	0.00E+00
10/12/2019	9:36:29 AM	24.236	16.747	35.3843	1.4815	4.76E-02	0.4784	4.51E+04	7.5749	97.04	24.406	-0.557	-0.01	25.8782	0.00E+00
10/12/2019	9:36:11 AM	24.302	16.8749	35.2892	1.3754	4.76E-02	0.6307	4.52E+04	7.0401	89.079	24.437	0.948	0	25.7497	0.00E+00
10/12/2019	9:36:29 AM	24.397	16.7275	35.3815	1.4861	4.76E-02	0.4846	4.50E+04	7.5732	96.979	24.578	-0.553	0.11	25.8799	0.00E+00
10/12/2019	9:36:12 AM	24.54	16.8458	35.2956	1.3709	4.76E-02	0.6307	4.52E+04	7.021	88.745	24.683	0.949	0	25.763	0.00E+00
10/12/2019	9:36:29 AM	24.555	16.7095	35.3809	1.4937	4.76E-02	0.4287	4.50E+04	7.5672	96.875	24.736	-0.58	0.18	25.8832	0.00E+00
10/12/2019	9:36:29 AM	24.711	16.6931	35.3832	1.4929	4.76E-02	0.4271	4.50E+04	7.5659	96.815	24.87	-0.625	0.19	25.889	0.00E+00
10/12/2019	9:36:12 AM	24.779	16.8189	35.3035	1.3732	4.76E-02	0.6385	4.51E+04	7.004	88.465	24.906	0.948	0	25.7769	0.00E+00
10/12/2019	9:36:29 AM	24.866	16.677	35.3854	1.496	4.76E-02	0.438	4.50E+04	7.5623	96.733	25.02	-0.672	0.15	25.8948	0.00E+00
10/12/2019	9:36:12 AM	25.017	16.7917	35.3072	1.5189	4.76E-02	0.5033	4.51E+04	6.9786	88.109	25.137	0.951	0.01	25.7867	0.00E+00
10/12/2019	9:36:28 AM	25.019	16.6601	35.3866	1.4914	4.76E-02	0.4318	4.50E+04	7.5567	96.634	25.157	-0.709	0.09	25.9	0.00E+00
10/12/2019	9:36:28 AM	25.174	16.6425	35.3884	1.4342	4.76E-02	0.4256	4.50E+04	7.5491	96.522	25.285	-0.733	0.03	25.9058	0.00E+00
10/12/2019	9:36:13 AM	25.257	16.7624	35.3064	1.5151	4.76E-02	0.4986	4.51E+04	6.94	87.603	25.382	0.957	0.02	25.7925	0.00E+00
10/12/2019	9:36:28 AM	25.33	16.6244	35.3908	1.435	4.76E-02	0.4287	4.49E+04	7.5391	96.381	25.387	-0.74	-0.09	25.9124	0.00E+00
10/12/2019	9:36:27 AM	25.491	16.6053	35.3925	1.4319	4.76E-02	0.4318	4.49E+04	7.5273	96.215	25.542	-0.718	-0.14	25.9186	0.00E+00
10/12/2019	9:36:13 AM	25.498	16.7295	35.3017	1.5189	4.76E-02	0.5079	4.50E+04	6.8812	86.854	25.63	0.962	0.02	25.7953	0.00E+00
10/12/2019	9:36:27 AM	25.657	16.5851	35.3923	1.4319	4.76E-02	0.4318	4.49E+04	7.5115	96	25.723	-0.682	-0.17	25.9231	0.00E+00
10/12/2019	9:36:13 AM	25.74	16.6934	35.295	1.5204	4.76E-02	0.5048	4.50E+04	6.8225	86.115	25.88	0.966	0.02	25.7971	0.00E+00
10/12/2019	9:36:27 AM	25.827	16.5645	35.39	1.3983	4.76E-02	0.3292	4.49E+04	7.4944	95.762	25.952	-0.639	-0.08	25.9257	0.00E+00
10/12/2019	9:36:13 AM	25.982	16.6566	35.2898	1.4838	4.76E-02	0.4271	4.50E+04	6.7591	85.316	26.132	0.968	0.01	25.8008	0.00E+00
10/12/2019	9:36:27 AM	25.999	16.5444	35.3874	1.3938	4.76E-02	0.3308	4.49E+04	7.4814	95.569	26.167	-0.619	0.01	25.9278	0.00E+00
10/12/2019	9:36:27 AM	26.169	16.5258	35.3864	1.3953	4.76E-02	0.3292	4.48E+04	7.4491	95.141	26.365	-0.621	0.11	25.9308	0.00E+00
10/12/2019	9:36:13 AM	26.223	16.6233	35.2909	1.4823	4.76E-02	0.424	4.49E+04	6.6946	84.503	26.388	0.973	0.02	25.8101	0.00E+00
10/12/2019	9:36:26 AM	26.337	16.5088	35.3863	1.3968	4.76E-02	0.3277	4.48E+04	7.4278	94.85	26.514	-0.648	0.12	25.9345	0.00E+00

10/12/2019	9:36:14 AM	26.463	16.5959	35.2999	1.4838	4.76E-02	0.4287	4.49E+04	6.636	83.765	26.635	0.983	0.04	25.8257	0.00E+00
10/12/2019	9:36:26 AM	26.503	16.4924	35.3867	1.3983	4.76E-02	0.3339	4.48E+04	7.4042	94.535	26.665	-0.678	0.13	25.9386	0.00E+00
10/12/2019	9:36:26 AM	26.668	16.4762	35.3886	1.406	4.76E-02	0.438	4.48E+04	7.3784	94.185	26.82	-0.71	0.08	25.9442	0.00E+00
10/12/2019	9:36:14 AM	26.703	16.5735	35.3121	1.4861	4.76E-02	0.4287	4.49E+04	6.5912	83.202	26.858	0.988	0.02	25.8429	0.00E+00
10/12/2019	9:36:25 AM	26.834	16.4597	35.3936	1.4052	4.76E-02	0.4225	4.48E+04	7.3547	93.853	26.968	-0.731	0.03	25.9528	0.00E+00
10/12/2019	9:36:14 AM	26.941	16.5534	35.321	1.483	4.76E-02	0.424	4.49E+04	6.5599	82.81	27.096	0.985	-0.01	25.8563	0.00E+00
10/12/2019	9:36:25 AM	27	16.4422	35.4001	1.4098	4.76E-02	0.424	4.48E+04	7.3316	93.518	27.117	-0.738	-0.02	25.9631	0.00E+00
10/12/2019	9:36:25 AM	27.168	16.4223	35.4039	1.4098	4.76E-02	0.4287	4.47E+04	7.307	93.17	27.257	-0.732	-0.06	25.9716	0.00E+00
10/12/2019	9:36:15 AM	27.18	16.5342	35.3247	1.3358	4.76E-02	0.4333	4.49E+04	6.5569	82.774	27.341	0.98	-0.02	25.8644	0.00E+00
10/12/2019	9:36:25 AM	27.34	16.3996	35.4033	1.3098	4.76E-02	0.4815	4.47E+04	7.2779	92.749	27.444	-0.717	-0.03	25.9763	0.00E+00
10/12/2019	9:36:15 AM	27.417	16.5165	35.3266	1.3358	4.76E-02	0.4287	4.48E+04	6.5469	82.65	27.595	0.976	-0.01	25.8705	0.00E+00
10/12/2019	9:36:25 AM	27.514	16.3758	35.399	1.3114	4.76E-02	0.4753	4.47E+04	7.2526	92.393	27.626	-0.711	0.01	25.9776	0.00E+00
10/12/2019	9:36:15 AM	27.653	16.4999	35.3302	1.335	4.76E-02	0.4225	4.48E+04	6.5515	82.71	27.845	0.974	-0.01	25.8778	0.00E+00
10/12/2019	9:36:24 AM	27.691	16.3531	35.3938	1.3121	4.76E-02	0.4831	4.47E+04	7.2276	92.042	27.838	-0.714	0.12	25.9775	0.00E+00
10/12/2019	9:36:24 AM	27.869	16.3333	35.3891	1.3136	4.76E-02	0.4831	4.47E+04	7.2051	91.738	28.032	-0.744	0.16	25.9772	0.00E+00
10/12/2019	9:36:15 AM	27.887	16.4819	35.3328	1.3358	4.76E-02	0.424	4.48E+04	6.563	82.855	28.071	0.969	-0.02	25.884	0.00E+00
10/12/2019	9:36:24 AM	28.046	16.3165	35.3849	1.2503	4.76E-02	0.452	4.46E+04	7.1825	91.428	28.231	-0.784	0.16	25.9767	0.00E+00
10/12/2019	9:36:15 AM	28.12	16.4588	35.3295	1.4357	4.76E-02	0.5779	4.48E+04	6.5777	83.041	28.293	0.96	-0.03	25.8853	0.00E+00
10/12/2019	9:36:24 AM	28.223	16.3023	35.3817	1.2526	4.76E-02	0.4551	4.46E+04	7.1612	91.128	28.387	-0.823	0.05	25.9766	0.00E+00
10/12/2019	9:36:16 AM	28.351	16.4281	35.3193	1.4327	4.76E-02	0.581	4.48E+04	6.5856	83.144	28.532	0.956	-0.01	25.8816	0.00E+00
10/12/2019	9:36:23 AM	28.398	16.2905	35.3799	1.2511	4.76E-02	0.4566	4.46E+04	7.1392	90.813	28.542	-0.834	-0.05	25.9773	0.00E+00
10/12/2019	9:36:23 AM	28.575	16.2804	35.3786	1.2496	4.76E-02	0.4535	4.46E+04	7.1222	90.568	28.7	-0.821	-0.15	25.9782	0.00E+00
10/12/2019	9:36:16 AM	28.58	16.3904	35.3053	1.4334	4.76E-02	0.5779	4.47E+04	6.5941	83.249	28.778	0.958	0.01	25.8762	0.00E+00
10/12/2019	9:36:23 AM	28.754	16.2714	35.3769	1.1626	4.76E-02	0.5546	4.46E+04	7.1035	90.295	28.887	-0.782	-0.2	25.9784	0.00E+00
10/12/2019	9:36:16 AM	28.807	16.3508	35.2941	1.4319	4.76E-02	0.581	4.47E+04	6.6009	83.334	29.026	0.957	0	25.8749	0.00E+00
10/12/2019	9:36:22 AM	28.934	16.2635	35.3747	1.1679	4.76E-02	0.5514	4.46E+04	7.0736	89.876	29.093	-0.733	-0.22	25.978	0.00E+00
10/12/2019	9:36:17 AM	29.031	16.3151	35.2931	1.3716	4.76E-02	0.4737	4.46E+04	6.6064	83.398	29.277	0.957	0	25.8829	0.00E+00
10/12/2019	9:36:22 AM	29.113	16.2567	35.3722	1.1626	4.76E-02	0.5546	4.46E+04	7.0461	89.481	29.312	-0.677	-0.23	25.9769	0.00E+00
10/12/2019	9:36:17 AM	29.248	16.2869	35.3028	1.3724	4.76E-02	0.4784	4.46E+04	6.6141	83.496	29.54	0.965	0.03	25.8995	0.00E+00
10/12/2019	9:36:22 AM	29.29	16.2513	35.3697	1.1633	4.76E-02	0.553	4.46E+04	7.0105	88.994	29.571	-0.618	-0.27	25.9756	0.00E+00
10/12/2019	9:36:17 AM	29.458	16.2667	35.3176	1.3686	4.76E-02	0.48	4.46E+04	6.622	83.596	29.813	0.983	0.07	25.9192	0.00E+00
10/12/2019	9:36:22 AM	29.461	16.2474	35.3676	1.1649	4.76E-02	0.5546	4.46E+04	6.9701	88.451	29.799	-0.552	-0.31	25.9742	0.00E+00
10/12/2019	9:36:22 AM	29.62	16.245	35.3661	1.0451	4.76E-02	0.5281	4.46E+04	6.9353	87.99	29.988	-0.473	-0.35	25.9731	0.00E+00
10/12/2019	9:36:17 AM	29.656	16.2534	35.3326	1.3732	4.76E-02	0.4831	4.46E+04	6.6224	83.605	30.084	1.009	0.1	25.9373	0.00E+00
10/12/2019	9:36:21 AM	29.768	16.2438	35.3654	1.0436	4.76E-02	0.525	4.46E+04	6.8827	87.297	30.128	-0.385	-0.4	25.9726	0.00E+00
10/12/2019	9:36:18 AM	29.837	16.2453	35.345	1.2976	4.76E-02	0.6742	4.46E+04	6.6274	83.677	30.361	1.034	0.1	25.9515	0.00E+00
10/12/2019	9:36:21 AM	29.904	16.2435	35.3655	1.0428	4.76E-02	0.525	4.46E+04	6.8414	86.747	30.278	-0.284	-0.4	25.9727	0.00E+00
10/12/2019	9:36:18 AM	29.995	16.241	35.3543	1.2961	4.76E-02	0.6804	4.46E+04	6.6315	83.74	30.669	1.063	0.12	25.9618	0.00E+00
10/12/2019	9:36:21 AM	30.026	16.2436	35.3662	1.0436	4.76E-02	0.5266	4.46E+04	6.808	86.304	30.419	-0.184	-0.37	25.9733	0.00E+00
10/12/2019	9:36:18 AM	30.124	16.2389	35.3606	1.2984	4.76E-02	0.6727	4.46E+04	6.6324	83.765	30.787	1.045	-0.07	25.9685	0.00E+00
10/12/2019	9:36:20 AM	30.135	16.2436	35.3666	1.1756	4.76E-02	0.6525	4.46E+04	6.7734	85.839	30.576	-0.092	-0.28	25.9737	0.00E+00
10/12/2019	9:36:18 AM	30.223	16.2381	35.3642	1.2991	4.76E-02	0.6773	4.46E+04	6.646	83.95	30.823	0.968	-0.31	25.9723	0.00E+00
10/12/2019	9:36:20 AM	30.226	16.2433	35.3669	1.174	4.76E-02	0.6509	4.46E+04	6.7437	85.434	30.714	-0.023	-0.2	25.9741	0.00E+00
10/12/2019	9:36:18 AM	30.295	16.2382	35.3662	1.2991	4.76E-02	0.668	4.46E+04	6.65	84.013	30.829	0.839	-0.52	25.9743	0.00E+00
10/12/2019	9:36:20 AM	30.297	16.2429	35.3673	1.1763	4.76E-02	0.654	4.46E+04	6.7235	85.118	30.836	0.026	-0.18	25.9745	0.00E+00
10/12/2019	9:36:19 AM	30.345	16.2389	35.3675	1.2122	4.76E-02	0.7286	4.46E+04	6.6553	84.093	30.836	0.675	-0.65	25.9755	0.00E+00
10/12/2019	9:36:20 AM	30.347	16.2423	35.3677	1.1756	4.76E-02	0.6587	4.46E+04	6.7044	84.831	30.864	0.071	-0.42	25.9751	0.00E+00
10/12/2019	9:36:19 AM	30.374	16.2399	35.3682	1.2137	4.76E-02	0.7286	4.46E+04	6.6595	84.166	30.843	0.498	-0.71	25.976	0.00E+00
10/12/2019	9:36:20 AM	30.375	16.2416	35.3681	1.2106	4.76E-02	0.724	4.46E+04	6.6867	84.56	30.857	0.177	-0.6	25.9756	0.00E+00
10/12/2019	9:36:19 AM	30.384	16.2408	35.3683	1.2122	4.76E-02	0.7271	4.46E+04	6.6738	84.37	30.85	0.326	-0.69	25.976	0.00E+00

TRANSECT 2 - 1,250 m

DD MMM YYYY HH:MM:SS	DD MMM YYYY HH:MM:SS	DepSM	Tv290C	Sal00	FlECO-AFL	Par	TurbWETntu0	C0uS/cm	Sbeox0Mg/L	Sbeox0PS	PrdM	Dz/dtM	AccM	Sigma-t00	Flag
10/12/2019	9:40:14 AM	0.569	18.2862	34.4354	0.5278	4.76E-02	0.065	4.54E+04	-9.99E-29	-9.99E-29	0.407	-0.498	0.21	24.7727	0.00E+00
10/12/2019	9:40:14 AM	0.651	18.2858	34.7859	0.5301	4.76E-02	0.0712	4.59E+04	-9.99E-29	-9.99E-29	0.459	-0.55	0.16	25.04	0.00E+00
10/12/2019	9:38:48 AM	0.653	18.2773	35.3073	0.5293	4.76E-02	0.0914	4.65E+04	7.8821	103.411	0.575	0.206	0.19	25.4385	0.00E+00
10/12/2019	9:38:48 AM	0.709	18.2771	35.3071	0.5263	4.76E-02	0.0945	4.65E+04	7.8766	103.339	0.676	0.242	0.15	25.4384	0.00E+00
10/12/2019	9:40:14 AM	0.744	18.2848	34.9965	0.5415	4.76E-02	0.0899	4.61E+04	-9.99E-29	-9.99E-29	0.599	-0.59	0.15	25.201	0.00E+00
10/12/2019	9:38:48 AM	0.767	18.2771	35.3072	0.5301	4.76E-02	0.0945	4.65E+04	7.8772	103.347	0.796	0.273	0.12	25.4386	0.00E+00
10/12/2019	9:38:48 AM	0.824	18.2771	35.3074	0.5309	4.76E-02	0.0899	4.65E+04	7.8748	103.314	0.873	0.289	0.06	25.4388	0.00E+00
10/12/2019	9:40:13 AM	0.846	18.2833	35.1238	0.5408	4.76E-02	0.0883	4.63E+04	7.0491	92.422	0.718	-0.628	0.13	25.2986	0.00E+00
10/12/2019	9:38:49 AM	0.879	18.2772	35.3077	0.5286	4.76E-02	0.0743	4.65E+04	7.8792	103.369	0.901	0.283	-0.02	25.439	0.00E+00
10/12/2019	9:38:49 AM	0.933	18.2772	35.3078	0.5164	4.76E-02	0.065	4.65E+04	7.8829	103.414	0.911	0.267	-0.07	25.4391	0.00E+00
10/12/2019	9:40:13 AM	0.957	18.2812	35.2005	0.5431	4.76E-02	0.0945	4.64E+04	7.2374	94.882	0.808	-0.66	0.1	25.3579	0.00E+00
10/12/2019	9:38:49 AM	0.989	18.2773	35.3078	0.5179	4.76E-02	0.0681	4.65E+04	7.8917	103.526	0.946	0.252	-0.06	25.4391	0.00E+00
10/12/2019	9:38:50 AM	1.047	18.2773	35.3078	0.5156	4.76E-02	0.0666	4.65E+04	7.8934	103.545	1.002	0.239	-0.05	25.439	0.00E+00
10/12/2019	9:40:13 AM	1.078	18.2782	35.2456	0.54	4.76E-02	0.0945	4.65E+04	7.4063	97.086	0.919	-0.685	0.02	25.3932	0.00E+00
10/12/2019	9:38:50 AM	1.109	18.2772	35.3077	0.5171	4.76E-02	0.0728	4.65E+04	7.896	103.575	1.039	0.211	-0.11	25.4389	0.00E+00
10/12/2019	9:38:50 AM	1.175	18.2771	35.3075	0.5423	4.76E-02	0.0712	4.65E+04	7.8959	103.573	1.063	0.172	-0.16	25.4388	0.00E+00
10/12/2019	9:40:13 AM	1.208	18.2747	35.2713	0.5392	4.76E-02	0.0899	4.65E+04	7.9782	98.988	1.093	-0.689	0	25.4134	0.00E+00
10/12/2019	9:38:50 AM	1.249	18.277	35.3074	0.5408	4.76E-02	0.0666	4.65E+04	7.8926	103.529	1.113	0.147	-0.1	25.4387	0.00E+00
10/12/2019	9:38:50 AM	1.332	18.277	35.3074	0.5408	4.76E-02	0.0635	4.65E+04	7.8939	103.542	1.196	0.155	0.03	25.4388	0.00E+00
10/12/2019	9:40:12 AM	1.346	18.2713	35.286	0.5667	4.76E-02	0.0666	4.65E+04	8.7535	100.353	1.241	-0.69	0	25.425	0.00E+00
10/12/2019	9:38:51 AM	1.423	18.277	35.3075	0.5431	4.76E-02	0.0681	4.65E+04	7.8935	103.532	1.303	0.191	0.14	25.4388	0.00E+00
10/12/2019	9:40:12 AM	1.491	18.2687	35.2947	0.5637	4.76E-02	0.0728	4.65E+04	8.9181	101.2	1.389	-0.691	-0.06	25.432	0.00E+00
10/12/2019	9:38:51 AM	1.522	18.2769	35.3075	0.5438	4.76E-02	0.065	4.65E+04	7.8874	103.449	1.422	0.239	0.19	25.4389	0.00E+00
10/12/2019	9:38:51 AM	1.628	18.2769	35.3075	0.5385	4.76E-02	0.0619	4.65E+04	7.8893	103.472	1.542	0.287	0.19	25.4388	0.00E+00
10/12/2019	9:40:12 AM	1.643	18.2668	35.3001	0.5629	4.76E-02	0.065	4.65E+04	8.7152	101.767	1.595	-0.676	-0.06	25.4363	0.00E+00
10/12/2019	9:38:52 AM	1.739	18.2767	35.3073	0.5392	4.76E-02	0.0681	4.65E+04	7.8895	103.472	1.649	0.334	0.19	25.4387	0.00E+00
10/12/2019	9:40:12 AM	1.798	18.2655	35.3034	0.5682	4.76E-02	0.0635	4.65E+04	8.6729	102.225	1.783	-0.66	-0.01	25.4391	0.00E+00
10/12/2019	9:38:52 AM	1.858	18.2763	35.3071	0.5415	4.76E-02	0.0712	4.65E+04	7.8934	103.52	1.745	0.378	0.18	25.4385	0.00E+00
10/12/2019	9:40:12 AM	1.955	18.2645	35.3054	0.5392	4.76E-02	0.0666	4.65E+04	9.6215	102.838	1.93	-0.658	-0.01	25.4409	0.00E+00
10/12/2019	9:38:52 AM	1.984	18.2756	35.3066	0.5537	4.76E-02	0.065	4.65E+04	7.896	103.549	1.843	0.411	0.13	25.4382	0.00E+00
10/12/2019	9:40:11 AM	2.115	18.2635	35.3064	0.54	4.76E-02	0.065	4.65E+04	9.6168	103.391	2.092	-0.654	-0.03	25.4418	0.00E+00
10/12/2019	9:38:52 AM	2.12	18.2747	35.306	0.5537	4.76E-02	0.0666	4.65E+04	7.8979	103.569	1.953	0.427	0.07	25.4379	0.00E+00
10/12/2019	9:38:53 AM	2.266	18.274	35.3059	0.5553	4.76E-02	0.0681	4.65E+04	7.8995	103.584	2.073	0.433	0.02	25.438	0.00E+00
10/12/2019	9:40:11 AM	2.276	18.2626	35.3069	0.5423	4.76E-02	0.0588	4.65E+04	9.5056	103.798	2.296	-0.647	0.04	25.4423	0.00E+00
10/12/2019	9:38:53 AM	2.426	18.2735	35.3064	0.556	4.76E-02	0.0666	4.65E+04	7.8973	103.546	2.212	0.44	0.03	25.4385	0.00E+00
10/12/2019	9:40:11 AM	2.438	18.2618	35.3073	0.54	4.76E-02	0.0712	4.65E+04	9.3009	103.94	2.45	-0.657	0.07	25.4428	0.00E+00
10/12/2019	9:38:53 AM	2.599	18.2728	35.3066	0.5522	4.76E-02	0.0681	4.65E+04	7.8977	103.545	2.391	0.463	0.09	25.4389	0.00E+00
10/12/2019	9:40:10 AM	2.599	18.2612	35.308	0.5644	4.76E-02	0.0743	4.65E+04	7.927	104.001	2.604	-0.674	0.04	25.4436	0.00E+00
10/12/2019	9:40:10 AM	2.761	18.2605	35.3092	0.5652	4.76E-02	0.0681	4.65E+04	7.9238	103.993	2.797	-0.683	0	25.445	0.00E+00
10/12/2019	9:38:53 AM	2.786	18.2718	35.3062	0.5766	4.76E-02	0.0681	4.65E+04	7.8916	103.461	2.609	0.511	0.19	25.4387	0.00E+00
10/12/2019	9:40:10 AM	2.922	18.2594	35.3106	0.5644	4.76E-02	0.0681	4.65E+04	7.9183	103.921	2.941	-0.683	-0.08	25.4466	0.00E+00
10/12/2019	9:38:53 AM	2.984	18.2704	35.3056	0.5774	4.76E-02	0.065	4.65E+04	7.8884	103.416	2.842	0.581	0.28	25.4384	0.00E+00
10/12/2019	9:40:10 AM	3.083	18.2578	35.3114	0.5682	4.76E-02	0.0681	4.65E+04	7.916	103.889	3.071	-0.663	-0.11	25.4479	0.00E+00
10/12/2019	9:38:54 AM	3.193	18.269	35.305	0.5759	4.76E-02	0.065	4.65E+04	7.8863	103.391	3.094	0.668	0.35	25.4382	0.00E+00
10/12/2019	9:40:10 AM	3.244	18.2555	35.3112	0.598	4.76E-02	0.0681	4.65E+04	7.9159	103.885	3.253	-0.636	-0.12	25.4484	0.00E+00
10/12/2019	9:40:09 AM	3.407	18.2528	35.3106	0.6033	4.76E-02	0.0635	4.65E+04	7.9165	103.89	3.433	-0.606	-0.13	25.4484	0.00E+00
10/12/2019	9:38:54 AM	3.408	18.2674	35.3047	0.5759	4.76E-02	0.0743	4.65E+04	7.884	103.36	3.358	0.761	0.37	25.4383	0.00E+00
10/12/2019	9:40:09 AM	3.569	18.2502	35.3098	0.6003	4.76E-02	0.0681	4.65E+04	7.9162	103.882	3.592	-0.573	-0.09	25.4483	0.00E+00
10/12/2019	9:38:54 AM	3.628	18.266	35.3046	0.5408	4.76E-02	0.1163	4.65E+04	7.8836	103.355	3.602	0.845	0.33	25.4386	0.00E+00
10/12/2019	9:40:09 AM	3.731	18.2479	35.3092	0.5988	4.76E-02	0.0619	4.65E+04	7.9085	103.779	3.776	-0.551	0.02	25.4483	0.00E+00

10/12/2019	9:38:55 AM	3.851	18.2646	35.3046	0.5415	4.76E-02	0.1163	4.65E+04	7.8842	103.361	3.838	0.91	0.26	25.439	0.00E+00
10/12/2019	9:40:08 AM	3.891	18.246	35.3088	0.601	4.76E-02	0.0619	4.65E+04	7.9068	103.754	3.981	-0.555	0.1	25.4483	0.00E+00
10/12/2019	9:40:08 AM	4.047	18.2444	35.3083	0.6384	4.76E-02	0.065	4.65E+04	7.9057	103.729	4.142	-0.579	0.12	25.4483	0.00E+00
10/12/2019	9:38:55 AM	4.077	18.2633	35.3048	0.5385	4.76E-02	0.1148	4.65E+04	7.8888	103.419	4.062	0.95	0.16	25.4396	0.00E+00
10/12/2019	9:40:08 AM	4.2	18.2429	35.3078	0.6339	4.76E-02	0.0681	4.65E+04	7.905	103.707	4.248	-0.609	0.11	25.4482	0.00E+00
10/12/2019	9:38:55 AM	4.304	18.2619	35.305	0.5408	4.76E-02	0.1116	4.65E+04	7.8933	103.473	4.297	0.966	0.06	25.44	0.00E+00
10/12/2019	9:40:08 AM	4.351	18.2416	35.3075	0.6323	4.76E-02	0.0666	4.65E+04	7.9054	103.703	4.358	-0.636	0.07	25.4482	0.00E+00
10/12/2019	9:40:08 AM	4.502	18.2406	35.3074	0.6369	4.76E-02	0.065	4.65E+04	7.9062	103.71	4.524	-0.653	0.07	25.4483	0.00E+00
10/12/2019	9:38:55 AM	4.534	18.2603	35.3047	0.5652	4.76E-02	0.0666	4.65E+04	7.8943	103.483	4.55	0.97	0.02	25.4401	0.00E+00
10/12/2019	9:40:07 AM	4.654	18.2397	35.3072	0.601	4.76E-02	0.0728	4.65E+04	7.9072	103.722	4.65	-0.669	0.07	25.4483	0.00E+00
10/12/2019	9:38:55 AM	4.764	18.2586	35.3044	0.5675	4.76E-02	0.0635	4.65E+04	7.9011	103.567	4.787	0.966	-0.02	25.4402	0.00E+00
10/12/2019	9:40:07 AM	4.808	18.2388	35.3071	0.5988	4.76E-02	0.0635	4.65E+04	7.9082	103.735	4.76	-0.687	0.05	25.4485	0.00E+00
10/12/2019	9:40:07 AM	4.965	18.238	35.3074	0.6003	4.76E-02	0.0619	4.65E+04	7.9122	103.787	4.933	-0.698	0.02	25.4489	0.00E+00
10/12/2019	9:38:56 AM	4.994	18.257	35.3042	0.5629	4.76E-02	0.0681	4.65E+04	7.8967	103.505	5.009	0.953	-0.05	25.4405	0.00E+00
10/12/2019	9:40:06 AM	5.126	18.2372	35.3079	0.6041	4.76E-02	0.0635	4.65E+04	7.913	103.795	5.14	-0.704	0.04	25.4497	0.00E+00
10/12/2019	9:38:56 AM	5.226	18.2554	35.3044	0.5682	4.76E-02	0.0728	4.65E+04	7.8952	103.481	5.234	0.941	-0.05	25.441	0.00E+00
10/12/2019	9:40:06 AM	5.288	18.2361	35.3084	0.6316	4.76E-02	0.0712	4.65E+04	7.9175	103.851	5.299	-0.715	0.07	25.4505	0.00E+00
10/12/2019	9:40:06 AM	5.452	18.2348	35.3087	0.6354	4.76E-02	0.0619	4.65E+04	7.9218	103.907	5.446	-0.733	0.02	25.4512	0.00E+00
10/12/2019	9:38:56 AM	5.458	18.2537	35.3044	0.5644	4.76E-02	0.0945	4.65E+04	7.8874	103.373	5.473	0.937	-0.01	25.4414	0.00E+00
10/12/2019	9:40:06 AM	5.618	18.2332	35.3089	0.6377	4.76E-02	0.065	4.65E+04	7.9225	103.916	5.631	-0.738	-0.02	25.4518	0.00E+00
10/12/2019	9:38:57 AM	5.691	18.2517	35.304	0.5652	4.76E-02	0.0899	4.65E+04	7.8868	103.358	5.739	0.945	0.03	25.4415	0.00E+00
10/12/2019	9:40:05 AM	5.785	18.2313	35.3091	0.6377	4.76E-02	0.0712	4.65E+04	7.9235	103.931	5.801	-0.733	-0.06	25.4525	0.00E+00
10/12/2019	9:38:57 AM	5.923	18.2493	35.3033	0.5667	4.76E-02	0.0914	4.65E+04	7.8874	103.36	5.996	0.957	0.05	25.4415	0.00E+00
10/12/2019	9:40:05 AM	5.953	18.2293	35.3091	0.6857	4.76E-02	0.0666	4.65E+04	7.9289	104	5.953	-0.718	-0.15	25.4531	0.00E+00
10/12/2019	9:40:05 AM	6.122	18.2272	35.3092	0.6857	4.76E-02	0.0619	4.65E+04	7.9257	103.954	6.157	-0.681	-0.15	25.4537	0.00E+00
10/12/2019	9:38:57 AM	6.153	18.2467	35.3027	0.5644	4.76E-02	0.093	4.65E+04	7.8876	103.357	6.244	0.966	0.04	25.4415	0.00E+00
10/12/2019	9:40:05 AM	6.292	18.225	35.3093	0.685	4.76E-02	0.0666	4.65E+04	7.9274	103.969	6.373	-0.643	-0.09	25.4543	0.00E+00
10/12/2019	9:38:57 AM	6.379	18.2439	35.3021	0.5652	4.76E-02	0.0868	4.65E+04	7.8861	103.332	6.485	0.973	0.03	25.4416	0.00E+00
10/12/2019	9:40:05 AM	6.459	18.2227	35.3091	0.685	4.76E-02	0.0681	4.65E+04	7.9308	104.004	6.538	-0.62	-0.09	25.4547	0.00E+00
10/12/2019	9:38:57 AM	6.601	18.2412	35.3016	0.6003	4.76E-02	0.0681	4.65E+04	7.8849	103.313	6.7	0.975	0.01	25.4419	0.00E+00
10/12/2019	9:40:04 AM	6.623	18.2203	35.3087	0.6827	4.76E-02	0.0635	4.65E+04	7.9267	103.945	6.702	-0.598	-0.11	25.455	0.00E+00
10/12/2019	9:40:04 AM	6.784	18.218	35.3084	0.6369	4.76E-02	0.0666	4.65E+04	7.9253	103.923	6.919	-0.57	-0.15	25.4553	0.00E+00
10/12/2019	9:38:58 AM	6.82	18.2389	35.3017	0.6026	4.76E-02	0.0681	4.65E+04	7.8895	103.37	6.899	0.966	-0.04	25.4426	0.00E+00
10/12/2019	9:40:04 AM	6.94	18.2159	35.3081	0.6346	4.76E-02	0.0666	4.65E+04	7.9187	103.832	7.089	-0.534	-0.24	25.4556	0.00E+00
10/12/2019	9:38:58 AM	7.036	18.2372	35.3024	0.6003	4.76E-02	0.0681	4.65E+04	7.8975	103.473	7.115	0.947	-0.07	25.4438	0.00E+00
10/12/2019	9:40:03 AM	7.089	18.2138	35.3075	0.6346	4.76E-02	0.0681	4.65E+04	7.916	103.795	7.234	-0.474	-0.32	25.4555	0.00E+00
10/12/2019	9:40:03 AM	7.231	18.2119	35.3066	0.64	4.76E-02	0.0588	4.65E+04	7.9133	103.756	7.385	-0.393	-0.33	25.4551	0.00E+00
10/12/2019	9:38:58 AM	7.249	18.2361	35.3035	0.601	4.76E-02	0.0681	4.65E+04	7.9056	103.576	7.346	0.925	-0.09	25.4452	0.00E+00
10/12/2019	9:40:03 AM	7.366	18.2103	35.3057	0.6476	4.76E-02	0.0728	4.65E+04	7.91	103.711	7.506	-0.31	-0.29	25.4546	0.00E+00
10/12/2019	9:38:59 AM	7.458	18.2353	35.3045	0.627	4.76E-02	0.093	4.65E+04	7.9111	103.646	7.568	0.901	-0.1	25.4464	0.00E+00
10/12/2019	9:40:03 AM	7.495	18.2092	35.3049	0.6468	4.76E-02	0.0666	4.65E+04	7.9107	103.719	7.637	-0.237	-0.2	25.454	0.00E+00
10/12/2019	9:40:03 AM	7.618	18.2086	35.3045	0.6476	4.76E-02	0.0588	4.65E+04	7.9098	103.705	7.794	-0.186	-0.06	25.4537	0.00E+00
10/12/2019	9:38:59 AM	7.663	18.2347	35.3052	0.6232	4.76E-02	0.0914	4.65E+04	7.9139	103.68	7.789	0.885	-0.06	25.4472	0.00E+00
10/12/2019	9:40:02 AM	7.732	18.2083	35.3047	0.6491	4.76E-02	0.0681	4.65E+04	7.9107	103.717	7.945	-0.172	0.12	25.4539	0.00E+00
10/12/2019	9:40:02 AM	7.836	18.2083	35.3053	0.6728	4.76E-02	0.0681	4.65E+04	7.9156	103.779	8.072	-0.203	0.28	25.4545	0.00E+00
10/12/2019	9:38:59 AM	7.863	18.2339	35.3053	0.6232	4.76E-02	0.0852	4.65E+04	7.9152	103.695	8.011	0.877	-0.03	25.4475	0.00E+00
10/12/2019	9:40:02 AM	7.929	18.208	35.3059	0.6728	4.76E-02	0.0619	4.65E+04	7.9168	103.795	8.109	-0.273	0.33	25.4552	0.00E+00
10/12/2019	9:40:01 AM	8.013	18.2075	35.3063	0.6728	4.76E-02	0.0681	4.65E+04	7.9226	103.868	8.108	-0.356	0.33	25.4557	0.00E+00
10/12/2019	9:38:59 AM	8.057	18.2327	35.3048	0.6255	4.76E-02	0.0977	4.65E+04	7.9178	103.725	8.208	0.871	-0.03	25.4473	0.00E+00
10/12/2019	9:40:01 AM	8.095	18.2066	35.3064	0.6728	4.76E-02	0.0681	4.65E+04	7.9241	103.886	8.102	-0.438	0.24	25.4561	0.00E+00
10/12/2019	9:40:01 AM	8.179	18.2056	35.3063	0.6949	4.76E-02	0.0635	4.65E+04	7.9231	103.868	8.121	-0.497	0.14	25.4563	0.00E+00

10/12/2019	9:39:00 AM	8.244	18.2312	35.304	0.6613	4.76E-02	0.0914	4.65E+04	7.9173	103.715	8.37	0.856	-0.06	25.4469	0.00E+00
10/12/2019	9:40:01 AM	8.268	18.2046	35.306	0.6964	4.76E-02	0.0666	4.65E+04	7.9228	103.86	8.194	-0.532	0.09	25.4562	0.00E+00
10/12/2019	9:40:01 AM	8.365	18.2036	35.3058	0.6995	4.76E-02	0.0681	4.65E+04	7.9215	103.839	8.283	-0.554	0.03	25.4562	0.00E+00
10/12/2019	9:39:00 AM	8.427	18.2294	35.3033	0.6613	4.76E-02	0.0914	4.65E+04	7.9177	103.715	8.499	0.822	-0.14	25.4466	0.00E+00
10/12/2019	9:40:00 AM	8.47	18.2027	35.3058	0.6979	4.76E-02	0.0635	4.65E+04	7.9193	103.806	8.386	-0.561	0.05	25.4564	0.00E+00
10/12/2019	9:40:00 AM	8.582	18.202	35.3061	0.6949	4.76E-02	0.065	4.65E+04	7.9199	103.808	8.515	-0.573	0.07	25.4569	0.00E+00
10/12/2019	9:39:00 AM	8.609	18.2273	35.3027	0.6583	4.76E-02	0.0992	4.65E+04	7.9167	103.698	8.631	0.77	-0.21	25.4466	0.00E+00
10/12/2019	9:40:00 AM	8.702	18.2012	35.3062	0.6857	4.76E-02	0.065	4.65E+04	7.9153	103.744	8.645	-0.589	0.05	25.4573	0.00E+00
10/12/2019	9:39:00 AM	8.791	18.225	35.3022	0.6606	4.76E-02	0.0961	4.65E+04	7.9134	103.651	8.803	0.72	-0.2	25.4467	0.00E+00
10/12/2019	9:40:00 AM	8.828	18.2002	35.3059	0.6865	4.76E-02	0.0666	4.65E+04	7.9124	103.699	8.789	-0.602	0.06	25.4573	0.00E+00
10/12/2019	9:39:59 AM	8.959	18.1991	35.3056	0.6827	4.76E-02	0.0712	4.65E+04	7.9132	103.706	8.96	-0.618	0.07	25.4572	0.00E+00
10/12/2019	9:39:00 AM	8.975	18.2226	35.3019	0.6339	4.76E-02	0.1816	4.65E+04	7.9071	103.565	9.005	0.688	-0.13	25.447	0.00E+00
10/12/2019	9:39:59 AM	9.094	18.1981	35.3055	0.6827	4.76E-02	0.0588	4.65E+04	7.9105	103.665	9.094	-0.635	0.02	25.4573	0.00E+00
10/12/2019	9:39:01 AM	9.16	18.22	35.3016	0.6323	4.76E-02	0.18	4.65E+04	7.9045	103.524	9.219	0.677	-0.05	25.4473	0.00E+00
10/12/2019	9:39:59 AM	9.232	18.1972	35.3057	0.6728	4.76E-02	0.0386	4.65E+04	7.9128	103.693	9.225	-0.641	0.03	25.4578	0.00E+00
10/12/2019	9:39:01 AM	9.345	18.2172	35.3012	0.6361	4.76E-02	0.1831	4.65E+04	7.901	103.472	9.412	0.681	0.02	25.4476	0.00E+00
10/12/2019	9:39:58 AM	9.373	18.1964	35.306	0.6735	4.76E-02	0.0433	4.65E+04	7.9153	103.719	9.363	-0.647	0.02	25.4583	0.00E+00
10/12/2019	9:39:58 AM	9.519	18.1954	35.3062	0.6705	4.76E-02	0.0433	4.65E+04	7.9184	103.757	9.489	-0.651	-0.01	25.4588	0.00E+00
10/12/2019	9:39:01 AM	9.529	18.2144	35.3008	0.6407	4.76E-02	0.18	4.65E+04	7.898	103.425	9.606	0.702	0.08	25.4479	0.00E+00
10/12/2019	9:39:58 AM	9.669	18.1942	35.3064	0.6728	4.76E-02	0.0386	4.65E+04	7.9196	103.772	9.678	-0.648	0.04	25.4593	0.00E+00
10/12/2019	9:39:02 AM	9.712	18.2117	35.3009	0.6361	4.76E-02	0.1831	4.65E+04	7.8968	103.402	9.767	0.726	0.1	25.4486	0.00E+00
10/12/2019	9:39:58 AM	9.822	18.1928	35.3068	0.6987	4.76E-02	0.0635	4.65E+04	7.9262	103.857	9.857	-0.659	0.02	25.4601	0.00E+00
10/12/2019	9:39:02 AM	9.895	18.2092	35.3012	0.6468	4.76E-02	0.2298	4.65E+04	7.8988	103.422	9.921	0.741	0.06	25.4496	0.00E+00
10/12/2019	9:39:58 AM	9.977	18.1914	35.3073	0.6949	4.76E-02	0.0588	4.65E+04	7.927	103.87	10.016	-0.665	-0.01	25.4609	0.00E+00
10/12/2019	9:39:02 AM	10.081	18.207	35.3017	0.6514	4.76E-02	0.236	4.65E+04	7.9011	103.448	10.049	0.729	-0.05	25.4506	0.00E+00
10/12/2019	9:39:57 AM	10.132	18.1896	35.3078	0.6957	4.76E-02	0.0681	4.65E+04	7.9296	103.905	10.189	-0.662	-0.03	25.4619	0.00E+00
10/12/2019	9:39:02 AM	10.271	18.2051	35.3022	0.6514	4.76E-02	0.2344	4.65E+04	7.9102	103.564	10.196	0.697	-0.13	25.4517	0.00E+00
10/12/2019	9:39:57 AM	10.288	18.1876	35.3082	0.6972	4.76E-02	0.0681	4.64E+04	7.9313	103.928	10.334	-0.655	-0.08	25.4628	0.00E+00
10/12/2019	9:39:57 AM	10.444	18.1853	35.3079	0.7086	4.76E-02	0.0681	4.64E+04	7.9339	103.96	10.465	-0.636	-0.09	25.4632	0.00E+00
10/12/2019	9:39:02 AM	10.47	18.2034	35.3028	0.6453	4.76E-02	0.2329	4.65E+04	7.9206	103.699	10.405	0.674	-0.09	25.4527	0.00E+00
10/12/2019	9:39:56 AM	10.603	18.1828	35.3073	0.7071	4.76E-02	0.0666	4.64E+04	7.9341	103.96	10.647	-0.614	-0.03	25.4632	0.00E+00
10/12/2019	9:39:03 AM	10.675	18.2019	35.3031	0.6758	4.76E-02	0.1008	4.65E+04	7.9308	103.828	10.654	0.679	0.02	25.4534	0.00E+00
10/12/2019	9:39:56 AM	10.762	18.1805	35.307	0.7086	4.76E-02	0.0681	4.64E+04	7.9389	104.02	10.821	-0.608	0.03	25.4635	0.00E+00
10/12/2019	9:39:03 AM	10.885	18.2003	35.3032	0.6735	4.76E-02	0.0899	4.65E+04	7.935	103.869	10.91	0.712	0.13	25.4539	0.00E+00
10/12/2019	9:39:56 AM	10.921	18.1785	35.3073	0.7071	4.76E-02	0.0743	4.64E+04	7.9384	104.011	11.002	-0.616	0.05	25.4643	0.00E+00
10/12/2019	9:39:56 AM	11.079	18.1766	35.3081	0.7071	4.76E-02	0.0635	4.64E+04	7.9383	104.007	11.194	-0.63	0.04	25.4655	0.00E+00
10/12/2019	9:39:03 AM	11.098	18.1988	35.3032	0.6728	4.76E-02	0.0899	4.65E+04	7.9413	103.891	11.16	0.764	0.21	25.4543	0.00E+00
10/12/2019	9:39:56 AM	11.234	18.1744	35.3089	0.7201	4.76E-02	0.0635	4.64E+04	7.9331	103.938	11.333	-0.64	-0.04	25.4669	0.00E+00
10/12/2019	9:39:04 AM	11.311	18.1972	35.3032	0.6712	4.76E-02	0.0899	4.65E+04	7.9446	103.831	11.378	0.823	0.23	25.4547	0.00E+00
10/12/2019	9:39:55 AM	11.387	18.1718	35.3094	0.7216	4.76E-02	0.0681	4.64E+04	7.9273	103.862	11.469	-0.631	-0.1	25.468	0.00E+00
10/12/2019	9:39:04 AM	11.524	18.1956	35.3032	0.7109	4.76E-02	0.0666	4.65E+04	7.9434	103.703	11.593	0.874	0.2	25.455	0.00E+00
10/12/2019	9:39:55 AM	11.539	18.1689	35.3095	0.7201	4.76E-02	0.0681	4.64E+04	7.9203	103.769	11.599	-0.606	-0.13	25.4689	0.00E+00
10/12/2019	9:39:55 AM	11.692	18.1658	35.3092	0.7224	4.76E-02	0.0573	4.64E+04	7.9169	103.721	11.727	-0.573	-0.12	25.4693	0.00E+00
10/12/2019	9:39:04 AM	11.736	18.1936	35.303	0.7094	4.76E-02	0.0681	4.65E+04	7.9397	103.539	11.824	0.916	0.17	25.4553	0.00E+00
10/12/2019	9:39:54 AM	11.845	18.1627	35.3088	0.7208	4.76E-02	0.0899	4.64E+04	7.9158	103.703	11.903	-0.544	-0.07	25.4697	0.00E+00
10/12/2019	9:39:04 AM	11.947	18.1915	35.3027	0.7079	4.76E-02	0.0681	4.65E+04	7.9374	103.387	12.054	0.936	0.08	25.4555	0.00E+00
10/12/2019	9:39:54 AM	11.999	18.1599	35.309	0.7185	4.76E-02	0.0961	4.64E+04	7.9128	103.662	12.091	-0.526	0.03	25.4705	0.00E+00
10/12/2019	9:39:54 AM	12.151	18.1572	35.3095	0.7201	4.76E-02	0.093	4.64E+04	7.9166	103.712	12.291	-0.534	0.1	25.4716	0.00E+00
10/12/2019	9:39:04 AM	12.155	18.1893	35.3026	0.7117	4.76E-02	0.0635	4.65E+04	7.9338	103.229	12.262	0.926	-0.04	25.4559	0.00E+00
10/12/2019	9:39:54 AM	12.298	18.1545	35.3104	0.7201	4.76E-02	0.093	4.64E+04	7.9189	103.74	12.45	-0.559	0.1	25.4732	0.00E+00
10/12/2019	9:39:05 AM	12.362	18.1869	35.3027	0.6834	4.76E-02	0.0681	4.65E+04	7.9258	103.037	12.443	0.896	-0.12	25.4565	0.00E+00

10/12/2019	9:39:54 AM	12.442	18.1515	35.3122	0.7361	4.76E-02	0.0681	4.64E+04	7.9273	103.849	12.561	-0.584	0.08	25.4757	0.00E+00
10/12/2019	9:39:05 AM	12.568	18.1844	35.3029	0.6827	4.76E-02	0.0619	4.65E+04	7.9181	102.885	12.612	0.859	-0.15	25.4572	0.00E+00
10/12/2019	9:39:53 AM	12.582	18.148	35.3146	0.73	4.76E-02	0.0681	4.64E+04	7.9309	103.894	12.655	-0.604	0.03	25.479	0.00E+00
10/12/2019	9:39:53 AM	12.723	18.1434	35.3166	0.7315	4.76E-02	0.0681	4.64E+04	7.9364	103.963	12.756	-0.613	-0.04	25.4822	0.00E+00
10/12/2019	9:39:05 AM	12.775	18.1816	35.3028	0.6857	4.76E-02	0.0712	4.64E+04	7.9117	102.776	12.799	0.827	-0.13	25.4577	0.00E+00
10/12/2019	9:39:53 AM	12.865	18.1376	35.3179	0.7338	4.76E-02	0.065	4.64E+04	7.9378	103.979	12.887	-0.603	-0.06	25.485	0.00E+00
10/12/2019	9:39:06 AM	12.984	18.1785	35.3024	0.6865	4.76E-02	0.0666	4.64E+04	7.9153	102.792	13.018	0.81	-0.07	25.458	0.00E+00
10/12/2019	9:39:53 AM	13.009	18.1308	35.319	0.7315	4.76E-02	0.0386	4.64E+04	7.9333	103.916	13.061	-0.589	-0.05	25.4879	0.00E+00
10/12/2019	9:39:52 AM	13.155	18.1234	35.3208	0.73	4.76E-02	0.0479	4.64E+04	7.9317	103.891	13.219	-0.577	-0.04	25.4915	0.00E+00
10/12/2019	9:39:06 AM	13.196	18.175	35.3019	0.6827	4.76E-02	0.0557	4.64E+04	7.92	102.772	13.237	0.8	-0.04	25.4583	0.00E+00
10/12/2019	9:39:52 AM	13.301	18.1153	35.3244	0.7353	4.76E-02	0.0417	4.64E+04	7.9311	103.877	13.409	-0.568	-0.02	25.497	0.00E+00
10/12/2019	9:39:06 AM	13.41	18.1713	35.3015	0.6827	4.76E-02	0.093	4.64E+04	7.9301	102.781	13.443	0.793	-0.03	25.4588	0.00E+00
10/12/2019	9:39:52 AM	13.446	18.1062	35.3295	0.7338	4.76E-02	0.0433	4.64E+04	7.9257	103.8	13.554	-0.563	-0.07	25.5043	0.00E+00
10/12/2019	9:39:51 AM	13.589	18.095	35.3338	0.73	4.76E-02	0.0386	4.64E+04	7.9212	103.736	13.667	-0.546	-0.11	25.5115	0.00E+00
10/12/2019	9:39:06 AM	13.627	18.1673	35.3012	0.6888	4.76E-02	0.0961	4.64E+04	7.9367	102.754	13.643	0.793	0	25.4594	0.00E+00
10/12/2019	9:39:51 AM	13.732	18.0812	35.3368	0.7903	4.76E-02	0.1163	4.63E+04	7.9193	103.71	13.818	-0.519	-0.09	25.5181	0.00E+00
10/12/2019	9:39:07 AM	13.847	18.163	35.3009	0.6827	4.76E-02	0.0852	4.64E+04	7.9318	102.619	13.864	0.807	0.06	25.4601	0.00E+00
10/12/2019	9:39:51 AM	13.874	18.0655	35.3386	0.7933	4.76E-02	0.1148	4.63E+04	7.919	103.704	13.968	-0.498	-0.01	25.5239	0.00E+00
10/12/2019	9:39:51 AM	14.015	18.0484	35.3391	0.788	4.76E-02	0.1148	4.63E+04	7.9235	103.758	14.104	-0.495	0.05	25.5287	0.00E+00
10/12/2019	9:39:07 AM	14.071	18.1579	35.3004	0.6834	4.76E-02	0.0899	4.64E+04	7.9247	102.456	14.112	0.836	0.12	25.4607	0.00E+00
10/12/2019	9:39:51 AM	14.154	18.0305	35.3412	0.7895	4.76E-02	0.1163	4.63E+04	7.9248	103.769	14.258	-0.508	0.12	25.5351	0.00E+00
10/12/2019	9:39:50 AM	14.293	18.0124	35.3472	0.8536	4.76E-02	0.0852	4.63E+04	7.9294	103.822	14.395	-0.538	0.17	25.5453	0.00E+00
10/12/2019	9:39:07 AM	14.297	18.1511	35.2991	0.6857	4.76E-02	0.0681	4.64E+04	7.912	102.233	14.343	0.864	0.11	25.4607	0.00E+00
10/12/2019	9:39:50 AM	14.43	17.993	35.3534	0.8528	4.76E-02	0.093	4.63E+04	7.9321	103.85	14.541	-0.581	0.19	25.5563	0.00E+00
10/12/2019	9:39:07 AM	14.526	18.1411	35.296	0.6873	4.76E-02	0.065	4.64E+04	7.885	101.832	14.558	0.879	0.06	25.4597	0.00E+00
10/12/2019	9:39:50 AM	14.566	17.9706	35.3556	0.8536	4.76E-02	0.0883	4.62E+04	7.933	103.855	14.65	-0.629	0.16	25.5644	0.00E+00
10/12/2019	9:39:49 AM	14.702	17.9452	35.3569	0.8521	4.76E-02	0.0914	4.62E+04	7.9356	103.883	14.733	-0.669	0.04	25.5721	0.00E+00
10/12/2019	9:39:07 AM	14.758	18.1256	35.2902	0.6827	4.76E-02	0.0619	4.64E+04	7.853	101.383	14.752	0.878	0	25.457	0.00E+00
10/12/2019	9:39:49 AM	14.84	17.9189	35.3616	0.9787	4.76E-02	0.0681	4.62E+04	7.931	103.823	14.848	-0.68	-0.06	25.5828	0.00E+00
10/12/2019	9:39:49 AM	14.983	17.892	35.3651	0.9818	4.76E-02	0.0728	4.62E+04	7.9317	103.826	14.976	-0.664	-0.13	25.5927	0.00E+00
10/12/2019	9:39:08 AM	14.996	18.1018	35.2804	0.685	4.76E-02	0.0681	4.64E+04	7.8202	100.93	14.974	0.879	0	25.4519	0.00E+00
10/12/2019	9:39:49 AM	15.131	17.8633	35.3645	0.9787	4.76E-02	0.0681	4.61E+04	7.9246	103.73	15.147	-0.633	-0.13	25.5993	0.00E+00
10/12/2019	9:39:08 AM	15.239	18.0676	35.2654	0.7315	4.76E-02	0.0681	4.63E+04	7.7952	100.571	15.225	0.889	0.04	25.4443	0.00E+00
10/12/2019	9:39:49 AM	15.283	17.8337	35.3617	0.9833	4.76E-02	0.0666	4.61E+04	7.9233	103.709	15.331	-0.599	-0.08	25.6037	0.00E+00
10/12/2019	9:39:48 AM	15.438	17.8049	35.3562	0.9795	4.76E-02	0.0914	4.61E+04	7.9232	103.698	15.511	-0.578	-0.04	25.6052	0.00E+00
10/12/2019	9:39:08 AM	15.488	18.0243	35.2474	0.7315	4.76E-02	0.0666	4.63E+04	7.777	100.298	15.51	0.912	0.09	25.4364	0.00E+00
10/12/2019	9:39:48 AM	15.593	17.7783	35.349	0.9802	4.76E-02	0.093	4.60E+04	7.9258	103.719	15.699	-0.569	0.04	25.6043	0.00E+00
10/12/2019	9:39:09 AM	15.742	17.9761	35.2336	0.73	4.76E-02	0.0681	4.62E+04	7.7668	100.133	15.791	0.939	0.11	25.4343	0.00E+00
10/12/2019	9:39:48 AM	15.747	17.7551	35.3415	0.984	4.76E-02	0.0899	4.60E+04	7.9271	103.717	15.865	-0.579	0.06	25.6022	0.00E+00
10/12/2019	9:39:47 AM	15.899	17.7362	35.3355	0.9802	4.76E-02	0.0899	4.60E+04	7.9315	103.762	16.028	-0.595	0.09	25.6005	0.00E+00
10/12/2019	9:39:09 AM	15.998	17.9263	35.2279	0.7323	4.76E-02	0.0635	4.62E+04	7.7582	99.986	16.063	0.969	0.12	25.4405	0.00E+00
10/12/2019	9:39:47 AM	16.049	17.7213	35.3328	0.9795	4.76E-02	0.0977	4.60E+04	7.9364	103.817	16.16	-0.617	0.09	25.601	0.00E+00
10/12/2019	9:39:47 AM	16.198	17.7094	35.333	1.0451	4.76E-02	0.1101	4.60E+04	7.9389	103.832	16.272	-0.639	0.04	25.6038	0.00E+00
10/12/2019	9:39:09 AM	16.256	17.8772	35.227	0.8658	4.76E-02	0.0945	4.61E+04	7.7559	99.926	16.323	1.004	0.14	25.4517	0.00E+00
10/12/2019	9:39:47 AM	16.348	17.6989	35.3348	1.0443	4.76E-02	0.1148	4.60E+04	7.9381	103.802	16.408	-0.648	0.03	25.6081	0.00E+00
10/12/2019	9:39:47 AM	16.5	17.6881	35.3379	1.0405	4.76E-02	0.1132	4.60E+04	7.9398	103.791	16.545	-0.656	0	25.6139	0.00E+00
10/12/2019	9:39:09 AM	16.515	17.8319	35.2298	0.8643	4.76E-02	0.0914	4.61E+04	7.7571	99.879	16.579	1.036	0.13	25.4661	0.00E+00
10/12/2019	9:39:46 AM	16.654	17.6761	35.3426	1.0413	4.76E-02	0.1132	4.59E+04	7.9393	103.744	16.713	-0.656	0.02	25.6215	0.00E+00
10/12/2019	9:39:09 AM	16.775	17.7926	35.2384	0.865	4.76E-02	0.0945	4.61E+04	7.7639	99.871	16.853	1.065	0.11	25.4848	0.00E+00
10/12/2019	9:39:46 AM	16.811	17.6622	35.3486	0.984	4.76E-02	0.1241	4.59E+04	7.9456	103.796	16.876	-0.661	0.01	25.631	0.00E+00
10/12/2019	9:39:46 AM	16.969	17.6455	35.3547	0.9825	4.76E-02	0.1318	4.59E+04	7.948	103.781	17.055	-0.662	0.03	25.6412	0.00E+00

10/12/2019	9:39:10 AM	17.037	17.7589	35.2505	0.8643	4.76E-02	0.0961	4.60E+04	7.7712	99.842	17.139	1.081	0.06	25.5053	0.00E+00
10/12/2019	9:39:46 AM	17.128	17.6257	35.3591	0.981	4.76E-02	0.135	4.59E+04	7.9487	103.772	17.211	-0.669	0.01	25.6506	0.00E+00
10/12/2019	9:39:45 AM	17.287	17.6029	35.3621	0.981	4.76E-02	0.1241	4.59E+04	7.9545	103.815	17.363	-0.671	-0.01	25.6592	0.00E+00
10/12/2019	9:39:10 AM	17.298	17.727	35.2604	0.8627	4.76E-02	0.0883	4.60E+04	7.7622	99.616	17.406	1.083	0.01	25.5225	0.00E+00
10/12/2019	9:39:45 AM	17.448	17.5783	35.3635	1.0664	4.76E-02	0.2064	4.59E+04	7.9577	103.811	17.533	-0.669	-0.02	25.6665	0.00E+00
10/12/2019	9:39:10 AM	17.559	17.6921	35.263	0.981	4.76E-02	0.1008	4.60E+04	7.7542	99.44	17.658	1.074	-0.03	25.5327	0.00E+00
10/12/2019	9:39:45 AM	17.61	17.5526	35.3633	1.0672	4.76E-02	0.2064	4.58E+04	7.9649	103.829	17.689	-0.664	-0.06	25.6725	0.00E+00
10/12/2019	9:39:44 AM	17.772	17.5268	35.3619	1.0649	4.76E-02	0.2002	4.58E+04	7.9669	103.81	17.867	-0.65	-0.06	25.6772	0.00E+00
10/12/2019	9:39:11 AM	17.82	17.6512	35.2564	0.9795	4.76E-02	0.0945	4.59E+04	7.7395	99.22	17.909	1.065	-0.04	25.5355	0.00E+00
10/12/2019	9:39:44 AM	17.935	17.5016	35.3601	1.0672	4.76E-02	0.2018	4.58E+04	7.9633	103.715	18.032	-0.634	-0.07	25.6813	0.00E+00
10/12/2019	9:39:11 AM	18.081	17.6068	35.2459	0.981	4.76E-02	0.0914	4.59E+04	7.7249	99.017	18.174	1.061	-0.02	25.536	0.00E+00
10/12/2019	9:39:44 AM	18.098	17.4777	35.3597	1.1481	4.76E-02	0.2546	4.58E+04	7.9659	103.693	18.211	-0.616	-0.03	25.6864	0.00E+00
10/12/2019	9:39:44 AM	18.26	17.4549	35.3605	1.1511	4.76E-02	0.2531	4.57E+04	7.9598	103.527	18.371	-0.609	-0.02	25.6923	0.00E+00
10/12/2019	9:39:11 AM	18.343	17.5644	35.2424	0.9825	4.76E-02	0.0899	4.58E+04	7.7083	98.791	18.452	1.062	0.01	25.5433	0.00E+00
10/12/2019	9:39:44 AM	18.421	17.4328	35.3609	1.1496	4.76E-02	0.25	4.57E+04	7.9541	103.403	18.54	-0.604	0.05	25.6978	0.00E+00
10/12/2019	9:39:43 AM	18.582	17.4109	35.3601	1.1496	4.76E-02	0.2562	4.57E+04	7.9412	103.167	18.698	-0.616	0.08	25.7019	0.00E+00
10/12/2019	9:39:11 AM	18.604	17.5266	35.25	1.0184	4.76E-02	0.1241	4.58E+04	7.6942	98.572	18.723	1.063	0	25.56	0.00E+00
10/12/2019	9:39:43 AM	18.742	17.3898	35.3591	1.1519	4.76E-02	0.2655	4.57E+04	7.9224	102.884	18.866	-0.635	0.12	25.7056	0.00E+00
10/12/2019	9:39:11 AM	18.865	17.4926	35.261	1.0207	4.76E-02	0.1225	4.58E+04	7.6777	98.324	18.981	1.058	-0.02	25.5787	0.00E+00
10/12/2019	9:39:43 AM	18.901	17.3701	35.3595	1.1244	4.76E-02	0.2779	4.57E+04	7.9034	102.607	19.017	-0.665	0.1	25.7101	0.00E+00
10/12/2019	9:39:42 AM	19.059	17.3517	35.3611	1.1267	4.76E-02	0.2748	4.56E+04	7.8863	102.366	19.155	-0.69	0.05	25.7157	0.00E+00
10/12/2019	9:39:12 AM	19.124	17.4621	35.2695	1.0184	4.76E-02	0.1163	4.57E+04	7.6645	98.078	19.242	1.054	-0.02	25.5944	0.00E+00
10/12/2019	9:39:42 AM	19.218	17.3341	35.3651	1.1282	4.76E-02	0.2826	4.56E+04	7.8772	102.243	19.298	-0.702	0	25.7234	0.00E+00
10/12/2019	9:39:42 AM	19.378	17.3162	35.372	1.1275	4.76E-02	0.281	4.56E+04	7.8662	102.086	19.437	-0.702	-0.04	25.7343	0.00E+00
10/12/2019	9:39:12 AM	19.383	17.4357	35.2784	1.0199	4.76E-02	0.1148	4.57E+04	7.6554	97.876	19.506	1.056	0.01	25.6095	0.00E+00
10/12/2019	9:39:42 AM	19.541	17.2965	35.3797	1.2496	4.76E-02	0.5017	4.56E+04	7.8587	101.978	19.608	-0.693	-0.02	25.7467	0.00E+00
10/12/2019	9:39:12 AM	19.642	17.4125	35.2879	1.0077	4.76E-02	0.1318	4.57E+04	7.6373	97.557	19.76	1.058	0.01	25.6242	0.00E+00
10/12/2019	9:39:42 AM	19.707	17.2734	35.3857	1.2496	4.76E-02	0.5033	4.56E+04	7.8467	101.797	19.768	-0.687	-0.05	25.7582	0.00E+00
10/12/2019	9:39:41 AM	19.875	17.2467	35.389	1.2496	4.76E-02	0.5048	4.55E+04	7.8474	101.786	19.966	-0.673	-0.02	25.768	0.00E+00
10/12/2019	9:39:12 AM	19.899	17.3907	35.2946	1.0092	4.76E-02	0.1287	4.57E+04	7.6213	97.284	20.022	1.056	-0.01	25.6357	0.00E+00
10/12/2019	9:39:41 AM	20.045	17.2175	35.3884	1.2488	4.76E-02	0.5017	4.55E+04	7.8516	101.805	20.153	-0.667	-0.01	25.7744	0.00E+00
10/12/2019	9:39:13 AM	20.156	17.3691	35.2977	1.0062	4.76E-02	0.135	4.57E+04	7.5992	96.931	20.295	1.053	-0.01	25.6437	0.00E+00
10/12/2019	9:39:41 AM	20.215	17.1876	35.3864	1.2862	4.76E-02	0.5064	4.55E+04	7.8416	101.632	20.347	-0.664	0.05	25.7794	0.00E+00
10/12/2019	9:39:40 AM	20.384	17.1589	35.3891	1.2854	4.76E-02	0.5017	4.55E+04	7.8347	101.489	20.51	-0.677	0.06	25.7884	0.00E+00
10/12/2019	9:39:13 AM	20.411	17.3472	35.2989	1.0054	4.76E-02	0.1365	4.56E+04	7.573	96.503	20.538	1.044	-0.04	25.6499	0.00E+00
10/12/2019	9:39:40 AM	20.553	17.1315	35.397	1.2869	4.76E-02	0.5048	4.54E+04	7.8299	101.37	20.662	-0.691	0.05	25.8023	0.00E+00
10/12/2019	9:39:13 AM	20.666	17.3241	35.299	1.1298	4.76E-02	0.3712	4.56E+04	7.537	95.948	20.766	1.031	-0.05	25.6552	0.00E+00
10/12/2019	9:39:40 AM	20.722	17.1027	35.4039	1.2847	4.76E-02	0.5017	4.54E+04	7.8349	101.387	20.812	-0.704	0.01	25.816	0.00E+00
10/12/2019	9:39:40 AM	20.893	17.0702	35.4054	1.528	4.76E-02	0.2997	4.54E+04	7.8365	101.343	20.986	-0.706	-0.01	25.8255	0.00E+00
10/12/2019	9:39:14 AM	20.922	17.2987	35.2974	1.1244	4.76E-02	0.3758	4.56E+04	7.489	95.258	21.01	1.019	-0.05	25.6593	0.00E+00
10/12/2019	9:39:40 AM	21.065	17.035	35.4025	1.5296	4.76E-02	0.309	4.53E+04	7.8415	101.37	21.17	-0.703	0.03	25.831	0.00E+00
10/12/2019	9:39:14 AM	21.179	17.2689	35.2934	1.1275	4.76E-02	0.3852	4.56E+04	7.4454	94.639	21.272	1.011	-0.03	25.6618	0.00E+00
10/12/2019	9:39:39 AM	21.238	17	35.3987	1.5303	4.76E-02	0.3059	4.53E+04	7.8358	101.238	21.333	-0.711	0.04	25.8353	0.00E+00
10/12/2019	9:39:39 AM	21.412	16.9673	35.3982	1.5318	4.76E-02	0.3075	4.53E+04	7.8348	101.2	21.505	-0.722	0.06	25.8419	0.00E+00
10/12/2019	9:39:14 AM	21.437	17.2327	35.2859	1.126	4.76E-02	0.3805	4.55E+04	7.3838	93.814	21.554	1.012	0	25.6621	0.00E+00
10/12/2019	9:39:39 AM	21.588	16.9371	35.3992	1.5326	4.76E-02	0.3043	4.52E+04	7.8295	101.081	21.667	-0.738	0.05	25.8496	0.00E+00
10/12/2019	9:39:14 AM	21.696	17.1907	35.2748	1.1252	4.76E-02	0.3743	4.55E+04	7.3268	93.053	21.828	1.019	0.03	25.6608	0.00E+00
10/12/2019	9:39:39 AM	21.766	16.9077	35.3978	1.4441	4.76E-02	0.3743	4.52E+04	7.8262	101.002	21.86	-0.75	0.06	25.8549	0.00E+00
10/12/2019	9:39:38 AM	21.946	16.8787	35.3939	1.4472	4.76E-02	0.3712	4.52E+04	7.8214	100.89	22.044	-0.765	0.06	25.8578	0.00E+00
10/12/2019	9:39:14 AM	21.954	17.1471	35.266	1.2244	4.76E-02	0.6276	4.54E+04	7.2661	92.259	22.083	1.025	0.02	25.6628	0.00E+00
10/12/2019	9:39:38 AM	22.127	16.8514	35.3901	1.4464	4.76E-02	0.3821	4.52E+04	7.8141	100.767	22.231	-0.779	0.05	25.8603	0.00E+00

10/12/2019	9:39:15 AM	22.212	17.1079	35.267	1.2251	4.76E-02	0.6292	4.54E+04	7.2106	91.517	22.33	1.029	0.02	25.6736	0.00E+00
10/12/2019	9:39:38 AM	22.31	16.8268	35.3883	1.4456	4.76E-02	0.3852	4.51E+04	7.8025	100.59	22.395	-0.791	0.07	25.8639	0.00E+00
10/12/2019	9:39:15 AM	22.47	17.0763	35.2784	1.2244	4.76E-02	0.6292	4.54E+04	7.165	90.874	22.589	1.04	0.04	25.6928	0.00E+00
10/12/2019	9:39:37 AM	22.496	16.8043	35.3874	1.4227	4.76E-02	0.424	4.51E+04	7.7836	100.322	22.555	-0.807	0.05	25.868	0.00E+00
10/12/2019	9:39:37 AM	22.685	16.7831	35.3856	1.422	4.76E-02	0.4318	4.51E+04	7.7725	100.157	22.756	-0.821	0.06	25.8712	0.00E+00
10/12/2019	9:39:15 AM	22.728	17.0515	35.2938	1.2206	4.76E-02	0.6354	4.54E+04	7.1288	90.346	22.858	1.05	0.04	25.7141	0.00E+00
10/12/2019	9:39:37 AM	22.878	16.7626	35.3833	1.4212	4.76E-02	0.4287	4.51E+04	7.7513	99.851	22.961	-0.835	0.09	25.8736	0.00E+00
10/12/2019	9:39:16 AM	22.986	17.0299	35.3061	1.3609	4.76E-02	0.4815	4.53E+04	7.0969	89.888	23.151	1.06	0.04	25.7311	0.00E+00
10/12/2019	9:39:37 AM	23.073	16.7434	35.3815	1.4212	4.76E-02	0.424	4.51E+04	7.7351	99.596	23.173	-0.859	0.1	25.8762	0.00E+00
10/12/2019	9:39:16 AM	23.241	17.0078	35.3113	1.3632	4.76E-02	0.48	4.53E+04	7.0639	89.432	23.434	1.067	0.03	25.7409	0.00E+00
10/12/2019	9:39:37 AM	23.271	16.7255	35.3812	1.3968	4.76E-02	0.4256	4.50E+04	7.7122	99.231	23.371	-0.884	0.08	25.8798	0.00E+00
10/12/2019	9:39:36 AM	23.47	16.7088	35.3827	1.3976	4.76E-02	0.4287	4.50E+04	7.6794	98.746	23.566	-0.902	0.01	25.885	0.00E+00
10/12/2019	9:39:16 AM	23.493	16.9822	35.3091	1.3594	4.76E-02	0.4753	4.53E+04	7.0419	89.123	23.679	1.065	-0.01	25.7444	0.00E+00
10/12/2019	9:39:36 AM	23.672	16.6924	35.3853	1.396	4.76E-02	0.4287	4.50E+04	7.6524	98.332	23.761	-0.904	-0.06	25.8913	0.00E+00
10/12/2019	9:39:16 AM	23.742	16.9518	35.3026	1.3564	4.76E-02	0.4784	4.53E+04	7.0223	88.839	23.922	1.062	-0.01	25.7446	0.00E+00
10/12/2019	9:39:36 AM	23.876	16.6753	35.3873	1.3976	4.76E-02	0.4271	4.50E+04	7.6226	97.907	23.948	-0.889	-0.16	25.8974	0.00E+00
10/12/2019	9:39:16 AM	23.988	16.9161	35.294	1.3831	4.76E-02	0.5561	4.52E+04	7.0001	88.523	24.161	1.056	-0.02	25.7442	0.00E+00
10/12/2019	9:39:35 AM	24.084	16.6571	35.3881	1.4723	4.76E-02	0.4038	4.50E+04	7.5887	97.437	24.189	-0.85	-0.19	25.9025	0.00E+00
10/12/2019	9:39:17 AM	24.231	16.8768	35.2853	1.3846	4.76E-02	0.5468	4.52E+04	6.9802	88.226	24.388	1.04	-0.06	25.7447	0.00E+00
10/12/2019	9:39:35 AM	24.293	16.638	35.3872	1.4708	4.76E-02	0.4069	4.50E+04	7.5513	96.912	24.427	-0.803	-0.14	25.9061	0.00E+00
10/12/2019	9:39:17 AM	24.473	16.8366	35.2808	1.3838	4.76E-02	0.5577	4.51E+04	6.9544	87.852	24.636	1.019	-0.08	25.7497	0.00E+00
10/12/2019	9:39:35 AM	24.503	16.6188	35.3836	1.47	4.76E-02	0.4023	4.49E+04	7.5174	96.405	24.648	-0.768	-0.09	25.9071	0.00E+00
10/12/2019	9:39:35 AM	24.711	16.6006	35.3786	1.467	4.76E-02	0.4023	4.49E+04	7.4894	95.953	24.898	-0.745	0.01	25.9063	0.00E+00
10/12/2019	9:39:17 AM	24.713	16.7962	35.2811	1.3846	4.76E-02	0.5561	4.51E+04	6.9275	87.469	24.886	0.997	-0.09	25.7593	0.00E+00
10/12/2019	9:39:35 AM	24.917	16.5847	35.3745	1.4685	4.76E-02	0.4054	4.49E+04	7.4646	95.571	25.122	-0.747	0.04	25.9056	0.00E+00
10/12/2019	9:39:18 AM	24.952	16.7546	35.2818	1.4105	4.76E-02	0.4769	4.51E+04	6.8974	87.056	25.116	0.973	-0.1	25.7693	0.00E+00
10/12/2019	9:39:34 AM	25.12	16.5716	35.3727	1.4678	4.76E-02	0.3261	4.49E+04	7.4403	95.199	25.339	-0.758	0.08	25.9065	0.00E+00
10/12/2019	9:39:18 AM	25.189	16.712	35.2801	1.4098	4.76E-02	0.4737	4.50E+04	6.8584	86.54	25.329	0.953	-0.08	25.7776	0.00E+00
10/12/2019	9:39:34 AM	25.317	16.5608	35.3741	1.4723	4.76E-02	0.3323	4.49E+04	7.4204	94.908	25.525	-0.779	0.04	25.9101	0.00E+00
10/12/2019	9:39:18 AM	25.425	16.6709	35.2794	1.4075	4.76E-02	0.4753	4.50E+04	6.8128	85.945	25.556	0.943	-0.04	25.7869	0.00E+00
10/12/2019	9:39:34 AM	25.511	16.551	35.3789	1.4678	4.76E-02	0.3261	4.49E+04	7.3931	94.505	25.704	-0.789	-0.02	25.917	0.00E+00
10/12/2019	9:39:18 AM	25.663	16.6339	35.2841	1.4098	4.76E-02	0.4769	4.49E+04	6.7642	85.32	25.789	0.935	-0.03	25.8006	0.00E+00
10/12/2019	9:39:33 AM	25.701	16.5403	35.3848	1.4685	4.76E-02	0.3292	4.49E+04	7.3751	94.211	25.868	-0.784	-0.12	25.9253	0.00E+00
10/12/2019	9:39:33 AM	25.89	16.5269	35.3895	1.3976	4.76E-02	0.3214	4.48E+04	7.3549	93.907	26.019	-0.753	-0.21	25.9332	0.00E+00
10/12/2019	9:39:18 AM	25.901	16.6018	35.2933	1.4037	4.76E-02	0.4753	4.49E+04	6.7101	84.629	26.031	0.931	-0.01	25.8173	0.00E+00
10/12/2019	9:39:33 AM	26.079	16.5107	35.3921	1.396	4.76E-02	0.3308	4.48E+04	7.3392	93.664	26.225	-0.699	-0.22	25.9398	0.00E+00
10/12/2019	9:39:19 AM	26.14	16.5738	35.3029	1.3327	4.76E-02	0.4256	4.49E+04	6.6626	84.025	26.291	0.936	0.02	25.8334	0.00E+00
10/12/2019	9:39:33 AM	26.268	16.4923	35.3925	1.3991	4.76E-02	0.337	4.48E+04	7.3218	93.412	26.44	-0.644	-0.15	25.9446	0.00E+00
10/12/2019	9:39:19 AM	26.379	16.5485	35.3109	1.3365	4.76E-02	0.4333	4.49E+04	6.6134	83.406	26.539	0.941	0.02	25.8471	0.00E+00
10/12/2019	9:39:32 AM	26.456	16.4728	35.3909	1.3953	4.76E-02	0.3261	4.48E+04	7.3109	93.238	26.67	-0.606	-0.05	25.9475	0.00E+00
10/12/2019	9:39:19 AM	26.617	16.5236	35.3157	1.3365	4.76E-02	0.4271	4.48E+04	6.5821	83.013	26.756	0.943	0.01	25.8574	0.00E+00
10/12/2019	9:39:32 AM	26.639	16.4535	35.3883	1.4304	4.76E-02	0.2795	4.48E+04	7.2894	92.922	26.866	-0.593	0.07	25.9493	0.00E+00
10/12/2019	9:39:32 AM	26.818	16.4356	35.3856	1.4372	4.76E-02	0.2826	4.48E+04	7.268	92.616	27.067	-0.609	0.18	25.9506	0.00E+00
10/12/2019	9:39:19 AM	26.856	16.4965	35.316	1.3342	4.76E-02	0.4302	4.48E+04	6.5424	82.514	26.972	0.945	0.01	25.8635	0.00E+00
10/12/2019	9:39:32 AM	26.991	16.4194	35.384	1.4342	4.76E-02	0.2857	4.47E+04	7.2485	92.341	27.228	-0.653	0.2	25.9525	0.00E+00
10/12/2019	9:39:20 AM	27.098	16.467	35.3115	1.4556	4.76E-02	0.3587	4.48E+04	6.5186	82.213	27.201	0.945	0	25.8659	0.00E+00
10/12/2019	9:39:32 AM	27.159	16.405	35.3855	1.4311	4.76E-02	0.2733	4.47E+04	7.2295	92.078	27.373	-0.702	0.15	25.9571	0.00E+00
10/12/2019	9:39:31 AM	27.323	16.3914	35.3909	1.2892	4.76E-02	0.2515	4.47E+04	7.2161	91.882	27.488	-0.739	0.01	25.9653	0.00E+00
10/12/2019	9:39:20 AM	27.341	16.4375	35.3074	1.4601	4.76E-02	0.3556	4.48E+04	6.4986	81.96	27.46	0.947	0.01	25.8691	0.00E+00
10/12/2019	9:39:31 AM	27.487	16.3768	35.3972	1.2862	4.76E-02	0.2531	4.47E+04	7.2012	91.664	27.619	-0.742	-0.05	25.9749	0.00E+00
10/12/2019	9:39:20 AM	27.587	16.4107	35.3094	1.4601	4.76E-02	0.3541	4.47E+04	6.4898	81.846	27.729	0.953	0.03	25.8776	0.00E+00

10/12/2019	9:39:31 AM	27.652	16.3594	35.4017	1.2854	4.76E-02	0.2593	4.47E+04	7.1905	91.491	27.754	-0.729	-0.1	25.9835	0.00E+00
10/12/2019	9:39:30 AM	27.819	16.3391	35.4036	1.2877	4.76E-02	0.2562	4.47E+04	7.1779	91.289	27.934	-0.704	-0.11	25.9902	0.00E+00
10/12/2019	9:39:21 AM	27.833	16.3866	35.3156	1.4548	4.76E-02	0.3556	4.47E+04	6.4877	81.82	28	0.965	0.05	25.8892	0.00E+00
10/12/2019	9:39:30 AM	27.988	16.3169	35.402	1.2885	4.76E-02	0.2608	4.46E+04	7.1662	91.103	28.113	-0.676	-0.17	25.9938	0.00E+00
10/12/2019	9:39:21 AM	28.079	16.3638	35.321	1.5677	4.76E-02	0.3028	4.47E+04	6.4845	81.785	28.264	0.98	0.06	25.8996	0.00E+00
10/12/2019	9:39:30 AM	28.159	16.2944	35.3971	1.1977	4.76E-02	0.281	4.46E+04	7.1552	90.922	28.341	-0.634	-0.15	25.9941	0.00E+00
10/12/2019	9:39:21 AM	28.324	16.3412	35.3235	1.5685	4.76E-02	0.3028	4.47E+04	6.4881	81.837	28.524	1.003	0.09	25.9071	0.00E+00
10/12/2019	9:39:30 AM	28.329	16.2736	35.3906	1.2015	4.76E-02	0.2795	4.46E+04	7.1416	90.723	28.561	-0.596	-0.1	25.9923	0.00E+00
10/12/2019	9:39:30 AM	28.494	16.2558	35.3838	1.2007	4.76E-02	0.2857	4.46E+04	7.1213	90.451	28.752	-0.57	-0.07	25.9895	0.00E+00
10/12/2019	9:39:21 AM	28.565	16.3182	35.3237	1.5639	4.76E-02	0.295	4.46E+04	6.4923	81.898	28.778	1.027	0.1	25.9126	0.00E+00
10/12/2019	9:39:29 AM	28.654	16.2419	35.3781	1.1992	4.76E-02	0.2795	4.46E+04	7.1059	90.25	28.904	-0.551	-0.07	25.9868	0.00E+00
10/12/2019	9:39:21 AM	28.803	16.2949	35.3234	1.5662	4.76E-02	0.3043	4.46E+04	6.5004	82.007	29.037	1.043	0.07	25.9176	0.00E+00
10/12/2019	9:39:29 AM	28.809	16.2318	35.3737	1.3083	4.76E-02	0.4038	4.46E+04	7.0857	89.987	29.019	-0.534	-0.1	25.9845	0.00E+00
10/12/2019	9:39:29 AM	28.96	16.2247	35.3703	1.3098	4.76E-02	0.4023	4.45E+04	7.0636	89.694	29.177	-0.51	-0.06	25.9824	0.00E+00
10/12/2019	9:39:22 AM	29.037	16.2725	35.3236	1.3854	4.76E-02	0.3587	4.46E+04	6.5085	82.115	29.304	1.051	0.03	25.9231	0.00E+00
10/12/2019	9:39:28 AM	29.107	16.2202	35.3679	1.3098	4.76E-02	0.4085	4.45E+04	7.0423	89.4	29.351	-0.496	0.06	25.9809	0.00E+00
10/12/2019	9:39:28 AM	29.249	16.2175	35.3664	1.3083	4.76E-02	0.4023	4.45E+04	7.0241	89.128	29.518	-0.51	0.15	25.9799	0.00E+00
10/12/2019	9:39:22 AM	29.264	16.2524	35.326	1.3831	4.76E-02	0.3556	4.46E+04	6.5169	82.228	29.574	1.051	0	25.9303	0.00E+00
10/12/2019	9:39:28 AM	29.386	16.2161	35.3658	1.1519	4.76E-02	0.3821	4.45E+04	6.9767	88.493	29.632	-0.548	0.13	25.9795	0.00E+00
10/12/2019	9:39:22 AM	29.481	16.2356	35.3311	1.3823	4.76E-02	0.3572	4.46E+04	6.5296	82.39	29.835	1.049	-0.01	25.9395	0.00E+00
10/12/2019	9:39:28 AM	29.517	16.2155	35.3659	1.1534	4.76E-02	0.3805	4.45E+04	6.9364	87.933	29.745	-0.581	0.01	25.9797	0.00E+00
10/12/2019	9:39:28 AM	29.644	16.2151	35.3667	1.1496	4.76E-02	0.3821	4.45E+04	6.8868	87.274	29.866	-0.584	-0.15	25.9805	0.00E+00
10/12/2019	9:39:23 AM	29.687	16.222	35.3375	1.3854	4.76E-02	0.3572	4.45E+04	6.5384	82.501	30.106	1.051	0.01	25.9491	0.00E+00
10/12/2019	9:39:27 AM	29.768	16.2146	35.368	1.1504	4.76E-02	0.3789	4.45E+04	6.8294	86.51	29.982	-0.547	-0.29	25.9818	0.00E+00
10/12/2019	9:39:23 AM	29.877	16.2115	35.3438	1.3823	4.76E-02	0.351	4.45E+04	6.5511	82.66	30.372	1.055	0.02	25.9578	0.00E+00
10/12/2019	9:39:27 AM	29.888	16.2138	35.3696	1.1893	4.76E-02	0.3774	4.45E+04	6.775	85.804	30.104	-0.474	-0.4	25.9836	0.00E+00
10/12/2019	9:39:27 AM	30.005	16.2123	35.3711	1.1878	4.76E-02	0.3789	4.45E+04	6.7228	85.124	30.235	-0.374	-0.46	25.9854	0.00E+00
10/12/2019	9:39:23 AM	30.046	16.2038	35.3494	1.1626	4.76E-02	0.3712	4.45E+04	6.562	82.797	30.635	1.06	0.02	25.9653	0.00E+00
10/12/2019	9:39:26 AM	30.119	16.21	35.3721	1.1847	4.76E-02	0.3758	4.45E+04	6.6761	84.524	30.377	-0.26	-0.46	25.9869	0.00E+00
10/12/2019	9:39:23 AM	30.189	16.1985	35.3545	1.1626	4.76E-02	0.3789	4.45E+04	6.5684	82.876	30.853	1.051	-0.03	25.9716	0.00E+00
10/12/2019	9:39:26 AM	30.225	16.2071	35.3726	1.1862	4.76E-02	0.3836	4.45E+04	6.6413	84.066	30.567	-0.145	-0.36	25.9882	0.00E+00
10/12/2019	9:39:23 AM	30.303	16.1953	35.3589	1.1649	4.76E-02	0.3805	4.45E+04	6.5764	82.976	30.928	0.991	-0.24	25.9768	0.00E+00
10/12/2019	9:39:26 AM	30.321	16.2038	35.3727	1.1916	4.76E-02	0.3805	4.45E+04	6.6138	83.687	30.754	-0.054	-0.22	25.9889	0.00E+00
10/12/2019	9:39:24 AM	30.389	16.1938	35.3625	1.1664	4.76E-02	0.3727	4.45E+04	6.5808	83.03	30.932	0.876	-0.46	25.9809	0.00E+00
10/12/2019	9:39:26 AM	30.401	16.2003	35.3716	1.0787	4.76E-02	0.5375	4.45E+04	6.6031	83.505	30.897	0	-0.08	25.9887	0.00E+00
10/12/2019	9:39:24 AM	30.452	16.1931	35.3651	1.0916	4.76E-02	0.5017	4.45E+04	6.5983	83.255	30.936	0.724	-0.61	25.9836	0.00E+00
10/12/2019	9:39:25 AM	30.462	16.1971	35.3696	1.0809	4.76E-02	0.5235	4.45E+04	6.6047	83.483	30.962	0.019	-0.08	25.9875	0.00E+00
10/12/2019	9:39:24 AM	30.495	16.1928	35.3663	1.0909	4.76E-02	0.5064	4.45E+04	6.5972	83.245	30.94	0.555	-0.68	25.9849	0.00E+00
10/12/2019	9:39:25 AM	30.503	16.1946	35.3678	1.0794	4.76E-02	0.5297	4.45E+04	6.6016	83.396	30.966	0.039	-0.28	25.9862	0.00E+00
10/12/2019	9:39:25 AM	30.521	16.1927	35.3666	1.0924	4.76E-02	0.5017	4.45E+04	6.601	83.302	30.945	0.383	-0.69	25.9852	0.00E+00
10/12/2019	9:39:25 AM	30.525	16.1932	35.3668	1.0794	4.76E-02	0.525	4.45E+04	6.6012	83.351	30.959	0.109	-0.48	25.9855	0.00E+00
10/12/2019	9:39:25 AM	30.531	16.1927	35.3666	1.0878	4.76E-02	0.5048	4.45E+04	6.5976	83.278	30.951	0.229	-0.62	25.9853	0.00E+00

TRANSECT 2 - 1,500 m

DD MMM YYYY HH:MM:SS	DD MMM YYYY HH:MM:SS	DepSM	Tv290C	Sal00	FlECO-AFL	Par	TurbWETntu0	C0uS/cm	Sbeox0Mg/L	Sbeox0PS	PrdM	Dz/dtM	AccM	Sigma-t00	Flag
10/12/2019	9:43:09 AM	0.472	18.2837	35.3039	0.479	4.76E-02	0.3292	4.65E+04	6.9337	90.947	0.458	-0.448	0.12	25.4343	0.00E+00
10/12/2019	9:41:51 AM	0.497	18.2904	35.3003	0.4958	4.76E-02	0.8747	4.65E+04	7.842	102.905	0.44	0.096	0.17	25.4299	0.00E+00
10/12/2019	9:41:52 AM	0.544	18.2904	35.3005	0.4912	4.76E-02	0.8763	4.65E+04	7.8221	102.635	0.506	0.139	0.17	25.4301	0.00E+00
10/12/2019	9:43:09 AM	0.561	18.284	35.3045	0.4813	4.76E-02	0.3354	4.65E+04	6.9275	90.868	0.531	-0.478	-0.03	25.4347	0.00E+00
10/12/2019	9:41:52 AM	0.595	18.2903	35.3007	0.4912	4.76E-02	0.8778	4.65E+04	7.8095	102.465	0.546	0.172	0.13	25.4303	0.00E+00
10/12/2019	9:41:52 AM	0.649	18.2902	35.3008	0.4942	4.76E-02	0.8778	4.65E+04	7.7958	102.279	0.572	0.193	0.08	25.4304	0.00E+00
10/12/2019	9:43:09 AM	0.653	18.2842	35.3048	0.5057	4.76E-02	0.2002	4.65E+04	6.9066	90.593	0.572	-0.471	-0.23	25.435	0.00E+00
10/12/2019	9:41:53 AM	0.708	18.29	35.3008	0.4904	4.76E-02	0.724	4.65E+04	7.7871	102.158	0.59	0.194	0.01	25.4304	0.00E+00
10/12/2019	9:43:08 AM	0.749	18.2842	35.3051	0.508	4.76E-02	0.2096	4.65E+04	6.8934	90.419	0.689	-0.413	-0.31	25.4353	0.00E+00
10/12/2019	9:41:53 AM	0.775	18.2898	35.3009	0.4919	4.76E-02	0.7348	4.65E+04	7.7804	102.066	0.604	0.181	-0.05	25.4305	0.00E+00
10/12/2019	9:43:08 AM	0.848	18.2841	35.3054	0.5019	4.76E-02	0.2049	4.65E+04	6.8921	90.404	0.842	-0.335	-0.28	25.4355	0.00E+00
10/12/2019	9:41:53 AM	0.852	18.2897	35.3009	0.4919	4.76E-02	0.7317	4.65E+04	7.7773	102.015	0.643	0.162	-0.07	25.4306	0.00E+00
10/12/2019	9:41:53 AM	0.942	18.2894	35.3009	0.4965	4.76E-02	0.7317	4.65E+04	7.7786	102.024	0.722	0.152	-0.04	25.4306	0.00E+00
10/12/2019	9:43:08 AM	0.948	18.284	35.3055	0.5049	4.76E-02	0.2018	4.65E+04	6.915	90.705	0.959	-0.266	-0.19	25.4356	0.00E+00
10/12/2019	9:41:53 AM	1.046	18.289	35.3011	0.5019	4.76E-02	0.6494	4.65E+04	7.7832	102.076	0.835	0.164	0.05	25.4308	0.00E+00
10/12/2019	9:43:08 AM	1.049	18.2838	35.3057	0.4919	4.76E-02	0.1303	4.65E+04	6.9703	91.433	1.049	-0.219	-0.07	25.4358	0.00E+00
10/12/2019	9:43:08 AM	1.149	18.2837	35.306	0.4935	4.76E-02	0.1318	4.65E+04	7.0617	92.633	1.189	-0.202	0.14	25.4361	0.00E+00
10/12/2019	9:41:54 AM	1.164	18.2884	35.3015	0.5049	4.76E-02	0.654	4.65E+04	7.79	102.161	0.97	0.205	0.17	25.4311	0.00E+00
10/12/2019	9:43:07 AM	1.247	18.2835	35.3064	0.4904	4.76E-02	0.1241	4.65E+04	7.1798	94.185	1.338	-0.237	0.33	25.4365	0.00E+00
10/12/2019	9:41:54 AM	1.293	18.2878	35.3022	0.5064	4.76E-02	0.6587	4.65E+04	7.7851	102.094	1.121	0.273	0.27	25.4318	0.00E+00
10/12/2019	9:43:07 AM	1.341	18.2833	35.3068	0.4935	4.76E-02	0.1303	4.65E+04	7.3124	95.924	1.446	-0.32	0.51	25.437	0.00E+00
10/12/2019	9:43:07 AM	1.429	18.2829	35.3073	0.4927	4.76E-02	0.1287	4.65E+04	7.4536	97.778	1.466	-0.448	0.52	25.4375	0.00E+00
10/12/2019	9:41:54 AM	1.434	18.2872	35.303	0.5049	4.76E-02	0.6509	4.65E+04	7.7753	101.965	1.282	0.357	0.33	25.4326	0.00E+00
10/12/2019	9:43:06 AM	1.517	18.2824	35.3079	0.4797	4.76E-02	0.0386	4.65E+04	7.5749	99.371	1.454	-0.577	0.42	25.4382	0.00E+00
10/12/2019	9:41:54 AM	1.585	18.2868	35.3039	0.5278	4.76E-02	0.7612	4.65E+04	7.7539	101.685	1.46	0.448	0.36	25.4334	0.00E+00
10/12/2019	9:43:06 AM	1.608	18.2816	35.3086	0.4797	4.76E-02	0.0386	4.65E+04	7.6879	100.859	1.453	-0.682	0.33	25.4391	0.00E+00
10/12/2019	9:43:06 AM	1.71	18.2806	35.3092	0.4805	4.76E-02	0.0479	4.65E+04	7.7804	102.076	1.487	-0.764	0.16	25.44	0.00E+00
10/12/2019	9:41:55 AM	1.744	18.2864	35.3048	0.5286	4.76E-02	0.755	4.65E+04	7.7348	101.433	1.643	0.534	0.35	25.4342	0.00E+00
10/12/2019	9:43:06 AM	1.825	18.2793	35.3098	0.479	4.76E-02	0.0417	4.65E+04	7.843	102.903	1.585	-0.805	0.04	25.4409	0.00E+00
10/12/2019	9:41:55 AM	1.911	18.2861	35.3057	0.5278	4.76E-02	0.7457	4.65E+04	7.7219	101.263	1.824	0.603	0.28	25.435	0.00E+00
10/12/2019	9:43:06 AM	1.955	18.2776	35.3102	0.4927	4.76E-02	0.0852	4.65E+04	7.8796	103.388	1.745	-0.816	-0.01	25.4418	0.00E+00
10/12/2019	9:41:55 AM	2.083	18.2858	35.3065	0.5309	4.76E-02	0.7519	4.65E+04	7.7165	101.188	2.007	0.653	0.2	25.4357	0.00E+00
10/12/2019	9:43:05 AM	2.099	18.2757	35.3109	0.4912	4.76E-02	0.0868	4.65E+04	7.8895	103.521	1.935	-0.813	-0.06	25.4429	0.00E+00
10/12/2019	9:43:05 AM	2.254	18.2736	35.3114	0.4912	4.76E-02	0.0945	4.65E+04	7.8918	103.553	2.117	-0.797	-0.11	25.444	0.00E+00
10/12/2019	9:41:56 AM	2.261	18.2851	35.3069	0.5194	4.76E-02	0.2593	4.65E+04	7.715	101.166	2.201	0.69	0.15	25.4361	0.00E+00
10/12/2019	9:43:05 AM	2.417	18.271	35.3117	0.4927	4.76E-02	0.0914	4.65E+04	7.8905	103.54	2.343	-0.771	-0.11	25.445	0.00E+00
10/12/2019	9:41:56 AM	2.443	18.2841	35.3067	0.5186	4.76E-02	0.2546	4.65E+04	7.7284	101.336	2.399	0.718	0.11	25.436	0.00E+00
10/12/2019	9:43:04 AM	2.586	18.2682	35.3119	0.5431	4.76E-02	0.065	4.65E+04	7.8831	103.443	2.547	-0.743	-0.24	25.446	0.00E+00
10/12/2019	9:41:56 AM	2.629	18.2825	35.3062	0.5133	4.76E-02	0.25	4.65E+04	7.7459	101.561	2.587	0.737	0.08	25.4358	0.00E+00
10/12/2019	9:43:04 AM	2.759	18.2652	35.3118	0.5415	4.76E-02	0.0712	4.65E+04	7.8799	103.402	2.744	-0.682	-0.33	25.4467	0.00E+00
10/12/2019	9:41:56 AM	2.819	18.2803	35.3054	0.5148	4.76E-02	0.25	4.65E+04	7.7722	101.898	2.775	0.749	0.05	25.4355	0.00E+00
10/12/2019	9:43:04 AM	2.933	18.262	35.3113	0.5408	4.76E-02	0.0666	4.65E+04	7.8806	103.411	2.981	-0.599	-0.23	25.447	0.00E+00
10/12/2019	9:41:56 AM	3.012	18.2776	35.3044	0.5164	4.76E-02	0.2593	4.65E+04	7.801	102.271	2.991	0.762	0.05	25.4351	0.00E+00
10/12/2019	9:43:04 AM	3.106	18.2589	35.3106	0.5415	4.76E-02	0.0619	4.65E+04	7.8832	103.445	3.165	-0.543	-0.12	25.447	0.00E+00
10/12/2019	9:41:57 AM	3.207	18.2748	35.3036	0.5156	4.76E-02	0.0821	4.65E+04	7.8252	102.584	3.214	0.78	0.07	25.4351	0.00E+00
10/12/2019	9:43:04 AM	3.276	18.2561	35.3098	0.54	4.76E-02	0.037	4.65E+04	7.8855	103.475	3.349	-0.512	-0.04	25.4469	0.00E+00
10/12/2019	9:41:57 AM	3.403	18.2717	35.3033	0.5133	4.76E-02	0.0914	4.65E+04	7.8484	102.884	3.417	0.797	0.06	25.4355	0.00E+00
10/12/2019	9:43:03 AM	3.443	18.2536	35.3091	0.5408	4.76E-02	0.0448	4.65E+04	7.885	103.467	3.539	-0.503	0.1	25.4468	0.00E+00
10/12/2019	9:41:57 AM	3.599	18.2685	35.3031	0.5156	4.76E-02	0.0945	4.65E+04	7.8705	103.169	3.604	0.805	0.03	25.436	0.00E+00
10/12/2019	9:43:03 AM	3.605	18.2515	35.3091	0.5408	4.76E-02	0.0324	4.65E+04	7.8864	103.485	3.703	-0.527	0.19	25.4474	0.00E+00

10/12/2019	9:43:03 AM	3.762	18.2497	35.31	0.5408	4.76E-02	0.0386	4.65E+04	7.8894	103.525	3.875	-0.574	0.23	25.4486	0.00E+00
10/12/2019	9:41:58 AM	3.797	18.2651	35.3028	0.5194	4.76E-02	0.0868	4.65E+04	7.8817	103.309	3.784	0.803	-0.01	25.4366	0.00E+00
10/12/2019	9:43:02 AM	3.914	18.2478	35.3108	0.5438	4.76E-02	0.0464	4.65E+04	7.8913	103.55	4.027	-0.633	0.26	25.45	0.00E+00
10/12/2019	9:41:58 AM	3.997	18.2616	35.3025	0.527	4.76E-02	0.0666	4.65E+04	7.8854	103.351	3.975	0.799	-0.02	25.4372	0.00E+00
10/12/2019	9:43:02 AM	4.061	18.2453	35.311	0.5507	4.76E-02	0.0433	4.65E+04	7.8964	103.616	4.072	-0.697	0.11	25.4508	0.00E+00
10/12/2019	9:41:58 AM	4.199	18.2582	35.3022	0.5316	4.76E-02	0.0681	4.65E+04	7.8886	103.389	4.189	0.799	0	25.4378	0.00E+00
10/12/2019	9:43:02 AM	4.21	18.2425	35.3103	0.5522	4.76E-02	0.0417	4.65E+04	7.8937	103.582	4.123	-0.725	0	25.4509	0.00E+00
10/12/2019	9:43:02 AM	4.363	18.2396	35.3091	0.553	4.76E-02	0.0479	4.65E+04	7.8971	103.625	4.272	-0.726	0	25.4505	0.00E+00
10/12/2019	9:41:58 AM	4.403	18.2554	35.3025	0.5278	4.76E-02	0.0681	4.65E+04	7.8855	103.345	4.413	0.802	0.01	25.4389	0.00E+00
10/12/2019	9:43:01 AM	4.524	18.2371	35.3079	0.5499	4.76E-02	0.0417	4.65E+04	7.8945	103.59	4.461	-0.727	0.04	25.4499	0.00E+00
10/12/2019	9:41:58 AM	4.608	18.2532	35.3035	0.527	4.76E-02	0.065	4.65E+04	7.8832	103.312	4.621	0.802	0	25.4405	0.00E+00
10/12/2019	9:43:01 AM	4.69	18.2351	35.3072	0.5759	4.76E-02	0.0417	4.65E+04	7.887	103.489	4.635	-0.736	0.07	25.4497	0.00E+00
10/12/2019	9:41:59 AM	4.814	18.2517	35.3048	0.5385	4.76E-02	0.0386	4.65E+04	7.8808	103.279	4.812	0.802	0	25.4422	0.00E+00
10/12/2019	9:43:01 AM	4.86	18.2337	35.3069	0.5774	4.76E-02	0.0448	4.65E+04	7.8798	103.392	4.844	-0.753	0.08	25.4497	0.00E+00
10/12/2019	9:41:59 AM	5.022	18.2506	35.3059	0.5423	4.76E-02	0.0464	4.65E+04	7.8783	103.245	5.002	0.805	0.01	25.4436	0.00E+00
10/12/2019	9:43:01 AM	5.033	18.2326	35.307	0.5766	4.76E-02	0.0479	4.65E+04	7.8745	103.319	5.049	-0.773	0.06	25.45	0.00E+00
10/12/2019	9:43:01 AM	5.208	18.2316	35.3071	0.5751	4.76E-02	0.0479	4.65E+04	7.8679	103.228	5.215	-0.788	0.02	25.4504	0.00E+00
10/12/2019	9:41:59 AM	5.233	18.2496	35.3066	0.54	4.76E-02	0.0386	4.65E+04	7.871	103.147	5.214	0.813	0.03	25.4444	0.00E+00
10/12/2019	9:43:00 AM	5.384	18.2305	35.3071	0.601	4.76E-02	0.0619	4.65E+04	7.8636	103.168	5.381	-0.792	-0.06	25.4507	0.00E+00
10/12/2019	9:42:00 AM	5.446	18.2486	35.3067	0.5385	4.76E-02	0.0355	4.65E+04	7.8703	103.132	5.454	0.828	0.06	25.4448	0.00E+00
10/12/2019	9:43:00 AM	5.562	18.2294	35.3071	0.6041	4.76E-02	0.0728	4.65E+04	7.8602	103.117	5.53	-0.778	-0.12	25.4511	0.00E+00
10/12/2019	9:42:00 AM	5.661	18.2473	35.3063	0.5515	4.76E-02	0.0619	4.65E+04	7.8687	103.104	5.687	0.842	0.05	25.4448	0.00E+00
10/12/2019	9:43:00 AM	5.743	18.2282	35.3073	0.5972	4.76E-02	0.065	4.65E+04	7.858	103.081	5.728	-0.748	-0.14	25.4516	0.00E+00
10/12/2019	9:42:00 AM	5.877	18.2456	35.3056	0.5522	4.76E-02	0.065	4.65E+04	7.8666	103.066	5.899	0.848	0.03	25.4445	0.00E+00
10/12/2019	9:42:59 AM	5.928	18.2269	35.308	0.6003	4.76E-02	0.0666	4.65E+04	7.8573	103.066	5.943	-0.714	-0.14	25.4525	0.00E+00
10/12/2019	9:42:00 AM	6.093	18.2437	35.3049	0.5492	4.76E-02	0.0681	4.65E+04	7.8697	103.098	6.117	0.857	0.03	25.4443	0.00E+00
10/12/2019	9:42:59 AM	6.113	18.2254	35.3086	0.6247	4.76E-02	0.0681	4.65E+04	7.8648	103.158	6.153	-0.679	-0.09	25.4536	0.00E+00
10/12/2019	9:42:59 AM	6.297	18.2235	35.309	0.6232	4.76E-02	0.0681	4.65E+04	7.8672	103.18	6.39	-0.656	0	25.4546	0.00E+00
10/12/2019	9:42:00 AM	6.31	18.2415	35.3042	0.5515	4.76E-02	0.0712	4.65E+04	7.8722	103.124	6.338	0.87	0.05	25.4441	0.00E+00
10/12/2019	9:42:59 AM	6.479	18.2212	35.3095	0.6239	4.76E-02	0.0666	4.65E+04	7.869	103.199	6.576	-0.656	0.01	25.4557	0.00E+00
10/12/2019	9:42:01 AM	6.527	18.239	35.3034	0.553	4.76E-02	0.0666	4.65E+04	7.879	103.206	6.565	0.885	0.06	25.444	0.00E+00
10/12/2019	9:42:59 AM	6.657	18.2186	35.3098	0.6255	4.76E-02	0.0635	4.65E+04	7.8754	103.279	6.735	-0.66	0.04	25.4567	0.00E+00
10/12/2019	9:42:01 AM	6.744	18.2364	35.3028	0.5881	4.76E-02	0.065	4.65E+04	7.8875	103.313	6.799	0.896	0.04	25.4441	0.00E+00
10/12/2019	9:42:58 AM	6.833	18.2156	35.3097	0.6255	4.76E-02	0.0728	4.65E+04	7.8807	103.345	6.911	-0.669	0.06	25.4574	0.00E+00
10/12/2019	9:42:01 AM	6.96	18.2339	35.3026	0.5843	4.76E-02	0.0619	4.65E+04	7.8988	103.454	7.01	0.894	-0.01	25.4445	0.00E+00
10/12/2019	9:42:58 AM	7.006	18.2124	35.3095	0.6972	4.76E-02	0.0712	4.65E+04	7.8821	103.364	7.058	-0.684	0.02	25.458	0.00E+00
10/12/2019	9:42:01 AM	7.176	18.2315	35.3026	0.5881	4.76E-02	0.0712	4.65E+04	7.9051	103.526	7.206	0.882	-0.05	25.4452	0.00E+00
10/12/2019	9:42:58 AM	7.178	18.2093	35.3092	0.6972	4.76E-02	0.0635	4.65E+04	7.8857	103.408	7.233	-0.689	0.06	25.4585	0.00E+00
10/12/2019	9:42:57 AM	7.349	18.2063	35.309	0.6964	4.76E-02	0.0681	4.65E+04	7.8912	103.474	7.394	-0.705	0.04	25.4591	0.00E+00
10/12/2019	9:42:02 AM	7.392	18.2289	35.3026	0.5881	4.76E-02	0.065	4.65E+04	7.9151	103.648	7.414	0.872	-0.04	25.4458	0.00E+00
10/12/2019	9:42:57 AM	7.52	18.2034	35.3089	0.6949	4.76E-02	0.0743	4.65E+04	7.8985	103.561	7.537	-0.715	-0.03	25.4597	0.00E+00
10/12/2019	9:42:02 AM	7.609	18.2263	35.3024	0.6262	4.76E-02	0.0945	4.65E+04	7.914	103.624	7.622	0.865	-0.03	25.4462	0.00E+00
10/12/2019	9:42:57 AM	7.692	18.2004	35.3085	0.6613	4.76E-02	0.0914	4.65E+04	7.9048	103.635	7.721	-0.709	0	25.4601	0.00E+00
10/12/2019	9:42:02 AM	7.828	18.2236	35.302	0.6224	4.76E-02	0.0899	4.65E+04	7.9132	103.604	7.842	0.857	-0.03	25.4466	0.00E+00
10/12/2019	9:42:57 AM	7.865	18.1976	35.3082	0.6628	4.76E-02	0.093	4.65E+04	7.909	103.685	7.902	-0.708	-0.01	25.4604	0.00E+00
10/12/2019	9:42:57 AM	8.039	18.1949	35.3079	0.6621	4.76E-02	0.0945	4.65E+04	7.9102	103.698	8.058	-0.707	-0.04	25.4608	0.00E+00
10/12/2019	9:42:03 AM	8.049	18.2212	35.3019	0.6247	4.76E-02	0.0914	4.65E+04	7.9144	103.614	8.057	0.851	-0.03	25.4471	0.00E+00
10/12/2019	9:42:56 AM	8.214	18.1924	35.3074	0.6575	4.76E-02	0.0899	4.65E+04	7.9104	103.7	8.255	-0.698	0	25.4609	0.00E+00
10/12/2019	9:42:03 AM	8.273	18.2191	35.3023	0.6232	4.76E-02	0.0883	4.65E+04	7.917	103.643	8.28	0.848	-0.01	25.4482	0.00E+00
10/12/2019	9:42:56 AM	8.389	18.1901	35.3071	0.6873	4.76E-02	0.0448	4.65E+04	7.9131	103.734	8.433	-0.698	0	25.4612	0.00E+00
10/12/2019	9:42:03 AM	8.499	18.2174	35.3031	0.672	4.76E-02	0.1318	4.65E+04	7.9152	103.616	8.501	0.85	0.01	25.4494	0.00E+00

10/12/2019	9:42:56 AM	8.564	18.1881	35.3071	0.6873	4.76E-02	0.0464	4.64E+04	7.9128	103.73	8.595	-0.697	0.01	25.4616	0.00E+00
10/12/2019	9:42:03 AM	8.727	18.2157	35.3036	0.6735	4.76E-02	0.1256	4.65E+04	7.921	103.689	8.721	0.86	0.04	25.4503	0.00E+00
10/12/2019	9:42:55 AM	8.741	18.1862	35.3071	0.685	4.76E-02	0.0417	4.64E+04	7.9122	103.72	8.801	-0.699	0.06	25.4621	0.00E+00
10/12/2019	9:42:55 AM	8.916	18.1844	35.3075	0.6827	4.76E-02	0.037	4.64E+04	7.9069	103.647	8.97	-0.713	0.08	25.4629	0.00E+00
10/12/2019	9:42:03 AM	8.959	18.2141	35.3038	0.6712	4.76E-02	0.1256	4.65E+04	7.9289	103.79	8.971	0.878	0.07	25.4509	0.00E+00
10/12/2019	9:42:55 AM	9.092	18.1825	35.308	0.6987	4.76E-02	0.0635	4.64E+04	7.9085	103.667	9.121	-0.733	0.07	25.4638	0.00E+00
10/12/2019	9:42:04 AM	9.193	18.2122	35.3037	0.6712	4.76E-02	0.1287	4.65E+04	7.9376	103.901	9.223	0.899	0.08	25.4512	0.00E+00
10/12/2019	9:42:55 AM	9.269	18.1805	35.3085	0.6979	4.76E-02	0.0712	4.64E+04	7.9078	103.655	9.311	-0.75	0.06	25.4648	0.00E+00
10/12/2019	9:42:04 AM	9.428	18.2098	35.3033	0.6491	4.76E-02	0.0945	4.65E+04	7.9443	103.987	9.455	0.916	0.07	25.4513	0.00E+00
10/12/2019	9:42:54 AM	9.447	18.1783	35.309	0.6949	4.76E-02	0.065	4.64E+04	7.9069	103.642	9.479	-0.766	0.04	25.4658	0.00E+00
10/12/2019	9:42:54 AM	9.626	18.1759	35.3093	0.6979	4.76E-02	0.0681	4.64E+04	7.9085	103.66	9.649	-0.775	-0.03	25.4668	0.00E+00
10/12/2019	9:42:04 AM	9.666	18.2068	35.3023	0.6377	4.76E-02	0.0883	4.65E+04	7.9504	104.067	9.657	0.921	0.02	25.451	0.00E+00
10/12/2019	9:42:54 AM	9.806	18.1733	35.3097	0.6979	4.76E-02	0.0681	4.64E+04	7.9104	103.677	9.836	-0.768	-0.04	25.4677	0.00E+00
10/12/2019	9:42:05 AM	9.907	18.2031	35.301	0.6369	4.76E-02	0.0914	4.65E+04	7.9546	104.108	9.881	0.922	0.01	25.4506	0.00E+00
10/12/2019	9:42:54 AM	9.989	18.1706	35.3101	0.7681	4.76E-02	0.0899	4.64E+04	7.9067	103.624	10.004	-0.757	-0.07	25.4687	0.00E+00
10/12/2019	9:42:05 AM	10.153	18.1991	35.3002	0.6331	4.76E-02	0.0977	4.65E+04	7.9576	104.123	10.142	0.929	0.03	25.4507	0.00E+00
10/12/2019	9:42:54 AM	10.173	18.1678	35.3108	0.7681	4.76E-02	0.0914	4.64E+04	7.9059	103.606	10.205	-0.74	-0.05	25.4701	0.00E+00
10/12/2019	9:42:53 AM	10.359	18.1649	35.3117	0.7727	4.76E-02	0.0914	4.64E+04	7.9048	103.583	10.395	-0.728	-0.02	25.4717	0.00E+00
10/12/2019	9:42:05 AM	10.402	18.195	35.3	0.6377	4.76E-02	0.0914	4.65E+04	7.9583	104.087	10.434	0.95	0.08	25.4516	0.00E+00
10/12/2019	9:42:53 AM	10.546	18.1616	35.3125	0.7697	4.76E-02	0.093	4.64E+04	7.9024	103.547	10.607	-0.722	0.01	25.4734	0.00E+00
10/12/2019	9:42:05 AM	10.653	18.1912	35.3007	0.6735	4.76E-02	0.0635	4.65E+04	7.9582	104.012	10.698	0.971	0.08	25.453	0.00E+00
10/12/2019	9:42:53 AM	10.733	18.1579	35.3134	0.7803	4.76E-02	0.0681	4.64E+04	7.8948	103.44	10.813	-0.724	0.07	25.4751	0.00E+00
10/12/2019	9:42:05 AM	10.906	18.1875	35.3015	0.6697	4.76E-02	0.0681	4.65E+04	7.9547	103.886	10.937	0.982	0.05	25.4547	0.00E+00
10/12/2019	9:42:52 AM	10.919	18.1538	35.3139	0.7803	4.76E-02	0.065	4.64E+04	7.8896	103.367	10.996	-0.741	0.09	25.4767	0.00E+00
10/12/2019	9:42:52 AM	11.104	18.1493	35.3142	0.7803	4.76E-02	0.0666	4.64E+04	7.8889	103.351	11.181	-0.763	0.1	25.4781	0.00E+00
10/12/2019	9:42:06 AM	11.16	18.1836	35.3022	0.6735	4.76E-02	0.0666	4.65E+04	7.9503	103.721	11.195	0.998	0.06	25.4561	0.00E+00
10/12/2019	9:42:52 AM	11.289	18.1446	35.3138	0.7796	4.76E-02	0.0681	4.64E+04	7.8882	103.337	11.334	-0.787	0.08	25.4789	0.00E+00
10/12/2019	9:42:06 AM	11.416	18.1795	35.3024	0.6728	4.76E-02	0.0728	4.64E+04	7.9423	103.5	11.477	1.025	0.11	25.4572	0.00E+00
10/12/2019	9:42:52 AM	11.474	18.1399	35.3131	0.7712	4.76E-02	0.0619	4.64E+04	7.8893	103.347	11.507	-0.807	0.03	25.4794	0.00E+00
10/12/2019	9:42:52 AM	11.661	18.1355	35.3127	0.7689	4.76E-02	0.0681	4.64E+04	7.8954	103.422	11.69	-0.815	0.01	25.4801	0.00E+00
10/12/2019	9:42:06 AM	11.672	18.1752	35.3022	0.6468	4.76E-02	0.0666	4.64E+04	7.9327	103.26	11.773	1.057	0.13	25.458	0.00E+00
10/12/2019	9:42:51 AM	11.851	18.1314	35.3129	0.7689	4.76E-02	0.0666	4.64E+04	7.897	103.436	11.881	-0.816	-0.05	25.4813	0.00E+00
10/12/2019	9:42:07 AM	11.926	18.1709	35.3022	0.6491	4.76E-02	0.0681	4.64E+04	7.9195	102.991	12.031	1.072	0.06	25.459	0.00E+00
10/12/2019	9:42:51 AM	12.042	18.1273	35.3136	0.7674	4.76E-02	0.0681	4.64E+04	7.9047	103.535	12.086	-0.804	-0.05	25.483	0.00E+00
10/12/2019	9:42:07 AM	12.178	18.1669	35.3026	0.6514	4.76E-02	0.0681	4.64E+04	7.9079	102.774	12.243	1.059	-0.05	25.4604	0.00E+00
10/12/2019	9:42:51 AM	12.235	18.123	35.3146	0.7903	4.76E-02	0.0635	4.64E+04	7.9142	103.658	12.27	-0.792	-0.07	25.485	0.00E+00
10/12/2019	9:42:50 AM	12.43	18.1184	35.3163	0.791	4.76E-02	0.0743	4.64E+04	7.9193	103.72	12.486	-0.775	-0.03	25.4881	0.00E+00
10/12/2019	9:42:07 AM	12.431	18.1633	35.3032	0.6476	4.76E-02	0.065	4.64E+04	7.9033	102.67	12.454	1.032	-0.11	25.462	0.00E+00
10/12/2019	9:42:50 AM	12.625	18.113	35.3199	0.7941	4.76E-02	0.0712	4.64E+04	7.9199	103.725	12.699	-0.769	-0.01	25.493	0.00E+00
10/12/2019	9:42:07 AM	12.685	18.1601	35.3039	0.717	4.76E-02	0.0666	4.64E+04	7.8948	102.522	12.702	1.015	-0.07	25.4635	0.00E+00
10/12/2019	9:42:50 AM	12.82	18.1064	35.3256	0.791	4.76E-02	0.0681	4.64E+04	7.92	103.724	12.897	-0.765	-0.02	25.5003	0.00E+00
10/12/2019	9:42:07 AM	12.943	18.1572	35.3046	0.7208	4.76E-02	0.0681	4.64E+04	7.8954	102.479	12.964	1.004	-0.04	25.4649	0.00E+00
10/12/2019	9:42:50 AM	13.015	18.0976	35.333	0.7933	4.76E-02	0.0681	4.64E+04	7.9184	103.699	13.118	-0.76	0.02	25.5099	0.00E+00
10/12/2019	9:42:08 AM	13.204	18.1544	35.3051	0.7216	4.76E-02	0.0635	4.64E+04	7.898	102.433	13.259	1	-0.02	25.4661	0.00E+00
10/12/2019	9:42:50 AM	13.209	18.0855	35.3413	0.8772	4.76E-02	0.1148	4.64E+04	7.9177	103.685	13.304	-0.765	0	25.5214	0.00E+00
10/12/2019	9:42:49 AM	13.401	18.0694	35.3499	0.8749	4.76E-02	0.1132	4.63E+04	7.9165	103.662	13.5	-0.766	0.02	25.5341	0.00E+00
10/12/2019	9:42:08 AM	13.465	18.1517	35.3054	0.7224	4.76E-02	0.0588	4.64E+04	7.9065	102.447	13.553	1.005	0.02	25.467	0.00E+00
10/12/2019	9:42:49 AM	13.591	18.0488	35.3581	0.8788	4.76E-02	0.1132	4.63E+04	7.9158	103.648	13.664	-0.772	-0.02	25.5476	0.00E+00
10/12/2019	9:42:08 AM	13.727	18.1485	35.3052	0.7307	4.76E-02	0.0666	4.64E+04	7.907	102.364	13.823	1.02	0.06	25.4676	0.00E+00
10/12/2019	9:42:49 AM	13.782	18.0239	35.3657	0.8772	4.76E-02	0.1194	4.63E+04	7.9129	103.606	13.855	-0.768	-0.05	25.5614	0.00E+00
10/12/2019	9:42:48 AM	13.972	17.995	35.3698	0.9924	4.76E-02	0.0635	4.63E+04	7.9141	103.616	14.048	-0.756	-0.09	25.5728	0.00E+00

10/12/2019	9:42:08 AM	13.987	18.1443	35.3043	0.7445	4.76E-02	0.065	4.64E+04	7.8989	102.2	14.06	1.041	0.08	25.4676	0.00E+00
10/12/2019	9:42:48 AM	14.163	17.9629	35.3698	0.9955	4.76E-02	0.0681	4.62E+04	7.9137	103.606	14.26	-0.735	-0.06	25.5809	0.00E+00
10/12/2019	9:42:09 AM	14.248	18.1383	35.3023	0.7422	4.76E-02	0.065	4.64E+04	7.8836	101.968	14.306	1.06	0.08	25.4669	0.00E+00
10/12/2019	9:42:48 AM	14.353	17.9293	35.3696	0.9955	4.76E-02	0.0666	4.62E+04	7.9188	103.663	14.449	-0.719	-0.03	25.5889	0.00E+00
10/12/2019	9:42:09 AM	14.51	18.1289	35.2988	0.7414	4.76E-02	0.0681	4.64E+04	7.8631	101.685	14.577	1.071	0.04	25.4652	0.00E+00
10/12/2019	9:42:48 AM	14.541	17.896	35.3703	0.9924	4.76E-02	0.0712	4.62E+04	7.9206	103.68	14.634	-0.711	0.03	25.5975	0.00E+00
10/12/2019	9:42:47 AM	14.729	17.8631	35.3714	1.0046	4.76E-02	0.0852	4.61E+04	7.9237	103.709	14.829	-0.718	0.07	25.6065	0.00E+00
10/12/2019	9:42:09 AM	14.772	18.1145	35.2928	0.7445	4.76E-02	0.0712	4.64E+04	7.8391	101.353	14.873	1.075	0.02	25.4621	0.00E+00
10/12/2019	9:42:47 AM	14.916	17.8303	35.3728	1.0062	4.76E-02	0.0945	4.61E+04	7.9268	103.74	15.01	-0.736	0.07	25.6157	0.00E+00
10/12/2019	9:42:10 AM	15.033	18.0935	35.2838	0.7361	4.76E-02	0.0433	4.64E+04	7.8219	101.087	15.182	1.083	0.03	25.4575	0.00E+00
10/12/2019	9:42:47 AM	15.102	17.7973	35.372	1.0039	4.76E-02	0.0977	4.61E+04	7.9322	103.801	15.208	-0.753	0.08	25.623	0.00E+00
10/12/2019	9:42:47 AM	15.286	17.764	35.3679	1.0039	4.76E-02	0.093	4.60E+04	7.9362	103.842	15.394	-0.773	0.06	25.6271	0.00E+00
10/12/2019	9:42:10 AM	15.29	18.0651	35.2726	0.7315	4.76E-02	0.0386	4.63E+04	7.8015	100.782	15.458	1.087	0.02	25.4525	0.00E+00
10/12/2019	9:42:47 AM	15.47	17.7317	35.3624	1.0169	4.76E-02	0.1132	4.60E+04	7.9425	103.921	15.561	-0.789	0.02	25.6295	0.00E+00
10/12/2019	9:42:10 AM	15.542	18.0295	35.2602	0.7315	4.76E-02	0.0386	4.63E+04	7.7877	100.546	15.682	1.082	-0.02	25.4482	0.00E+00
10/12/2019	9:42:46 AM	15.653	17.702	35.3589	1.0184	4.76E-02	0.1132	4.60E+04	7.9508	104.022	15.706	-0.794	-0.09	25.6329	0.00E+00
10/12/2019	9:42:10 AM	15.791	17.9879	35.2485	0.7346	4.76E-02	0.0433	4.63E+04	7.7856	100.417	15.913	1.075	-0.03	25.4463	0.00E+00
10/12/2019	9:42:46 AM	15.838	17.6752	35.3589	1.0169	4.76E-02	0.1194	4.59E+04	7.9585	104.117	15.88	-0.771	-0.14	25.639	0.00E+00
10/12/2019	9:42:46 AM	16.026	17.6501	35.3605	1.0184	4.76E-02	0.1163	4.59E+04	7.9668	104.219	16.076	-0.736	-0.14	25.6467	0.00E+00
10/12/2019	9:42:10 AM	16.038	17.9421	35.2393	0.7925	4.76E-02	0.0883	4.62E+04	7.7869	100.323	16.143	1.063	-0.05	25.4481	0.00E+00
10/12/2019	9:42:45 AM	16.216	17.6249	35.3623	1.0191	4.76E-02	0.1179	4.59E+04	7.9726	104.286	16.309	-0.701	-0.06	25.6547	0.00E+00
10/12/2019	9:42:11 AM	16.284	17.8945	35.2329	0.7925	4.76E-02	0.093	4.62E+04	7.7834	100.183	16.385	1.04	-0.09	25.4535	0.00E+00
10/12/2019	9:42:45 AM	16.406	17.5987	35.363	1.0664	4.76E-02	0.135	4.59E+04	7.9777	104.347	16.522	-0.686	0.01	25.6619	0.00E+00
10/12/2019	9:42:11 AM	16.529	17.8487	35.2312	0.7941	4.76E-02	0.0914	4.61E+04	7.7806	100.084	16.627	1.008	-0.13	25.4634	0.00E+00
10/12/2019	9:42:45 AM	16.594	17.5714	35.3609	1.0642	4.76E-02	0.1334	4.58E+04	7.9754	104.304	16.717	-0.689	0.08	25.6665	0.00E+00
10/12/2019	9:42:11 AM	16.774	17.8077	35.2365	0.7948	4.76E-02	0.0899	4.61E+04	7.7665	99.862	16.888	0.981	-0.11	25.4791	0.00E+00
10/12/2019	9:42:45 AM	16.781	17.5442	35.3573	1.0664	4.76E-02	0.1287	4.58E+04	7.9812	104.359	16.91	-0.708	0.12	25.6693	0.00E+00
10/12/2019	9:42:45 AM	16.966	17.5186	35.3531	1.0664	4.76E-02	0.135	4.58E+04	7.9799	104.306	17.086	-0.739	0.15	25.6708	0.00E+00
10/12/2019	9:42:12 AM	17.017	17.7722	35.2468	0.8986	4.76E-02	0.0899	4.60E+04	7.7565	99.696	17.15	0.968	-0.05	25.4983	0.00E+00
10/12/2019	9:42:44 AM	17.149	17.4957	35.3493	1.0634	4.76E-02	0.1272	4.58E+04	7.9752	104.201	17.26	-0.776	0.14	25.672	0.00E+00
10/12/2019	9:42:12 AM	17.258	17.7404	35.2572	0.9017	4.76E-02	0.0914	4.60E+04	7.7493	99.552	17.381	0.969	0	25.5163	0.00E+00
10/12/2019	9:42:44 AM	17.332	17.476	35.3485	1.0664	4.76E-02	0.135	4.58E+04	7.9696	104.071	17.399	-0.812	0.07	25.6753	0.00E+00
10/12/2019	9:42:12 AM	17.498	17.7091	35.2632	0.9032	4.76E-02	0.0914	4.60E+04	7.7367	99.337	17.595	0.972	0.01	25.5297	0.00E+00
10/12/2019	9:42:44 AM	17.516	17.4591	35.3509	1.0672	4.76E-02	0.1334	4.57E+04	7.9563	103.828	17.557	-0.829	0	25.6811	0.00E+00
10/12/2019	9:42:43 AM	17.703	17.4432	35.3544	1.0634	4.76E-02	0.1272	4.57E+04	7.947	103.64	17.733	-0.828	-0.03	25.688	0.00E+00
10/12/2019	9:42:12 AM	17.737	17.6756	35.2633	0.9039	4.76E-02	0.0868	4.60E+04	7.7263	99.151	17.817	0.966	-0.02	25.5375	0.00E+00
10/12/2019	9:42:43 AM	17.895	17.4268	35.3575	1.2114	4.76E-02	0.2531	4.57E+04	7.9295	103.32	17.93	-0.821	-0.05	25.6947	0.00E+00
10/12/2019	9:42:12 AM	17.978	17.6392	35.2588	0.907	4.76E-02	0.0945	4.59E+04	7.7196	98.997	18.047	0.956	-0.04	25.5418	0.00E+00
10/12/2019	9:42:43 AM	18.09	17.4094	35.3591	1.2129	4.76E-02	0.2562	4.57E+04	7.9069	102.973	18.14	-0.809	-0.02	25.7003	0.00E+00
10/12/2019	9:42:13 AM	18.22	17.6024	35.2545	0.9696	4.76E-02	0.0883	4.59E+04	7.7121	98.847	18.297	0.947	-0.03	25.5466	0.00E+00
10/12/2019	9:42:43 AM	18.289	17.3914	35.3587	1.2106	4.76E-02	0.2546	4.57E+04	7.8826	102.594	18.357	-0.805	0	25.7041	0.00E+00
10/12/2019	9:42:13 AM	18.464	17.5687	35.2559	0.9726	4.76E-02	0.0914	4.58E+04	7.7052	98.689	18.559	0.945	-0.01	25.5565	0.00E+00
10/12/2019	9:42:43 AM	18.489	17.3735	35.3578	1.2076	4.76E-02	0.2562	4.57E+04	7.8564	102.193	18.573	-0.804	0.04	25.7073	0.00E+00
10/12/2019	9:42:42 AM	18.691	17.3564	35.3576	1.174	4.76E-02	0.3012	4.56E+04	7.8318	101.808	18.789	-0.813	0.1	25.711	0.00E+00
10/12/2019	9:42:13 AM	18.708	17.5403	35.2648	0.9688	4.76E-02	0.0899	4.58E+04	7.6989	98.554	18.832	0.952	0.03	25.5724	0.00E+00
10/12/2019	9:42:42 AM	18.894	17.3403	35.3599	1.1794	4.76E-02	0.309	4.56E+04	7.8146	101.507	18.992	-0.837	0.11	25.7169	0.00E+00
10/12/2019	9:42:14 AM	18.951	17.5166	35.2772	0.968	4.76E-02	0.0961	4.58E+04	7.6835	98.315	19.069	0.962	0.04	25.5901	0.00E+00
10/12/2019	9:42:42 AM	19.097	17.3244	35.3648	1.1763	4.76E-02	0.3137	4.56E+04	7.8011	101.263	19.182	-0.864	0.12	25.7253	0.00E+00
10/12/2019	9:42:14 AM	19.194	17.4947	35.2871	1.0077	4.76E-02	0.1163	4.58E+04	7.6725	98.148	19.287	0.972	0.04	25.6046	0.00E+00
10/12/2019	9:42:42 AM	19.301	17.3074	35.3709	1.1733	4.76E-02	0.2997	4.56E+04	7.7889	101.051	19.364	-0.894	0.08	25.7353	0.00E+00
10/12/2019	9:42:14 AM	19.437	17.4714	35.2914	1.0069	4.76E-02	0.1101	4.58E+04	7.6542	97.891	19.519	0.979	0.03	25.6137	0.00E+00

10/12/2019	9:42:41 AM	19.508	17.2881	35.3772	1.1756	4.76E-02	0.3012	4.56E+04	7.7971	101.122	19.575	-0.913	0.08	25.7462	0.00E+00
10/12/2019	9:42:14 AM	19.683	17.4449	35.2898	1.0046	4.76E-02	0.1179	4.57E+04	7.6342	97.588	19.748	0.975	-0.02	25.6178	0.00E+00
10/12/2019	9:42:41 AM	19.717	17.2658	35.3826	1.2351	4.76E-02	0.3012	4.56E+04	7.8068	101.209	19.767	-0.934	0.03	25.757	0.00E+00
10/12/2019	9:42:14 AM	19.93	17.414	35.2849	1.0069	4.76E-02	0.1256	4.57E+04	7.6138	97.26	20.001	0.969	-0.02	25.6197	0.00E+00
10/12/2019	9:42:41 AM	19.93	17.2406	35.3869	1.2381	4.76E-02	0.3075	4.55E+04	7.8028	101.119	19.992	-0.941	0.01	25.7672	0.00E+00
10/12/2019	9:42:40 AM	20.147	17.2131	35.3889	1.2381	4.76E-02	0.3043	4.55E+04	7.8135	101.187	20.198	-0.944	-0.02	25.7757	0.00E+00
10/12/2019	9:42:15 AM	20.18	17.3776	35.2789	1.0184	4.76E-02	0.1847	4.57E+04	7.5961	96.941	20.29	0.972	0.01	25.6215	0.00E+00
10/12/2019	9:42:40 AM	20.367	17.184	35.3884	1.2389	4.76E-02	0.3106	4.55E+04	7.8166	101.185	20.425	-0.94	-0.05	25.7821	0.00E+00
10/12/2019	9:42:15 AM	20.43	17.3367	35.2712	1.0138	4.76E-02	0.1862	4.56E+04	7.5818	96.67	20.567	0.982	0.04	25.623	0.00E+00
10/12/2019	9:42:40 AM	20.59	17.1549	35.3879	1.3121	4.76E-02	0.3541	4.55E+04	7.8176	101.116	20.675	-0.928	-0.02	25.7882	0.00E+00
10/12/2019	9:42:15 AM	20.679	17.2952	35.2652	1.0184	4.76E-02	0.1831	4.56E+04	7.5588	96.295	20.792	0.988	0.02	25.6272	0.00E+00
10/12/2019	9:42:40 AM	20.815	17.1269	35.3891	1.3075	4.76E-02	0.3479	4.54E+04	7.8248	101.169	20.907	-0.924	-0.03	25.7957	0.00E+00
10/12/2019	9:42:15 AM	20.929	17.2572	35.2671	1.0176	4.76E-02	0.18	4.56E+04	7.5388	95.954	21	0.992	0.01	25.6386	0.00E+00
10/12/2019	9:42:40 AM	21.041	17.0997	35.3912	1.3098	4.76E-02	0.3541	4.54E+04	7.8281	101.163	21.155	-0.916	-0.01	25.804	0.00E+00
10/12/2019	9:42:16 AM	21.181	17.2243	35.2762	1.1282	4.76E-02	0.3308	4.55E+04	7.5082	95.48	21.239	0.994	0.01	25.6556	0.00E+00
10/12/2019	9:42:39 AM	21.268	17.0723	35.3925	1.3114	4.76E-02	0.3572	4.54E+04	7.8313	101.183	21.382	-0.914	-0.02	25.8117	0.00E+00
10/12/2019	9:42:16 AM	21.437	17.195	35.2867	1.1275	4.76E-02	0.3292	4.55E+04	7.4644	94.856	21.516	0.997	0.02	25.6727	0.00E+00
10/12/2019	9:42:39 AM	21.495	17.0443	35.393	1.435	4.76E-02	0.5017	4.53E+04	7.8272	101.111	21.63	-0.91	0	25.8187	0.00E+00
10/12/2019	9:42:16 AM	21.695	17.1668	35.2938	1.1298	4.76E-02	0.3292	4.55E+04	7.4108	94.119	21.8	1.006	0.03	25.6862	0.00E+00
10/12/2019	9:42:39 AM	21.722	17.0161	35.3922	1.435	4.76E-02	0.5002	4.53E+04	7.8196	100.993	21.848	-0.91	-0.03	25.8244	0.00E+00
10/12/2019	9:42:38 AM	21.948	16.9883	35.3891	1.435	4.76E-02	0.5048	4.53E+04	7.8175	100.934	22.074	-0.903	-0.06	25.8278	0.00E+00
10/12/2019	9:42:17 AM	21.953	17.1382	35.2963	1.1282	4.76E-02	0.3246	4.54E+04	7.3545	93.364	22.099	1.018	0.05	25.6951	0.00E+00
10/12/2019	9:42:38 AM	22.174	16.9618	35.3855	1.4319	4.76E-02	0.5033	4.53E+04	7.8108	100.809	22.311	-0.889	-0.03	25.8303	0.00E+00
10/12/2019	9:42:17 AM	22.211	17.1089	35.2962	1.1298	4.76E-02	0.2764	4.54E+04	7.2897	92.516	22.391	1.035	0.07	25.7018	0.00E+00
10/12/2019	9:42:38 AM	22.399	16.9376	35.3833	1.4449	4.76E-02	0.3805	4.52E+04	7.8093	100.755	22.527	-0.88	-0.07	25.8335	0.00E+00
10/12/2019	9:42:17 AM	22.465	17.0792	35.2963	1.2526	4.76E-02	0.2795	4.54E+04	7.2264	91.682	22.635	1.055	0.08	25.7087	0.00E+00
10/12/2019	9:42:38 AM	22.624	16.9157	35.3827	1.4456	4.76E-02	0.3821	4.52E+04	7.804	100.643	22.769	-0.863	-0.03	25.8377	0.00E+00
10/12/2019	9:42:17 AM	22.718	17.0491	35.2964	1.2518	4.76E-02	0.281	4.54E+04	7.1744	90.97	22.854	1.069	0.06	25.7158	0.00E+00
10/12/2019	9:42:38 AM	22.848	16.8952	35.3825	1.4433	4.76E-02	0.3852	4.52E+04	7.7952	100.506	22.987	-0.856	-0.03	25.8423	0.00E+00
10/12/2019	9:42:17 AM	22.969	17.0193	35.2963	1.248	4.76E-02	0.2733	4.53E+04	7.131	90.368	23.09	1.069	0	25.7228	0.00E+00
10/12/2019	9:42:37 AM	23.07	16.8753	35.3834	1.4411	4.76E-02	0.3774	4.52E+04	7.7866	100.368	23.219	-0.848	0.01	25.8476	0.00E+00
10/12/2019	9:42:18 AM	23.221	16.9904	35.2971	1.2488	4.76E-02	0.2795	4.53E+04	7.1024	89.955	23.331	1.049	-0.08	25.7306	0.00E+00
10/12/2019	9:42:37 AM	23.292	16.8557	35.3865	1.4502	4.76E-02	0.3743	4.52E+04	7.7687	100.117	23.444	-0.85	0.06	25.8552	0.00E+00
10/12/2019	9:42:18 AM	23.473	16.9634	35.2996	1.3472	4.76E-02	0.3821	4.53E+04	7.0842	89.66	23.586	1.021	-0.11	25.7396	0.00E+00
10/12/2019	9:42:37 AM	23.513	16.8356	35.3925	1.4067	4.76E-02	0.3774	4.51E+04	7.7527	99.888	23.662	-0.864	0.09	25.8657	0.00E+00
10/12/2019	9:42:18 AM	23.727	16.9388	35.3042	1.348	4.76E-02	0.3727	4.52E+04	7.0743	89.461	23.868	1.005	-0.07	25.75	0.00E+00
10/12/2019	9:42:36 AM	23.732	16.8139	35.3999	1.4067	4.76E-02	0.3836	4.51E+04	7.734	99.606	23.875	-0.887	0.12	25.8781	0.00E+00
10/12/2019	9:42:36 AM	23.951	16.789	35.4072	1.4105	4.76E-02	0.3743	4.51E+04	7.7179	99.359	24.072	-0.917	0.11	25.8912	0.00E+00
10/12/2019	9:42:19 AM	23.98	16.9149	35.3091	1.3503	4.76E-02	0.3727	4.52E+04	7.0585	89.188	24.132	0.997	-0.03	25.7602	0.00E+00
10/12/2019	9:42:36 AM	24.17	16.7606	35.4137	1.4075	4.76E-02	0.3805	4.51E+04	7.6925	98.969	24.296	-0.945	0.13	25.9044	0.00E+00
10/12/2019	9:42:19 AM	24.232	16.8887	35.3104	1.3503	4.76E-02	0.3805	4.52E+04	7.0409	88.91	24.359	0.993	-0.02	25.7671	0.00E+00
10/12/2019	9:42:36 AM	24.391	16.7287	35.4191	1.3846	4.76E-02	0.3261	4.50E+04	7.6814	98.771	24.491	-0.978	0.06	25.9173	0.00E+00
10/12/2019	9:42:19 AM	24.485	16.8575	35.3055	1.4563	4.76E-02	0.3541	4.52E+04	7.0102	88.485	24.589	0.997	0.02	25.769	0.00E+00
10/12/2019	9:42:36 AM	24.613	16.694	35.4235	1.3846	4.76E-02	0.3277	4.50E+04	7.6625	98.463	24.715	-0.992	0	25.9297	0.00E+00
10/12/2019	9:42:19 AM	24.74	16.8207	35.296	1.4563	4.76E-02	0.3494	4.51E+04	6.9636	87.876	24.832	1.001	0.02	25.7679	0.00E+00
10/12/2019	9:42:35 AM	24.838	16.657	35.4257	1.3831	4.76E-02	0.3246	4.50E+04	7.6509	98.254	24.925	-0.992	-0.11	25.9406	0.00E+00
10/12/2019	9:42:19 AM	24.997	16.7803	35.2868	1.4556	4.76E-02	0.3556	4.51E+04	6.8995	87.056	25.094	1.001	0	25.7683	0.00E+00
10/12/2019	9:42:35 AM	25.065	16.6183	35.4238	1.3877	4.76E-02	0.3323	4.49E+04	7.6397	98.068	25.159	-0.965	-0.2	25.9479	0.00E+00
10/12/2019	9:42:20 AM	25.258	16.7386	35.2818	1.4594	4.76E-02	0.3479	4.51E+04	6.8249	86.109	25.346	0.998	-0.01	25.7731	0.00E+00
10/12/2019	9:42:35 AM	25.295	16.5793	35.4188	1.5769	4.76E-02	0.2282	4.49E+04	7.6303	97.899	25.408	-0.915	-0.19	25.952	0.00E+00
10/12/2019	9:42:20 AM	25.521	16.697	35.281	1.4433	4.76E-02	0.3308	4.50E+04	6.749	85.15	25.638	1.003	0.02	25.7821	0.00E+00

10/12/2019	9:42:35 AM	25.527	16.5422	35.414	1.5792	4.76E-02	0.2298	4.49E+04	7.6219	97.746	25.659	-0.866	-0.11	25.9555	0.00E+00
10/12/2019	9:42:34 AM	25.76	16.5083	35.4104	1.5784	4.76E-02	0.2375	4.48E+04	7.6185	97.64	25.92	-0.839	0	25.9594	0.00E+00
10/12/2019	9:42:20 AM	25.785	16.6564	35.2826	1.4426	4.76E-02	0.3308	4.50E+04	6.6743	84.207	25.944	1.02	0.07	25.7932	0.00E+00
10/12/2019	9:42:34 AM	25.992	16.4773	35.4064	1.5776	4.76E-02	0.2298	4.48E+04	7.6098	97.473	26.173	-0.838	0.07	25.9623	0.00E+00
10/12/2019	9:42:21 AM	26.049	16.6186	35.2859	1.4479	4.76E-02	0.3308	4.49E+04	6.6103	83.4	26.22	1.048	0.11	25.8055	0.00E+00
10/12/2019	9:42:34 AM	26.221	16.4489	35.4018	1.4693	4.76E-02	0.2298	4.48E+04	7.5986	97.277	26.443	-0.857	0.15	25.9641	0.00E+00
10/12/2019	9:42:21 AM	26.312	16.5848	35.2922	1.4494	4.76E-02	0.3246	4.49E+04	6.563	82.805	26.453	1.069	0.08	25.8199	0.00E+00
10/12/2019	9:42:33 AM	26.446	16.4232	35.3978	1.4723	4.76E-02	0.2313	4.47E+04	7.579	96.968	26.662	-0.895	0.16	25.9657	0.00E+00
10/12/2019	9:42:21 AM	26.575	16.5552	35.3007	1.4411	4.76E-02	0.3308	4.49E+04	6.5222	82.292	26.692	1.075	0.02	25.8353	0.00E+00
10/12/2019	9:42:33 AM	26.667	16.4004	35.3957	1.47	4.76E-02	0.2298	4.47E+04	7.5472	96.527	26.872	-0.934	0.17	25.9687	0.00E+00
10/12/2019	9:42:21 AM	26.84	16.529	35.3088	1.409	4.76E-02	0.3323	4.48E+04	6.5036	82.06	26.957	1.073	-0.01	25.8495	0.00E+00
10/12/2019	9:42:33 AM	26.884	16.3801	35.3969	1.4685	4.76E-02	0.2266	4.47E+04	7.5114	96.031	27.046	-0.976	0.09	25.9741	0.00E+00
10/12/2019	9:42:33 AM	27.102	16.3608	35.3996	1.4708	4.76E-02	0.2313	4.47E+04	7.4648	95.409	27.202	-0.999	-0.03	25.9811	0.00E+00
10/12/2019	9:42:22 AM	27.106	16.5044	35.3151	1.4098	4.76E-02	0.3277	4.48E+04	6.4952	81.957	27.225	1.065	-0.03	25.8613	0.00E+00
10/12/2019	9:42:33 AM	27.322	16.3412	35.4013	1.2	4.76E-02	0.2841	4.47E+04	7.4101	94.672	27.404	-0.992	-0.12	25.9872	0.00E+00
10/12/2019	9:42:22 AM	27.375	16.4786	35.3176	1.4083	4.76E-02	0.3292	4.48E+04	6.4974	81.987	27.496	1.057	-0.03	25.8693	0.00E+00
10/12/2019	9:42:32 AM	27.546	16.3205	35.4005	1.1984	4.76E-02	0.2779	4.46E+04	7.3599	94.004	27.669	-0.962	-0.2	25.9913	0.00E+00
10/12/2019	9:42:22 AM	27.645	16.4504	35.315	1.409	4.76E-02	0.3323	4.48E+04	6.505	82.083	27.799	1.054	-0.01	25.8731	0.00E+00
10/12/2019	9:42:32 AM	27.771	16.2995	35.3971	1.2	4.76E-02	0.281	4.46E+04	7.3074	93.305	27.945	-0.91	-0.26	25.9927	0.00E+00
10/12/2019	9:42:22 AM	27.916	16.4204	35.3108	1.6661	4.76E-02	0.2515	4.47E+04	6.5139	82.195	28.081	1.06	0.02	25.8759	0.00E+00
10/12/2019	9:42:32 AM	27.995	16.2796	35.392	1.2	4.76E-02	0.2764	4.46E+04	7.2584	92.645	28.206	-0.845	-0.29	25.9922	0.00E+00
10/12/2019	9:42:22 AM	28.186	16.3888	35.3085	1.6684	4.76E-02	0.2562	4.47E+04	6.5218	82.293	28.347	1.076	0.06	25.8807	0.00E+00
10/12/2019	9:42:31 AM	28.216	16.262	35.3867	1.1153	4.76E-02	0.3028	4.46E+04	7.2156	92.059	28.45	-0.771	-0.31	25.9908	0.00E+00
10/12/2019	9:42:31 AM	28.433	16.2473	35.3815	1.1138	4.76E-02	0.3012	4.46E+04	7.175	91.478	28.682	-0.695	-0.28	25.9888	0.00E+00
10/12/2019	9:42:23 AM	28.456	16.3556	35.3063	1.6646	4.76E-02	0.2546	4.47E+04	6.5325	82.424	28.628	1.099	0.09	25.8861	0.00E+00
10/12/2019	9:42:31 AM	28.643	16.2358	35.3768	1.1153	4.76E-02	0.3043	4.46E+04	7.1343	90.907	28.936	-0.625	-0.19	25.9866	0.00E+00
10/12/2019	9:42:23 AM	28.725	16.3223	35.3038	1.6684	4.76E-02	0.2593	4.46E+04	6.5426	82.554	28.931	1.12	0.08	25.8915	0.00E+00
10/12/2019	9:42:31 AM	28.845	16.2271	35.3729	1.1168	4.76E-02	0.3059	4.46E+04	7.1018	90.419	29.167	-0.578	-0.11	25.9845	0.00E+00
10/12/2019	9:42:23 AM	28.99	16.2919	35.3051	1.557	4.76E-02	0.2857	4.46E+04	6.5486	82.629	29.246	1.139	0.08	25.9002	0.00E+00
10/12/2019	9:42:31 AM	29.038	16.2211	35.3699	1.2236	4.76E-02	0.3012	4.45E+04	7.07	89.95	29.386	-0.55	0.02	25.9827	0.00E+00
10/12/2019	9:42:30 AM	29.219	16.2173	35.3679	1.2274	4.76E-02	0.2966	4.45E+04	7.0317	89.379	29.592	-0.555	0.11	25.9814	0.00E+00
10/12/2019	9:42:24 AM	29.25	16.2668	35.3125	1.5547	4.76E-02	0.2795	4.46E+04	6.5535	82.69	29.578	1.165	0.1	25.9136	0.00E+00
10/12/2019	9:42:30 AM	29.388	16.2151	35.3666	1.2282	4.76E-02	0.3012	4.45E+04	6.9855	88.718	29.731	-0.584	0.06	25.9804	0.00E+00
10/12/2019	9:42:24 AM	29.499	16.2477	35.3235	1.5524	4.76E-02	0.2841	4.46E+04	6.5576	82.743	29.905	1.193	0.11	25.9292	0.00E+00
10/12/2019	9:42:30 AM	29.545	16.214	35.3656	1.2259	4.76E-02	0.2966	4.45E+04	6.9469	88.159	29.846	-0.598	-0.06	25.9796	0.00E+00
10/12/2019	9:42:29 AM	29.694	16.2137	35.365	1.1138	4.76E-02	0.3246	4.45E+04	6.8932	87.425	29.967	-0.582	-0.19	25.979	0.00E+00
10/12/2019	9:42:24 AM	29.733	16.2341	35.335	1.5586	4.76E-02	0.2779	4.46E+04	6.5667	82.86	30.224	1.217	0.1	25.9439	0.00E+00
10/12/2019	9:42:29 AM	29.837	16.214	35.3651	1.1138	4.76E-02	0.3339	4.45E+04	6.8353	86.647	30.09	-0.534	-0.33	25.9789	0.00E+00
10/12/2019	9:42:24 AM	29.946	16.2249	35.3452	1.1633	4.76E-02	0.2437	4.46E+04	6.5696	82.894	30.553	1.248	0.12	25.9561	0.00E+00
10/12/2019	9:42:29 AM	29.974	16.2145	35.3657	1.116	4.76E-02	0.323	4.45E+04	6.7806	85.903	30.233	-0.451	-0.41	25.9793	0.00E+00
10/12/2019	9:42:29 AM	30.105	16.215	35.3662	1.1138	4.76E-02	0.3261	4.45E+04	6.7224	85.129	30.39	-0.348	-0.44	25.9797	0.00E+00
10/12/2019	9:42:24 AM	30.132	16.219	35.3533	1.1618	4.76E-02	0.2562	4.45E+04	6.5737	82.943	30.874	1.275	0.11	25.9655	0.00E+00
10/12/2019	9:42:29 AM	30.228	16.2152	35.3665	1.116	4.76E-02	0.3339	4.45E+04	6.6781	84.536	30.538	-0.239	-0.43	25.98	0.00E+00
10/12/2019	9:42:25 AM	30.285	16.2156	35.3592	1.1664	4.76E-02	0.2562	4.45E+04	6.5786	83.003	30.983	1.234	-0.17	25.9722	0.00E+00
10/12/2019	9:42:28 AM	30.342	16.2153	35.3668	1.1786	4.76E-02	0.3821	4.45E+04	6.6354	83.972	30.731	-0.132	-0.32	25.9802	0.00E+00
10/12/2019	9:42:25 AM	30.405	16.2139	35.3634	1.1649	4.76E-02	0.2531	4.45E+04	6.5777	82.99	31.02	1.12	-0.45	25.9768	0.00E+00
10/12/2019	9:42:28 AM	30.443	16.2152	35.3668	1.1717	4.76E-02	0.3821	4.45E+04	6.6043	83.556	30.895	-0.054	-0.19	25.9802	0.00E+00
10/12/2019	9:42:25 AM	30.499	16.2133	35.3662	1.1649	4.76E-02	0.2919	4.45E+04	6.5828	83.052	31.026	0.95	-0.68	25.9797	0.00E+00
10/12/2019	9:42:28 AM	30.527	16.2152	35.3662	1.1725	4.76E-02	0.3696	4.45E+04	6.587	83.308	30.994	-0.006	-0.1	25.9797	0.00E+00
10/12/2019	9:42:26 AM	30.569	16.2135	35.3678	1.1412	4.76E-02	0.3587	4.45E+04	6.5837	83.064	31.033	0.747	-0.81	25.9813	0.00E+00
10/12/2019	9:42:28 AM	30.592	16.2153	35.366	1.174	4.76E-02	0.3743	4.45E+04	6.5752	83.115	31.055	0.02	-0.04	25.9794	0.00E+00

10/12/2019	9:42:26 AM	30.621	16.214	35.3686	1.1382	4.76E-02	0.3479	4.45E+04	6.5822	83.047	31.041	0.537	-0.84	25.982	0.00E+00
10/12/2019	9:42:27 AM	30.64	16.2157	35.3665	1.1771	4.76E-02	0.4131	4.45E+04	6.5649	82.947	31.086	0.03	0	25.9797	0.00E+00
10/12/2019	9:42:26 AM	30.658	16.2148	35.369	1.1397	4.76E-02	0.351	4.45E+04	6.5807	83.032	31.049	0.341	-0.78	25.9824	0.00E+00
10/12/2019	9:42:27 AM	30.671	16.2161	35.3673	1.1725	4.76E-02	0.4023	4.45E+04	6.5681	82.948	31.079	0.03	-0.03	25.9804	0.00E+00
10/12/2019	9:42:26 AM	30.681	16.2156	35.3692	1.1389	4.76E-02	0.351	4.45E+04	6.5862	83.111	31.056	0.178	-0.65	25.9824	0.00E+00
10/12/2019	9:42:27 AM	30.688	16.2163	35.3682	1.1763	4.76E-02	0.4023	4.45E+04	6.5676	82.912	31.072	0.038	-0.13	25.9813	0.00E+00
10/12/2019	9:42:26 AM	30.691	16.2162	35.3689	1.1786	4.76E-02	0.4085	4.45E+04	6.5687	82.908	31.064	0.07	-0.43	25.982	0.00E+00

TRANSECT 2 - 1,750 m

DD MMM YYYY HH:MM:SS	DD MMM YYYY HH:MM:SS	DepSM	Tv290C	Sal00	FlECO-AFL	Par	TurbWETntu0	C0uS/cm	Sbeox0Mg/L	Sbeox0PS	PrdM	Dz/dtM	AccM	Sigma-t00	Flag
10/12/2019	9:46:31 AM	0.566	18.2661	35.3069	0.4202	4.76E-02	0.0977	4.65E+04	-9.99E-29	-9.99E-29	0.442	-0.526	-0.07	25.4412	0.00E+00
10/12/2019	9:46:30 AM	0.653	18.2661	35.3076	0.4164	4.76E-02	0.0914	4.65E+04	7.0634	92.631	0.511	-0.508	-0.21	25.4419	0.00E+00
10/12/2019	9:45:13 AM	0.698	18.2947	35.306	0.408	4.76E-02	0.351	4.66E+04	7.8514	102.975	0.571	0.24	0.28	25.4332	0.00E+00
10/12/2019	9:46:30 AM	0.749	18.2657	35.3079	0.4179	4.76E-02	0.0914	4.65E+04	7.1024	93.143	0.615	-0.456	-0.25	25.4424	0.00E+00
10/12/2019	9:45:13 AM	0.777	18.2946	35.306	0.4042	4.76E-02	0.3525	4.66E+04	7.8424	102.852	0.614	0.277	0.15	25.4332	0.00E+00
10/12/2019	9:46:30 AM	0.852	18.2649	35.3078	0.4301	4.76E-02	0.0386	4.65E+04	7.1511	93.784	0.807	-0.394	-0.1	25.4425	0.00E+00
10/12/2019	9:45:13 AM	0.867	18.2944	35.306	0.4095	4.76E-02	0.3556	4.66E+04	7.8364	102.77	0.659	0.284	0.03	25.4333	0.00E+00
10/12/2019	9:46:30 AM	0.958	18.2641	35.3075	0.4286	4.76E-02	0.0448	4.65E+04	7.2152	94.627	0.959	-0.368	-0.03	25.4424	0.00E+00
10/12/2019	9:45:13 AM	0.969	18.2942	35.306	0.4057	4.76E-02	0.351	4.66E+04	7.8386	102.797	0.739	0.273	-0.04	25.4333	0.00E+00
10/12/2019	9:46:30 AM	1.066	18.2633	35.3071	0.4317	4.76E-02	0.0433	4.65E+04	7.3022	95.77	1.068	-0.361	0	25.4422	0.00E+00
10/12/2019	9:45:13 AM	1.086	18.2939	35.3059	0.4065	4.76E-02	0.4069	4.66E+04	7.8439	102.863	0.841	0.258	-0.06	25.4333	0.00E+00
10/12/2019	9:46:29 AM	1.173	18.2627	35.3068	0.4301	4.76E-02	0.0433	4.65E+04	7.404	97.105	1.211	-0.361	0.12	25.4421	0.00E+00
10/12/2019	9:45:14 AM	1.218	18.2935	35.3058	0.4202	4.76E-02	0.4069	4.66E+04	7.8526	102.973	0.967	0.267	0.03	25.4333	0.00E+00
10/12/2019	9:46:29 AM	1.279	18.2623	35.3068	0.434	4.76E-02	0.0464	4.65E+04	7.5314	98.777	1.34	-0.391	0.21	25.4422	0.00E+00
10/12/2019	9:45:14 AM	1.367	18.293	35.3056	0.421	4.76E-02	0.4023	4.66E+04	7.8622	103.098	1.122	0.308	0.17	25.4331	0.00E+00
10/12/2019	9:46:29 AM	1.382	18.262	35.3069	0.4286	4.76E-02	0.0355	4.65E+04	7.6418	100.229	1.431	-0.445	0.21	25.4423	0.00E+00
10/12/2019	9:46:28 AM	1.483	18.2617	35.307	0.4355	4.76E-02	0.0464	4.65E+04	7.7379	101.492	1.477	-0.497	0.13	25.4426	0.00E+00
10/12/2019	9:45:14 AM	1.531	18.2922	35.3052	0.4172	4.76E-02	0.4007	4.66E+04	7.8658	103.142	1.292	0.375	0.27	25.4329	0.00E+00
10/12/2019	9:46:28 AM	1.585	18.2613	35.3072	0.4301	4.76E-02	0.0433	4.65E+04	7.8095	102.434	1.518	-0.529	0.1	25.4429	0.00E+00
10/12/2019	9:46:28 AM	1.691	18.2608	35.3073	0.4286	4.76E-02	0.0433	4.65E+04	7.8526	103.003	1.606	-0.554	0.04	25.4431	0.00E+00
10/12/2019	9:45:15 AM	1.71	18.2913	35.3049	0.4187	4.76E-02	0.4038	4.66E+04	7.8732	103.236	1.484	0.456	0.32	25.4328	0.00E+00
10/12/2019	9:46:28 AM	1.802	18.2601	35.3072	0.4324	4.76E-02	0.0681	4.65E+04	7.8736	103.278	1.748	-0.565	-0.04	25.4432	0.00E+00
10/12/2019	9:45:15 AM	1.904	18.2902	35.3047	0.4446	4.76E-02	0.4023	4.66E+04	7.8778	103.291	1.692	0.545	0.36	25.4329	0.00E+00
10/12/2019	9:46:28 AM	1.918	18.2594	35.307	0.4271	4.76E-02	0.0635	4.65E+04	7.8847	103.426	1.865	-0.555	-0.12	25.4432	0.00E+00
10/12/2019	9:46:27 AM	2.037	18.2587	35.3066	0.4324	4.76E-02	0.0666	4.65E+04	7.888	103.47	1.979	-0.523	-0.1	25.443	0.00E+00
10/12/2019	9:45:15 AM	2.111	18.2888	35.3045	0.4462	4.76E-02	0.3976	4.66E+04	7.88	103.312	1.904	0.63	0.34	25.433	0.00E+00
10/12/2019	9:46:27 AM	2.161	18.2581	35.3061	0.4317	4.76E-02	0.0666	4.65E+04	7.8842	103.422	2.145	-0.499	0	25.4427	0.00E+00
10/12/2019	9:46:27 AM	2.286	18.2577	35.3058	0.4439	4.76E-02	0.0899	4.65E+04	7.8904	103.503	2.303	-0.5	0.07	25.4424	0.00E+00
10/12/2019	9:45:15 AM	2.332	18.2869	35.304	0.4401	4.76E-02	0.4023	4.65E+04	7.8841	103.357	2.148	0.709	0.32	25.4329	0.00E+00
10/12/2019	9:46:26 AM	2.411	18.2575	35.3056	0.4416	4.76E-02	0.0977	4.65E+04	7.8929	103.537	2.426	-0.517	-0.02	25.4423	0.00E+00
10/12/2019	9:46:26 AM	2.537	18.2574	35.3058	0.4454	4.76E-02	0.0977	4.65E+04	7.8926	103.534	2.541	-0.511	-0.17	25.4424	0.00E+00
10/12/2019	9:45:15 AM	2.565	18.2841	35.3031	0.4446	4.76E-02	0.4023	4.65E+04	7.8856	103.37	2.416	0.787	0.31	25.4325	0.00E+00
10/12/2019	9:46:26 AM	2.662	18.2573	35.3061	0.4446	4.76E-02	0.0945	4.65E+04	7.8897	103.497	2.728	-0.469	-0.18	25.4428	0.00E+00
10/12/2019	9:46:26 AM	2.784	18.2572	35.3064	0.4454	4.76E-02	0.0666	4.65E+04	7.886	103.449	2.867	-0.423	-0.07	25.4431	0.00E+00
10/12/2019	9:45:16 AM	2.809	18.2804	35.3015	0.4424	4.76E-02	0.2531	4.65E+04	7.8896	103.41	2.7	0.863	0.3	25.4318	0.00E+00
10/12/2019	9:46:26 AM	2.903	18.2568	35.3062	0.4424	4.76E-02	0.0681	4.65E+04	7.8867	103.457	2.927	-0.407	-0.02	25.443	0.00E+00
10/12/2019	9:46:25 AM	3.022	18.2564	35.3057	0.4424	4.76E-02	0.0588	4.65E+04	7.8886	103.478	2.997	-0.401	-0.07	25.4427	0.00E+00
10/12/2019	9:45:16 AM	3.059	18.2761	35.2999	0.4439	4.76E-02	0.2608	4.65E+04	7.8951	103.472	2.99	0.934	0.29	25.4313	0.00E+00
10/12/2019	9:46:25 AM	3.142	18.2561	35.3055	0.4462	4.76E-02	0.0635	4.65E+04	7.8959	103.571	3.162	-0.384	-0.03	25.4425	0.00E+00
10/12/2019	9:46:25 AM	3.261	18.2561	35.3056	0.4439	4.76E-02	0.0728	4.65E+04	7.8977	103.593	3.347	-0.378	0.11	25.4426	0.00E+00
10/12/2019	9:45:16 AM	3.316	18.2717	35.2992	0.4439	4.76E-02	0.2593	4.65E+04	7.9051	103.594	3.272	0.998	0.25	25.4316	0.00E+00
10/12/2019	9:46:24 AM	3.377	18.2562	35.306	0.4317	4.76E-02	0.0386	4.65E+04	7.9003	103.626	3.511	-0.406	0.23	25.443	0.00E+00
10/12/2019	9:46:24 AM	3.487	18.2561	35.3065	0.4324	4.76E-02	0.0386	4.65E+04	7.8961	103.571	3.573	-0.464	0.21	25.4435	0.00E+00
10/12/2019	9:45:17 AM	3.576	18.2675	35.2992	0.4462	4.76E-02	0.2531	4.65E+04	7.9041	103.574	3.541	1.046	0.19	25.4327	0.00E+00
10/12/2019	9:46:24 AM	3.593	18.2558	35.3069	0.4332	4.76E-02	0.0448	4.65E+04	7.8866	103.447	3.577	-0.515	0.1	25.444	0.00E+00
10/12/2019	9:46:24 AM	3.702	18.2552	35.3073	0.4317	4.76E-02	0.0448	4.65E+04	7.88	103.36	3.592	-0.54	0.04	25.4446	0.00E+00
10/12/2019	9:46:23 AM	3.817	18.2544	35.308	0.4691	4.76E-02	0.0666	4.65E+04	7.8716	103.248	3.742	-0.549	0.05	25.4455	0.00E+00
10/12/2019	9:45:17 AM	3.84	18.2636	35.2996	0.4576	4.76E-02	0.0883	4.65E+04	7.9015	103.533	3.823	1.084	0.15	25.4341	0.00E+00
10/12/2019	9:46:23 AM	3.937	18.2533	35.3085	0.4721	4.76E-02	0.0728	4.65E+04	7.8634	103.14	3.928	-0.561	0.07	25.4463	0.00E+00
10/12/2019	9:46:23 AM	4.061	18.2519	35.3089	0.4675	4.76E-02	0.0681	4.65E+04	7.8625	103.127	4.048	-0.578	0.06	25.447	0.00E+00

10/12/2019	9:45:17 AM	4.106	18.2603	35.3003	0.4553	4.76E-02	0.0945	4.65E+04	7.8974	103.474	4.104	1.11	0.1	25.4357	0.00E+00
10/12/2019	9:46:23 AM	4.187	18.2502	35.3092	0.4645	4.76E-02	0.0635	4.65E+04	7.8662	103.173	4.142	-0.592	-0.02	25.4478	0.00E+00
10/12/2019	9:46:23 AM	4.316	18.2483	35.3094	0.5072	4.76E-02	0.065	4.65E+04	7.8746	103.282	4.288	-0.587	-0.04	25.4485	0.00E+00
10/12/2019	9:45:17 AM	4.374	18.2574	35.3012	0.4591	4.76E-02	0.0899	4.65E+04	7.8932	103.413	4.4	1.125	0.06	25.4374	0.00E+00
10/12/2019	9:46:22 AM	4.449	18.2463	35.3091	0.4996	4.76E-02	0.0666	4.65E+04	7.8807	103.36	4.428	-0.576	-0.01	25.4488	0.00E+00
10/12/2019	9:46:22 AM	4.586	18.2441	35.3088	0.5019	4.76E-02	0.0712	4.65E+04	7.8803	103.354	4.556	-0.575	0.03	25.4491	0.00E+00
10/12/2019	9:45:18 AM	4.642	18.2549	35.3021	0.4538	4.76E-02	0.0899	4.65E+04	7.8884	103.344	4.678	1.128	0.02	25.4389	0.00E+00
10/12/2019	9:46:22 AM	4.725	18.2421	35.3088	0.5019	4.76E-02	0.0681	4.65E+04	7.8774	103.316	4.695	-0.583	0.02	25.4495	0.00E+00
10/12/2019	9:46:21 AM	4.867	18.2401	35.3086	0.5148	4.76E-02	0.065	4.65E+04	7.8788	103.335	4.9	-0.587	0.09	25.4499	0.00E+00
10/12/2019	9:45:18 AM	4.909	18.2528	35.3029	0.4645	4.76E-02	0.0681	4.65E+04	7.8912	103.377	4.941	1.123	-0.02	25.4402	0.00E+00
10/12/2019	9:46:21 AM	5.009	18.2382	35.3086	0.5164	4.76E-02	0.0681	4.65E+04	7.8785	103.332	5.05	-0.611	0.18	25.4504	0.00E+00
10/12/2019	9:46:21 AM	5.151	18.2362	35.309	0.5171	4.76E-02	0.065	4.65E+04	7.8759	103.297	5.161	-0.656	0.09	25.4513	0.00E+00
10/12/2019	9:45:18 AM	5.177	18.2509	35.3035	0.4813	4.76E-02	0.065	4.65E+04	7.8868	103.316	5.193	1.111	-0.05	25.4413	0.00E+00
10/12/2019	9:46:21 AM	5.294	18.2342	35.3095	0.5186	4.76E-02	0.0681	4.65E+04	7.8759	103.296	5.309	-0.678	-0.07	25.4523	0.00E+00
10/12/2019	9:46:21 AM	5.438	18.232	35.3098	0.5148	4.76E-02	0.0712	4.65E+04	7.8731	103.257	5.435	-0.661	-0.2	25.4531	0.00E+00
10/12/2019	9:45:18 AM	5.444	18.2491	35.3039	0.4797	4.76E-02	0.0666	4.65E+04	7.8885	103.336	5.467	1.103	-0.03	25.4421	0.00E+00
10/12/2019	9:46:20 AM	5.584	18.2295	35.3096	0.5782	4.76E-02	0.0945	4.65E+04	7.874	103.268	5.557	-0.611	-0.2	25.4536	0.00E+00
10/12/2019	9:45:18 AM	5.712	18.2474	35.3039	0.4782	4.76E-02	0.0681	4.65E+04	7.896	103.431	5.752	1.1	-0.01	25.4426	0.00E+00
10/12/2019	9:46:20 AM	5.733	18.2268	35.3089	0.5782	4.76E-02	0.0945	4.65E+04	7.8766	103.304	5.733	-0.56	-0.17	25.4536	0.00E+00
10/12/2019	9:46:20 AM	5.884	18.2242	35.3078	0.5797	4.76E-02	0.0945	4.65E+04	7.8742	103.273	5.935	-0.518	-0.12	25.4533	0.00E+00
10/12/2019	9:45:19 AM	5.98	18.2455	35.3038	0.4813	4.76E-02	0.0728	4.65E+04	7.9032	103.522	6.044	1.098	-0.01	25.443	0.00E+00
10/12/2019	9:46:19 AM	6.034	18.2219	35.307	0.5751	4.76E-02	0.0899	4.65E+04	7.8701	103.22	6.091	-0.488	-0.08	25.453	0.00E+00
10/12/2019	9:46:19 AM	6.183	18.2201	35.3065	0.614	4.76E-02	0.0635	4.65E+04	7.869	103.205	6.255	-0.467	-0.03	25.4529	0.00E+00
10/12/2019	9:45:19 AM	6.246	18.2434	35.3035	0.5034	4.76E-02	0.0681	4.65E+04	7.9045	103.535	6.294	1.091	-0.03	25.4433	0.00E+00
10/12/2019	9:46:19 AM	6.328	18.2187	35.3065	0.6125	4.76E-02	0.0681	4.65E+04	7.8706	103.223	6.489	-0.459	0.1	25.4532	0.00E+00
10/12/2019	9:46:19 AM	6.467	18.2174	35.3067	0.6094	4.76E-02	0.0681	4.65E+04	7.8737	103.262	6.622	-0.484	0.17	25.4537	0.00E+00
10/12/2019	9:45:19 AM	6.512	18.2408	35.3029	0.5026	4.76E-02	0.0588	4.65E+04	7.9068	103.558	6.528	1.075	-0.06	25.4433	0.00E+00
10/12/2019	9:46:19 AM	6.6	18.2161	35.3068	0.6117	4.76E-02	0.0666	4.65E+04	7.8768	103.303	6.657	-0.527	0.13	25.4542	0.00E+00
10/12/2019	9:46:18 AM	6.731	18.2146	35.307	0.6133	4.76E-02	0.0386	4.65E+04	7.875	103.274	6.712	-0.558	0.06	25.4547	0.00E+00
10/12/2019	9:45:20 AM	6.778	18.2377	35.302	0.5019	4.76E-02	0.0635	4.65E+04	7.9103	103.595	6.772	1.061	-0.06	25.4431	0.00E+00
10/12/2019	9:46:18 AM	6.864	18.2131	35.3071	0.614	4.76E-02	0.0433	4.65E+04	7.88	103.337	6.876	-0.574	0.12	25.4553	0.00E+00
10/12/2019	9:46:18 AM	7	18.2116	35.3072	0.6102	4.76E-02	0.037	4.65E+04	7.8831	103.373	7.019	-0.605	0.11	25.4557	0.00E+00
10/12/2019	9:45:20 AM	7.048	18.2341	35.301	0.5042	4.76E-02	0.065	4.65E+04	7.9107	103.586	7.025	1.049	-0.05	25.4429	0.00E+00
10/12/2019	9:46:18 AM	7.136	18.2099	35.3071	0.6125	4.76E-02	0.0386	4.65E+04	7.8839	103.378	7.132	-0.632	0.03	25.4561	0.00E+00
10/12/2019	9:46:17 AM	7.276	18.2082	35.3069	0.6216	4.76E-02	0.0433	4.65E+04	7.8808	103.332	7.272	-0.639	0.03	25.4563	0.00E+00
10/12/2019	9:45:20 AM	7.32	18.2301	35.3	0.54	4.76E-02	0.0899	4.65E+04	7.9136	103.6	7.304	1.043	-0.03	25.4429	0.00E+00
10/12/2019	9:46:17 AM	7.418	18.2065	35.3068	0.6232	4.76E-02	0.0433	4.65E+04	7.8814	103.336	7.41	-0.646	-0.01	25.4566	0.00E+00
10/12/2019	9:46:17 AM	7.563	18.205	35.3067	0.6247	4.76E-02	0.0355	4.65E+04	7.8828	103.353	7.528	-0.643	-0.07	25.4569	0.00E+00
10/12/2019	9:45:20 AM	7.596	18.2258	35.2992	0.5385	4.76E-02	0.093	4.65E+04	7.9154	103.596	7.609	1.044	0.01	25.4432	0.00E+00
10/12/2019	9:46:16 AM	7.713	18.2034	35.3065	0.627	4.76E-02	0.0417	4.65E+04	7.8841	103.364	7.69	-0.625	0.01	25.4572	0.00E+00
10/12/2019	9:46:16 AM	7.866	18.202	35.3063	0.6239	4.76E-02	0.0448	4.65E+04	7.8923	103.469	7.872	-0.627	0.08	25.4574	0.00E+00
10/12/2019	9:45:20 AM	7.875	18.2214	35.2986	0.54	4.76E-02	0.0977	4.65E+04	7.9161	103.578	7.894	1.052	0.03	25.4437	0.00E+00
10/12/2019	9:46:16 AM	8.022	18.2006	35.3064	0.6468	4.76E-02	0.0666	4.65E+04	7.8941	103.49	8.045	-0.648	0.1	25.4578	0.00E+00
10/12/2019	9:45:21 AM	8.155	18.2171	35.2982	0.5423	4.76E-02	0.0883	4.65E+04	7.9162	103.554	8.156	1.063	0.04	25.4445	0.00E+00
10/12/2019	9:46:16 AM	8.179	18.1992	35.3065	0.6506	4.76E-02	0.0681	4.65E+04	7.8918	103.456	8.232	-0.673	0.19	25.4582	0.00E+00
10/12/2019	9:46:16 AM	8.337	18.1978	35.3067	0.6468	4.76E-02	0.0681	4.65E+04	7.8942	103.48	8.377	-0.721	0.14	25.4586	0.00E+00
10/12/2019	9:45:21 AM	8.437	18.2131	35.2984	0.6003	4.76E-02	0.0899	4.65E+04	7.9188	103.565	8.428	1.083	0.08	25.4457	0.00E+00
10/12/2019	9:46:15 AM	8.495	18.1963	35.3069	0.6461	4.76E-02	0.0681	4.65E+04	7.8925	103.451	8.504	-0.756	0	25.4592	0.00E+00
10/12/2019	9:46:15 AM	8.654	18.1949	35.307	0.6606	4.76E-02	0.0433	4.65E+04	7.8876	103.38	8.667	-0.756	-0.07	25.4596	0.00E+00
10/12/2019	9:45:21 AM	8.723	18.2095	35.299	0.6026	4.76E-02	0.0945	4.65E+04	7.919	103.55	8.716	1.105	0.09	25.4473	0.00E+00
10/12/2019	9:46:15 AM	8.817	18.1934	35.3069	0.6621	4.76E-02	0.0448	4.65E+04	7.8864	103.359	8.808	-0.738	-0.14	25.46	0.00E+00

10/12/2019	9:46:14 AM	8.983	18.1919	35.3067	0.6606	4.76E-02	0.0433	4.65E+04	7.8829	103.313	8.954	-0.703	-0.22	25.4601	0.00E+00
10/12/2019	9:45:22 AM	9.012	18.206	35.2996	0.601	4.76E-02	0.0914	4.65E+04	7.9195	103.546	9.017	1.123	0.07	25.4487	0.00E+00
10/12/2019	9:46:14 AM	9.152	18.1905	35.3064	0.6606	4.76E-02	0.0433	4.65E+04	7.8839	103.324	9.182	-0.647	-0.19	25.4602	0.00E+00
10/12/2019	9:45:22 AM	9.304	18.2028	35.3	0.5972	4.76E-02	0.0914	4.65E+04	7.9231	103.587	9.344	1.144	0.08	25.45	0.00E+00
10/12/2019	9:46:14 AM	9.323	18.1893	35.3063	0.6995	4.76E-02	0.0666	4.65E+04	7.8781	103.246	9.396	-0.599	-0.11	25.4603	0.00E+00
10/12/2019	9:46:14 AM	9.494	18.1882	35.3065	0.6964	4.76E-02	0.0712	4.64E+04	7.8752	103.206	9.581	-0.571	-0.11	25.4608	0.00E+00
10/12/2019	9:45:22 AM	9.597	18.1999	35.3007	0.611	4.76E-02	0.0681	4.65E+04	7.9242	103.597	9.652	1.16	0.06	25.4513	0.00E+00
10/12/2019	9:46:14 AM	9.661	18.1872	35.3069	0.6964	4.76E-02	0.0666	4.64E+04	7.8681	103.11	9.815	-0.543	-0.04	25.4614	0.00E+00
10/12/2019	9:46:13 AM	9.823	18.186	35.3073	0.6972	4.76E-02	0.065	4.64E+04	7.8659	103.078	9.982	-0.534	0.04	25.4621	0.00E+00
10/12/2019	9:45:22 AM	9.89	18.1973	35.3015	0.6392	4.76E-02	0.0681	4.65E+04	7.9325	103.702	9.928	1.168	0.03	25.4527	0.00E+00
10/12/2019	9:46:13 AM	9.98	18.1847	35.3075	0.7178	4.76E-02	0.0681	4.64E+04	7.8675	103.096	10.09	-0.544	0.03	25.4627	0.00E+00
10/12/2019	9:46:13 AM	10.132	18.1831	35.3074	0.7224	4.76E-02	0.0728	4.64E+04	7.8695	103.119	10.218	-0.551	0.02	25.463	0.00E+00
10/12/2019	9:45:22 AM	10.183	18.1949	35.3023	0.6377	4.76E-02	0.0681	4.65E+04	7.9378	103.77	10.228	1.182	0.06	25.4541	0.00E+00
10/12/2019	9:46:12 AM	10.282	18.1814	35.3069	0.7185	4.76E-02	0.0681	4.64E+04	7.8746	103.181	10.368	-0.557	0.07	25.4631	0.00E+00
10/12/2019	9:46:12 AM	10.431	18.1797	35.3062	0.7208	4.76E-02	0.0681	4.64E+04	7.8758	103.193	10.493	-0.575	0.14	25.463	0.00E+00
10/12/2019	9:45:23 AM	10.478	18.1925	35.303	0.6369	4.76E-02	0.0728	4.65E+04	7.9463	103.875	10.525	1.196	0.06	25.4553	0.00E+00
10/12/2019	9:46:12 AM	10.58	18.1779	35.3049	0.7239	4.76E-02	0.0666	4.64E+04	7.8817	103.268	10.623	-0.609	0.13	25.4626	0.00E+00
10/12/2019	9:46:12 AM	10.729	18.1759	35.3022	0.7201	4.76E-02	0.0681	4.64E+04	7.8822	103.271	10.793	-0.642	0.15	25.4612	0.00E+00
10/12/2019	9:45:23 AM	10.773	18.1901	35.3035	0.6346	4.76E-02	0.0712	4.65E+04	7.9504	103.922	10.825	1.201	0.02	25.4563	0.00E+00
10/12/2019	9:46:12 AM	10.878	18.1735	35.2971	0.7216	4.76E-02	0.065	4.64E+04	7.8886	103.353	10.909	-0.679	0.11	25.458	0.00E+00
10/12/2019	9:46:11 AM	11.03	18.1708	35.2876	0.7208	4.76E-02	0.0681	4.64E+04	7.8912	103.384	11.021	-0.706	0.02	25.4516	0.00E+00
10/12/2019	9:45:23 AM	11.068	18.1874	35.3038	0.6506	4.76E-02	0.0619	4.65E+04	7.9532	103.941	11.146	1.206	0.02	25.4571	0.00E+00
10/12/2019	9:46:11 AM	11.185	18.1677	35.2711	0.7201	4.76E-02	0.0681	4.64E+04	7.8913	103.383	11.185	-0.71	0	25.4398	0.00E+00
10/12/2019	9:46:11 AM	11.344	18.1646	35.2611	0.7452	4.76E-02	0.0635	4.64E+04	7.8951	103.43	11.337	-0.71	0.06	25.4329	0.00E+00
10/12/2019	9:45:24 AM	11.362	18.1842	35.3037	0.6484	4.76E-02	0.0619	4.65E+04	7.9581	103.949	11.457	1.207	0.01	25.4576	0.00E+00
10/12/2019	9:46:11 AM	11.508	18.1614	35.2726	0.746	4.76E-02	0.065	4.64E+04	7.8999	103.491	11.486	-0.726	0.1	25.4427	0.00E+00
10/12/2019	9:45:24 AM	11.655	18.1801	35.3031	0.6484	4.76E-02	0.0681	4.64E+04	7.961	103.881	11.742	1.202	-0.02	25.4578	0.00E+00
10/12/2019	9:46:10 AM	11.677	18.158	35.291	0.7452	4.76E-02	0.0666	4.64E+04	7.9052	103.557	11.662	-0.752	0.1	25.4581	0.00E+00
10/12/2019	9:46:10 AM	11.85	18.1541	35.3029	0.7414	4.76E-02	0.0666	4.64E+04	7.9098	103.615	11.887	-0.777	0.15	25.4686	0.00E+00
10/12/2019	9:45:24 AM	11.947	18.1747	35.3018	0.6514	4.76E-02	0.0712	4.64E+04	7.9616	103.756	12.04	1.205	0.01	25.4576	0.00E+00
10/12/2019	9:46:10 AM	12.025	18.1492	35.3103	0.7826	4.76E-02	0.0573	4.64E+04	7.9113	103.631	12.07	-0.814	0.15	25.4759	0.00E+00
10/12/2019	9:46:09 AM	12.202	18.1433	35.3145	0.7811	4.76E-02	0.0712	4.64E+04	7.9137	103.659	12.235	-0.852	0.06	25.4807	0.00E+00
10/12/2019	9:45:24 AM	12.236	18.1677	35.2999	0.6369	4.76E-02	0.093	4.64E+04	7.9529	103.518	12.34	1.21	0.02	25.4572	0.00E+00
10/12/2019	9:46:09 AM	12.381	18.1368	35.3165	0.7796	4.76E-02	0.0681	4.64E+04	7.9205	103.745	12.413	-0.868	-0.06	25.484	0.00E+00
10/12/2019	9:45:25 AM	12.523	18.159	35.2975	0.6339	4.76E-02	0.0945	4.64E+04	7.9423	103.287	12.643	1.208	-0.01	25.4567	0.00E+00
10/12/2019	9:46:09 AM	12.563	18.1301	35.317	0.7788	4.76E-02	0.065	4.64E+04	7.9187	103.722	12.563	-0.854	-0.23	25.4859	0.00E+00
10/12/2019	9:46:09 AM	12.749	18.1235	35.3165	0.7315	4.76E-02	0.065	4.64E+04	7.9162	103.688	12.731	-0.796	-0.38	25.4868	0.00E+00
10/12/2019	9:45:25 AM	12.807	18.1487	35.2948	0.6369	4.76E-02	0.0945	4.64E+04	7.9298	103.065	12.941	1.206	-0.01	25.4563	0.00E+00
10/12/2019	9:46:09 AM	12.94	18.1174	35.3154	0.73	4.76E-02	0.0681	4.64E+04	7.9171	103.697	12.985	-0.701	-0.34	25.4871	0.00E+00
10/12/2019	9:45:25 AM	13.088	18.1374	35.2924	0.6384	4.76E-02	0.0821	4.64E+04	7.9172	102.867	13.205	1.192	-0.06	25.4566	0.00E+00
10/12/2019	9:46:08 AM	13.132	18.1121	35.3148	0.7307	4.76E-02	0.0635	4.64E+04	7.9171	103.695	13.247	-0.616	-0.19	25.4876	0.00E+00
10/12/2019	9:46:08 AM	13.322	18.1075	35.3157	0.7346	4.76E-02	0.0666	4.64E+04	7.916	103.676	13.463	-0.568	-0.1	25.4895	0.00E+00
10/12/2019	9:45:25 AM	13.365	18.1262	35.2914	0.6972	4.76E-02	0.0681	4.64E+04	7.9009	102.637	13.478	1.172	-0.08	25.4584	0.00E+00
10/12/2019	9:46:08 AM	13.507	18.1033	35.3178	0.7361	4.76E-02	0.0681	4.64E+04	7.9188	103.71	13.679	-0.544	0.03	25.4925	0.00E+00
10/12/2019	9:45:25 AM	13.64	18.1156	35.292	0.6949	4.76E-02	0.0666	4.64E+04	7.8937	102.533	13.774	1.161	-0.04	25.4617	0.00E+00
10/12/2019	9:46:07 AM	13.687	18.0986	35.3195	0.8139	4.76E-02	0.0635	4.64E+04	7.9199	103.721	13.903	-0.55	0.15	25.4954	0.00E+00
10/12/2019	9:46:07 AM	13.858	18.0928	35.3206	0.8139	4.76E-02	0.0728	4.64E+04	7.9237	103.769	14.069	-0.588	0.21	25.498	0.00E+00
10/12/2019	9:45:26 AM	13.912	18.1063	35.2937	0.6979	4.76E-02	0.0712	4.64E+04	7.8906	102.484	14.054	1.153	-0.03	25.4658	0.00E+00
10/12/2019	9:46:07 AM	14.022	18.0862	35.3212	0.8139	4.76E-02	0.0681	4.64E+04	7.929	103.836	14.193	-0.64	0.18	25.5003	0.00E+00
10/12/2019	9:45:26 AM	14.179	18.0985	35.2963	0.6995	4.76E-02	0.0712	4.64E+04	7.8947	102.509	14.326	1.139	-0.05	25.4704	0.00E+00
10/12/2019	9:46:07 AM	14.18	18.0791	35.3217	0.8139	4.76E-02	0.0712	4.63E+04	7.9341	103.896	14.287	-0.684	0.09	25.5026	0.00E+00

10/12/2019	9:46:07 AM	14.337	18.0718	35.3222	0.8765	4.76E-02	0.0681	4.63E+04	7.9337	103.886	14.37	-0.707	-0.02	25.5049	0.00E+00
10/12/2019	9:45:26 AM	14.443	18.0922	35.2993	0.6949	4.76E-02	0.1148	4.64E+04	7.9068	102.635	14.572	1.118	-0.08	25.4751	0.00E+00
10/12/2019	9:46:06 AM	14.496	18.0643	35.3223	0.8765	4.76E-02	0.0635	4.63E+04	7.9314	103.848	14.502	-0.701	-0.07	25.5069	0.00E+00
10/12/2019	9:46:06 AM	14.659	18.0566	35.3232	0.878	4.76E-02	0.0681	4.63E+04	7.9303	103.827	14.687	-0.684	-0.04	25.5095	0.00E+00
10/12/2019	9:45:27 AM	14.704	18.0869	35.302	0.8177	4.76E-02	0.1148	4.64E+04	7.9201	102.771	14.828	1.097	-0.09	25.479	0.00E+00
10/12/2019	9:46:06 AM	14.825	18.0489	35.326	0.8734	4.76E-02	0.0681	4.63E+04	7.9417	103.811	14.869	-0.676	0	25.5141	0.00E+00
10/12/2019	9:45:27 AM	14.962	18.0818	35.3036	0.8193	4.76E-02	0.1101	4.64E+04	7.9315	102.851	15.073	1.076	-0.08	25.4818	0.00E+00
10/12/2019	9:46:05 AM	14.993	18.0407	35.3308	0.8688	4.76E-02	0.0681	4.63E+04	7.9325	103.848	15.065	-0.675	0.05	25.5209	0.00E+00
10/12/2019	9:46:05 AM	15.162	18.0308	35.3367	0.8673	4.76E-02	0.0681	4.63E+04	7.9341	103.864	15.25	-0.688	0.07	25.5293	0.00E+00
10/12/2019	9:45:27 AM	15.218	18.0761	35.3039	0.8154	4.76E-02	0.1116	4.63E+04	7.9453	102.915	15.305	1.054	-0.09	25.4833	0.00E+00
10/12/2019	9:46:05 AM	15.331	18.0182	35.3427	0.8635	4.76E-02	0.0681	4.63E+04	7.9379	103.899	15.43	-0.705	0.06	25.5386	0.00E+00
10/12/2019	9:45:27 AM	15.474	18.0687	35.3027	0.8154	4.76E-02	0.1163	4.63E+04	7.9482	102.815	15.549	1.028	-0.1	25.4836	0.00E+00
10/12/2019	9:46:05 AM	15.5	18.0025	35.3485	0.8635	4.76E-02	0.0681	4.63E+04	7.9384	103.893	15.587	-0.72	0.01	25.5485	0.00E+00
10/12/2019	9:46:05 AM	15.668	17.9836	35.3536	0.9444	4.76E-02	0.1148	4.63E+04	7.9425	103.93	15.738	-0.723	-0.04	25.5583	0.00E+00
10/12/2019	9:45:27 AM	15.731	18.058	35.2994	0.8421	4.76E-02	0.065	4.63E+04	7.9377	102.565	15.797	1.003	-0.1	25.4825	0.00E+00
10/12/2019	9:46:04 AM	15.838	17.9618	35.3562	0.9436	4.76E-02	0.1132	4.62E+04	7.9434	103.927	15.893	-0.714	-0.07	25.5665	0.00E+00
10/12/2019	9:45:28 AM	15.989	18.0421	35.2934	0.8383	4.76E-02	0.0666	4.63E+04	7.9153	102.193	16.061	0.992	-0.04	25.4798	0.00E+00
10/12/2019	9:46:04 AM	16.009	17.9378	35.3568	0.9451	4.76E-02	0.1194	4.62E+04	7.9465	103.952	16.064	-0.696	-0.08	25.5732	0.00E+00
10/12/2019	9:46:04 AM	16.182	17.9126	35.3572	0.9459	4.76E-02	0.1148	4.62E+04	7.9489	103.97	16.254	-0.676	-0.04	25.5798	0.00E+00
10/12/2019	9:45:28 AM	16.247	18.0184	35.2838	0.8391	4.76E-02	0.0712	4.63E+04	7.8887	101.785	16.34	0.996	0.02	25.475	0.00E+00
10/12/2019	9:46:04 AM	16.357	17.8873	35.3578	0.9467	4.76E-02	0.1163	4.62E+04	7.949	103.964	16.451	-0.667	0	25.5864	0.00E+00
10/12/2019	9:45:28 AM	16.506	17.9849	35.2695	0.8383	4.76E-02	0.0743	4.63E+04	7.8599	101.357	16.613	1.011	0.06	25.468	0.00E+00
10/12/2019	9:46:03 AM	16.531	17.8619	35.3587	0.9909	4.76E-02	0.121	4.61E+04	7.9543	104.027	16.65	-0.666	0.04	25.5934	0.00E+00
10/12/2019	9:46:03 AM	16.704	17.8365	35.3587	0.9947	4.76E-02	0.1132	4.61E+04	7.9507	103.978	16.829	-0.676	0.04	25.5996	0.00E+00
10/12/2019	9:45:29 AM	16.764	17.9426	35.2518	0.8521	4.76E-02	0.0588	4.62E+04	7.8405	101.02	16.864	1.023	0.05	25.4603	0.00E+00
10/12/2019	9:46:03 AM	16.875	17.8108	35.356	0.9963	4.76E-02	0.1148	4.61E+04	7.9504	103.968	16.996	-0.687	0.03	25.6032	0.00E+00
10/12/2019	9:45:29 AM	17.021	17.8968	35.2377	0.8536	4.76E-02	0.0681	4.62E+04	7.8222	100.711	17.106	1.032	0.04	25.4578	0.00E+00
10/12/2019	9:46:02 AM	17.044	17.7856	35.35	0.9947	4.76E-02	0.1163	4.61E+04	7.9472	103.91	17.143	-0.695	-0.02	25.6035	0.00E+00
10/12/2019	9:46:02 AM	17.213	17.7624	35.343	1.0306	4.76E-02	0.1163	4.60E+04	7.9484	103.911	17.297	-0.69	-0.06	25.602	0.00E+00
10/12/2019	9:45:29 AM	17.279	17.8539	35.2342	0.8559	4.76E-02	0.0728	4.61E+04	7.8019	100.392	17.359	1.038	0.02	25.4656	0.00E+00
10/12/2019	9:46:02 AM	17.383	17.7428	35.3381	1.0344	4.76E-02	0.1132	4.60E+04	7.9448	103.849	17.459	-0.676	-0.06	25.6015	0.00E+00
10/12/2019	9:45:29 AM	17.538	17.8177	35.242	0.8528	4.76E-02	0.065	4.61E+04	7.7876	100.166	17.615	1.037	0	25.4829	0.00E+00
10/12/2019	9:46:02 AM	17.554	17.727	35.3365	1.0329	4.76E-02	0.121	4.60E+04	7.9452	103.837	17.63	-0.66	-0.02	25.6034	0.00E+00
10/12/2019	9:46:02 AM	17.726	17.7135	35.3378	1.0298	4.76E-02	0.1241	4.60E+04	7.9457	103.831	17.825	-0.655	0.04	25.6077	0.00E+00
10/12/2019	9:45:29 AM	17.798	17.7891	35.2558	0.9215	4.76E-02	0.0681	4.61E+04	7.7717	99.921	17.879	1.035	-0.01	25.504	0.00E+00
10/12/2019	9:46:01 AM	17.898	17.7007	35.3412	1.068	4.76E-02	0.2064	4.60E+04	7.9425	103.773	18.006	-0.666	0.09	25.6142	0.00E+00
10/12/2019	9:45:30 AM	18.059	17.7671	35.2703	0.9192	4.76E-02	0.0681	4.60E+04	7.7565	99.647	18.174	1.038	0.01	25.524	0.00E+00
10/12/2019	9:46:01 AM	18.069	17.6869	35.3448	1.0649	4.76E-02	0.208	4.60E+04	7.9478	103.833	18.182	-0.687	0.1	25.6212	0.00E+00
10/12/2019	9:46:01 AM	18.24	17.6712	35.3468	1.0649	4.76E-02	0.2096	4.59E+04	7.9454	103.794	18.348	-0.712	0.11	25.6273	0.00E+00
10/12/2019	9:45:30 AM	18.319	17.7496	35.2823	0.9192	4.76E-02	0.0728	4.60E+04	7.735	99.289	18.452	1.045	0.03	25.5402	0.00E+00
10/12/2019	9:46:00 AM	18.411	17.6537	35.3485	1.0619	4.76E-02	0.2033	4.59E+04	7.9432	103.748	18.505	-0.74	0.06	25.6334	0.00E+00
10/12/2019	9:45:30 AM	18.578	17.734	35.29	0.9177	4.76E-02	0.065	4.60E+04	7.7173	98.976	18.693	1.049	0.02	25.5515	0.00E+00
10/12/2019	9:46:00 AM	18.582	17.6351	35.3527	1.0535	4.76E-02	0.4753	4.59E+04	7.9461	103.763	18.652	-0.754	0.02	25.642	0.00E+00
10/12/2019	9:46:00 AM	18.755	17.6153	35.3592	1.0527	4.76E-02	0.48	4.59E+04	7.9468	103.735	18.801	-0.761	-0.01	25.6531	0.00E+00
10/12/2019	9:45:30 AM	18.837	17.7173	35.2928	0.9192	4.76E-02	0.0868	4.60E+04	7.7043	98.72	18.931	1.052	0.01	25.5579	0.00E+00
10/12/2019	9:46:00 AM	18.932	17.5933	35.3663	1.0512	4.76E-02	0.4722	4.59E+04	7.9543	103.794	18.969	-0.758	0.01	25.6655	0.00E+00
10/12/2019	9:45:31 AM	19.095	17.6971	35.2904	1.0054	4.76E-02	0.0992	4.60E+04	7.6973	98.494	19.186	1.051	0	25.5599	0.00E+00
10/12/2019	9:46:00 AM	19.113	17.5681	35.3735	1.0573	4.76E-02	0.4737	4.58E+04	7.955	103.753	19.172	-0.761	0.04	25.6789	0.00E+00
10/12/2019	9:45:59 AM	19.296	17.5395	35.3821	1.0565	4.76E-02	0.4753	4.58E+04	7.9588	103.747	19.374	-0.771	0.05	25.6942	0.00E+00
10/12/2019	9:45:31 AM	19.355	17.6719	35.284	1.0054	4.76E-02	0.093	4.60E+04	7.6836	98.191	19.436	1.043	-0.03	25.5591	0.00E+00
10/12/2019	9:45:59 AM	19.482	17.5074	35.3912	1.1862	4.76E-02	0.3587	4.58E+04	7.962	103.724	19.577	-0.783	0.05	25.7108	0.00E+00

10/12/2019	9:45:31 AM	19.616	17.6401	35.2759	1.0039	4.76E-02	0.0961	4.59E+04	7.6636	97.846	19.706	1.036	-0.03	25.5578	0.00E+00
10/12/2019	9:45:59 AM	19.668	17.4713	35.3971	1.187	4.76E-02	0.3556	4.58E+04	7.9587	103.647	19.761	-0.795	0.01	25.7253	0.00E+00
10/12/2019	9:45:58 AM	19.856	17.4317	35.3983	1.1878	4.76E-02	0.351	4.57E+04	7.9498	103.467	19.958	-0.797	0.01	25.7359	0.00E+00
10/12/2019	9:45:32 AM	19.879	17.6	35.2652	1.0062	4.76E-02	0.0868	4.59E+04	7.6421	97.533	19.992	1.034	-0.01	25.5557	0.00E+00
10/12/2019	9:45:58 AM	20.044	17.3907	35.3974	1.1885	4.76E-02	0.3572	4.57E+04	7.9362	103.255	20.116	-0.8	-0.05	25.7444	0.00E+00
10/12/2019	9:45:32 AM	20.141	17.5525	35.2517	1.0283	4.76E-02	0.2298	4.58E+04	7.6186	97.205	20.27	1.036	0.01	25.5531	0.00E+00
10/12/2019	9:45:58 AM	20.235	17.3506	35.3971	1.1893	4.76E-02	0.3758	4.56E+04	7.9243	103.028	20.304	-0.788	-0.03	25.7532	0.00E+00
10/12/2019	9:45:32 AM	20.402	17.5028	35.2417	1.0298	4.76E-02	0.2313	4.58E+04	7.5878	96.759	20.536	1.047	0.05	25.5553	0.00E+00
10/12/2019	9:45:58 AM	20.428	17.3123	35.3981	1.1885	4.76E-02	0.3758	4.56E+04	7.9124	102.825	20.497	-0.782	-0.03	25.763	0.00E+00
10/12/2019	9:45:58 AM	20.624	17.2749	35.3997	1.19	4.76E-02	0.3805	4.56E+04	7.9049	102.669	20.73	-0.774	0.02	25.7732	0.00E+00
10/12/2019	9:45:32 AM	20.661	17.456	35.2421	1.0283	4.76E-02	0.2282	4.57E+04	7.5473	96.173	20.789	1.062	0.06	25.5671	0.00E+00
10/12/2019	9:45:57 AM	20.82	17.2375	35.4	1.1862	4.76E-02	0.3836	4.55E+04	7.895	102.513	20.948	-0.78	0.04	25.7821	0.00E+00
10/12/2019	9:45:32 AM	20.92	17.4137	35.2509	1.0306	4.76E-02	0.2251	4.57E+04	7.5024	95.527	21.053	1.071	0.04	25.5859	0.00E+00
10/12/2019	9:45:57 AM	21.016	17.2003	35.3972	1.3388	4.76E-02	0.4318	4.55E+04	7.8867	102.386	21.143	-0.789	0.07	25.7879	0.00E+00
10/12/2019	9:45:33 AM	21.178	17.3745	35.2611	1.055	4.76E-02	0.3712	4.57E+04	7.463	94.942	21.314	1.071	0	25.6051	0.00E+00
10/12/2019	9:45:57 AM	21.211	17.1642	35.3923	1.3358	4.76E-02	0.4287	4.55E+04	7.88	102.29	21.329	-0.805	0.06	25.7913	0.00E+00
10/12/2019	9:45:57 AM	21.407	17.1308	35.3876	1.335	4.76E-02	0.4256	4.54E+04	7.8741	102.195	21.504	-0.82	0.02	25.794	0.00E+00
10/12/2019	9:45:33 AM	21.435	17.3366	35.268	1.0527	4.76E-02	0.3774	4.56E+04	7.4212	94.35	21.592	1.072	0	25.6206	0.00E+00
10/12/2019	9:45:56 AM	21.603	17.101	35.385	1.335	4.76E-02	0.4256	4.54E+04	7.8891	102.368	21.695	-0.826	0	25.798	0.00E+00
10/12/2019	9:45:33 AM	21.69	17.2992	35.271	1.055	4.76E-02	0.3758	4.56E+04	7.3848	93.821	21.864	1.069	-0.01	25.6324	0.00E+00
10/12/2019	9:45:56 AM	21.802	17.0742	35.3853	1.4319	4.76E-02	0.3043	4.54E+04	7.8847	102.275	21.879	-0.827	0	25.8041	0.00E+00
10/12/2019	9:45:34 AM	21.941	17.2637	35.2733	1.055	4.76E-02	0.3852	4.56E+04	7.3536	93.36	22.117	1.061	-0.03	25.6433	0.00E+00
10/12/2019	9:45:56 AM	22.002	17.0493	35.3875	1.4311	4.76E-02	0.309	4.54E+04	7.8736	102.093	22.103	-0.827	0.04	25.8118	0.00E+00
10/12/2019	9:45:34 AM	22.19	17.2306	35.2784	1.1496	4.76E-02	0.2981	4.55E+04	7.3261	92.937	22.319	1.042	-0.08	25.6562	0.00E+00
10/12/2019	9:45:55 AM	22.205	17.0247	35.3906	1.4342	4.76E-02	0.3043	4.53E+04	7.8709	102.02	22.308	-0.838	0.05	25.8205	0.00E+00
10/12/2019	9:45:55 AM	22.408	16.9995	35.3939	1.4319	4.76E-02	0.3043	4.53E+04	7.8576	101.82	22.517	-0.849	0.06	25.8296	0.00E+00
10/12/2019	9:45:34 AM	22.439	17.198	35.2839	1.1496	4.76E-02	0.3075	4.55E+04	7.3061	92.612	22.513	1.012	-0.12	25.669	0.00E+00
10/12/2019	9:45:55 AM	22.613	16.9732	35.397	1.4319	4.76E-02	0.3012	4.53E+04	7.8422	101.581	22.706	-0.865	0.02	25.8388	0.00E+00
10/12/2019	9:45:34 AM	22.69	17.1626	35.285	1.1527	4.76E-02	0.3043	4.55E+04	7.2839	92.272	22.744	0.982	-0.12	25.6778	0.00E+00
10/12/2019	9:45:55 AM	22.82	16.9456	35.4004	1.3693	4.76E-02	0.4069	4.53E+04	7.8265	101.329	22.93	-0.871	0.03	25.8486	0.00E+00
10/12/2019	9:45:34 AM	22.945	17.1226	35.28	1.1519	4.76E-02	0.3012	4.54E+04	7.2536	91.849	23.008	0.96	-0.09	25.6818	0.00E+00
10/12/2019	9:45:55 AM	23.028	16.9169	35.4045	1.3686	4.76E-02	0.4007	4.52E+04	7.8095	101.051	23.135	-0.879	-0.01	25.8592	0.00E+00
10/12/2019	9:45:35 AM	23.205	17.0786	35.2725	1.1488	4.76E-02	0.4271	4.54E+04	7.2218	91.414	23.285	0.952	-0.03	25.6845	0.00E+00
10/12/2019	9:45:54 AM	23.237	16.8869	35.4079	1.3732	4.76E-02	0.4007	4.52E+04	7.7829	100.641	23.337	-0.875	-0.01	25.8695	0.00E+00
10/12/2019	9:45:54 AM	23.448	16.8555	35.4104	1.3724	4.76E-02	0.4116	4.52E+04	7.7654	100.346	23.538	-0.874	-0.01	25.8793	0.00E+00
10/12/2019	9:45:35 AM	23.467	17.0318	35.2675	1.1855	4.76E-02	0.5048	4.53E+04	7.184	90.887	23.581	0.962	0.04	25.6903	0.00E+00
10/12/2019	9:45:54 AM	23.661	16.8229	35.4123	1.5921	4.76E-02	0.3758	4.51E+04	7.7537	100.092	23.765	-0.871	0	25.8888	0.00E+00
10/12/2019	9:45:35 AM	23.73	16.9816	35.2642	1.187	4.76E-02	0.5017	4.53E+04	7.1318	90.168	23.876	0.991	0.12	25.6983	0.00E+00
10/12/2019	9:45:53 AM	23.876	16.7895	35.4131	1.5898	4.76E-02	0.3758	4.51E+04	7.7432	99.874	23.995	-0.872	0.04	25.8976	0.00E+00
10/12/2019	9:45:36 AM	23.993	16.9297	35.2597	1.1885	4.76E-02	0.4986	4.52E+04	7.0844	89.503	24.131	1.027	0.14	25.706	0.00E+00
10/12/2019	9:45:53 AM	24.092	16.7554	35.4136	1.5921	4.76E-02	0.3789	4.51E+04	7.7426	99.787	24.217	-0.882	0.03	25.906	0.00E+00
10/12/2019	9:45:36 AM	24.256	16.8815	35.2589	1.187	4.76E-02	0.5002	4.52E+04	7.0292	88.753	24.362	1.058	0.12	25.7174	0.00E+00
10/12/2019	9:45:53 AM	24.309	16.7212	35.4135	1.5906	4.76E-02	0.3789	4.50E+04	7.7355	99.641	24.448	-0.89	0.03	25.9137	0.00E+00
10/12/2019	9:45:36 AM	24.521	16.8411	35.2689	1.4243	4.76E-02	0.3789	4.51E+04	6.9637	87.887	24.627	1.077	0.08	25.7374	0.00E+00
10/12/2019	9:45:53 AM	24.525	16.6872	35.4111	1.5685	4.76E-02	0.2313	4.50E+04	7.7339	99.541	24.658	-0.898	-0.02	25.9192	0.00E+00
10/12/2019	9:45:53 AM	24.742	16.654	35.4076	1.5639	4.76E-02	0.2298	4.50E+04	7.7307	99.434	24.871	-0.893	-0.02	25.9233	0.00E+00
10/12/2019	9:45:36 AM	24.787	16.8072	35.2852	1.4227	4.76E-02	0.3727	4.51E+04	6.8954	87.005	24.906	1.081	0.02	25.7613	0.00E+00
10/12/2019	9:45:52 AM	24.96	16.6228	35.4051	1.5654	4.76E-02	0.2313	4.49E+04	7.7265	99.3	25.06	-0.888	-0.04	25.9278	0.00E+00
10/12/2019	9:45:36 AM	25.054	16.7752	35.2971	1.4212	4.76E-02	0.3758	4.51E+04	6.8276	86.134	25.192	1.078	-0.01	25.7801	0.00E+00
10/12/2019	9:45:52 AM	25.179	16.5939	35.4061	1.5669	4.76E-02	0.2313	4.49E+04	7.716	99.089	25.296	-0.878	0	25.9352	0.00E+00
10/12/2019	9:45:37 AM	25.322	16.7409	35.2991	1.4205	4.76E-02	0.3758	4.51E+04	6.7526	85.177	25.494	1.081	0.01	25.7896	0.00E+00

10/12/2019	9:45:52 AM	25.4	16.5665	35.4114	1.6265	4.76E-02	0.3758	4.49E+04	7.6982	98.8	25.528	-0.877	0.06	25.9464	0.00E+00
10/12/2019	9:45:37 AM	25.587	16.704	35.2947	1.4411	4.76E-02	0.4691	4.50E+04	6.6837	84.303	25.785	1.089	0.03	25.7938	0.00E+00
10/12/2019	9:45:51 AM	25.622	16.5384	35.4173	1.6333	4.76E-02	0.3789	4.49E+04	7.6723	98.418	25.757	-0.892	0.09	25.9586	0.00E+00
10/12/2019	9:45:51 AM	25.845	16.5079	35.4187	1.628	4.76E-02	0.3867	4.48E+04	7.6422	97.998	26	-0.916	0.15	25.9672	0.00E+00
10/12/2019	9:45:37 AM	25.849	16.6661	35.2915	1.4456	4.76E-02	0.4722	4.50E+04	6.622	83.521	26.064	1.103	0.06	25.7995	0.00E+00
10/12/2019	9:45:51 AM	26.067	16.475	35.4145	1.628	4.76E-02	0.3774	4.48E+04	7.6071	97.506	26.219	-0.953	0.12	25.9709	0.00E+00
10/12/2019	9:45:37 AM	26.107	16.6285	35.2916	1.4411	4.76E-02	0.4846	4.49E+04	6.5631	82.775	26.333	1.121	0.07	25.8082	0.00E+00
10/12/2019	9:45:51 AM	26.289	16.4426	35.4086	1.6265	4.76E-02	0.3789	4.48E+04	7.5676	96.968	26.428	-0.982	0.06	25.9725	0.00E+00
10/12/2019	9:45:38 AM	26.361	16.5917	35.2931	1.4441	4.76E-02	0.4846	4.49E+04	6.5192	82.223	26.561	1.121	0	25.8183	0.00E+00
10/12/2019	9:45:50 AM	26.512	16.4131	35.4031	1.3938	4.76E-02	0.2841	4.47E+04	7.5331	96.472	26.614	-0.997	-0.03	25.9735	0.00E+00
10/12/2019	9:45:38 AM	26.611	16.5554	35.2954	1.6013	4.76E-02	0.3479	4.49E+04	6.4968	81.943	26.767	1.092	-0.12	25.8289	0.00E+00
10/12/2019	9:45:50 AM	26.737	16.3871	35.3988	1.3915	4.76E-02	0.281	4.47E+04	7.5018	96.032	26.837	-0.99	-0.11	25.975	0.00E+00
10/12/2019	9:45:38 AM	26.861	16.5192	35.2969	1.599	4.76E-02	0.3556	4.48E+04	6.4692	81.598	26.969	1.044	-0.19	25.8387	0.00E+00
10/12/2019	9:45:50 AM	26.965	16.3644	35.3964	1.396	4.76E-02	0.281	4.47E+04	7.4709	95.576	27.07	-0.963	-0.11	25.9775	0.00E+00
10/12/2019	9:45:39 AM	27.113	16.4836	35.2972	1.6066	4.76E-02	0.3572	4.48E+04	6.4595	81.48	27.225	1.001	-0.17	25.8475	0.00E+00
10/12/2019	9:45:50 AM	27.195	16.344	35.3954	1.3953	4.76E-02	0.2795	4.47E+04	7.4408	95.145	27.313	-0.935	-0.11	25.981	0.00E+00
10/12/2019	9:45:39 AM	27.368	16.4499	35.2986	1.6036	4.76E-02	0.3494	4.48E+04	6.4584	81.47	27.491	0.97	-0.12	25.857	0.00E+00
10/12/2019	9:45:50 AM	27.428	16.325	35.3946	1.2381	4.76E-02	0.2298	4.46E+04	7.4146	94.753	27.591	-0.909	-0.06	25.9844	0.00E+00
10/12/2019	9:45:39 AM	27.624	16.4194	35.3032	1.602	4.76E-02	0.3199	4.47E+04	6.467	81.579	27.762	0.959	-0.05	25.8689	0.00E+00
10/12/2019	9:45:49 AM	27.66	16.3069	35.3928	1.2351	4.76E-02	0.2298	4.46E+04	7.3907	94.392	27.85	-0.894	-0.02	25.9868	0.00E+00
10/12/2019	9:45:39 AM	27.881	16.3916	35.3099	1.6646	4.76E-02	0.236	4.47E+04	6.4776	81.714	28.038	0.967	0.03	25.8819	0.00E+00
10/12/2019	9:45:49 AM	27.89	16.2894	35.3905	1.2381	4.76E-02	0.2282	4.46E+04	7.3679	94.033	28.117	-0.89	0	25.9883	0.00E+00
10/12/2019	9:45:49 AM	28.115	16.2732	35.3877	1.2366	4.76E-02	0.236	4.46E+04	7.3424	93.652	28.346	-0.891	-0.04	25.9891	0.00E+00
10/12/2019	9:45:39 AM	28.139	16.3644	35.3149	1.6684	4.76E-02	0.2313	4.47E+04	6.4872	81.833	28.296	0.986	0.08	25.8929	0.00E+00
10/12/2019	9:45:48 AM	28.337	16.2586	35.3842	1.1275	4.76E-02	0.3075	4.46E+04	7.3079	93.143	28.565	-0.881	-0.11	25.9889	0.00E+00
10/12/2019	9:45:40 AM	28.396	16.3364	35.3158	1.6661	4.76E-02	0.2298	4.47E+04	6.4974	81.961	28.56	1.018	0.12	25.9	0.00E+00
10/12/2019	9:45:48 AM	28.554	16.246	35.3807	1.1305	4.76E-02	0.3028	4.46E+04	7.2668	92.552	28.781	-0.854	-0.13	25.9882	0.00E+00
10/12/2019	9:45:40 AM	28.653	16.3077	35.314	1.6654	4.76E-02	0.2329	4.46E+04	6.5074	82.09	28.855	1.054	0.15	25.905	0.00E+00
10/12/2019	9:45:48 AM	28.767	16.2354	35.3771	1.129	4.76E-02	0.3059	4.46E+04	7.2205	91.908	28.969	-0.821	-0.2	25.9869	0.00E+00
10/12/2019	9:45:40 AM	28.907	16.2804	35.3136	1.4929	4.76E-02	0.2096	4.46E+04	6.5208	82.265	29.169	1.091	0.15	25.9112	0.00E+00
10/12/2019	9:45:48 AM	28.977	16.2269	35.3733	1.1221	4.76E-02	0.3028	4.46E+04	7.1685	91.172	29.208	-0.772	-0.18	25.985	0.00E+00
10/12/2019	9:45:41 AM	29.154	16.2568	35.3173	1.4929	4.76E-02	0.2049	4.46E+04	6.5287	82.372	29.45	1.11	0.07	25.9207	0.00E+00
10/12/2019	9:45:48 AM	29.182	16.2206	35.3698	1.1023	4.76E-02	0.2795	4.45E+04	7.1116	90.407	29.445	-0.726	-0.21	25.9828	0.00E+00
10/12/2019	9:45:47 AM	29.381	16.2163	35.3666	1.1038	4.76E-02	0.2826	4.45E+04	7.0441	89.5	29.675	-0.675	-0.22	25.9805	0.00E+00
10/12/2019	9:45:41 AM	29.394	16.2381	35.3254	1.4914	4.76E-02	0.208	4.46E+04	6.5361	82.473	29.709	1.117	0.03	25.9332	0.00E+00
10/12/2019	9:45:47 AM	29.572	16.2141	35.3644	1.0993	4.76E-02	0.281	4.45E+04	6.9787	88.644	29.91	-0.62	-0.25	25.9787	0.00E+00
10/12/2019	9:45:41 AM	29.624	16.2241	35.3352	1.4937	4.76E-02	0.2127	4.46E+04	6.543	82.564	29.977	1.119	0.01	25.9463	0.00E+00
10/12/2019	9:45:47 AM	29.753	16.2136	35.3636	1.1008	4.76E-02	0.2764	4.45E+04	6.9254	87.923	30.11	-0.558	-0.31	25.9778	0.00E+00
10/12/2019	9:45:41 AM	29.842	16.2138	35.3438	1.1893	4.76E-02	0.4256	4.45E+04	6.5488	82.639	30.249	1.119	0	25.9572	0.00E+00
10/12/2019	9:45:46 AM	29.922	16.2141	35.364	1.1023	4.76E-02	0.2795	4.45E+04	6.8635	87.074	30.284	-0.48	-0.37	25.9779	0.00E+00
10/12/2019	9:45:41 AM	30.045	16.2064	35.3504	1.1855	4.76E-02	0.4271	4.45E+04	6.5579	82.748	30.514	1.115	-0.02	25.9656	0.00E+00
10/12/2019	9:45:46 AM	30.079	16.2151	35.3656	1.2496	4.76E-02	0.3541	4.45E+04	6.8107	86.339	30.43	-0.389	-0.41	25.9792	0.00E+00
10/12/2019	9:45:46 AM	30.224	16.2158	35.3678	1.2465	4.76E-02	0.3525	4.45E+04	6.765	85.684	30.603	-0.285	-0.39	25.9812	0.00E+00
10/12/2019	9:45:42 AM	30.229	16.2013	35.3556	1.187	4.76E-02	0.4333	4.45E+04	6.5661	82.848	30.819	1.113	-0.01	25.972	0.00E+00
10/12/2019	9:45:46 AM	30.356	16.2156	35.3697	1.2511	4.76E-02	0.3525	4.45E+04	6.7167	85.036	30.764	-0.189	-0.33	25.9832	0.00E+00
10/12/2019	9:45:42 AM	30.387	16.1983	35.3601	1.1878	4.76E-02	0.4318	4.45E+04	6.5759	82.965	31.077	1.101	-0.05	25.9771	0.00E+00
10/12/2019	9:45:46 AM	30.474	16.2142	35.3705	1.2503	4.76E-02	0.3463	4.45E+04	6.6802	84.533	30.925	-0.107	-0.23	25.9844	0.00E+00
10/12/2019	9:45:42 AM	30.514	16.1969	35.3636	1.1893	4.76E-02	0.525	4.45E+04	6.5842	83.066	31.16	1.04	-0.24	25.981	0.00E+00
10/12/2019	9:45:45 AM	30.574	16.212	35.3702	1.2984	4.76E-02	0.4535	4.45E+04	6.6507	84.131	31.038	-0.05	-0.15	25.9847	0.00E+00
10/12/2019	9:45:43 AM	30.613	16.1967	35.3663	1.187	4.76E-02	0.5328	4.45E+04	6.5899	83.139	31.169	0.933	-0.43	25.9837	0.00E+00
10/12/2019	9:45:45 AM	30.656	16.2093	35.3687	1.2976	4.76E-02	0.452	4.45E+04	6.6251	83.781	31.135	-0.012	-0.06	25.984	0.00E+00

10/12/2019	9:45:43 AM	30.687	16.1974	35.3682	1.1847	4.76E-02	0.5297	4.45E+04	6.594	83.194	31.175	0.788	-0.58	25.9855	0.00E+00
10/12/2019	9:45:45 AM	30.719	16.2069	35.3671	1.2991	4.76E-02	0.4489	4.45E+04	6.6069	83.523	31.18	0.004	-0.02	25.983	0.00E+00
10/12/2019	9:45:43 AM	30.742	16.1986	35.3694	1.1885	4.76E-02	0.5266	4.45E+04	6.5897	83.148	31.18	0.616	-0.69	25.9865	0.00E+00
10/12/2019	9:45:44 AM	30.765	16.2052	35.3664	1.2991	4.76E-02	0.452	4.45E+04	6.5963	83.362	31.187	0.009	-0.02	25.9826	0.00E+00
10/12/2019	9:45:43 AM	30.78	16.2001	35.3698	1.1855	4.76E-02	0.5266	4.45E+04	6.5916	83.186	31.184	0.436	-0.72	25.9867	0.00E+00
10/12/2019	9:45:44 AM	30.794	16.2041	35.3667	1.2869	4.76E-02	0.3789	4.45E+04	6.5857	83.193	31.188	0.014	-0.1	25.9831	0.00E+00
10/12/2019	9:45:43 AM	30.803	16.2015	35.3696	1.2854	4.76E-02	0.3805	4.45E+04	6.5801	83.051	31.187	0.267	-0.68	25.9862	0.00E+00
10/12/2019	9:45:44 AM	30.81	16.2033	35.3676	1.2869	4.76E-02	0.3758	4.45E+04	6.5769	83.057	31.188	0.038	-0.34	25.984	0.00E+00
10/12/2019	9:45:44 AM	30.813	16.2025	35.3687	1.2877	4.76E-02	0.3789	4.45E+04	6.5869	83.162	31.187	0.124	-0.57	25.9852	0.00E+00

TRANSECT 2 - 2,000 m

DD MMM YYYY HH:MM:SS	DD MMM YYYY HH:MM:SS	DepSM	Tv290C	Sal00	FlECO-AFL	Par	TurbWETntu0	C0uS/cm	Sbeox0Mg/L	Sbeox0PS	PrdM	Dz/dtM	AccM	Sigma-t00	Flag
10/12/2019	9:50:14 AM	0.28	18.2608	35.3053	0.4179	4.76E-02	0.9198	4.65E+04	7.092	92.994	0.259	-0.23	0.21	25.4412	0.00E+00
10/12/2019	9:50:14 AM	0.328	18.261	35.3058	0.4225	4.76E-02	0.926	4.65E+04	7.0827	92.874	0.297	-0.281	0.25	25.4416	0.00E+00
10/12/2019	9:50:14 AM	0.379	18.2609	35.306	0.4202	4.76E-02	0.9291	4.65E+04	7.0739	92.759	0.297	-0.344	0.29	25.4418	0.00E+00
10/12/2019	9:50:13 AM	0.435	18.2607	35.306	0.4187	4.76E-02	0.9291	4.65E+04	7.0893	92.962	0.289	-0.416	0.28	25.4419	0.00E+00
10/12/2019	9:50:13 AM	0.5	18.2605	35.3059	0.408	4.76E-02	0.6742	4.65E+04	7.0995	93.096	0.314	-0.486	0.2	25.4419	0.00E+00
10/12/2019	9:50:13 AM	0.575	18.2601	35.306	0.4073	4.76E-02	0.6835	4.65E+04	7.1114	93.254	0.406	-0.537	0.14	25.4421	0.00E+00
10/12/2019	9:50:13 AM	0.662	18.2597	35.3061	0.4042	4.76E-02	0.6804	4.65E+04	7.1364	93.58	0.532	-0.571	0.15	25.4424	0.00E+00
10/12/2019	9:48:51 AM	0.698	18.2512	35.3071	0.6339	4.76E-02	0.5095	4.65E+04	7.144	93.682	0.599	0.315	-0.12	25.4449	0.00E+00
10/12/2019	9:50:13 AM	0.756	18.2592	35.3061	0.4057	4.76E-02	0.6758	4.65E+04	7.177	94.114	0.639	-0.608	0.1	25.4426	0.00E+00
10/12/2019	9:48:51 AM	0.769	18.2511	35.3073	0.4088	4.76E-02	0.5048	4.65E+04	7.0869	92.93	0.665	0.264	-0.2	25.4451	0.00E+00
10/12/2019	9:48:51 AM	0.847	18.251	35.3074	0.4065	4.76E-02	0.5033	4.65E+04	7.069	92.692	0.734	0.216	-0.19	25.4452	0.00E+00
10/12/2019	9:50:12 AM	0.859	18.2585	35.3058	0.4576	4.76E-02	0.4535	4.65E+04	7.2326	94.844	0.718	-0.633	-0.02	25.4426	0.00E+00
10/12/2019	9:48:51 AM	0.933	18.251	35.3075	0.4073	4.76E-02	0.4986	4.65E+04	7.0361	92.258	0.791	0.182	-0.14	25.4453	0.00E+00
10/12/2019	9:50:12 AM	0.972	18.2577	35.3053	0.4576	4.76E-02	0.4613	4.65E+04	7.3032	95.768	0.807	-0.629	-0.08	25.4423	0.00E+00
10/12/2019	9:48:51 AM	1.027	18.2509	35.3075	0.4057	4.76E-02	0.5033	4.65E+04	7.0517	92.463	0.846	0.166	-0.06	25.4454	0.00E+00
10/12/2019	9:50:12 AM	1.094	18.2569	35.3046	0.4553	4.76E-02	0.4535	4.65E+04	7.3934	96.954	0.939	-0.61	-0.07	25.442	0.00E+00
10/12/2019	9:48:52 AM	1.134	18.2509	35.3076	0.4172	4.76E-02	0.1163	4.65E+04	7.0384	92.289	0.914	0.185	0.08	25.4454	0.00E+00
10/12/2019	9:50:11 AM	1.225	18.2561	35.3039	0.4591	4.76E-02	0.4489	4.65E+04	7.4878	98.194	1.131	-0.591	-0.03	25.4417	0.00E+00
10/12/2019	9:48:52 AM	1.254	18.2509	35.3076	0.4172	4.76E-02	0.1148	4.65E+04	7.0591	92.558	1.001	0.225	0.16	25.4455	0.00E+00
10/12/2019	9:50:11 AM	1.363	18.2553	35.3039	0.466	4.76E-02	0.2235	4.65E+04	7.5724	99.307	1.346	-0.584	0.03	25.442	0.00E+00
10/12/2019	9:48:52 AM	1.391	18.2509	35.3077	0.4172	4.76E-02	0.1194	4.65E+04	7.0721	92.727	1.127	0.27	0.18	25.4455	0.00E+00
10/12/2019	9:50:11 AM	1.502	18.2545	35.3051	0.4691	4.76E-02	0.2266	4.65E+04	7.6367	100.154	1.506	-0.59	0.05	25.4431	0.00E+00
10/12/2019	9:48:53 AM	1.544	18.2509	35.3077	0.4202	4.76E-02	0.1148	4.65E+04	7.1093	93.212	1.299	0.323	0.21	25.4455	0.00E+00
10/12/2019	9:50:11 AM	1.643	18.2535	35.3063	0.4691	4.76E-02	0.2266	4.65E+04	7.6917	100.877	1.628	-0.602	0.05	25.4444	0.00E+00
10/12/2019	9:48:53 AM	1.712	18.2508	35.3077	0.4088	4.76E-02	0.0635	4.65E+04	7.1486	93.724	1.508	0.393	0.28	25.4455	0.00E+00
10/12/2019	9:50:11 AM	1.784	18.2523	35.3069	0.4683	4.76E-02	0.2329	4.65E+04	7.7351	101.451	1.785	-0.614	0.02	25.4451	0.00E+00
10/12/2019	9:48:53 AM	1.894	18.2507	35.3078	0.4065	4.76E-02	0.0635	4.65E+04	7.1607	93.88	1.726	0.482	0.36	25.4456	0.00E+00
10/12/2019	9:50:10 AM	1.927	18.2511	35.3072	0.4675	4.76E-02	0.2266	4.65E+04	7.7669	101.871	1.92	-0.618	-0.03	25.4456	0.00E+00
10/12/2019	9:50:10 AM	2.071	18.25	35.3078	0.4904	4.76E-02	0.1179	4.65E+04	7.7802	102.047	2.034	-0.61	-0.05	25.4464	0.00E+00
10/12/2019	9:48:53 AM	2.086	18.2506	35.3078	0.4095	4.76E-02	0.0681	4.65E+04	7.1527	93.77	1.936	0.58	0.39	25.4456	0.00E+00
10/12/2019	9:50:10 AM	2.217	18.2489	35.3084	0.4942	4.76E-02	0.1148	4.65E+04	7.7796	102.042	2.192	-0.598	-0.04	25.4471	0.00E+00
10/12/2019	9:48:54 AM	2.289	18.2504	35.3079	0.4065	4.76E-02	0.0588	4.65E+04	7.1343	93.528	2.152	0.675	0.38	25.4457	0.00E+00
10/12/2019	9:50:09 AM	2.365	18.2478	35.3086	0.4897	4.76E-02	0.1163	4.65E+04	7.7711	101.93	2.376	-0.588	-0.02	25.4476	0.00E+00
10/12/2019	9:48:54 AM	2.502	18.2501	35.3079	0.4187	4.76E-02	0.037	4.65E+04	7.0798	92.814	2.373	0.756	0.32	25.4457	0.00E+00
10/12/2019	9:50:09 AM	2.514	18.2467	35.3086	0.4935	4.76E-02	0.1179	4.65E+04	7.7691	101.905	2.538	-0.583	-0.01	25.4478	0.00E+00
10/12/2019	9:50:09 AM	2.662	18.2455	35.3086	0.4935	4.76E-02	0.1567	4.65E+04	7.7591	101.773	2.673	-0.581	0.05	25.4481	0.00E+00
10/12/2019	9:48:54 AM	2.723	18.2498	35.3078	0.4172	4.76E-02	0.0479	4.65E+04	7.0276	92.127	2.62	0.823	0.27	25.4457	0.00E+00
10/12/2019	9:50:09 AM	2.811	18.2444	35.3084	0.4935	4.76E-02	0.1598	4.65E+04	7.7593	101.774	2.825	-0.595	0.08	25.4483	0.00E+00
10/12/2019	9:48:54 AM	2.951	18.2493	35.3077	0.4195	4.76E-02	0.0433	4.65E+04	6.9781	91.477	2.893	0.879	0.22	25.4457	0.00E+00
10/12/2019	9:50:09 AM	2.959	18.2431	35.3079	0.4919	4.76E-02	0.152	4.65E+04	7.7747	101.976	3.001	-0.616	0.06	25.4483	0.00E+00
10/12/2019	9:50:08 AM	3.106	18.2418	35.3075	0.4912	4.76E-02	0.1552	4.65E+04	7.7956	102.249	3.122	-0.63	-0.03	25.4482	0.00E+00
10/12/2019	9:48:54 AM	3.184	18.2488	35.3077	0.4202	4.76E-02	0.0386	4.65E+04	6.9256	90.788	3.152	0.919	0.16	25.4458	0.00E+00
10/12/2019	9:50:08 AM	3.254	18.2405	35.307	0.5186	4.76E-02	0.121	4.65E+04	7.808	102.412	3.239	-0.623	-0.03	25.4482	0.00E+00
10/12/2019	9:50:08 AM	3.403	18.2391	35.3064	0.5156	4.76E-02	0.1179	4.65E+04	7.8207	102.576	3.413	-0.615	0.01	25.4481	0.00E+00
10/12/2019	9:48:55 AM	3.42	18.2481	35.3078	0.4294	4.76E-02	0.0681	4.65E+04	6.8903	90.324	3.386	0.945	0.1	25.4459	0.00E+00
10/12/2019	9:50:07 AM	3.553	18.2378	35.3059	0.5164	4.76E-02	0.1116	4.65E+04	7.8316	102.718	3.569	-0.619	-0.01	25.448	0.00E+00
10/12/2019	9:48:55 AM	3.66	18.2472	35.3076	0.4675	4.76E-02	0.0635	4.65E+04	6.8665	90.011	3.612	0.961	0.06	25.446	0.00E+00
10/12/2019	9:50:07 AM	3.703	18.2364	35.3056	0.5179	4.76E-02	0.1148	4.65E+04	7.8432	102.866	3.701	-0.617	-0.06	25.4481	0.00E+00
10/12/2019	9:50:07 AM	3.854	18.2352	35.3055	0.5156	4.76E-02	0.065	4.65E+04	7.8501	102.956	3.84	-0.601	-0.05	25.4483	0.00E+00
10/12/2019	9:48:55 AM	3.903	18.2461	35.3074	0.4713	4.76E-02	0.0588	4.65E+04	6.8477	89.765	3.864	0.977	0.06	25.4459	0.00E+00

10/12/2019	9:50:07 AM	4.007	18.234	35.3054	0.5186	4.76E-02	0.0681	4.65E+04	7.849	102.939	4.055	-0.588	0	25.4486	0.00E+00
10/12/2019	9:48:56 AM	4.151	18.2449	35.3071	0.4668	4.76E-02	0.065	4.65E+04	6.8358	89.609	4.117	0.987	0.04	25.446	0.00E+00
10/12/2019	9:50:06 AM	4.158	18.2328	35.3052	0.5171	4.76E-02	0.0588	4.65E+04	7.8405	102.826	4.237	-0.588	-0.01	25.4487	0.00E+00
10/12/2019	9:50:06 AM	4.307	18.2314	35.305	0.5179	4.76E-02	0.0728	4.65E+04	7.8301	102.683	4.347	-0.584	-0.06	25.4489	0.00E+00
10/12/2019	9:48:56 AM	4.402	18.2437	35.3071	0.4691	4.76E-02	0.065	4.65E+04	6.8354	89.601	4.372	0.993	0.02	25.4462	0.00E+00
10/12/2019	9:50:06 AM	4.456	18.2301	35.3051	0.5141	4.76E-02	0.0681	4.65E+04	7.8235	102.601	4.453	-0.569	-0.06	25.4492	0.00E+00
10/12/2019	9:50:06 AM	4.604	18.2289	35.3051	0.5637	4.76E-02	0.0619	4.65E+04	7.821	102.567	4.634	-0.553	-0.02	25.4495	0.00E+00
10/12/2019	9:48:56 AM	4.656	18.2427	35.3073	0.4462	4.76E-02	0.093	4.65E+04	6.8299	89.526	4.653	0.999	0.02	25.4466	0.00E+00
10/12/2019	9:50:06 AM	4.753	18.2279	35.3049	0.5644	4.76E-02	0.0728	4.65E+04	7.8184	102.53	4.81	-0.548	0.03	25.4495	0.00E+00
10/12/2019	9:50:05 AM	4.9	18.2269	35.305	0.5621	4.76E-02	0.0681	4.65E+04	7.8235	102.592	4.944	-0.555	0.08	25.4498	0.00E+00
10/12/2019	9:48:56 AM	4.912	18.2417	35.3078	0.4439	4.76E-02	0.0883	4.65E+04	6.8234	89.436	4.951	1.014	0.06	25.4473	0.00E+00
10/12/2019	9:50:05 AM	5.046	18.226	35.3054	0.5652	4.76E-02	0.0635	4.65E+04	7.8288	102.662	5.07	-0.575	0.1	25.4504	0.00E+00
10/12/2019	9:48:56 AM	5.168	18.2409	35.3085	0.4424	4.76E-02	0.0961	4.65E+04	6.8037	89.173	5.222	1.037	0.09	25.4482	0.00E+00
10/12/2019	9:50:05 AM	5.191	18.2251	35.3058	0.5522	4.76E-02	0.0417	4.65E+04	7.8357	102.751	5.249	-0.599	0.1	25.4509	0.00E+00
10/12/2019	9:50:04 AM	5.336	18.2242	35.3061	0.553	4.76E-02	0.037	4.65E+04	7.8363	102.757	5.38	-0.625	0.07	25.4514	0.00E+00
10/12/2019	9:48:57 AM	5.422	18.2399	35.3091	0.4454	4.76E-02	0.093	4.65E+04	6.7852	88.925	5.466	1.057	0.08	25.4489	0.00E+00
10/12/2019	9:50:04 AM	5.48	18.2232	35.3061	0.5522	4.76E-02	0.0448	4.65E+04	7.8384	102.782	5.471	-0.642	0.03	25.4518	0.00E+00
10/12/2019	9:50:04 AM	5.626	18.222	35.3058	0.5553	4.76E-02	0.037	4.65E+04	7.8372	102.765	5.597	-0.651	-0.02	25.4518	0.00E+00
10/12/2019	9:48:57 AM	5.675	18.2387	35.3092	0.4668	4.76E-02	0.0666	4.65E+04	6.775	88.785	5.699	1.063	0.02	25.4492	0.00E+00
10/12/2019	9:50:04 AM	5.775	18.2209	35.3051	0.5896	4.76E-02	0.0681	4.65E+04	7.8294	102.66	5.776	-0.646	-0.01	25.4515	0.00E+00
10/12/2019	9:50:04 AM	5.927	18.2197	35.304	0.5888	4.76E-02	0.0666	4.65E+04	7.8286	102.645	5.922	-0.645	0.03	25.451	0.00E+00
10/12/2019	9:48:57 AM	5.93	18.2373	35.309	0.4691	4.76E-02	0.0681	4.65E+04	6.7946	89.035	5.926	1.05	-0.05	25.4492	0.00E+00
10/12/2019	9:50:03 AM	6.081	18.2186	35.3027	0.5866	4.76E-02	0.0588	4.65E+04	7.825	102.594	6.067	-0.651	0.01	25.4503	0.00E+00
10/12/2019	9:48:58 AM	6.186	18.2358	35.3089	0.4683	4.76E-02	0.0681	4.65E+04	6.8593	89.878	6.181	1.035	-0.06	25.4495	0.00E+00
10/12/2019	9:50:03 AM	6.237	18.2176	35.3011	0.5904	4.76E-02	0.0619	4.65E+04	7.8223	102.557	6.264	-0.653	0	25.4493	0.00E+00
10/12/2019	9:50:03 AM	6.394	18.2165	35.3002	0.598	4.76E-02	0.0914	4.65E+04	7.8248	102.586	6.452	-0.653	0.03	25.449	0.00E+00
10/12/2019	9:48:58 AM	6.444	18.2343	35.309	0.4683	4.76E-02	0.0635	4.65E+04	6.9563	91.142	6.433	1.017	-0.07	25.4499	0.00E+00
10/12/2019	9:50:02 AM	6.55	18.2153	35.3012	0.6033	4.76E-02	0.0868	4.65E+04	7.8282	102.626	6.581	-0.66	0.03	25.45	0.00E+00
10/12/2019	9:48:58 AM	6.705	18.2331	35.309	0.5042	4.76E-02	0.0681	4.65E+04	7.1006	93.028	6.708	1.003	-0.06	25.4503	0.00E+00
10/12/2019	9:50:02 AM	6.706	18.2141	35.3027	0.6003	4.76E-02	0.0899	4.65E+04	7.8299	102.65	6.719	-0.666	-0.05	25.4515	0.00E+00
10/12/2019	9:50:02 AM	6.864	18.2128	35.3033	0.6049	4.76E-02	0.0868	4.65E+04	7.8331	102.687	6.905	-0.653	-0.08	25.4522	0.00E+00
10/12/2019	9:48:58 AM	6.968	18.232	35.3093	0.5034	4.76E-02	0.0759	4.65E+04	7.2705	95.249	6.993	1.003	0	25.4509	0.00E+00
10/12/2019	9:50:02 AM	7.021	18.2115	35.3034	0.6003	4.76E-02	0.093	4.65E+04	7.8359	102.722	7.058	-0.632	-0.08	25.4525	0.00E+00
10/12/2019	9:50:02 AM	7.179	18.2104	35.3037	0.598	4.76E-02	0.1163	4.65E+04	7.8382	102.749	7.21	-0.612	-0.14	25.4529	0.00E+00
10/12/2019	9:48:58 AM	7.232	18.2311	35.3098	0.508	4.76E-02	0.0635	4.65E+04	7.4441	97.52	7.262	1.018	0.06	25.4516	0.00E+00
10/12/2019	9:50:01 AM	7.336	18.2095	35.304	0.6018	4.76E-02	0.1225	4.65E+04	7.8395	102.761	7.415	-0.579	-0.15	25.4533	0.00E+00
10/12/2019	9:50:01 AM	7.491	18.2087	35.3042	0.6049	4.76E-02	0.1179	4.65E+04	7.8388	102.752	7.589	-0.541	-0.13	25.4536	0.00E+00
10/12/2019	9:48:59 AM	7.498	18.2303	35.3102	0.5026	4.76E-02	0.0681	4.65E+04	7.6086	99.671	7.52	1.038	0.08	25.4521	0.00E+00
10/12/2019	9:50:01 AM	7.643	18.208	35.3044	0.5988	4.76E-02	0.1116	4.65E+04	7.8369	102.727	7.72	-0.508	-0.07	25.4539	0.00E+00
10/12/2019	9:48:59 AM	7.764	18.2295	35.3103	0.5141	4.76E-02	0.0681	4.65E+04	7.744	101.442	7.789	1.058	0.08	25.4524	0.00E+00
10/12/2019	9:50:00 AM	7.793	18.2074	35.3046	0.6125	4.76E-02	0.0635	4.65E+04	7.828	102.606	7.873	-0.491	-0.04	25.4542	0.00E+00
10/12/2019	9:50:00 AM	7.94	18.2068	35.3047	0.614	4.76E-02	0.0681	4.65E+04	7.822	102.526	8.066	-0.482	0.04	25.4545	0.00E+00
10/12/2019	9:48:59 AM	8.031	18.2287	35.3104	0.5415	4.76E-02	0.0681	4.65E+04	7.8418	102.72	8.059	1.072	0.06	25.4527	0.00E+00
10/12/2019	9:50:00 AM	8.083	18.2061	35.305	0.611	4.76E-02	0.0588	4.65E+04	7.8145	102.428	8.192	-0.491	0.1	25.4549	0.00E+00
10/12/2019	9:50:00 AM	8.222	18.2054	35.3052	0.6117	4.76E-02	0.0619	4.65E+04	7.8086	102.349	8.296	-0.517	0.13	25.4554	0.00E+00
10/12/2019	9:49:00 AM	8.299	18.228	35.3107	0.5408	4.76E-02	0.0681	4.65E+04	7.9066	103.563	8.323	1.076	0.01	25.4531	0.00E+00
10/12/2019	9:49:59 AM	8.358	18.2046	35.3054	0.6262	4.76E-02	0.093	4.65E+04	7.7998	102.232	8.458	-0.549	0.15	25.4558	0.00E+00
10/12/2019	9:49:59 AM	8.492	18.2037	35.3055	0.6255	4.76E-02	0.0899	4.65E+04	7.7982	102.209	8.566	-0.586	0.11	25.4561	0.00E+00
10/12/2019	9:49:00 AM	8.569	18.2273	35.3107	0.5408	4.76E-02	0.0619	4.65E+04	7.9474	104.092	8.602	1.079	0.01	25.4533	0.00E+00
10/12/2019	9:49:59 AM	8.625	18.2027	35.3053	0.6224	4.76E-02	0.0868	4.65E+04	7.7976	102.197	8.634	-0.614	0	25.4562	0.00E+00
10/12/2019	9:49:59 AM	8.76	18.2016	35.3049	0.6255	4.76E-02	0.0883	4.65E+04	7.8026	102.261	8.737	-0.614	-0.11	25.4562	0.00E+00

10/12/2019	9:49:00 AM	8.839	18.2263	35.3107	0.5408	4.76E-02	0.0681	4.65E+04	7.9683	104.356	8.885	1.079	0	25.4535	0.00E+00
10/12/2019	9:49:59 AM	8.898	18.2006	35.3047	0.6232	4.76E-02	0.0883	4.65E+04	7.81	102.357	8.921	-0.586	-0.08	25.4562	0.00E+00
10/12/2019	9:49:58 AM	9.038	18.1996	35.3046	0.6232	4.76E-02	0.0806	4.65E+04	7.8201	102.485	9.06	-0.565	-0.03	25.4564	0.00E+00
10/12/2019	9:49:00 AM	9.109	18.2251	35.3107	0.5797	4.76E-02	0.0448	4.65E+04	7.977	104.462	9.152	1.08	0	25.4537	0.00E+00
10/12/2019	9:49:58 AM	9.181	18.1986	35.3046	0.6232	4.76E-02	0.0883	4.65E+04	7.8305	102.617	9.184	-0.557	-0.05	25.4566	0.00E+00
10/12/2019	9:49:58 AM	9.325	18.1978	35.3045	0.6262	4.76E-02	0.0899	4.65E+04	7.8339	102.65	9.37	-0.544	0	25.4568	0.00E+00
10/12/2019	9:49:01 AM	9.381	18.2235	35.3103	0.5736	4.76E-02	0.0417	4.65E+04	7.9809	104.504	9.423	1.085	0.02	25.4536	0.00E+00
10/12/2019	9:49:57 AM	9.47	18.1969	35.3046	0.6247	4.76E-02	0.0945	4.65E+04	7.8394	102.73	9.556	-0.545	0.1	25.4571	0.00E+00
10/12/2019	9:49:57 AM	9.614	18.196	35.305	0.6598	4.76E-02	0.0681	4.65E+04	7.8409	102.749	9.689	-0.57	0.07	25.4576	0.00E+00
10/12/2019	9:49:01 AM	9.652	18.2215	35.3096	0.5759	4.76E-02	0.0433	4.65E+04	7.9888	104.599	9.69	1.089	0.02	25.4534	0.00E+00
10/12/2019	9:49:57 AM	9.756	18.1951	35.3053	0.6621	4.76E-02	0.0666	4.65E+04	7.8428	102.771	9.828	-0.588	0.06	25.4581	0.00E+00
10/12/2019	9:49:57 AM	9.897	18.1941	35.3055	0.659	4.76E-02	0.0681	4.65E+04	7.849	102.847	9.951	-0.602	0.09	25.4585	0.00E+00
10/12/2019	9:49:01 AM	9.925	18.2192	35.3088	0.5766	4.76E-02	0.0417	4.65E+04	7.9758	104.417	9.964	1.09	0	25.4532	0.00E+00
10/12/2019	9:49:57 AM	10.039	18.193	35.3055	0.6583	4.76E-02	0.0681	4.65E+04	7.8556	102.936	10.047	-0.626	0.03	25.4587	0.00E+00
10/12/2019	9:49:56 AM	10.183	18.192	35.3053	0.6621	4.76E-02	0.0588	4.65E+04	7.8545	102.918	10.173	-0.634	-0.04	25.4588	0.00E+00
10/12/2019	9:49:01 AM	10.198	18.2166	35.3079	0.5988	4.76E-02	0.0433	4.65E+04	7.9712	104.345	10.231	1.088	-0.01	25.4529	0.00E+00
10/12/2019	9:49:56 AM	10.33	18.191	35.3052	0.6613	4.76E-02	0.0712	4.65E+04	7.8549	102.923	10.361	-0.624	0.01	25.4589	0.00E+00
10/12/2019	9:49:01 AM	10.474	18.2136	35.3068	0.598	4.76E-02	0.0479	4.65E+04	7.9628	104.223	10.508	1.088	0	25.4527	0.00E+00
10/12/2019	9:49:56 AM	10.48	18.1901	35.3055	0.6613	4.76E-02	0.0681	4.65E+04	7.8581	102.965	10.509	-0.627	0.03	25.4593	0.00E+00
10/12/2019	9:49:55 AM	10.631	18.1892	35.3058	0.6598	4.76E-02	0.0635	4.65E+04	7.8671	103.081	10.663	-0.635	0.01	25.4598	0.00E+00
10/12/2019	9:49:02 AM	10.75	18.2105	35.3058	0.6003	4.76E-02	0.0433	4.65E+04	7.9547	104.092	10.8	1.091	0.01	25.4526	0.00E+00
10/12/2019	9:49:55 AM	10.784	18.1884	35.306	2.8991	4.76E-02	0.1552	4.65E+04	7.8738	103.167	10.843	-0.638	0.07	25.4601	0.00E+00
10/12/2019	9:49:55 AM	10.938	18.1875	35.306	2.9006	4.76E-02	0.1598	4.64E+04	7.88	103.248	10.973	-0.654	0.09	25.4604	0.00E+00
10/12/2019	9:49:02 AM	11.027	18.2072	35.3051	0.6003	4.76E-02	0.0464	4.65E+04	7.9538	104.04	11.088	1.098	0.03	25.4528	0.00E+00
10/12/2019	9:49:55 AM	11.093	18.1867	35.3062	2.9021	4.76E-02	0.1552	4.64E+04	7.8795	103.241	11.105	-0.677	0.03	25.4609	0.00E+00
10/12/2019	9:49:55 AM	11.25	18.1857	35.3066	2.8998	4.76E-02	0.1536	4.64E+04	7.8848	103.307	11.305	-0.685	0.04	25.4615	0.00E+00
10/12/2019	9:49:02 AM	11.304	18.2041	35.3049	0.6354	4.76E-02	0.0448	4.65E+04	7.9514	103.964	11.375	1.11	0.05	25.4534	0.00E+00
10/12/2019	9:49:54 AM	11.408	18.1847	35.3071	0.6583	4.76E-02	0.0666	4.64E+04	7.8846	103.303	11.466	-0.696	0.06	25.4621	0.00E+00
10/12/2019	9:49:54 AM	11.567	18.1835	35.3072	0.659	4.76E-02	0.0681	4.64E+04	7.8924	103.402	11.595	-0.712	-0.03	25.4626	0.00E+00
10/12/2019	9:49:03 AM	11.581	18.2011	35.305	0.6392	4.76E-02	0.0386	4.65E+04	7.9473	103.87	11.649	1.118	0.03	25.4543	0.00E+00
10/12/2019	9:49:54 AM	11.728	18.1822	35.3071	0.6598	4.76E-02	0.065	4.64E+04	7.8962	103.448	11.768	-0.705	-0.09	25.4628	0.00E+00
10/12/2019	9:49:03 AM	11.857	18.1982	35.3054	0.6369	4.76E-02	0.0339	4.65E+04	7.9411	103.754	11.92	1.123	0.02	25.4554	0.00E+00
10/12/2019	9:49:54 AM	11.89	18.1809	35.3068	0.6628	4.76E-02	0.0666	4.64E+04	7.8987	103.48	11.947	-0.681	-0.12	25.4629	0.00E+00
10/12/2019	9:49:53 AM	12.053	18.1796	35.3066	0.6621	4.76E-02	0.0712	4.64E+04	7.9075	103.594	12.1	-0.652	-0.16	25.463	0.00E+00
10/12/2019	9:49:03 AM	12.134	18.1956	35.3059	0.6361	4.76E-02	0.0448	4.65E+04	7.9414	103.723	12.184	1.12	-0.01	25.4566	0.00E+00
10/12/2019	9:49:53 AM	12.217	18.1784	35.3063	0.6926	4.76E-02	0.1163	4.64E+04	7.9125	103.658	12.283	-0.612	-0.13	25.463	0.00E+00
10/12/2019	9:49:53 AM	12.381	18.1774	35.3061	0.6979	4.76E-02	0.1163	4.64E+04	7.9136	103.67	12.505	-0.58	-0.08	25.4629	0.00E+00
10/12/2019	9:49:03 AM	12.412	18.1932	35.3065	0.6339	4.76E-02	0.0681	4.65E+04	7.9371	103.637	12.455	1.115	-0.02	25.4578	0.00E+00
10/12/2019	9:49:52 AM	12.542	18.1766	35.3061	0.6964	4.76E-02	0.1179	4.64E+04	7.9118	103.644	12.666	-0.56	-0.11	25.4631	0.00E+00
10/12/2019	9:49:03 AM	12.691	18.1909	35.307	0.6476	4.76E-02	0.065	4.65E+04	7.9343	103.572	12.748	1.111	-0.02	25.4588	0.00E+00
10/12/2019	9:49:52 AM	12.699	18.1759	35.3066	0.6926	4.76E-02	0.1132	4.64E+04	7.9134	103.666	12.82	-0.534	-0.11	25.4637	0.00E+00
10/12/2019	9:49:52 AM	12.853	18.1752	35.3071	0.6972	4.76E-02	0.1163	4.64E+04	7.9116	103.64	13.014	-0.507	-0.05	25.4644	0.00E+00
10/12/2019	9:49:04 AM	12.971	18.1884	35.3072	0.6476	4.76E-02	0.0635	4.65E+04	7.9315	103.479	13.033	1.107	-0.01	25.4595	0.00E+00
10/12/2019	9:49:52 AM	13.002	18.1743	35.3074	0.6964	4.76E-02	0.1194	4.64E+04	7.9082	103.593	13.155	-0.493	0.01	25.4649	0.00E+00
10/12/2019	9:49:52 AM	13.147	18.1732	35.3075	0.6987	4.76E-02	0.1163	4.64E+04	7.907	103.575	13.267	-0.495	0.03	25.4653	0.00E+00
10/12/2019	9:49:04 AM	13.252	18.1857	35.3071	0.6453	4.76E-02	0.0588	4.65E+04	7.9317	103.394	13.313	1.107	0	25.46	0.00E+00
10/12/2019	9:49:51 AM	13.288	18.1721	35.3079	0.6903	4.76E-02	0.1132	4.64E+04	7.9019	103.506	13.397	-0.503	0.06	25.4659	0.00E+00
10/12/2019	9:49:51 AM	13.427	18.1709	35.3086	0.685	4.76E-02	0.065	4.64E+04	7.9024	103.51	13.524	-0.518	0.09	25.4668	0.00E+00
10/12/2019	9:49:04 AM	13.534	18.1825	35.3066	0.6506	4.76E-02	0.0681	4.65E+04	7.9351	103.339	13.59	1.11	0.01	25.4603	0.00E+00
10/12/2019	9:49:51 AM	13.564	18.1695	35.3095	0.6873	4.76E-02	0.065	4.64E+04	7.9034	103.523	13.684	-0.539	0.09	25.4681	0.00E+00
10/12/2019	9:49:50 AM	13.698	18.1678	35.3104	0.6819	4.76E-02	0.0666	4.64E+04	7.8986	103.458	13.803	-0.563	0.06	25.4695	0.00E+00

10/12/2019	9:49:05 AM	13.817	18.1787	35.3058	0.6728	4.76E-02	0.0914	4.65E+04	7.9377	103.281	13.879	1.118	0.03	25.4603	0.00E+00
10/12/2019	9:49:50 AM	13.832	18.1656	35.3112	0.6857	4.76E-02	0.0588	4.64E+04	7.8952	103.413	13.901	-0.577	0.01	25.4708	0.00E+00
10/12/2019	9:49:50 AM	13.965	18.1629	35.3116	0.6964	4.76E-02	0.1132	4.64E+04	7.8915	103.363	14.015	-0.58	-0.03	25.4719	0.00E+00
10/12/2019	9:49:05 AM	14.1	18.1745	35.3048	0.6758	4.76E-02	0.0914	4.64E+04	7.9369	103.201	14.158	1.125	0.03	25.4603	0.00E+00
10/12/2019	9:49:50 AM	14.1	18.1598	35.3116	0.6964	4.76E-02	0.1194	4.64E+04	7.8963	103.423	14.122	-0.571	-0.05	25.4728	0.00E+00
10/12/2019	9:49:50 AM	14.239	18.1564	35.3116	0.6964	4.76E-02	0.1163	4.64E+04	7.8943	103.396	14.279	-0.559	-0.02	25.4737	0.00E+00
10/12/2019	9:49:49 AM	14.379	18.153	35.3121	0.6972	4.76E-02	0.107	4.64E+04	7.8941	103.391	14.446	-0.555	0.04	25.4751	0.00E+00
10/12/2019	9:49:05 AM	14.385	18.1697	35.3039	0.6697	4.76E-02	0.0914	4.64E+04	7.9265	103.014	14.457	1.134	0.04	25.4605	0.00E+00
10/12/2019	9:49:49 AM	14.52	18.1495	35.3131	0.7002	4.76E-02	0.1132	4.64E+04	7.8921	103.362	14.6	-0.564	0.05	25.4769	0.00E+00
10/12/2019	9:49:49 AM	14.662	18.1456	35.3144	0.7315	4.76E-02	0.0712	4.64E+04	7.8942	103.384	14.771	-0.577	0.05	25.4792	0.00E+00
10/12/2019	9:49:05 AM	14.671	18.1643	35.303	0.6735	4.76E-02	0.0977	4.64E+04	7.9187	102.876	14.762	1.145	0.04	25.4609	0.00E+00
10/12/2019	9:49:48 AM	14.802	18.1411	35.3156	0.7346	4.76E-02	0.065	4.64E+04	7.8958	103.404	14.888	-0.59	0.03	25.4816	0.00E+00
10/12/2019	9:49:48 AM	14.942	18.136	35.3166	0.7315	4.76E-02	0.0681	4.64E+04	7.9009	103.467	15.007	-0.598	-0.01	25.4839	0.00E+00
10/12/2019	9:49:05 AM	14.955	18.158	35.302	0.6865	4.76E-02	0.0635	4.64E+04	7.9127	102.743	15.051	1.15	0.02	25.4613	0.00E+00
10/12/2019	9:49:48 AM	15.083	18.1302	35.3175	0.7323	4.76E-02	0.0681	4.64E+04	7.9036	103.502	15.139	-0.595	-0.02	25.4863	0.00E+00
10/12/2019	9:49:48 AM	15.225	18.1238	35.3184	0.7307	4.76E-02	0.0681	4.64E+04	7.9063	103.536	15.265	-0.589	-0.04	25.4889	0.00E+00
10/12/2019	9:49:06 AM	15.24	18.1505	35.3004	0.6857	4.76E-02	0.0666	4.64E+04	7.9039	102.527	15.333	1.156	0.02	25.4615	0.00E+00
10/12/2019	9:49:48 AM	15.37	18.1169	35.3202	0.7338	4.76E-02	0.0635	4.64E+04	7.912	103.611	15.433	-0.58	-0.02	25.4923	0.00E+00
10/12/2019	9:49:47 AM	15.516	18.1095	35.3227	0.7315	4.76E-02	0.0681	4.64E+04	7.9129	103.622	15.592	-0.574	-0.01	25.4967	0.00E+00
10/12/2019	9:49:06 AM	15.523	18.1413	35.2982	0.6827	4.76E-02	0.065	4.64E+04	7.9081	102.476	15.625	1.162	0.02	25.4614	0.00E+00
10/12/2019	9:49:47 AM	15.663	18.1011	35.3255	0.7338	4.76E-02	0.0666	4.64E+04	7.9137	103.63	15.764	-0.571	0.01	25.5017	0.00E+00
10/12/2019	9:49:06 AM	15.806	18.1298	35.2955	0.6865	4.76E-02	0.065	4.64E+04	7.9017	102.275	15.915	1.166	0.01	25.4611	0.00E+00
10/12/2019	9:49:47 AM	15.809	18.0912	35.3284	0.8032	4.76E-02	0.0588	4.64E+04	7.9124	103.611	15.911	-0.572	0.05	25.5072	0.00E+00
10/12/2019	9:49:47 AM	15.955	18.0797	35.3307	0.8063	4.76E-02	0.0588	4.63E+04	7.9131	103.616	16.029	-0.584	0.07	25.5124	0.00E+00
10/12/2019	9:49:06 AM	16.087	18.1152	35.2915	0.7208	4.76E-02	0.0635	4.64E+04	7.9016	102.119	16.195	1.163	-0.01	25.4604	0.00E+00
10/12/2019	9:49:46 AM	16.102	18.0667	35.3327	0.8025	4.76E-02	0.065	4.63E+04	7.9128	103.612	16.176	-0.601	0.09	25.5176	0.00E+00
10/12/2019	9:49:46 AM	16.249	18.0527	35.3339	0.8048	4.76E-02	0.0619	4.63E+04	7.9095	103.567	16.31	-0.624	0.1	25.5223	0.00E+00
10/12/2019	9:49:07 AM	16.367	18.0979	35.2864	0.7216	4.76E-02	0.0681	4.64E+04	7.8993	101.946	16.475	1.157	-0.02	25.4593	0.00E+00
10/12/2019	9:49:46 AM	16.398	18.0378	35.3335	0.8757	4.76E-02	0.0635	4.63E+04	7.9061	103.519	16.459	-0.649	0.1	25.5257	0.00E+00
10/12/2019	9:49:45 AM	16.549	18.0224	35.3331	0.8765	4.76E-02	0.0759	4.63E+04	7.9014	103.455	16.618	-0.673	0.12	25.5291	0.00E+00
10/12/2019	9:49:07 AM	16.646	18.079	35.2819	0.7201	4.76E-02	0.0666	4.64E+04	7.8952	101.777	16.756	1.147	-0.04	25.4594	0.00E+00
10/12/2019	9:49:45 AM	16.702	18.0073	35.3342	0.8757	4.76E-02	0.065	4.63E+04	7.8956	103.37	16.759	-0.704	0.09	25.5338	0.00E+00
10/12/2019	9:49:45 AM	16.857	17.9925	35.3374	0.8757	4.76E-02	0.065	4.63E+04	7.894	103.342	16.902	-0.727	0.07	25.5404	0.00E+00
10/12/2019	9:49:07 AM	16.924	18.0595	35.28	0.7201	4.76E-02	0.065	4.63E+04	7.8754	101.448	17.027	1.135	-0.05	25.4623	0.00E+00
10/12/2019	9:49:45 AM	17.015	17.9771	35.3415	0.878	4.76E-02	0.065	4.62E+04	7.8866	103.238	17.032	-0.745	-0.01	25.5483	0.00E+00
10/12/2019	9:49:45 AM	17.177	17.96	35.3454	0.994	4.76E-02	0.0914	4.62E+04	7.8804	103.15	17.205	-0.743	-0.05	25.5563	0.00E+00
10/12/2019	9:49:08 AM	17.202	18.0397	35.28	0.7216	4.76E-02	0.0883	4.63E+04	7.8425	100.978	17.298	1.126	-0.04	25.467	0.00E+00
10/12/2019	9:49:44 AM	17.343	17.941	35.3481	0.9955	4.76E-02	0.0868	4.62E+04	7.8777	103.112	17.399	-0.732	-0.07	25.564	0.00E+00
10/12/2019	9:49:08 AM	17.479	18.019	35.2799	0.8284	4.76E-02	0.0914	4.63E+04	7.8051	100.453	17.574	1.118	-0.03	25.4717	0.00E+00
10/12/2019	9:49:44 AM	17.512	17.92	35.3499	0.9963	4.76E-02	0.093	4.62E+04	7.8809	103.144	17.582	-0.715	-0.09	25.5711	0.00E+00
10/12/2019	9:49:44 AM	17.682	17.8977	35.3509	0.9917	4.76E-02	0.0961	4.62E+04	7.8887	103.239	17.774	-0.692	-0.07	25.5776	0.00E+00
10/12/2019	9:49:08 AM	17.757	17.9963	35.2788	0.833	4.76E-02	0.0899	4.63E+04	7.7688	99.926	17.85	1.109	-0.03	25.4758	0.00E+00
10/12/2019	9:49:43 AM	17.854	17.8744	35.3499	0.9924	4.76E-02	0.0883	4.61E+04	7.9019	103.402	17.949	-0.674	-0.1	25.5824	0.00E+00
10/12/2019	9:49:43 AM	18.025	17.8509	35.3473	0.994	4.76E-02	0.0883	4.61E+04	7.9099	103.492	18.147	-0.648	-0.1	25.5855	0.00E+00
10/12/2019	9:49:08 AM	18.035	17.9696	35.2757	0.8246	4.76E-02	0.0852	4.62E+04	7.7362	99.457	18.125	1.103	-0.02	25.4785	0.00E+00
10/12/2019	9:49:43 AM	18.195	17.8284	35.3443	0.9963	4.76E-02	0.0945	4.61E+04	7.925	103.677	18.326	-0.622	-0.13	25.5878	0.00E+00
10/12/2019	9:49:08 AM	18.313	17.9372	35.2689	0.8261	4.76E-02	0.093	4.62E+04	7.7048	98.989	18.402	1.101	-0.01	25.4789	0.00E+00
10/12/2019	9:49:43 AM	18.362	17.8078	35.3411	0.9917	4.76E-02	0.0961	4.61E+04	7.9259	103.676	18.518	-0.588	-0.11	25.5894	0.00E+00
10/12/2019	9:49:43 AM	18.527	17.7892	35.3381	1.0565	4.76E-02	0.0868	4.61E+04	7.9267	103.675	18.688	-0.562	-0.07	25.5908	0.00E+00
10/12/2019	9:49:09 AM	18.593	17.8999	35.2591	0.9032	4.76E-02	0.065	4.62E+04	7.6813	98.622	18.689	1.103	0.01	25.478	0.00E+00
10/12/2019	9:49:42 AM	18.689	17.7725	35.336	1.055	4.76E-02	0.1008	4.60E+04	7.9275	103.673	18.847	-0.545	0	25.5926	0.00E+00

10/12/2019	9:49:42 AM	18.847	17.7574	35.3351	1.0542	4.76E-02	0.0883	4.60E+04	7.919	103.537	18.996	-0.544	0.08	25.5952	0.00E+00
10/12/2019	9:49:09 AM	18.872	17.8607	35.2514	0.9017	4.76E-02	0.0681	4.61E+04	7.6588	98.264	18.985	1.111	0.03	25.4801	0.00E+00
10/12/2019	9:49:42 AM	19.002	17.7435	35.3349	1.052	4.76E-02	0.093	4.60E+04	7.916	103.477	19.145	-0.565	0.14	25.5984	0.00E+00
10/12/2019	9:49:09 AM	19.152	17.8226	35.2498	0.9017	4.76E-02	0.065	4.61E+04	7.6413	97.972	19.271	1.121	0.04	25.488	0.00E+00
10/12/2019	9:49:41 AM	19.155	17.7299	35.3352	1.0291	4.76E-02	0.1505	4.60E+04	7.9086	103.348	19.31	-0.599	0.18	25.6019	0.00E+00
10/12/2019	9:49:41 AM	19.305	17.7165	35.3362	1.0283	4.76E-02	0.1567	4.60E+04	7.9042	103.263	19.448	-0.645	0.13	25.6062	0.00E+00
10/12/2019	9:49:10 AM	19.43	17.7868	35.2531	0.9024	4.76E-02	0.0681	4.61E+04	7.6225	97.661	19.542	1.127	0.02	25.5002	0.00E+00
10/12/2019	9:49:41 AM	19.453	17.7029	35.3388	1.0291	4.76E-02	0.1552	4.60E+04	7.9008	103.187	19.574	-0.676	0.06	25.612	0.00E+00
10/12/2019	9:49:41 AM	19.6	17.6887	35.3431	1.0283	4.76E-02	0.1552	4.60E+04	7.9017	103.159	19.682	-0.692	-0.04	25.6196	0.00E+00
10/12/2019	9:49:10 AM	19.709	17.7521	35.2582	0.9688	4.76E-02	0.0821	4.60E+04	7.6092	97.425	19.826	1.131	0.02	25.5135	0.00E+00
10/12/2019	9:49:41 AM	19.749	17.6731	35.3479	1.0275	4.76E-02	0.1552	4.59E+04	7.9114	103.264	19.805	-0.682	-0.15	25.6281	0.00E+00
10/12/2019	9:49:40 AM	19.901	17.6554	35.3526	1.1008	4.76E-02	0.4535	4.59E+04	7.9087	103.204	19.95	-0.644	-0.2	25.6371	0.00E+00
10/12/2019	9:49:10 AM	19.986	17.7155	35.2612	0.9703	4.76E-02	0.0914	4.60E+04	7.5878	97.089	20.112	1.134	0.01	25.5246	0.00E+00
10/12/2019	9:49:40 AM	20.057	17.6355	35.3599	1.1015	4.76E-02	0.4504	4.59E+04	7.9127	103.234	20.127	-0.594	-0.2	25.6492	0.00E+00
10/12/2019	9:49:40 AM	20.215	17.613	35.3705	1.1031	4.76E-02	0.4551	4.59E+04	7.9117	103.188	20.341	-0.542	-0.11	25.665	0.00E+00
10/12/2019	9:49:10 AM	20.263	17.6732	35.2586	0.9711	4.76E-02	0.0945	4.60E+04	7.559	96.659	20.391	1.135	0	25.5311	0.00E+00
10/12/2019	9:49:40 AM	20.371	17.5866	35.3806	1.1038	4.76E-02	0.4598	4.59E+04	7.9087	103.105	20.543	-0.516	-0.02	25.6814	0.00E+00
10/12/2019	9:49:39 AM	20.525	17.5551	35.3885	1.087	4.76E-02	0.6773	4.58E+04	7.9036	102.998	20.728	-0.51	0.05	25.6969	0.00E+00
10/12/2019	9:49:10 AM	20.539	17.6239	35.2494	0.9734	4.76E-02	0.0945	4.59E+04	7.5343	96.287	20.684	1.136	0	25.533	0.00E+00
10/12/2019	9:49:39 AM	20.674	17.519	35.3909	1.0916	4.76E-02	0.6742	4.58E+04	7.8976	102.864	20.857	-0.522	0.05	25.7082	0.00E+00
10/12/2019	9:49:11 AM	20.813	17.5691	35.239	1.0397	4.76E-02	0.1738	4.59E+04	7.5139	95.965	20.973	1.136	0	25.5353	0.00E+00
10/12/2019	9:49:39 AM	20.818	17.4802	35.3878	1.0916	4.76E-02	0.6742	4.58E+04	7.8997	102.845	20.993	-0.534	0.05	25.7145	0.00E+00
10/12/2019	9:49:38 AM	20.959	17.4416	35.3862	1.0901	4.76E-02	0.6773	4.57E+04	7.9035	102.836	21.118	-0.547	0.05	25.7217	0.00E+00
10/12/2019	9:49:11 AM	21.084	17.5104	35.2329	1.039	4.76E-02	0.1847	4.58E+04	7.4914	95.618	21.242	1.132	-0.02	25.5427	0.00E+00
10/12/2019	9:49:38 AM	21.097	17.4055	35.3903	1.1771	4.76E-02	0.5763	4.57E+04	7.9098	102.875	21.217	-0.56	-0.02	25.7336	0.00E+00
10/12/2019	9:49:38 AM	21.235	17.3707	35.3961	1.1763	4.76E-02	0.5748	4.57E+04	7.9171	102.933	21.342	-0.555	-0.01	25.7474	0.00E+00
10/12/2019	9:49:11 AM	21.353	17.45	35.2298	1.0436	4.76E-02	0.18	4.57E+04	7.4747	95.345	21.494	1.124	-0.03	25.5536	0.00E+00
10/12/2019	9:49:38 AM	21.374	17.3343	35.3975	1.1733	4.76E-02	0.581	4.56E+04	7.9195	102.929	21.466	-0.551	0	25.7576	0.00E+00
10/12/2019	9:49:38 AM	21.513	17.2959	35.3938	1.1725	4.76E-02	0.5779	4.56E+04	7.9207	102.917	21.626	-0.552	0.07	25.763	0.00E+00
10/12/2019	9:49:12 AM	21.621	17.3928	35.2313	1.0397	4.76E-02	0.1754	4.57E+04	7.4635	95.136	21.76	1.114	-0.04	25.5691	0.00E+00
10/12/2019	9:49:37 AM	21.654	17.258	35.3869	1.261	4.76E-02	0.581	4.55E+04	7.9146	102.813	21.772	-0.569	0.1	25.7649	0.00E+00
10/12/2019	9:49:37 AM	21.795	17.2235	35.3794	1.2648	4.76E-02	0.5794	4.55E+04	7.9044	102.661	21.913	-0.595	0.08	25.7651	0.00E+00
10/12/2019	9:49:12 AM	21.888	17.3433	35.2431	1.0405	4.76E-02	0.6478	4.56E+04	7.4605	95.037	22.021	1.099	-0.06	25.5928	0.00E+00
10/12/2019	9:49:37 AM	21.936	17.1939	35.3747	1.2602	4.76E-02	0.5825	4.55E+04	7.8875	102.412	22.051	-0.615	0.03	25.7667	0.00E+00
10/12/2019	9:49:36 AM	22.077	17.1692	35.3745	1.2595	4.76E-02	0.5763	4.55E+04	7.8551	101.973	22.184	-0.624	-0.03	25.7718	0.00E+00
10/12/2019	9:49:12 AM	22.154	17.302	35.2624	1.0893	4.76E-02	0.8032	4.56E+04	7.4672	95.063	22.262	1.077	-0.09	25.6214	0.00E+00
10/12/2019	9:49:36 AM	22.219	17.1473	35.378	1.2625	4.76E-02	0.5794	4.54E+04	7.8443	101.806	22.322	-0.615	-0.03	25.78	0.00E+00
10/12/2019	9:49:36 AM	22.363	17.1257	35.3835	1.38	4.76E-02	0.6835	4.54E+04	7.8269	101.561	22.432	-0.609	-0.04	25.7903	0.00E+00
10/12/2019	9:49:12 AM	22.421	17.2663	35.2807	1.0939	4.76E-02	0.8001	4.56E+04	7.4919	95.295	22.516	1.056	-0.08	25.6474	0.00E+00
10/12/2019	9:49:36 AM	22.51	17.1025	35.3897	1.3838	4.76E-02	0.6789	4.54E+04	7.8042	101.237	22.588	-0.599	0.02	25.8018	0.00E+00
10/12/2019	9:49:36 AM	22.66	17.0769	35.393	1.3846	4.76E-02	0.6727	4.54E+04	7.781	100.904	22.758	-0.603	0.04	25.8112	0.00E+00
10/12/2019	9:49:12 AM	22.689	17.2332	35.2933	1.0886	4.76E-02	0.797	4.55E+04	7.5231	95.601	22.797	1.043	-0.05	25.667	0.00E+00
10/12/2019	9:49:35 AM	22.812	17.0488	35.3907	1.3846	4.76E-02	0.6742	4.53E+04	7.7574	100.562	22.942	-0.613	0.06	25.8158	0.00E+00
10/12/2019	9:49:13 AM	22.959	17.2005	35.2994	1.0924	4.76E-02	0.8001	4.55E+04	7.5559	95.907	23.074	1.041	-0.01	25.6803	0.00E+00
10/12/2019	9:49:35 AM	22.963	17.0199	35.3855	1.4418	4.76E-02	0.5002	4.53E+04	7.7326	100.201	23.123	-0.628	0.04	25.8175	0.00E+00
10/12/2019	9:49:35 AM	23.113	16.9931	35.3823	1.4441	4.76E-02	0.5017	4.53E+04	7.7162	99.95	23.262	-0.637	-0.03	25.8201	0.00E+00
10/12/2019	9:49:13 AM	23.229	17.1675	35.3017	1.2023	4.76E-02	0.452	4.55E+04	7.5912	96.255	23.353	1.05	0.04	25.69	0.00E+00
10/12/2019	9:49:34 AM	23.262	16.9696	35.3826	1.4464	4.76E-02	0.5079	4.53E+04	7.7063	99.74	23.383	-0.629	-0.08	25.8253	0.00E+00
10/12/2019	9:49:34 AM	23.411	16.9483	35.3844	1.4426	4.76E-02	0.5064	4.53E+04	7.6971	99.541	23.487	-0.609	-0.12	25.8317	0.00E+00
10/12/2019	9:49:13 AM	23.5	17.1335	35.3026	1.1977	4.76E-02	0.4458	4.55E+04	7.6007	96.297	23.621	1.062	0.05	25.6986	0.00E+00
10/12/2019	9:49:34 AM	23.564	16.9272	35.3831	1.4937	4.76E-02	0.323	4.52E+04	7.6928	99.395	23.647	-0.58	-0.07	25.8354	0.00E+00

10/12/2019	9:49:34 AM	23.718	16.9061	35.3775	1.496	4.76E-02	0.3292	4.52E+04	7.6881	99.242	23.831	-0.561	0.02	25.8349	0.00E+00
10/12/2019	9:49:13 AM	23.771	17.0985	35.3024	1.1977	4.76E-02	0.4473	4.54E+04	7.6014	96.232	23.897	1.073	0.04	25.7064	0.00E+00
10/12/2019	9:49:34 AM	23.874	16.8865	35.3719	1.4937	4.76E-02	0.3292	4.52E+04	7.6741	99.025	24.035	-0.565	0.14	25.8336	0.00E+00
10/12/2019	9:49:33 AM	24.029	16.8704	35.3691	1.4922	4.76E-02	0.3308	4.52E+04	7.6616	98.808	24.206	-0.6	0.18	25.8341	0.00E+00
10/12/2019	9:49:14 AM	24.043	17.0629	35.3024	1.2007	4.76E-02	0.4535	4.54E+04	7.5701	95.757	24.169	1.084	0.05	25.7145	0.00E+00
10/12/2019	9:49:33 AM	24.181	16.8577	35.3686	1.5921	4.76E-02	0.3479	4.52E+04	7.6571	98.681	24.358	-0.645	0.18	25.8361	0.00E+00
10/12/2019	9:49:14 AM	24.316	17.0272	35.3038	1.2755	4.76E-02	0.6773	4.54E+04	7.5137	94.969	24.45	1.097	0.05	25.724	0.00E+00
10/12/2019	9:49:33 AM	24.331	16.8468	35.3697	1.5868	4.76E-02	0.351	4.52E+04	7.6539	98.538	24.463	-0.689	0.09	25.8396	0.00E+00
10/12/2019	9:49:33 AM	24.481	16.8363	35.3728	1.5868	4.76E-02	0.3541	4.51E+04	7.6487	98.387	24.56	-0.712	0.01	25.8449	0.00E+00
10/12/2019	9:49:14 AM	24.588	16.9916	35.3058	1.274	4.76E-02	0.6789	4.53E+04	7.4249	93.795	24.743	1.107	0.04	25.734	0.00E+00
10/12/2019	9:49:32 AM	24.634	16.8253	35.378	1.5906	4.76E-02	0.3541	4.51E+04	7.6494	98.334	24.691	-0.715	-0.05	25.8526	0.00E+00
10/12/2019	9:49:32 AM	24.792	16.8128	35.385	1.5891	4.76E-02	0.3463	4.51E+04	7.6457	98.239	24.85	-0.703	-0.06	25.8624	0.00E+00
10/12/2019	9:49:15 AM	24.859	16.9565	35.308	1.2747	4.76E-02	0.6851	4.53E+04	7.3128	92.347	25.024	1.111	0.02	25.7442	0.00E+00
10/12/2019	9:49:32 AM	24.955	16.7975	35.3924	1.6982	4.76E-02	0.3277	4.51E+04	7.6465	98.227	25.031	-0.689	-0.05	25.8732	0.00E+00
10/12/2019	9:49:31 AM	25.122	16.7788	35.3983	1.6966	4.76E-02	0.3354	4.51E+04	7.6451	98.183	25.233	-0.677	0	25.8836	0.00E+00
10/12/2019	9:49:15 AM	25.129	16.9222	35.3111	1.2732	4.76E-02	0.6773	4.53E+04	7.1932	90.815	25.286	1.111	0	25.7551	0.00E+00
10/12/2019	9:49:31 AM	25.29	16.7566	35.4012	1.6997	4.76E-02	0.3261	4.51E+04	7.6456	98.16	25.443	-0.678	0.04	25.8918	0.00E+00
10/12/2019	9:49:15 AM	25.398	16.8883	35.3145	1.4067	4.76E-02	0.553	4.52E+04	7.0668	89.198	25.56	1.11	0	25.766	0.00E+00
10/12/2019	9:49:31 AM	25.459	16.7321	35.4024	1.7005	4.76E-02	0.3323	4.50E+04	7.6466	98.131	25.619	-0.687	0.05	25.8988	0.00E+00
10/12/2019	9:49:31 AM	25.626	16.7067	35.4057	1.628	4.76E-02	0.2857	4.50E+04	7.6533	98.164	25.78	-0.699	0.03	25.9076	0.00E+00
10/12/2019	9:49:15 AM	25.665	16.8546	35.3175	1.4075	4.76E-02	0.5546	4.52E+04	6.942	87.6	25.83	1.109	-0.01	25.7765	0.00E+00
10/12/2019	9:49:31 AM	25.793	16.6811	35.41	1.6303	4.76E-02	0.2779	4.50E+04	7.6655	98.254	25.927	-0.706	-0.03	25.9177	0.00E+00
10/12/2019	9:49:15 AM	25.932	16.8207	35.3197	1.409	4.76E-02	0.5577	4.52E+04	6.8169	86.007	26.09	1.101	-0.03	25.7863	0.00E+00
10/12/2019	9:49:30 AM	25.96	16.6542	35.4121	1.6287	4.76E-02	0.281	4.50E+04	7.6784	98.34	26.092	-0.699	-0.08	25.9261	0.00E+00
10/12/2019	9:49:30 AM	26.128	16.6256	35.4129	1.6265	4.76E-02	0.2764	4.49E+04	7.7007	98.583	26.258	-0.678	-0.1	25.9337	0.00E+00
10/12/2019	9:49:16 AM	26.197	16.7863	35.321	1.4113	4.76E-02	0.553	4.51E+04	6.7062	84.609	26.344	1.089	-0.05	25.7953	0.00E+00
10/12/2019	9:49:30 AM	26.297	16.5964	35.4142	1.6158	4.76E-02	0.3292	4.49E+04	7.7186	98.779	26.443	-0.652	-0.09	25.9417	0.00E+00
10/12/2019	9:49:16 AM	26.462	16.7512	35.3214	1.4067	4.76E-02	0.4737	4.51E+04	6.6122	83.43	26.626	1.079	-0.04	25.8036	0.00E+00
10/12/2019	9:49:29 AM	26.466	16.567	35.4154	1.615	4.76E-02	0.3292	4.49E+04	7.7341	98.954	26.624	-0.631	-0.08	25.9498	0.00E+00
10/12/2019	9:49:29 AM	26.634	16.5371	35.4159	1.6196	4.76E-02	0.3292	4.49E+04	7.7561	99.187	26.818	-0.612	-0.02	25.9573	0.00E+00
10/12/2019	9:49:16 AM	26.726	16.715	35.3207	1.5059	4.76E-02	0.3261	4.51E+04	6.5448	82.591	26.912	1.075	-0.01	25.8111	0.00E+00
10/12/2019	9:49:29 AM	26.8	16.5066	35.4144	1.615	4.76E-02	0.3292	4.48E+04	7.7842	99.498	26.98	-0.607	-0.01	25.963	0.00E+00
10/12/2019	9:49:29 AM	26.964	16.4761	35.4115	1.6234	4.76E-02	0.2484	4.48E+04	7.8107	99.783	27.157	-0.605	0.05	25.9672	0.00E+00
10/12/2019	9:49:17 AM	26.988	16.6775	35.3191	1.5051	4.76E-02	0.3323	4.50E+04	6.4914	81.928	27.171	1.074	0	25.8183	0.00E+00
10/12/2019	9:49:29 AM	27.126	16.4468	35.4089	1.6295	4.76E-02	0.25	4.48E+04	7.8277	99.987	27.319	-0.618	0.07	25.9713	0.00E+00
10/12/2019	9:49:17 AM	27.248	16.6375	35.3167	1.5059	4.76E-02	0.3277	4.50E+04	6.456	81.489	27.436	1.075	0.01	25.8249	0.00E+00
10/12/2019	9:49:28 AM	27.285	16.4192	35.4067	1.6265	4.76E-02	0.2562	4.47E+04	7.8335	100.049	27.47	-0.636	0.1	25.9753	0.00E+00
10/12/2019	9:49:28 AM	27.442	16.3932	35.4039	1.6265	4.76E-02	0.2546	4.47E+04	7.8194	99.859	27.6	-0.662	0.06	25.9784	0.00E+00
10/12/2019	9:49:17 AM	27.506	16.5943	35.3117	1.5044	4.76E-02	0.3308	4.49E+04	6.4358	81.237	27.696	1.073	-0.01	25.8299	0.00E+00
10/12/2019	9:49:28 AM	27.599	16.3687	35.4008	1.6303	4.76E-02	0.2562	4.47E+04	7.7958	99.543	27.747	-0.678	0.02	25.9808	0.00E+00
10/12/2019	9:49:27 AM	27.756	16.3462	35.3981	1.2251	4.76E-02	0.2826	4.47E+04	7.7535	98.99	27.905	-0.682	-0.06	25.983	0.00E+00
10/12/2019	9:49:17 AM	27.762	16.5482	35.3047	1.6059	4.76E-02	0.3028	4.49E+04	6.4335	81.209	27.958	1.07	-0.01	25.8339	0.00E+00
10/12/2019	9:49:27 AM	27.913	16.3257	35.396	1.2198	4.76E-02	0.281	4.47E+04	7.6941	98.212	28.055	-0.668	-0.12	25.9854	0.00E+00
10/12/2019	9:49:17 AM	28.015	16.5013	35.2987	1.6051	4.76E-02	0.3028	4.48E+04	6.4455	81.361	28.183	1.058	-0.05	25.8395	0.00E+00
10/12/2019	9:49:27 AM	28.072	16.3071	35.3938	1.2229	4.76E-02	0.2733	4.46E+04	7.6142	97.167	28.223	-0.638	-0.12	25.9873	0.00E+00
10/12/2019	9:49:27 AM	28.23	16.29	35.3903	1.2244	4.76E-02	0.2764	4.46E+04	7.5308	96.06	28.38	-0.607	-0.15	25.9877	0.00E+00
10/12/2019	9:49:18 AM	28.268	16.4563	35.2969	1.6036	4.76E-02	0.2981	4.48E+04	6.4599	81.545	28.424	1.04	-0.07	25.8489	0.00E+00
10/12/2019	9:49:26 AM	28.389	16.2744	35.3858	1.2229	4.76E-02	0.3277	4.46E+04	7.4441	94.904	28.564	-0.571	-0.11	25.9867	0.00E+00
10/12/2019	9:49:18 AM	28.521	16.4146	35.3002	1.602	4.76E-02	0.3043	4.48E+04	6.4805	81.806	28.694	1.024	-0.07	25.8624	0.00E+00
10/12/2019	9:49:26 AM	28.547	16.2611	35.381	1.2244	4.76E-02	0.3277	4.46E+04	7.3513	93.67	28.735	-0.544	-0.05	25.9848	0.00E+00
10/12/2019	9:49:26 AM	28.703	16.2506	35.3767	1.2251	4.76E-02	0.3261	4.46E+04	7.2688	92.57	28.93	-0.532	0.06	25.9827	0.00E+00

10/12/2019	9:49:18 AM	28.772	16.3759	35.3057	1.5799	4.76E-02	0.2779	4.47E+04	6.5035	82.093	28.968	1.017	-0.03	25.8772	0.00E+00
10/12/2019	9:49:26 AM	28.854	16.2428	35.3734	1.2244	4.76E-02	0.3308	4.46E+04	7.1801	91.405	29.094	-0.547	0.16	25.9808	0.00E+00
10/12/2019	9:49:26 AM	29.002	16.2376	35.3709	1.0993	4.76E-02	0.3821	4.46E+04	7.0989	90.324	29.241	-0.587	0.2	25.9794	0.00E+00
10/12/2019	9:49:19 AM	29.021	16.3402	35.3102	1.5776	4.76E-02	0.2733	4.47E+04	6.5291	82.413	29.253	1.026	0.04	25.8904	0.00E+00
10/12/2019	9:49:25 AM	29.145	16.2343	35.3693	1.1046	4.76E-02	0.3758	4.46E+04	7.0311	89.403	29.348	-0.637	0.18	25.9784	0.00E+00
10/12/2019	9:49:19 AM	29.265	16.3092	35.315	1.5792	4.76E-02	0.2764	4.46E+04	6.55	82.673	29.555	1.045	0.08	25.9031	0.00E+00
10/12/2019	9:49:25 AM	29.285	16.2325	35.3683	1.1008	4.76E-02	0.3821	4.46E+04	6.9618	88.47	29.462	-0.682	0.05	25.9777	0.00E+00
10/12/2019	9:49:25 AM	29.425	16.2315	35.3676	1.0993	4.76E-02	0.3805	4.46E+04	6.8989	87.628	29.601	-0.693	-0.12	25.9772	0.00E+00
10/12/2019	9:49:19 AM	29.502	16.284	35.3228	1.5799	4.76E-02	0.2795	4.46E+04	6.5732	82.964	29.871	1.079	0.13	25.9174	0.00E+00
10/12/2019	9:49:24 AM	29.563	16.2311	35.3671	1.1633	4.76E-02	0.4753	4.46E+04	6.842	86.842	29.726	-0.663	-0.28	25.9768	0.00E+00
10/12/2019	9:49:24 AM	29.702	16.231	35.3664	1.1664	4.76E-02	0.4784	4.46E+04	6.7927	86.172	29.869	-0.594	-0.37	25.9762	0.00E+00
10/12/2019	9:49:19 AM	29.725	16.2642	35.3328	1.3342	4.76E-02	0.3214	4.46E+04	6.5936	83.221	30.182	1.119	0.16	25.9323	0.00E+00
10/12/2019	9:49:24 AM	29.84	16.2311	35.3656	1.1626	4.76E-02	0.4784	4.46E+04	6.748	85.54	30.04	-0.5	-0.45	25.9754	0.00E+00
10/12/2019	9:49:19 AM	29.931	16.2484	35.342	1.3342	4.76E-02	0.3292	4.46E+04	6.6074	83.397	30.487	1.162	0.17	25.9452	0.00E+00
10/12/2019	9:49:24 AM	29.976	16.2314	35.3651	1.1603	4.76E-02	0.48	4.46E+04	6.7108	85.026	30.218	-0.388	-0.47	25.9748	0.00E+00
10/12/2019	9:49:24 AM	30.107	16.2321	35.3654	1.1603	4.76E-02	0.4737	4.46E+04	6.6847	84.646	30.432	-0.27	-0.4	25.9748	0.00E+00
10/12/2019	9:49:20 AM	30.111	16.2358	35.3489	1.3327	4.76E-02	0.3339	4.46E+04	6.6156	83.5	30.794	1.194	0.13	25.9551	0.00E+00
10/12/2019	9:49:23 AM	30.229	16.2331	35.3665	1.2129	4.76E-02	0.4287	4.46E+04	6.6564	84.252	30.622	-0.17	-0.31	25.9754	0.00E+00
10/12/2019	9:49:20 AM	30.261	16.2266	35.3544	1.3342	4.76E-02	0.3292	4.46E+04	6.619	83.541	30.982	1.182	-0.05	25.963	0.00E+00
10/12/2019	9:49:23 AM	30.336	16.2341	35.3677	1.2099	4.76E-02	0.4271	4.46E+04	6.6392	83.99	30.812	-0.093	-0.16	25.9764	0.00E+00
10/12/2019	9:49:20 AM	30.379	16.2213	35.3604	1.3327	4.76E-02	0.323	4.46E+04	6.6221	83.579	31.022	1.1	-0.33	25.9705	0.00E+00
10/12/2019	9:49:23 AM	30.425	16.2347	35.3689	1.2114	4.76E-02	0.4256	4.46E+04	6.6296	83.835	30.912	-0.053	-0.08	25.9774	0.00E+00
10/12/2019	9:49:20 AM	30.467	16.2197	35.3667	1.1733	4.76E-02	0.4318	4.46E+04	6.6207	83.562	31.024	0.955	-0.58	25.9775	0.00E+00
10/12/2019	9:49:22 AM	30.496	16.2349	35.3704	1.2106	4.76E-02	0.4287	4.46E+04	6.6217	83.706	30.941	-0.032	-0.08	25.9787	0.00E+00
10/12/2019	9:49:21 AM	30.531	16.221	35.3725	1.1756	4.76E-02	0.4318	4.46E+04	6.619	83.541	31.024	0.767	-0.75	25.9833	0.00E+00
10/12/2019	9:49:22 AM	30.549	16.2345	35.3721	1.1374	4.76E-02	0.452	4.46E+04	6.6133	83.572	30.978	-0.013	-0.09	25.9804	0.00E+00
10/12/2019	9:49:21 AM	30.575	16.2238	35.3767	1.1763	4.76E-02	0.4271	4.46E+04	6.6174	83.524	31.024	0.563	-0.82	25.9869	0.00E+00
10/12/2019	9:49:22 AM	30.585	16.2335	35.3742	1.1389	4.76E-02	0.4473	4.46E+04	6.6147	83.563	31.019	0.01	-0.24	25.9825	0.00E+00
10/12/2019	9:49:21 AM	30.601	16.227	35.3785	1.1748	4.76E-02	0.4225	4.46E+04	6.6143	83.491	31.024	0.365	-0.79	25.9879	0.00E+00
10/12/2019	9:49:22 AM	30.606	16.2319	35.3764	1.1397	4.76E-02	0.452	4.46E+04	6.6132	83.513	31.024	0.07	-0.5	25.9849	0.00E+00
10/12/2019	9:49:22 AM	30.611	16.2298	35.3781	1.1389	4.76E-02	0.4504	4.46E+04	6.6136	83.499	31.024	0.195	-0.68	25.987	0.00E+00

Appendix C. WQM Results

DateNZST	TimeNZST	temperature (°C)	salinity (PSU)	chlorophyll (µg/L)	turbidity (NTU)	TSS (derived)	conductivity (s/m)	oxygen (mg/L)
5/20/2019	10:30:00	18.15	35.66	1.182	0.27	0.907794	4.68306	7.39
5/20/2019	11:00:00	18.16	35.66	1.185	0.27	0.907794	4.68338	7.37
5/20/2019	11:30:00	18.17	35.66	1.304	0.26	0.874172	4.68444	7.39
5/20/2019	12:00:00	18.17	35.65	1.385	0.26	0.874172	4.68396	7.38
5/20/2019	12:30:00	18.17	35.66	1.404	0.27	0.907794	4.68451	7.38
5/20/2019	12:45:00	18.17	35.65	1.39	0.27	0.907794	4.68426	7.39
5/20/2019	13:00:00	18.16	35.65	1.441	0.14	0.470708	4.68394	7.38
5/20/2019	13:30:00	18.17	35.66	1.41	0.27	0.907794	4.68405	7.41
5/20/2019	14:00:00	18.16	35.65	1.52	0.27	0.907794	4.68388	7.42
5/20/2019	14:30:00	18.16	35.66	1.516	0.27	0.907794	4.68335	7.42
5/20/2019	15:00:00	18.16	35.66	1.59	0.28	0.941416	4.68329	7.45
5/20/2019	15:30:00	18.16	35.66	1.633	0.28	0.941416	4.68333	7.47
5/20/2019	16:00:00	18.15	35.66	1.673	0.3	1.00866	4.6828	7.47
5/20/2019	16:30:00	18.14	35.66	1.835	0.29	0.975038	4.68192	7.47
5/20/2019	17:00:00	18.14	35.66	1.75	0.3	1.00866	4.68131	7.46
5/20/2019	17:30:00	18.12	35.66	1.819	0.29	0.975038	4.68004	7.49
5/20/2019	18:00:00	18.11	35.66	1.866	0.32	1.075904	4.67861	7.52
5/20/2019	18:30:00	18.1	35.66	1.939	0.33	1.109526	4.67795	7.52
5/20/2019	19:00:00	18.1	35.66	2.048	0.3	1.00866	4.67842	7.54
5/20/2019	19:30:00	18.1	35.66	2.098	0.3	1.00866	4.67758	7.51
5/20/2019	20:00:00	18.1	35.66	2.011	0.31	1.042282	4.67728	7.53
5/20/2019	20:30:00	18.1	35.66	2.01	0.3	1.00866	4.67744	7.53
5/20/2019	21:00:00	18.09	35.66	1.892	0.32	1.075904	4.67662	7.53
5/20/2019	21:30:00	18.09	35.66	1.732	0.31	1.042282	4.6771	7.51
5/20/2019	22:00:00	18.1	35.66	1.706	0.29	0.975038	4.67716	7.48
5/20/2019	22:30:00	18.09	35.65	1.733	0.3	1.00866	4.67645	7.44
5/20/2019	23:00:00	18.09	35.65	1.617	0.29	0.975038	4.67592	7.42
5/20/2019	23:30:00	18.09	35.65	1.654	0.28	0.941416	4.67615	7.42
5/21/2019	0:15:00	18.09	35.65	1.607	0.28	0.941416	4.67577	7.4
5/21/2019	0:45:00	18.09	35.65	1.638	0.29	0.975038	4.6752	7.39
5/21/2019	1:15:00	18.09	35.65	1.727	0.29	0.975038	4.67605	7.42
5/21/2019	1:45:00	18.08	35.65	1.677	0.29	0.975038	4.67524	7.4

5/21/2019	2:15:00	18.08	35.65	1.648	0.3	1.00866	4.67456	7.39
5/21/2019	2:45:00	18.07	35.65	1.588	0.28	0.941416	4.67392	7.39
5/21/2019	3:15:00	18.07	35.65	1.521	0.28	0.941416	4.67417	7.39
5/21/2019	3:45:00	18.07	35.65	1.512	0.28	0.941416	4.67353	7.38
5/21/2019	4:15:00	18.06	35.65	1.449	0.28	0.941416	4.67253	7.38
5/21/2019	4:45:00	18.06	35.65	1.435	0.28	0.941416	4.6728	7.38
5/21/2019	5:15:00	18.06	35.65	1.5	0.29	0.975038	4.6735	7.42
5/21/2019	5:45:00	18.06	35.66	1.493	0.29	0.975038	4.67302	7.43
5/21/2019	6:15:00	18.05	35.66	1.49	0.28	0.941416	4.67228	7.45
5/21/2019	6:45:00	18.04	35.66	1.487	0.28	0.941416	4.67169	7.45
5/21/2019	7:15:00	18.04	35.66	1.504	0.31	1.042282	4.6716	7.46
5/21/2019	7:45:00	18.04	35.66	1.485	0.3	1.00866	4.67176	7.47
5/21/2019	8:15:00	18.04	35.66	1.433	0.29	0.975038	4.67105	7.46
5/21/2019	8:45:00	18.03	35.66	1.386	0.28	0.941416	4.67057	7.45
5/21/2019	9:15:00	18.03	35.66	1.326	0.29	0.975038	4.67071	7.45
5/21/2019	9:45:00	18.04	35.65	1.25	0.3	1.00866	4.67077	7.44
5/21/2019	10:00:00	18.03	35.65	1.328	0.29	0.975038	4.67026	7.45
5/21/2019	10:30:00	18.03	35.65	1.293	0.28	0.941416	4.67034	7.43
5/21/2019	11:00:00	18.04	35.65	1.303	0.29	0.975038	4.67043	7.42
5/21/2019	11:30:00	18.04	35.65	1.356	0.29	0.975038	4.67033	7.41
5/21/2019	12:00:00	18.04	35.65	1.306	0.28	0.941416	4.67036	7.39
5/21/2019	12:30:00	18.04	35.65	1.326	0.29	0.975038	4.67031	7.4
5/21/2019	12:45:00	18.03	35.65	1.377	0.3	1.00866	4.66964	7.38
5/21/2019	13:00:00	18.03	35.65	1.37	0.31	1.042282	4.66955	7.38
5/21/2019	13:30:00	18.03	35.65	1.528	0.29	0.975038	4.66951	7.38
5/21/2019	14:00:00	18.03	35.64	1.456	0.3	1.00866	4.66873	7.36
5/21/2019	14:30:00	18.03	35.64	1.429	0.31	1.042282	4.66841	7.36
5/21/2019	15:00:00	18.03	35.64	1.506	0.3	1.00866	4.66848	7.36
5/21/2019	15:30:00	18.03	35.64	1.529	0.3	1.00866	4.6685	7.35
5/21/2019	16:00:00	18.03	35.64	1.581	0.32	1.075904	4.66917	7.37
5/21/2019	16:30:00	18.03	35.65	1.601	0.31	1.042282	4.66954	7.37
5/21/2019	17:00:00	18.03	35.64	1.623	0.32	1.075904	4.66883	7.36
5/21/2019	17:30:00	18.03	35.64	1.605	0.29	0.975038	4.66882	7.37
5/21/2019	18:00:00	18.03	35.64	1.649	0.31	1.042282	4.66848	7.35

5/21/2019	18:30:00	18	35.63	1.694	0.3	1.00866	4.66475	7.34
5/21/2019	19:00:00	18.01	35.64	1.693	0.3	1.00866	4.66622	7.36
5/21/2019	19:30:00	18.01	35.64	1.723	0.33	1.109526	4.66698	7.39
5/21/2019	20:00:00	18.01	35.64	1.646	0.31	1.042282	4.6666	7.38
5/21/2019	20:30:00	18.01	35.64	1.529	0.31	1.042282	4.66636	7.36
5/21/2019	21:00:00	17.99	35.64	1.625	0.3	1.00866	4.6642	7.41
5/21/2019	21:30:00	17.99	35.64	1.623	0.29	0.975038	4.66436	7.41
5/21/2019	22:00:00	17.99	35.64	1.625	0.29	0.975038	4.66396	7.41
5/21/2019	22:30:00	17.98	35.63	1.603	0.28	0.941416	4.66282	7.39
5/21/2019	23:00:00	17.98	35.63	1.548	0.28	0.941416	4.66321	7.37
5/21/2019	23:30:00	17.99	35.64	1.483	0.32	1.075904	4.66385	7.36
5/22/2019	0:15:00	17.98	35.63	1.43	0.32	1.075904	4.66283	7.32
5/22/2019	0:45:00	17.97	35.63	1.426	0.29	0.975038	4.66155	7.3
5/22/2019	1:15:00	17.98	35.63	1.402	0.32	1.075904	4.6624	7.3
5/22/2019	1:45:00	17.97	35.63	1.428	0.32	1.075904	4.66124	7.28
5/22/2019	2:15:00	17.97	35.63	1.467	0.31	1.042282	4.66071	7.27
5/22/2019	2:45:00	17.96	35.63	1.494	0.3	1.00866	4.65958	7.27
5/22/2019	3:15:00	17.96	35.63	1.483	0.29	0.975038	4.65951	7.27
5/22/2019	3:45:00	17.95	35.63	1.449	0.28	0.941416	4.65905	7.27
5/22/2019	4:15:00	17.96	35.63	1.425	0.29	0.975038	4.6595	7.28
5/22/2019	4:45:00	17.96	35.63	1.341	0.29	0.975038	4.65981	7.28
5/22/2019	5:15:00	17.95	35.63	1.337	0.28	0.941416	4.65911	7.29
5/22/2019	5:45:00	17.96	35.63	1.304	0.29	0.975038	4.65993	7.29
5/22/2019	6:15:00	17.96	35.63	1.34	0.27	0.907794	4.65987	7.3
5/22/2019	6:45:00	17.95	35.63	1.285	0.26	0.874172	4.65958	7.33
5/22/2019	7:15:00	17.95	35.63	1.331	0.27	0.907794	4.66003	7.34
5/22/2019	7:45:00	17.95	35.64	1.354	0.26	0.874172	4.66047	7.35
5/22/2019	8:15:00	17.96	35.64	1.252	0.27	0.907794	4.66102	7.36
5/22/2019	8:45:00	17.96	35.64	1.192	0.27	0.907794	4.66136	7.38
5/22/2019	9:15:00	17.96	35.64	1.208	0.28	0.941416	4.66051	7.38
5/22/2019	9:45:00	17.96	35.64	1.158	0.27	0.907794	4.66078	7.37
5/22/2019	10:00:00	17.96	35.64	1.183	0.27	0.907794	4.66069	7.37
5/22/2019	10:30:00	17.96	35.64	1.139	0.28	0.941416	4.6606	7.37
5/22/2019	11:00:00	17.96	35.63	1.217	0.27	0.907794	4.66002	7.35

5/22/2019	11:30:00	17.96	35.63	1.227	0.29	0.975038	4.66014	7.35
5/22/2019	12:00:00	17.96	35.63	1.314	0.27	0.907794	4.66016	7.35
5/22/2019	12:30:00	17.95	35.63	1.249	0.27	0.907794	4.65955	7.34
5/22/2019	12:45:00	17.95	35.63	1.266	0.28	0.941416	4.65917	7.32
5/22/2019	13:00:00	17.95	35.63	1.228	0.29	0.975038	4.65883	7.31
5/22/2019	13:30:00	17.95	35.63	1.349	0.28	0.941416	4.65857	7.32
5/22/2019	14:00:00	17.94	35.63	1.419	0.3	1.00866	4.65807	7.3
5/22/2019	14:30:00	17.94	35.63	1.432	0.3	1.00866	4.65811	7.3
5/22/2019	15:00:00	17.94	35.63	1.584	0.29	0.975038	4.65813	7.32
5/22/2019	15:30:00	17.94	35.63	1.551	0.3	1.00866	4.65817	7.32
5/22/2019	16:00:00	17.95	35.63	1.601	0.31	1.042282	4.6584	7.34
5/22/2019	16:30:00	17.94	35.63	1.615	0.3	1.00866	4.65828	7.33
5/22/2019	17:00:00	17.94	35.63	1.633	0.3	1.00866	4.6582	7.32
5/22/2019	17:30:00	17.95	35.64	1.627	0.32	1.075904	4.66085	7.43
5/22/2019	18:00:00	17.96	35.65	1.702	0.33	1.109526	4.66237	7.47
5/22/2019	18:30:00	17.96	35.65	1.65	0.32	1.075904	4.66212	7.45
5/22/2019	19:00:00	17.96	35.64	1.623	0.3	1.00866	4.66053	7.38
5/22/2019	19:30:00	17.95	35.63	1.668	0.29	0.975038	4.65995	7.4
5/22/2019	20:00:00	17.96	35.63	1.688	0.29	0.975038	4.66038	7.39
5/22/2019	20:30:00	17.95	35.63	1.628	0.3	1.00866	4.66021	7.38
5/22/2019	21:00:00	17.95	35.63	1.713	0.3	1.00866	4.65943	7.41
5/22/2019	21:30:00	17.94	35.63	1.674	0.28	0.941416	4.65866	7.41
5/22/2019	22:00:00	17.94	35.63	1.613	0.28	0.941416	4.6585	7.39
5/22/2019	22:30:00	17.94	35.63	1.606	0.29	0.975038	4.65846	7.39
5/22/2019	23:00:00	17.94	35.63	1.59	0.29	0.975038	4.65858	7.39
5/22/2019	23:30:00	17.94	35.63	1.563	0.29	0.975038	4.65849	7.38
5/23/2019	0:15:00	17.94	35.63	1.595	0.3	1.00866	4.6582	7.4
5/23/2019	0:45:00	17.93	35.63	1.644	0.29	0.975038	4.65781	7.4
5/23/2019	1:15:00	17.93	35.63	1.626	0.28	0.941416	4.65788	7.41
5/23/2019	1:45:00	17.94	35.64	1.633	0.31	1.042282	4.65938	7.43
5/23/2019	2:15:00	17.93	35.64	1.659	0.3	1.00866	4.65795	7.43
5/23/2019	2:45:00	17.93	35.64	1.693	0.31	1.042282	4.658	7.43
5/23/2019	3:15:00	17.93	35.64	1.709	0.3	1.00866	4.65792	7.44
5/23/2019	3:45:00	17.92	35.64	1.692	0.3	1.00866	4.6565	7.43

5/23/2019	4:15:00	17.92	35.64	1.654	0.29	0.975038	4.65701	7.42
5/23/2019	4:45:00	17.92	35.64	1.591	0.32	1.075904	4.65743	7.44
5/23/2019	5:15:00	17.92	35.64	1.533	0.32	1.075904	4.65757	7.44
5/23/2019	5:45:00	17.92	35.64	1.489	0.31	1.042282	4.65677	7.42
5/23/2019	6:15:00	17.91	35.64	1.45	0.3	1.00866	4.6562	7.41
5/23/2019	6:45:00	17.91	35.64	1.437	0.31	1.042282	4.6561	7.4
5/23/2019	7:15:00	17.91	35.64	1.474	0.3	1.00866	4.65541	7.4
5/23/2019	7:45:00	17.9	35.64	1.387	0.29	0.975038	4.65518	7.4
5/23/2019	8:15:00	17.9	35.64	1.334	0.32	1.075904	4.65513	7.39
5/23/2019	8:45:00	17.89	35.64	1.28	0.29	0.975038	4.65377	7.4
5/23/2019	9:15:00	17.89	35.64	1.28	0.29	0.975038	4.6541	7.41
5/23/2019	9:45:00	17.89	35.64	1.281	0.29	0.975038	4.65402	7.42
5/23/2019	10:00:00	17.89	35.64	1.264	0.3	1.00866	4.65408	7.42
5/23/2019	10:30:00	17.9	35.64	1.263	0.29	0.975038	4.65444	7.43
5/23/2019	11:00:00	17.9	35.64	1.324	0.29	0.975038	4.65472	7.44
5/23/2019	11:30:00	17.89	35.64	1.294	0.3	1.00866	4.65399	7.42
5/23/2019	12:00:00	17.9	35.64	1.284	0.29	0.975038	4.65474	7.43
5/23/2019	12:30:00	17.9	35.64	1.44	0.32	1.075904	4.6547	7.45
5/23/2019	12:45:00	17.9	35.64	1.423	0.31	1.042282	4.65467	7.45
5/23/2019	13:00:00	17.9	35.64	1.398	0.3	1.00866	4.65439	7.45
5/23/2019	13:30:00	17.89	35.64	1.467	0.3	1.00866	4.65437	7.46
5/23/2019	14:00:00	17.9	35.64	1.54	0.31	1.042282	4.6547	7.48
5/23/2019	14:30:00	17.9	35.64	1.612	0.32	1.075904	4.65474	7.49
5/23/2019	15:00:00	17.9	35.64	1.696	0.31	1.042282	4.65499	7.52
5/23/2019	15:30:00	17.9	35.64	1.727	0.32	1.075904	4.6548	7.51
5/23/2019	16:00:00	17.9	35.64	1.762	0.32	1.075904	4.65465	7.53
5/23/2019	16:30:00	17.9	35.64	1.784	0.33	1.109526	4.6549	7.53
5/23/2019	17:00:00	17.9	35.64	1.897	0.32	1.075904	4.65505	7.53
5/23/2019	17:30:00	17.88	35.64	1.886	0.32	1.075904	4.65275	7.49
5/23/2019	18:00:00	17.88	35.64	1.901	0.32	1.075904	4.65249	7.5
5/23/2019	18:30:00	17.88	35.64	1.878	0.31	1.042282	4.65239	7.5
5/23/2019	19:00:00	17.88	35.64	1.844	0.32	1.075904	4.65223	7.48
5/23/2019	19:30:00	17.88	35.64	1.864	0.32	1.075904	4.65291	7.49
5/23/2019	20:00:00	17.89	35.64	1.867	0.32	1.075904	4.65391	7.49

5/23/2019	20:30:00	17.89	35.64	1.899	0.31	1.042282	4.65382	7.48
5/23/2019	21:00:00	17.9	35.64	1.88	0.31	1.042282	4.65526	7.47
5/23/2019	21:30:00	17.91	35.64	1.838	0.31	1.042282	4.65603	7.46
5/23/2019	22:00:00	17.88	35.64	1.965	0.32	1.075904	4.65302	7.46
5/23/2019	22:30:00	17.88	35.64	1.923	0.32	1.075904	4.65268	7.47
5/23/2019	23:00:00	17.9	35.64	1.834	0.31	1.042282	4.65521	7.46
5/23/2019	23:30:00	17.9	35.64	1.786	0.32	1.075904	4.65427	7.48
5/24/2019	0:15:00	17.9	35.64	1.741	0.31	1.042282	4.65501	7.47
5/24/2019	0:45:00	17.91	35.64	1.695	0.31	1.042282	4.65538	7.47
5/24/2019	1:15:00	17.9	35.64	1.617	0.3	1.00866	4.65525	7.48
5/24/2019	1:45:00	17.91	35.64	1.532	0.29	0.975038	4.65554	7.47
5/24/2019	2:15:00	17.9	35.64	1.528	0.3	1.00866	4.65528	7.47
5/24/2019	2:45:00	17.9	35.64	1.529	0.29	0.975038	4.65501	7.48
5/24/2019	3:15:00	17.9	35.64	1.588	0.3	1.00866	4.65489	7.48
5/24/2019	3:45:00	17.9	35.64	1.615	0.3	1.00866	4.65482	7.49
5/24/2019	4:15:00	17.9	35.64	1.581	0.29	0.975038	4.65454	7.48
5/24/2019	4:45:00	17.88	35.64	1.561	0.29	0.975038	4.65335	7.48
5/24/2019	5:15:00	17.89	35.64	1.56	0.29	0.975038	4.65352	7.48
5/24/2019	5:45:00	17.88	35.64	1.489	0.31	1.042282	4.65343	7.49
5/24/2019	6:15:00	17.88	35.64	1.431	0.29	0.975038	4.65263	7.47
5/24/2019	6:45:00	17.88	35.64	1.425	0.29	0.975038	4.65277	7.47
5/24/2019	7:15:00	17.87	35.64	1.454	0.29	0.975038	4.65251	7.48
5/24/2019	7:45:00	17.87	35.64	1.322	0.28	0.941416	4.65207	7.45
5/24/2019	8:15:00	17.87	35.64	1.291	0.28	0.941416	4.65176	7.46
5/24/2019	8:45:00	17.86	35.64	1.28	0.29	0.975038	4.65122	7.47
5/24/2019	9:15:00	17.86	35.64	1.199	0.29	0.975038	4.65091	7.47
5/24/2019	9:45:00	17.86	35.64	1.22	0.3	1.00866	4.65104	7.47
5/24/2019	10:00:00	17.86	35.64	1.224	0.29	0.975038	4.65109	7.48
5/24/2019	10:30:00	17.86	35.64	1.232	0.3	1.00866	4.65096	7.5
5/24/2019	11:00:00	17.86	35.64	1.294	0.3	1.00866	4.65103	7.5
5/24/2019	11:30:00	17.86	35.64	1.332	0.3	1.00866	4.65104	7.51
5/24/2019	12:00:00	17.86	35.64	1.396	0.29	0.975038	4.65121	7.51
5/24/2019	12:30:00	17.86	35.64	1.464	0.3	1.00866	4.65128	7.52
5/24/2019	12:45:00	17.86	35.64	1.513	0.3	1.00866	4.65143	7.53

5/24/2019	13:00:00	17.86	35.64	1.512	0.3	1.00866	4.65121	7.54
5/24/2019	13:30:00	17.86	35.64	1.383	0.31	1.042282	4.65081	7.53
5/24/2019	14:00:00	17.8	35.65	1.439	0.35	1.17677	4.64653	7.67
5/24/2019	14:30:00	17.83	35.65	1.604	0.34	1.143148	4.6492	7.66
5/24/2019	15:00:00	17.84	35.65	1.652	0.33	1.109526	4.65002	7.67
5/24/2019	15:30:00	17.85	35.64	1.707	0.34	1.143148	4.65103	7.68
5/24/2019	16:00:00	17.84	35.65	1.723	0.35	1.17677	4.65009	7.7
5/24/2019	16:30:00	17.83	35.65	1.741	0.36	1.210392	4.64906	7.75
5/24/2019	17:00:00	17.86	35.65	1.716	0.34	1.143148	4.65181	7.75
5/24/2019	17:30:00	17.87	35.65	1.753	0.34	1.143148	4.65296	7.75
5/24/2019	18:00:00	17.88	35.65	1.841	0.35	1.17677	4.65361	7.74
5/24/2019	18:30:00	17.88	35.65	1.775	0.34	1.143148	4.65385	7.73
5/24/2019	19:00:00	17.9	35.65	1.71	0.32	1.075904	4.65562	7.7
5/24/2019	19:30:00	17.9	35.64	1.641	0.32	1.075904	4.65578	7.68
5/24/2019	20:00:00	17.91	35.64	1.577	0.31	1.042282	4.65703	7.66
5/24/2019	20:30:00	17.92	35.64	1.549	0.3	1.00866	4.65726	7.65
5/24/2019	21:00:00	17.92	35.64	1.482	0.3	1.00866	4.65786	7.62
5/24/2019	21:30:00	17.92	35.64	1.503	0.31	1.042282	4.6576	7.62
5/24/2019	22:00:00	17.91	35.64	1.477	0.3	1.00866	4.65683	7.63
5/24/2019	22:30:00	17.91	35.64	1.496	0.3	1.00866	4.65691	7.62
5/24/2019	23:00:00	17.91	35.64	1.464	0.31	1.042282	4.65677	7.63
5/24/2019	23:30:00	17.91	35.64	1.437	0.31	1.042282	4.65688	7.62
5/25/2019	0:15:00	17.9	35.64	1.273	0.29	0.975038	4.6554	7.58
5/25/2019	0:45:00	17.9	35.64	1.256	0.3	1.00866	4.65584	7.61
5/25/2019	1:15:00	17.9	35.64	1.279	0.31	1.042282	4.65558	7.61
5/25/2019	1:45:00	17.89	35.64	1.298	0.31	1.042282	4.65474	7.63
5/25/2019	2:15:00	17.9	35.65	1.355	0.33	1.109526	4.65594	7.65
5/25/2019	2:45:00	17.91	35.65	1.452	0.33	1.109526	4.65754	7.67
5/25/2019	3:15:00	17.94	35.67	1.735	0.34	1.143148	4.66275	7.66
5/25/2019	3:45:00	17.92	35.67	1.792	0.31	1.042282	4.66034	7.65
5/25/2019	4:15:00	17.9	35.67	1.802	0.31	1.042282	4.65799	7.61
5/25/2019	4:45:00	17.89	35.66	1.69	0.31	1.042282	4.65721	7.57
5/25/2019	5:15:00	17.9	35.66	1.594	0.3	1.00866	4.65773	7.55
5/25/2019	5:45:00	17.9	35.66	1.519	0.29	0.975038	4.6575	7.52

5/25/2019	6:15:00	17.9	35.66	1.468	0.29	0.975038	4.65727	7.51
5/25/2019	6:45:00	17.9	35.66	1.426	0.29	0.975038	4.65758	7.5
5/25/2019	7:15:00	17.89	35.66	1.42	0.29	0.975038	4.65619	7.48
5/25/2019	7:45:00	17.9	35.66	1.328	0.29	0.975038	4.657	7.48
5/25/2019	8:15:00	17.9	35.66	1.235	0.28	0.941416	4.65724	7.48
5/25/2019	8:45:00	17.89	35.66	1.212	0.29	0.975038	4.65685	7.48
5/25/2019	9:15:00	17.89	35.66	1.183	0.29	0.975038	4.65653	7.47
5/25/2019	9:45:00	17.9	35.66	1.163	0.29	0.975038	4.65736	7.49
5/25/2019	10:00:00	17.9	35.66	1.147	0.29	0.975038	4.65729	7.48
5/25/2019	10:30:00	17.9	35.66	1.206	0.29	0.975038	4.65789	7.51
5/25/2019	11:00:00	17.91	35.66	1.256	0.29	0.975038	4.65847	7.51
5/25/2019	11:30:00	17.91	35.66	1.247	0.29	0.975038	4.65861	7.51
5/25/2019	12:00:00	17.91	35.66	1.227	0.29	0.975038	4.65877	7.49
5/25/2019	12:30:00	17.92	35.66	1.278	0.3	1.00866	4.65883	7.49
5/25/2019	12:45:00	17.92	35.66	1.281	0.29	0.975038	4.65912	7.49
5/25/2019	13:00:00	17.92	35.66	1.313	0.29	0.975038	4.65951	7.49
5/25/2019	13:30:00	17.92	35.66	1.32	0.29	0.975038	4.65955	7.49
5/25/2019	14:00:00	17.92	35.66	1.329	0.3	1.00866	4.65938	7.49
5/25/2019	14:30:00	17.92	35.65	1.41	0.29	0.975038	4.65842	7.48
5/25/2019	15:00:00	17.92	35.65	1.489	0.3	1.00866	4.65853	7.49
5/25/2019	15:30:00	17.92	35.65	1.524	0.29	0.975038	4.65896	7.5
5/25/2019	16:00:00	17.93	35.65	1.537	0.29	0.975038	4.65937	7.51
5/25/2019	16:30:00	17.93	35.65	1.62	0.29	0.975038	4.65972	7.52
5/25/2019	17:00:00	17.9	35.65	1.71	0.32	1.075904	4.65654	7.56
5/25/2019	17:30:00	17.9	35.65	1.859	0.33	1.109526	4.65666	7.58
5/25/2019	18:00:00	17.9	35.66	1.919	0.35	1.17677	4.6576	7.65
5/25/2019	18:30:00	17.91	35.67	1.938	0.35	1.17677	4.65899	7.69
5/25/2019	19:00:00	17.86	35.66	2.117	0.38	1.277636	4.65399	7.71
5/25/2019	19:30:00	17.89	35.67	2.022	0.37	1.244014	4.65751	7.71
5/25/2019	20:00:00	17.89	35.67	1.972	0.37	1.244014	4.65728	7.73
5/25/2019	20:30:00	17.9	35.67	1.898	0.36	1.210392	4.65842	7.74
5/25/2019	21:00:00	17.91	35.67	1.877	0.34	1.143148	4.65937	7.75
5/25/2019	21:30:00	17.91	35.67	1.842	0.33	1.109526	4.65928	7.73
5/25/2019	22:00:00	17.91	35.67	1.744	0.34	1.143148	4.65969	7.68

5/25/2019	22:30:00	17.91	35.67	1.696	0.34	1.143148	4.65968	7.69
5/25/2019	23:00:00	17.91	35.67	1.599	0.33	1.109526	4.65989	7.65
5/25/2019	23:30:00	17.92	35.67	1.554	0.33	1.109526	4.66007	7.61
5/26/2019	0:15:00	17.93	35.66	1.478	0.32	1.075904	4.66126	7.53
5/26/2019	0:45:00	17.94	35.66	1.434	0.32	1.075904	4.66153	7.53
5/26/2019	1:15:00	17.92	35.66	1.524	0.33	1.109526	4.66041	7.57
5/26/2019	1:45:00	17.94	35.66	1.384	0.31	1.042282	4.66148	7.54
5/26/2019	2:15:00	17.93	35.66	1.513	0.3	1.00866	4.66052	7.63
5/26/2019	2:45:00	17.93	35.66	1.352	0.31	1.042282	4.66104	7.58
5/26/2019	3:15:00	17.93	35.66	1.527	0.31	1.042282	4.66073	7.59
5/26/2019	3:45:00	17.91	35.66	1.417	0.33	1.109526	4.65864	7.62
5/26/2019	4:15:00	17.91	35.66	1.376	0.31	1.042282	4.65908	7.6
5/26/2019	4:45:00	17.91	35.66	1.359	0.32	1.075904	4.65901	7.58
5/26/2019	5:15:00	17.9	35.66	1.361	0.34	1.143148	4.65747	7.58
5/26/2019	5:45:00	17.91	35.66	1.358	0.31	1.042282	4.65916	7.55
5/26/2019	6:15:00	17.91	35.66	1.32	0.32	1.075904	4.65909	7.55
5/26/2019	6:45:00	17.91	35.66	1.295	0.33	1.109526	4.65887	7.55
5/26/2019	7:15:00	17.89	35.66	1.264	0.33	1.109526	4.65645	7.6
5/26/2019	7:45:00	17.89	35.66	1.179	0.33	1.109526	4.65681	7.59
5/26/2019	8:15:00	17.89	35.66	1.116	0.32	1.075904	4.65729	7.59
5/26/2019	8:45:00	17.89	35.66	1.113	0.33	1.109526	4.6571	7.62
5/26/2019	9:15:00	17.9	35.66	1.056	0.33	1.109526	4.65764	7.6
5/26/2019	9:45:00	17.92	35.66	1.051	0.31	1.042282	4.65957	7.57
5/26/2019	10:00:00	17.92	35.66	1.05	0.29	0.975038	4.65945	7.57
5/26/2019	10:30:00	17.92	35.66	1.117	0.3	1.00866	4.66001	7.59
5/26/2019	11:00:00	17.91	35.66	1.095	0.31	1.042282	4.65942	7.61
5/26/2019	11:30:00	17.94	35.67	0.99	0.3	1.00866	4.6624	7.67
5/26/2019	12:00:00	17.94	35.66	1.034	0.3	1.00866	4.66184	7.66
5/26/2019	12:30:00	17.94	35.66	1.048	0.29	0.975038	4.66159	7.66
5/26/2019	12:45:00	17.94	35.66	1.018	0.3	1.00866	4.66181	7.67
5/26/2019	13:00:00	17.94	35.66	0.989	0.28	0.941416	4.66154	7.65
5/26/2019	13:30:00	17.95	35.66	1.055	0.3	1.00866	4.66257	7.66
5/26/2019	14:00:00	17.97	35.67	0.996	0.32	1.075904	4.66486	7.67
5/26/2019	14:30:00	17.98	35.67	1.029	0.34	1.143148	4.66646	7.63

5/26/2019	15:00:00	17.97	35.67	1.082	0.33	1.109526	4.66592	7.61
5/26/2019	15:30:00	17.97	35.67	1.162	0.33	1.109526	4.66635	7.61
5/26/2019	16:00:00	17.98	35.67	1.215	0.32	1.075904	4.66624	7.6
5/26/2019	16:30:00	17.98	35.67	1.213	0.32	1.075904	4.66707	7.59
5/26/2019	17:00:00	17.99	35.67	1.282	0.32	1.075904	4.66789	7.58
5/26/2019	17:30:00	18	35.67	1.337	0.31	1.042282	4.66878	7.6
5/26/2019	18:00:00	18.01	35.66	1.373	0.3	1.00866	4.66913	7.64
5/26/2019	18:30:00	18.01	35.66	1.395	0.29	0.975038	4.66913	7.6
5/26/2019	19:00:00	18.01	35.66	1.412	0.29	0.975038	4.66928	7.56
5/26/2019	19:30:00	18.01	35.66	1.445	0.28	0.941416	4.66937	7.56
5/26/2019	20:00:00	18.01	35.66	1.428	0.29	0.975038	4.66933	7.53
5/26/2019	20:30:00	18.01	35.66	1.395	0.3	1.00866	4.66947	7.52
5/26/2019	21:00:00	18.01	35.66	1.441	0.29	0.975038	4.66926	7.52
5/26/2019	21:30:00	18.01	35.66	1.439	0.3	1.00866	4.66945	7.51
5/26/2019	22:00:00	18.01	35.66	1.413	0.32	1.075904	4.66943	7.51
5/26/2019	22:30:00	18.01	35.66	1.411	0.3	1.00866	4.66937	7.5
5/26/2019	23:00:00	18.01	35.66	1.385	0.29	0.975038	4.66924	7.49
5/26/2019	23:30:00	18.01	35.66	1.391	0.29	0.975038	4.66948	7.48
5/27/2019	0:15:00	18.02	35.66	1.348	0.29	0.975038	4.66966	7.49
5/27/2019	0:45:00	18.02	35.66	1.304	0.29	0.975038	4.66993	7.48
5/27/2019	1:15:00	18.02	35.66	1.321	0.3	1.00866	4.6702	7.48
5/27/2019	1:45:00	18.02	35.66	1.3	0.29	0.975038	4.67022	7.48
5/27/2019	2:15:00	18.02	35.66	1.25	0.29	0.975038	4.67011	7.48
5/27/2019	2:45:00	18.03	35.66	1.237	0.29	0.975038	4.67108	7.51
5/27/2019	3:15:00	18.02	35.67	1.206	0.29	0.975038	4.67099	7.49
5/27/2019	3:45:00	18.02	35.67	1.203	0.28	0.941416	4.67049	7.52
5/27/2019	4:15:00	18.03	35.67	1.177	0.27	0.907794	4.67108	7.51
5/27/2019	4:45:00	18.03	35.66	1.185	0.27	0.907794	4.67179	7.5
5/27/2019	5:15:00	18.04	35.66	1.173	0.27	0.907794	4.6724	7.5
5/27/2019	5:45:00	18.05	35.66	1.177	0.27	0.907794	4.67297	7.5
5/27/2019	6:15:00	18.05	35.66	1.132	0.26	0.874172	4.67356	7.5
5/27/2019	6:45:00	18.06	35.66	1.132	0.25	0.84055	4.67417	7.49
5/27/2019	7:15:00	18.06	35.66	1.141	0.25	0.84055	4.67402	7.49
5/27/2019	7:45:00	18.06	35.66	1.068	0.24	0.806928	4.67456	7.49

5/27/2019	8:15:00	18.06	35.66	0.995	0.24	0.806928	4.67472	7.49
5/27/2019	8:45:00	18.06	35.66	0.955	0.25	0.84055	4.67455	7.49
5/27/2019	9:15:00	18.06	35.66	0.937	0.25	0.84055	4.67446	7.49
5/27/2019	9:45:00	18.06	35.66	0.938	0.25	0.84055	4.67423	7.5
5/27/2019	10:00:00	18.06	35.66	0.953	0.25	0.84055	4.67439	7.5
5/27/2019	10:30:00	18.06	35.66	0.987	0.25	0.84055	4.67437	7.5
5/27/2019	11:00:00	18.06	35.66	0.983	0.25	0.84055	4.67428	7.5
5/27/2019	11:30:00	18.06	35.66	1.022	0.25	0.84055	4.67449	7.51
5/27/2019	12:00:00	18.07	35.66	1.11	0.25	0.84055	4.67468	7.53
5/27/2019	12:30:00	18.07	35.66	1.124	0.25	0.84055	4.67499	7.52
5/27/2019	12:45:00	18.07	35.66	1.146	0.25	0.84055	4.67517	7.53
5/27/2019	13:00:00	18.07	35.66	1.139	0.26	0.874172	4.67537	7.53
5/27/2019	13:30:00	18.07	35.66	1.185	0.24	0.806928	4.67548	7.51
5/27/2019	14:00:00	18.08	35.66	1.19	0.24	0.806928	4.67672	7.51
5/27/2019	14:30:00	18.09	35.66	1.25	0.25	0.84055	4.67789	7.51
5/27/2019	15:00:00	18.11	35.66	1.336	0.25	0.84055	4.67951	7.53
5/27/2019	15:30:00	18.11	35.67	1.288	0.25	0.84055	4.67998	7.52
5/27/2019	16:00:00	18.12	35.67	1.322	0.25	0.84055	4.68057	7.51
5/27/2019	16:30:00	18.12	35.67	1.325	0.26	0.874172	4.68073	7.51
5/27/2019	17:00:00	18.13	35.67	1.376	0.26	0.874172	4.68178	7.51
5/27/2019	17:30:00	18.15	35.67	1.472	0.25	0.84055	4.68391	7.51
5/27/2019	18:00:00	18.15	35.67	1.446	0.26	0.874172	4.68387	7.51
5/27/2019	18:30:00	18.15	35.67	1.471	0.26	0.874172	4.68425	7.51
5/27/2019	19:00:00	18.16	35.67	1.468	0.26	0.874172	4.68502	7.53
5/27/2019	19:30:00	18.17	35.67	1.466	0.25	0.84055	4.68637	7.55
5/27/2019	20:00:00	18.18	35.67	1.432	0.24	0.806928	4.68679	7.54
5/27/2019	20:30:00	18.18	35.67	1.444	0.24	0.806928	4.68673	7.55
5/27/2019	21:00:00	18.17	35.67	1.439	0.27	0.907794	4.68601	7.54
5/27/2019	21:30:00	18.15	35.67	1.436	0.29	0.975038	4.68373	7.51
5/27/2019	22:00:00	18.16	35.67	1.403	0.24	0.806928	4.68522	7.53
5/27/2019	22:30:00	18.16	35.67	1.383	0.25	0.84055	4.68452	7.53
5/27/2019	23:00:00	18.15	35.67	1.374	0.25	0.84055	4.68389	7.52
5/27/2019	23:30:00	18.13	35.67	1.216	0.28	0.941416	4.68198	7.44
5/28/2019	0:15:00	18.13	35.67	1.22	0.27	0.907794	4.6822	7.46

5/28/2019	0:45:00	18.11	35.67	1.206	0.26	0.874172	4.67998	7.43
5/28/2019	1:15:00	18.1	35.66	1.149	0.29	0.975038	4.67794	7.41
5/28/2019	1:45:00	18.07	35.66	1.102	0.28	0.941416	4.67454	7.35
5/28/2019	2:15:00	18.1	35.66	1.158	0.26	0.874172	4.67854	7.42
5/28/2019	2:45:00	18.13	35.67	1.221	0.26	0.874172	4.68142	7.47
5/28/2019	3:15:00	18.13	35.67	1.195	0.26	0.874172	4.68171	7.49
5/28/2019	3:45:00	18.14	35.67	1.188	0.25	0.84055	4.68252	7.5
5/28/2019	4:15:00	18.13	35.67	1.172	0.26	0.874172	4.68206	7.47
5/28/2019	4:45:00	18.14	35.67	1.152	0.26	0.874172	4.68291	7.49
5/28/2019	5:15:00	18.14	35.67	1.138	0.26	0.874172	4.68286	7.48
5/28/2019	5:45:00	18.07	35.66	0.908	0.29	0.975038	4.67465	7.32
5/28/2019	6:15:00	18.08	35.66	0.891	0.29	0.975038	4.67632	7.35
5/28/2019	6:45:00	18.07	35.66	0.869	0.29	0.975038	4.67525	7.31
5/28/2019	7:15:00	18.09	35.66	0.87	0.28	0.941416	4.67739	7.35
5/28/2019	7:45:00	18.07	35.66	0.792	0.29	0.975038	4.67484	7.31
5/28/2019	8:15:00	18.07	35.66	0.771	0.29	0.975038	4.67514	7.32
5/28/2019	8:45:00	18.11	35.66	0.866	0.26	0.874172	4.67976	7.41
5/28/2019	9:15:00	18.13	35.67	0.93	0.25	0.84055	4.68177	7.47
5/28/2019	9:45:00	18.13	35.67	0.952	0.25	0.84055	4.68201	7.48
5/28/2019	10:00:00	18.12	35.67	0.832	0.27	0.907794	4.68073	7.45
5/28/2019	10:30:00	18.12	35.67	0.904	0.25	0.84055	4.68091	7.47
5/28/2019	11:00:00	18.13	35.67	0.985	0.26	0.874172	4.68185	7.5
5/28/2019	11:30:00	18.12	35.66	0.915	0.26	0.874172	4.68053	7.47
5/28/2019	12:00:00	18.12	35.66	0.962	0.26	0.874172	4.68035	7.47
5/28/2019	12:30:00	18.12	35.66	0.985	0.27	0.907794	4.68029	7.47
5/28/2019	12:45:00	18.11	35.66	0.939	0.28	0.941416	4.6796	7.45
5/28/2019	13:00:00	18.12	35.66	1.015	0.26	0.874172	4.68064	7.5
5/28/2019	13:30:00	18.12	35.66	1.038	0.26	0.874172	4.6802	7.5
5/28/2019	14:00:00	18.12	35.66	1.09	0.26	0.874172	4.68002	7.52
5/28/2019	14:30:00	18.12	35.66	1.11	0.27	0.907794	4.67992	7.51
5/28/2019	15:00:00	18.12	35.66	1.092	0.27	0.907794	4.68012	7.49
5/28/2019	15:30:00	18.12	35.66	1.122	0.27	0.907794	4.68024	7.49
5/28/2019	16:00:00	18.12	35.66	1.098	0.27	0.907794	4.68014	7.48
5/28/2019	16:30:00	18.12	35.66	1.124	0.26	0.874172	4.6804	7.47

5/28/2019	17:00:00	18.12	35.66	1.118	0.27	0.907794	4.68042	7.46
5/28/2019	17:30:00	18.1	35.67	1.015	0.3	1.00866	4.67924	7.41
5/28/2019	18:00:00	18.09	35.67	0.863	0.32	1.075904	4.67814	7.33
5/28/2019	18:30:00	18.1	35.67	0.989	0.3	1.00866	4.67885	7.4
5/28/2019	19:00:00	18.08	35.67	0.784	0.34	1.143148	4.67742	7.32
5/28/2019	19:30:00	18.08	35.67	0.749	0.34	1.143148	4.67712	7.32
5/28/2019	20:00:00	18.09	35.67	0.91	0.31	1.042282	4.6782	7.4
5/28/2019	20:30:00	18.08	35.67	0.84	0.32	1.075904	4.67705	7.39
5/28/2019	21:00:00	18.08	35.67	0.848	0.32	1.075904	4.67712	7.38
5/28/2019	21:30:00	18.08	35.67	0.978	0.31	1.042282	4.67704	7.42
5/28/2019	22:00:00	18.08	35.67	1.018	0.29	0.975038	4.67695	7.43
5/28/2019	22:30:00	18.07	35.66	1.028	0.3	1.00866	4.67495	7.5
5/28/2019	23:00:00	18.06	35.66	1.006	0.3	1.00866	4.67466	7.48
5/28/2019	23:30:00	18.06	35.66	0.99	0.3	1.00866	4.67415	7.47
5/29/2019	0:15:00	18.05	35.66	0.951	0.3	1.00866	4.67375	7.44
5/29/2019	0:45:00	18.04	35.66	0.972	0.3	1.00866	4.67255	7.46
5/29/2019	1:15:00	18.03	35.66	0.979	0.29	0.975038	4.67151	7.46
5/29/2019	1:45:00	18.03	35.66	0.932	0.28	0.941416	4.67169	7.45
5/29/2019	2:15:00	18.03	35.66	0.937	0.3	1.00866	4.67095	7.45
5/29/2019	2:45:00	18.01	35.66	0.938	0.29	0.975038	4.66917	7.46
5/29/2019	3:15:00	18.01	35.66	0.961	0.29	0.975038	4.66958	7.45
5/29/2019	3:45:00	18.01	35.66	0.927	0.29	0.975038	4.66928	7.45
5/29/2019	4:15:00	18	35.66	0.897	0.3	1.00866	4.6681	7.45
5/29/2019	4:45:00	17.99	35.66	0.876	0.3	1.00866	4.66749	7.44
5/29/2019	5:15:00	17.99	35.66	0.887	0.3	1.00866	4.66765	7.44
5/29/2019	5:45:00	17.99	35.66	0.891	0.31	1.042282	4.66719	7.43
5/29/2019	6:15:00	17.99	35.66	0.845	0.31	1.042282	4.66733	7.43
5/29/2019	6:45:00	17.99	35.67	0.827	0.31	1.042282	4.66731	7.42
5/29/2019	7:15:00	17.99	35.66	0.832	0.31	1.042282	4.66712	7.42
5/29/2019	7:45:00	17.99	35.67	0.747	0.3	1.00866	4.66688	7.42
5/29/2019	8:15:00	17.97	35.66	0.722	0.31	1.042282	4.66579	7.43
5/29/2019	8:45:00	17.98	35.66	0.674	0.31	1.042282	4.66604	7.42
5/29/2019	9:15:00	17.97	35.66	0.683	0.31	1.042282	4.66565	7.44
5/29/2019	9:45:00	17.97	35.66	0.681	0.29	0.975038	4.66514	7.45

5/29/2019	10:00:00	17.96	35.66	0.678	0.29	0.975038	4.66394	7.46
5/29/2019	10:30:00	17.94	35.66	0.734	0.29	0.975038	4.66249	7.49
5/29/2019	11:00:00	17.95	35.66	0.741	0.3	1.00866	4.66254	7.5
5/29/2019	11:30:00	17.94	35.66	0.758	0.29	0.975038	4.66216	7.5
5/29/2019	12:00:00	17.94	35.66	0.755	0.3	1.00866	4.66198	7.51
5/29/2019	12:30:00	17.94	35.66	0.81	0.3	1.00866	4.66208	7.52
5/29/2019	12:45:00	17.94	35.66	0.82	0.31	1.042282	4.66201	7.51
5/29/2019	13:00:00	17.94	35.66	0.811	0.3	1.00866	4.6621	7.5
5/29/2019	13:30:00	17.94	35.66	0.828	0.3	1.00866	4.66205	7.5
5/29/2019	14:00:00	17.94	35.67	0.834	0.31	1.042282	4.66201	7.5
5/29/2019	14:30:00	17.94	35.66	0.853	0.31	1.042282	4.66175	7.49
5/29/2019	15:00:00	17.94	35.67	0.941	0.31	1.042282	4.6618	7.51
5/29/2019	15:30:00	17.94	35.66	0.959	0.3	1.00866	4.66218	7.52
5/29/2019	16:00:00	17.93	35.66	1.017	0.31	1.042282	4.66161	7.5
5/29/2019	16:30:00	17.94	35.66	1.005	0.3	1.00866	4.66176	7.5
5/29/2019	17:00:00	17.94	35.66	1.026	0.31	1.042282	4.66164	7.49
5/29/2019	17:30:00	17.95	35.66	1.137	0.33	1.109526	4.66275	7.53
5/29/2019	18:00:00	17.95	35.67	1.212	0.32	1.075904	4.66357	7.57
5/29/2019	18:30:00	17.95	35.66	1.237	0.31	1.042282	4.66299	7.55
5/29/2019	19:00:00	17.95	35.67	1.231	0.31	1.042282	4.66302	7.57
5/29/2019	19:30:00	17.95	35.66	1.251	0.32	1.075904	4.66277	7.55
5/29/2019	20:00:00	17.95	35.66	1.272	0.31	1.042282	4.66273	7.55
5/29/2019	20:30:00	17.94	35.66	1.239	0.32	1.075904	4.66237	7.55
5/29/2019	21:00:00	17.94	35.66	1.171	0.32	1.075904	4.66208	7.55
5/29/2019	21:30:00	17.93	35.67	1.229	0.31	1.042282	4.66164	7.55
5/29/2019	22:00:00	17.93	35.67	1.191	0.32	1.075904	4.66109	7.55
5/29/2019	22:30:00	17.93	35.67	1.181	0.32	1.075904	4.66125	7.54
5/29/2019	23:00:00	17.92	35.67	1.074	0.32	1.075904	4.66047	7.57
5/29/2019	23:30:00	17.91	35.67	1.081	0.33	1.109526	4.65952	7.57
5/30/2019	0:15:00	17.91	35.67	1.069	0.32	1.075904	4.65913	7.56
5/30/2019	0:45:00	17.9	35.67	1.061	0.33	1.109526	4.65888	7.57
5/30/2019	1:15:00	17.9	35.67	1.011	0.32	1.075904	4.65889	7.57
5/30/2019	1:45:00	17.9	35.67	0.994	0.31	1.042282	4.65837	7.55
5/30/2019	2:15:00	17.9	35.67	0.988	0.32	1.075904	4.65827	7.55

5/30/2019	2:45:00	17.89	35.67	0.98	0.3	1.00866	4.65774	7.55
5/30/2019	3:15:00	17.89	35.67	0.966	0.3	1.00866	4.65741	7.55
5/30/2019	3:45:00	17.89	35.67	0.922	0.31	1.042282	4.65702	7.55
5/30/2019	4:15:00	17.88	35.67	0.922	0.32	1.075904	4.65608	7.56
5/30/2019	4:45:00	17.87	35.67	0.936	0.31	1.042282	4.65556	7.58
5/30/2019	5:15:00	17.86	35.67	0.912	0.32	1.075904	4.65482	7.58
5/30/2019	5:45:00	17.85	35.68	0.9	0.32	1.075904	4.6538	7.58
5/30/2019	6:15:00	17.85	35.67	0.886	0.3	1.00866	4.65336	7.57
5/30/2019	6:45:00	17.85	35.67	0.902	0.31	1.042282	4.65349	7.56
5/30/2019	7:15:00	17.86	35.67	0.921	0.3	1.00866	4.65429	7.53
5/30/2019	7:45:00	17.86	35.67	0.848	0.33	1.109526	4.65429	7.52
5/30/2019	8:15:00	17.85	35.67	0.799	0.3	1.00866	4.65276	7.55
5/30/2019	8:45:00	17.85	35.67	0.777	0.31	1.042282	4.65321	7.53
5/30/2019	9:15:00	17.85	35.67	0.803	0.32	1.075904	4.65289	7.55
5/30/2019	9:45:00	17.84	35.67	0.774	0.3	1.00866	4.65271	7.55
5/30/2019	10:00:00	17.84	35.67	0.751	0.32	1.075904	4.65251	7.54
5/30/2019	10:30:00	17.85	35.67	0.775	0.32	1.075904	4.65323	7.55
5/30/2019	11:00:00	17.83	35.67	0.815	0.32	1.075904	4.65091	7.58
5/30/2019	11:30:00	17.84	35.67	0.878	0.31	1.042282	4.65261	7.6
5/30/2019	12:00:00	17.83	35.67	0.966	0.31	1.042282	4.65112	7.62
5/30/2019	12:30:00	17.82	35.67	1.007	0.3	1.00866	4.65033	7.64
5/30/2019	12:45:00	17.83	35.67	1.003	0.3	1.00866	4.6516	7.64
5/30/2019	13:00:00	17.81	35.67	0.97	0.29	0.975038	4.64889	7.62
5/30/2019	13:30:00	17.8	35.67	1.138	0.3	1.00866	4.64798	7.64
5/30/2019	14:00:00	17.81	35.67	1.101	0.34	1.143148	4.64853	7.74
5/30/2019	14:30:00	17.79	35.67	1.111	0.34	1.143148	4.64725	7.73
5/30/2019	15:00:00	17.8	35.67	1.193	0.34	1.143148	4.64773	7.73
5/30/2019	15:30:00	17.82	35.67	1.21	0.37	1.244014	4.64969	7.72
5/30/2019	16:00:00	17.82	35.67	1.314	0.37	1.244014	4.65041	7.74
5/30/2019	16:30:00	17.82	35.67	1.37	0.33	1.109526	4.65038	7.75
5/30/2019	17:00:00	17.85	35.67	1.26	0.33	1.109526	4.65354	7.74
5/30/2019	17:30:00	17.84	35.67	1.27	0.31	1.042282	4.6524	7.73
5/30/2019	18:00:00	17.82	35.67	1.138	0.31	1.042282	4.65022	7.68
5/30/2019	18:30:00	17.81	35.67	1.191	0.33	1.109526	4.64865	7.65

5/30/2019	19:00:00	17.84	35.68	1.229	0.33	1.109526	4.65289	7.7
5/30/2019	19:30:00	17.84	35.68	1.377	0.33	1.109526	4.65221	7.7
5/30/2019	20:00:00	17.84	35.67	1.312	0.33	1.109526	4.65202	7.68
5/30/2019	20:30:00	17.83	35.67	1.321	0.33	1.109526	4.65071	7.65
5/30/2019	21:00:00	17.81	35.67	1.279	0.35	1.17677	4.64957	7.7
5/30/2019	21:30:00	17.82	35.68	1.223	0.34	1.143148	4.65093	7.72
5/30/2019	22:00:00	17.82	35.68	1.229	0.32	1.075904	4.65062	7.69
5/30/2019	22:30:00	17.82	35.67	1.122	0.33	1.109526	4.6506	7.68
5/30/2019	23:00:00	17.82	35.67	1.133	0.34	1.143148	4.65045	7.66
5/30/2019	23:30:00	17.81	35.67	1.049	0.34	1.143148	4.6494	7.64
5/31/2019	0:15:00	17.81	35.67	1.007	0.31	1.042282	4.64957	7.6
5/31/2019	0:45:00	17.82	35.67	0.964	0.32	1.075904	4.65005	7.57
5/31/2019	1:15:00	17.83	35.67	0.99	0.3	1.00866	4.6511	7.59
5/31/2019	1:45:00	17.83	35.67	0.843	0.3	1.00866	4.65129	7.56
5/31/2019	2:15:00	17.83	35.67	0.833	0.29	0.975038	4.65182	7.56
5/31/2019	2:45:00	17.84	35.67	0.821	0.3	1.00866	4.6524	7.54
5/31/2019	3:15:00	17.84	35.67	0.801	0.3	1.00866	4.65254	7.53
5/31/2019	3:45:00	17.84	35.67	0.832	0.3	1.00866	4.65287	7.53
5/31/2019	4:15:00	17.85	35.67	0.813	0.3	1.00866	4.65343	7.53
5/31/2019	4:45:00	17.85	35.67	0.796	0.3	1.00866	4.65361	7.52
5/31/2019	5:15:00	17.85	35.67	0.817	0.31	1.042282	4.65397	7.52
5/31/2019	5:45:00	17.86	35.67	0.776	0.31	1.042282	4.65418	7.52
5/31/2019	6:15:00	17.85	35.67	0.784	0.3	1.00866	4.65408	7.52
5/31/2019	6:45:00	17.86	35.67	0.744	0.3	1.00866	4.65411	7.52
5/31/2019	7:15:00	17.85	35.68	0.743	0.29	0.975038	4.65378	7.51
5/31/2019	7:45:00	17.85	35.67	0.707	0.29	0.975038	4.65379	7.51
5/31/2019	8:15:00	17.85	35.67	0.687	0.28	0.941416	4.65374	7.51
5/31/2019	8:45:00	17.85	35.67	0.686	0.29	0.975038	4.65376	7.52
5/31/2019	9:15:00	17.85	35.67	0.665	0.29	0.975038	4.65406	7.51
5/31/2019	9:45:00	17.85	35.67	0.667	0.29	0.975038	4.65381	7.52
5/31/2019	10:00:00	17.85	35.67	0.674	0.29	0.975038	4.65368	7.52
5/31/2019	10:30:00	17.86	35.67	0.63	0.3	1.00866	4.65467	7.52
5/31/2019	11:00:00	17.85	35.67	0.667	0.29	0.975038	4.65383	7.52
5/31/2019	11:30:00	17.86	35.67	0.661	0.29	0.975038	4.65436	7.51

5/31/2019	12:00:00	17.86	35.67	0.6	0.31	1.042282	4.65479	7.5
5/31/2019	12:30:00	17.86	35.67	0.668	0.29	0.975038	4.65398	7.52
5/31/2019	12:45:00	17.86	35.67	0.635	0.3	1.00866	4.65385	7.51
5/31/2019	13:00:00	17.86	35.67	0.62	0.3	1.00866	4.65467	7.51
5/31/2019	13:30:00	17.86	35.67	0.621	0.3	1.00866	4.65479	7.51
5/31/2019	14:00:00	17.85	35.67	0.696	0.33	1.109526	4.65333	7.52
5/31/2019	14:30:00	17.85	35.67	0.775	0.34	1.143148	4.653	7.53
5/31/2019	15:00:00	17.85	35.67	0.845	0.37	1.244014	4.65293	7.53
5/31/2019	15:30:00	17.85	35.67	0.914	0.37	1.244014	4.65274	7.54
5/31/2019	16:00:00	17.85	35.67	1.028	0.38	1.277636	4.6527	7.55
5/31/2019	16:30:00	17.85	35.67	1.058	0.39	1.311258	4.65264	7.56
5/31/2019	17:00:00	17.84	35.67	1.11	0.42	1.412124	4.65188	7.57
5/31/2019	17:30:00	17.82	35.66	1.205	0.46	1.546612	4.6497	7.62
5/31/2019	18:00:00	17.82	35.67	1.149	0.39	1.311258	4.64979	7.63
5/31/2019	18:30:00	17.82	35.67	1.105	0.39	1.311258	4.64985	7.61
5/31/2019	19:00:00	17.82	35.67	1.097	0.36	1.210392	4.6499	7.6
5/31/2019	19:30:00	17.81	35.67	1.056	0.36	1.210392	4.64915	7.6
5/31/2019	20:00:00	17.81	35.67	1.082	0.37	1.244014	4.64859	7.61
5/31/2019	20:30:00	17.8	35.67	1.085	0.36	1.210392	4.64816	7.63
5/31/2019	21:00:00	17.8	35.67	1.12	0.36	1.210392	4.6477	7.64
5/31/2019	21:30:00	17.79	35.67	1.11	0.37	1.244014	4.64707	7.64
5/31/2019	22:00:00	17.78	35.67	1.057	0.38	1.277636	4.64621	7.62
5/31/2019	22:30:00	17.78	35.67	1.114	0.38	1.277636	4.64623	7.64
5/31/2019	23:00:00	17.78	35.67	1.12	0.36	1.210392	4.64581	7.64
5/31/2019	23:30:00	17.77	35.67	1.054	0.38	1.277636	4.64532	7.61
6/1/2019	0:15:00	17.77	35.67	1.082	0.37	1.244014	4.64458	7.62
6/1/2019	0:45:00	17.76	35.67	0.97	0.36	1.210392	4.6437	7.59
6/1/2019	1:15:00	17.75	35.67	0.958	0.37	1.244014	4.64332	7.59
6/1/2019	1:45:00	17.75	35.67	0.907	0.37	1.244014	4.64302	7.58
6/1/2019	2:15:00	17.75	35.67	0.928	0.39	1.311258	4.6428	7.57
6/1/2019	2:45:00	17.74	35.67	0.944	0.37	1.244014	4.64165	7.59
6/1/2019	3:15:00	17.74	35.67	0.895	0.37	1.244014	4.64208	7.57
6/1/2019	3:45:00	17.74	35.67	0.948	0.37	1.244014	4.64177	7.58
6/1/2019	4:15:00	17.73	35.67	0.939	0.37	1.244014	4.64131	7.57

6/1/2019	4:45:00	17.73	35.67	0.944	0.37	1.244014	4.64129	7.58
6/1/2019	5:15:00	17.73	35.67	0.933	0.39	1.311258	4.64113	7.57
6/1/2019	5:45:00	17.72	35.67	0.912	0.37	1.244014	4.63977	7.58
6/1/2019	6:15:00	17.71	35.67	0.828	0.36	1.210392	4.63888	7.56
6/1/2019	6:45:00	17.71	35.67	0.892	0.37	1.244014	4.63889	7.56
6/1/2019	7:15:00	17.69	35.67	0.832	0.36	1.210392	4.63716	7.55
6/1/2019	7:45:00	17.7	35.67	0.843	0.35	1.17677	4.6381	7.56
6/1/2019	8:15:00	17.69	35.67	0.862	0.35	1.17677	4.63735	7.57
6/1/2019	8:45:00	17.69	35.67	0.91	0.36	1.210392	4.63713	7.58
6/1/2019	9:15:00	17.69	35.67	0.904	0.36	1.210392	4.63702	7.57
6/1/2019	9:45:00	17.69	35.67	0.808	0.36	1.210392	4.63688	7.57
6/1/2019	10:00:00	17.69	35.67	0.85	0.35	1.17677	4.63668	7.58
6/1/2019	10:30:00	17.68	35.67	0.891	0.34	1.143148	4.63654	7.58
6/1/2019	11:00:00	17.69	35.67	0.901	0.36	1.210392	4.63665	7.57
6/1/2019	11:30:00	17.68	35.66	0.896	0.35	1.17677	4.63576	7.58
6/1/2019	12:00:00	17.68	35.66	0.993	0.35	1.17677	4.6358	7.58
6/1/2019	12:30:00	17.64	35.66	0.979	0.41	1.378502	4.6309	7.56
6/1/2019	12:45:00	17.68	35.66	1.066	0.37	1.244014	4.63525	7.58
6/1/2019	13:00:00	17.68	35.67	1.027	0.34	1.143148	4.63554	7.59
6/1/2019	13:30:00	17.67	35.67	0.978	0.33	1.109526	4.63518	7.6
6/1/2019	14:00:00	17.66	35.67	1.054	0.34	1.143148	4.63433	7.61
6/1/2019	14:30:00	17.66	35.67	1.065	0.35	1.17677	4.6341	7.61
6/1/2019	15:00:00	17.67	35.67	1.071	0.36	1.210392	4.63444	7.62
6/1/2019	15:30:00	17.66	35.66	1.11	0.35	1.17677	4.63381	7.61
6/1/2019	16:00:00	17.66	35.66	1.167	0.34	1.143148	4.63327	7.62
6/1/2019	16:30:00	17.65	35.66	1.155	0.37	1.244014	4.63221	7.63
6/1/2019	17:00:00	17.65	35.67	1.156	0.34	1.143148	4.63302	7.64
6/1/2019	17:30:00	17.64	35.66	1.207	0.33	1.109526	4.63118	7.64
6/1/2019	18:00:00	17.63	35.66	1.198	0.34	1.143148	4.63015	7.64
6/1/2019	18:30:00	17.62	35.66	1.149	0.33	1.109526	4.62913	7.64
6/1/2019	19:00:00	17.61	35.66	1.171	0.35	1.17677	4.62881	7.66
6/1/2019	19:30:00	17.62	35.66	1.217	0.34	1.143148	4.62962	7.67
6/1/2019	20:00:00	17.61	35.66	1.217	0.34	1.143148	4.62895	7.67
6/1/2019	20:30:00	17.61	35.66	1.18	0.33	1.109526	4.62845	7.65

6/1/2019	21:00:00	17.6	35.66	1.165	0.35	1.17677	4.62785	7.65
6/1/2019	21:30:00	17.6	35.66	1.186	0.36	1.210392	4.62702	7.64
6/1/2019	22:00:00	17.6	35.66	1.224	0.37	1.244014	4.62708	7.66
6/1/2019	22:30:00	17.58	35.66	1.212	0.33	1.109526	4.62502	7.64
6/1/2019	23:00:00	17.57	35.66	1.172	0.34	1.143148	4.62378	7.62
6/1/2019	23:30:00	17.58	35.66	1.121	0.35	1.17677	4.62563	7.63
6/2/2019	0:15:00	17.58	35.66	1.183	0.37	1.244014	4.62498	7.62
6/2/2019	0:45:00	17.57	35.66	1.121	0.34	1.143148	4.62397	7.62
6/2/2019	1:15:00	17.56	35.66	1.166	0.35	1.17677	4.62343	7.61
6/2/2019	1:45:00	17.56	35.66	1.154	0.35	1.17677	4.62353	7.62
6/2/2019	2:15:00	17.56	35.66	1.097	0.34	1.143148	4.62337	7.61
6/2/2019	2:45:00	17.56	35.66	1.147	0.34	1.143148	4.62293	7.61
6/2/2019	3:15:00	17.55	35.66	1.107	0.34	1.143148	4.62246	7.63
6/2/2019	3:45:00	17.55	35.66	1.06	0.34	1.143148	4.62246	7.63
6/2/2019	4:15:00	17.55	35.66	1.149	0.35	1.17677	4.62221	7.63
6/2/2019	4:45:00	17.54	35.66	1.036	0.33	1.109526	4.62086	7.62
6/2/2019	5:15:00	17.54	35.66	1.115	0.33	1.109526	4.62078	7.61
6/2/2019	5:45:00	17.53	35.66	1.006	0.34	1.143148	4.62017	7.6
6/2/2019	6:15:00	17.52	35.66	1.002	0.32	1.075904	4.6196	7.6
6/2/2019	6:45:00	17.5	35.66	1.031	0.32	1.075904	4.61772	7.59
6/2/2019	7:15:00	17.5	35.66	1.029	0.31	1.042282	4.61725	7.59
6/2/2019	7:45:00	17.5	35.66	1.058	0.32	1.075904	4.61655	7.59
6/2/2019	8:15:00	17.48	35.66	1.2	0.34	1.143148	4.61499	7.62
6/2/2019	8:45:00	17.48	35.66	1.208	0.32	1.075904	4.61449	7.63
6/2/2019	9:15:00	17.45	35.66	1.309	0.33	1.109526	4.61139	7.65
6/2/2019	9:45:00	17.44	35.66	1.351	0.33	1.109526	4.6108	7.65
6/2/2019	10:00:00	17.42	35.65	1.394	0.32	1.075904	4.60795	7.66
6/2/2019	10:30:00	17.41	35.65	1.369	0.33	1.109526	4.60623	7.68
6/2/2019	11:00:00	17.42	35.65	1.459	0.31	1.042282	4.60742	7.68
6/2/2019	11:30:00	17.35	35.65	1.627	0.35	1.17677	4.5996	7.71
6/2/2019	12:00:00	17.4	35.65	1.547	0.32	1.075904	4.60617	7.69
6/2/2019	12:30:00	17.43	35.65	1.475	0.3	1.00866	4.60857	7.7
6/2/2019	12:45:00	17.43	35.65	1.5	0.32	1.075904	4.60919	7.72
6/2/2019	13:00:00	17.4	35.65	1.652	0.31	1.042282	4.60574	7.72

6/2/2019	13:30:00	17.41	35.65	1.795	0.33	1.109526	4.60681	7.73
6/2/2019	14:00:00	17.45	35.65	1.812	0.32	1.075904	4.61015	7.72
6/2/2019	14:30:00	17.41	35.65	1.83	0.32	1.075904	4.60614	7.75
6/2/2019	15:00:00	17.42	35.65	1.891	0.32	1.075904	4.60724	7.74
6/2/2019	15:30:00	17.38	35.65	1.989	0.33	1.109526	4.60374	7.78
6/2/2019	16:00:00	17.44	35.64	1.719	0.31	1.042282	4.6085	7.66
6/2/2019	16:30:00	17.41	35.65	1.859	0.35	1.17677	4.60671	7.74
6/2/2019	17:00:00	17.39	35.63	1.628	0.32	1.075904	4.60298	7.57
6/2/2019	17:30:00	17.37	35.62	1.213	0.32	1.075904	4.59814	7.41
6/2/2019	18:00:00	17.35	35.61	1.124	0.31	1.042282	4.59667	7.38
6/2/2019	18:30:00	17.32	35.6	1.03	0.3	1.00866	4.59252	7.3
6/2/2019	19:00:00	17.34	35.61	1.14	0.31	1.042282	4.59506	7.4
6/2/2019	19:30:00	17.31	35.61	1.023	1.01	3.395822	4.59176	7.31
6/2/2019	20:00:00	17.33	35.61	0.926	0.61	2.050942	4.59418	7.34
6/2/2019	20:30:00	17.35	35.62	0.864	0.32	1.075904	4.59729	7.37
6/2/2019	21:00:00	17.34	35.62	0.898	0.31	1.042282	4.59548	7.36
6/2/2019	21:30:00	17.38	35.63	1.071	0.3	1.00866	4.60102	7.47
6/2/2019	22:00:00	17.4	35.64	0.937	0.28	0.941416	4.60405	7.48
6/2/2019	22:30:00	17.42	35.64	0.919	0.27	0.907794	4.60623	7.53
6/2/2019	23:00:00	17.43	35.65	0.982	0.28	0.941416	4.60831	7.6
6/2/2019	23:30:00	17.41	35.64	0.949	0.29	0.975038	4.60588	7.55
6/3/2019	0:15:00	17.36	35.63	0.902	0.35	1.17677	4.59858	7.4
6/3/2019	0:45:00	17.3	35.61	0.939	0.44	1.479368	4.59061	7.29
6/3/2019	1:15:00	17.24	35.59	0.937	0.45	1.51299	4.58238	7.17
6/3/2019	1:45:00	17.23	35.59	0.953	0.48	1.613856	4.58125	7.14
6/3/2019	2:15:00	17.24	35.59	0.977	0.46	1.546612	4.58232	7.15
6/3/2019	2:45:00	17.22	35.59	0.938	0.41	1.378502	4.57942	7.12
6/3/2019	3:15:00	17.21	35.58	0.948	0.38	1.277636	4.57862	7.11
6/3/2019	3:45:00	17.21	35.58	0.949	0.37	1.244014	4.57826	7.11
6/3/2019	4:15:00	17.2	35.58	0.944	0.37	1.244014	4.57759	7.11
6/3/2019	4:45:00	17.19	35.58	0.914	0.33	1.109526	4.57563	7.09
6/3/2019	5:15:00	17.18	35.58	0.891	0.3	1.00866	4.57471	7.07
6/3/2019	5:45:00	17.16	35.57	0.881	0.31	1.042282	4.57278	7.07
6/3/2019	6:15:00	17.16	35.57	0.881	0.33	1.109526	4.57273	7.05

6/3/2019	6:45:00	17.14	35.57	0.859	0.36	1.210392	4.57063	7.04
6/3/2019	7:15:00	17.14	35.57	0.865	0.34	1.143148	4.57033	7.03
6/3/2019	7:45:00	17.15	35.57	0.841	0.4	1.34488	4.57111	7.02
6/3/2019	8:15:00	17.16	35.57	0.812	0.36	1.210392	4.57185	7.03
6/3/2019	8:45:00	17.15	35.57	0.786	0.33	1.109526	4.57178	7.04
6/3/2019	9:15:00	17.15	35.58	0.782	0.31	1.042282	4.57182	7.04
6/3/2019	9:45:00	17.17	35.58	0.849	0.32	1.075904	4.57369	7.05
6/3/2019	10:00:00	17.16	35.57	0.843	0.32	1.075904	4.57309	7.07
6/3/2019	10:30:00	17.17	35.57	0.927	0.31	1.042282	4.57297	7.08
6/3/2019	11:00:00	17.17	35.58	0.966	0.33	1.109526	4.574	7.1
6/3/2019	11:30:00	17.17	35.57	1.044	0.33	1.109526	4.5731	7.11
6/3/2019	12:00:00	17.17	35.57	1.138	0.32	1.075904	4.57317	7.11
6/3/2019	12:30:00	17.17	35.57	1.21	0.31	1.042282	4.57341	7.11
6/3/2019	12:45:00	17.17	35.57	1.209	0.3	1.00866	4.57358	7.12
6/3/2019	13:00:00	17.17	35.57	1.215	0.3	1.00866	4.57358	7.12
6/3/2019	13:30:00	17.17	35.57	1.329	0.28	0.941416	4.57346	7.14
6/3/2019	14:00:00	17.17	35.57	1.403	0.29	0.975038	4.57368	7.14
6/3/2019	14:30:00	17.17	35.57	1.498	0.28	0.941416	4.57369	7.15
6/3/2019	15:00:00	17.19	35.59	1.555	0.29	0.975038	4.57711	7.28
6/3/2019	15:30:00	17.19	35.59	1.584	0.3	1.00866	4.57696	7.27
6/3/2019	16:00:00	17.19	35.58	1.721	0.31	1.042282	4.57628	7.25
6/3/2019	16:30:00	17.18	35.58	1.718	0.3	1.00866	4.57554	7.23
6/3/2019	17:00:00	17.18	35.58	1.821	0.31	1.042282	4.57595	7.24
6/3/2019	17:30:00	17.18	35.58	1.888	0.29	0.975038	4.57548	7.23
6/3/2019	18:00:00	17.18	35.58	1.832	0.29	0.975038	4.57571	7.25
6/3/2019	18:30:00	17.16	35.57	1.782	0.29	0.975038	4.57272	7.16
6/3/2019	19:00:00	17.17	35.57	1.753	0.29	0.975038	4.57333	7.18
6/3/2019	19:30:00	17.17	35.57	1.701	0.28	0.941416	4.5734	7.2
6/3/2019	20:00:00	17.21	35.59	1.659	0.29	0.975038	4.57984	7.32
6/3/2019	20:30:00	17.17	35.58	1.608	0.29	0.975038	4.57397	7.2
6/3/2019	21:00:00	17.16	35.58	1.646	0.28	0.941416	4.57289	7.18
6/3/2019	21:30:00	17.17	35.58	1.659	0.28	0.941416	4.57431	7.21
6/3/2019	22:00:00	17.18	35.58	1.686	0.28	0.941416	4.57573	7.24
6/3/2019	22:30:00	17.18	35.58	1.652	0.28	0.941416	4.5753	7.24

6/3/2019	23:00:00	17.19	35.58	1.679	0.29	0.975038	4.57607	7.24
6/3/2019	23:30:00	17.19	35.58	1.66	0.29	0.975038	4.57642	7.26
6/4/2019	0:15:00	17.19	35.59	1.662	0.28	0.941416	4.57715	7.26
6/4/2019	0:45:00	17.2	35.59	1.603	0.28	0.941416	4.57812	7.26
6/4/2019	1:15:00	17.2	35.59	1.693	0.28	0.941416	4.5782	7.26
6/4/2019	1:45:00	17.22	35.59	1.653	0.29	0.975038	4.58049	7.3
6/4/2019	2:15:00	17.22	35.6	1.686	0.28	0.941416	4.58086	7.34
6/4/2019	2:45:00	17.21	35.6	1.719	0.27	0.907794	4.58	7.34
6/4/2019	3:15:00	17.2	35.6	1.685	0.27	0.907794	4.57932	7.34
6/4/2019	3:45:00	17.19	35.6	1.632	0.27	0.907794	4.57802	7.32
6/4/2019	4:15:00	17.19	35.6	1.596	0.28	0.941416	4.57782	7.31
6/4/2019	4:45:00	17.18	35.6	1.627	0.29	0.975038	4.57672	7.3
6/4/2019	5:15:00	17.17	35.59	1.487	0.28	0.941416	4.57603	7.29
6/4/2019	5:45:00	17.17	35.59	1.462	0.28	0.941416	4.57589	7.29
6/4/2019	6:15:00	17.17	35.6	1.496	0.27	0.907794	4.57625	7.3
6/4/2019	6:45:00	17.17	35.6	1.422	0.27	0.907794	4.57577	7.31
6/4/2019	7:15:00	17.16	35.59	1.394	0.26	0.874172	4.57428	7.28
6/4/2019	7:45:00	17.14	35.59	1.368	0.27	0.907794	4.57253	7.27
6/4/2019	8:15:00	17.15	35.59	1.351	0.28	0.941416	4.57339	7.28
6/4/2019	8:45:00	17.16	35.6	1.404	0.27	0.907794	4.57536	7.33
6/4/2019	9:15:00	17.18	35.6	1.419	0.28	0.941416	4.57719	7.36
6/4/2019	9:45:00	17.16	35.6	1.412	0.27	0.907794	4.57563	7.34
6/4/2019	10:00:00	17.16	35.6	1.499	0.27	0.907794	4.5757	7.36
6/4/2019	10:30:00	17.16	35.6	1.495	0.28	0.941416	4.57498	7.35
6/4/2019	11:00:00	17.16	35.6	1.523	0.27	0.907794	4.5761	7.37
6/4/2019	11:30:00	17.18	35.61	1.654	0.28	0.941416	4.57781	7.43
6/4/2019	12:00:00	17.19	35.61	1.748	0.28	0.941416	4.57942	7.46
6/4/2019	12:30:00	17.19	35.61	1.756	0.28	0.941416	4.58002	7.47
6/4/2019	12:45:00	17.19	35.61	1.812	0.29	0.975038	4.58008	7.47
6/4/2019	13:00:00	17.2	35.61	1.85	0.29	0.975038	4.58089	7.47
6/4/2019	13:30:00	17.2	35.62	1.856	0.28	0.941416	4.5818	7.5
6/4/2019	14:00:00	17.2	35.62	2.082	0.28	0.941416	4.58181	7.54
6/4/2019	14:30:00	17.21	35.62	2.08	0.28	0.941416	4.58217	7.55
6/4/2019	15:00:00	17.21	35.62	2.146	0.29	0.975038	4.58217	7.55

6/4/2019	15:30:00	17.21	35.62	2.234	0.29	0.975038	4.58208	7.57
6/4/2019	16:00:00	17.2	35.62	2.489	0.3	1.00866	4.58171	7.6
6/4/2019	16:30:00	17.2	35.62	2.407	0.29	0.975038	4.58108	7.59
6/4/2019	17:00:00	17.19	35.61	2.433	0.3	1.00866	4.58044	7.59
6/4/2019	17:30:00	17.19	35.61	2.572	0.29	0.975038	4.58022	7.59
6/4/2019	18:00:00	17.19	35.61	2.532	0.3	1.00866	4.58028	7.59
6/4/2019	18:30:00	17.19	35.62	2.474	0.31	1.042282	4.58062	7.59
6/4/2019	19:00:00	17.19	35.62	2.444	0.31	1.042282	4.58044	7.59
6/4/2019	19:30:00	17.18	35.62	2.366	0.29	0.975038	4.57995	7.6
6/4/2019	20:00:00	17.18	35.62	2.209	0.29	0.975038	4.58034	7.59
6/4/2019	20:30:00	17.18	35.62	2.13	0.29	0.975038	4.58017	7.57
6/4/2019	21:00:00	17.18	35.62	2.048	0.28	0.941416	4.57979	7.55
6/4/2019	21:30:00	17.17	35.62	2.023	0.29	0.975038	4.57844	7.53
6/4/2019	22:00:00	17.16	35.61	1.993	0.28	0.941416	4.57661	7.5
6/4/2019	22:30:00	17.15	35.61	2.004	0.29	0.975038	4.57536	7.48
6/4/2019	23:00:00	17.13	35.6	1.984	0.28	0.941416	4.57287	7.45
6/4/2019	23:30:00	17.13	35.6	1.984	0.29	0.975038	4.57294	7.44
6/5/2019	0:15:00	17.15	35.61	1.89	0.27	0.907794	4.57485	7.46
6/5/2019	0:45:00	17.16	35.61	1.979	0.29	0.975038	4.57716	7.52
6/5/2019	1:15:00	17.16	35.61	1.98	0.28	0.941416	4.57702	7.51
6/5/2019	1:45:00	17.15	35.61	1.905	0.29	0.975038	4.575	7.47
6/5/2019	2:15:00	17.15	35.61	1.898	0.27	0.907794	4.57571	7.48
6/5/2019	2:45:00	17.13	35.61	1.848	0.27	0.907794	4.57349	7.45
6/5/2019	3:15:00	17.15	35.61	1.783	0.29	0.975038	4.57551	7.5
6/5/2019	3:45:00	17.14	35.61	1.754	0.29	0.975038	4.57441	7.47
6/5/2019	4:15:00	17.13	35.61	1.715	0.26	0.874172	4.57424	7.49
6/5/2019	4:45:00	17.13	35.62	1.729	0.27	0.907794	4.57436	7.52
6/5/2019	5:15:00	17.12	35.62	1.726	0.27	0.907794	4.57355	7.54
6/5/2019	5:45:00	17.11	35.62	1.684	0.28	0.941416	4.57276	7.56
6/5/2019	6:15:00	17.09	35.61	1.663	0.28	0.941416	4.56977	7.56
6/5/2019	6:45:00	17.06	35.61	1.63	0.28	0.941416	4.56692	7.56
6/5/2019	7:15:00	17.05	35.61	1.672	0.29	0.975038	4.56485	7.56
6/5/2019	7:45:00	17.05	35.61	1.65	0.29	0.975038	4.56538	7.55
6/5/2019	8:15:00	17.03	35.61	1.637	0.29	0.975038	4.56331	7.55

6/5/2019	8:45:00	17.05	35.61	1.615	0.29	0.975038	4.56469	7.56
6/5/2019	9:15:00	17.04	35.61	1.5	0.29	0.975038	4.56417	7.56
6/5/2019	9:45:00	17.05	35.61	1.485	0.27	0.907794	4.56505	7.56
6/5/2019	10:00:00	17.04	35.61	1.514	0.3	1.00866	4.56387	7.57
6/5/2019	10:30:00	17.05	35.61	1.642	0.29	0.975038	4.56505	7.58
6/5/2019	11:00:00	17.05	35.61	1.607	0.3	1.00866	4.56531	7.58
6/5/2019	11:30:00	17.05	35.61	1.675	0.3	1.00866	4.56548	7.59
6/5/2019	12:00:00	17.06	35.6	1.746	0.3	1.00866	4.56588	7.57
6/5/2019	12:30:00	17.06	35.6	1.739	0.32	1.075904	4.56598	7.56
6/5/2019	12:45:00	17.07	35.6	1.744	0.29	0.975038	4.56613	7.56
6/5/2019	13:00:00	17.07	35.6	1.715	0.32	1.075904	4.56601	7.55
6/5/2019	13:30:00	17.07	35.6	1.746	0.31	1.042282	4.56633	7.54
6/5/2019	14:00:00	17.07	35.6	1.772	0.31	1.042282	4.56649	7.53
6/5/2019	14:30:00	17.08	35.6	1.74	0.35	1.17677	4.56706	7.5
6/5/2019	15:00:00	17.08	35.6	1.711	0.36	1.210392	4.56751	7.49
6/5/2019	15:30:00	17.09	35.6	1.733	0.34	1.143148	4.56832	7.47
6/5/2019	16:00:00	17.09	35.6	1.702	0.4	1.34488	4.56835	7.44
6/5/2019	16:30:00	17.07	35.59	1.748	0.34	1.143148	4.56548	7.39
6/5/2019	17:00:00	17.05	35.58	1.659	0.35	1.17677	4.56225	7.35
6/5/2019	17:30:00	17.04	35.58	1.632	0.33	1.109526	4.56057	7.32
6/5/2019	18:00:00	17.04	35.57	1.655	0.34	1.143148	4.55983	7.32
6/5/2019	18:30:00	17.04	35.58	1.609	0.37	1.244014	4.56102	7.32
6/5/2019	19:00:00	17.06	35.58	1.594	0.36	1.210392	4.5629	7.33
6/5/2019	19:30:00	17.07	35.59	1.52	0.34	1.143148	4.5644	7.34
6/5/2019	20:00:00	17.08	35.59	1.567	0.35	1.17677	4.56564	7.37
6/5/2019	20:30:00	17.06	35.58	1.507	0.33	1.109526	4.56369	7.34
6/5/2019	21:00:00	17.06	35.58	1.494	0.38	1.277636	4.56359	7.33
6/5/2019	21:30:00	17.04	35.58	1.524	0.33	1.109526	4.56106	7.34
6/5/2019	22:00:00	17.04	35.58	1.515	0.34	1.143148	4.56034	7.34
6/5/2019	22:30:00	17.03	35.58	1.544	0.37	1.244014	4.55955	7.34
6/5/2019	23:00:00	17.03	35.58	1.504	0.36	1.210392	4.55926	7.34
6/5/2019	23:30:00	17.02	35.58	1.43	0.32	1.075904	4.55861	7.34
6/6/2019	0:15:00	17.01	35.57	1.379	0.35	1.17677	4.55754	7.34
6/6/2019	0:45:00	17	35.57	1.398	0.34	1.143148	4.55607	7.34

6/6/2019	1:15:00	16.99	35.57	1.372	0.37	1.244014	4.55553	7.36
6/6/2019	1:45:00	16.98	35.57	1.185	0.35	1.17677	4.55379	7.45
6/6/2019	2:15:00	16.96	35.58	1.072	0.39	1.311258	4.55288	7.51
6/6/2019	2:45:00	16.93	35.58	0.958	0.4	1.34488	4.5496	7.53
6/6/2019	3:15:00	16.92	35.58	0.909	0.53	1.781966	4.54912	7.53
6/6/2019	3:45:00	16.93	35.57	1.067	0.37	1.244014	4.54979	7.46
6/6/2019	4:15:00	16.92	35.58	0.977	0.43	1.445746	4.549	7.5
6/6/2019	4:45:00	16.91	35.58	1.022	0.36	1.210392	4.54784	7.48
6/6/2019	5:15:00	16.91	35.58	0.978	0.37	1.244014	4.54732	7.49
6/6/2019	5:45:00	16.89	35.58	0.972	0.36	1.210392	4.54616	7.49
6/6/2019	6:15:00	16.89	35.58	0.961	0.36	1.210392	4.54591	7.5
6/6/2019	6:45:00	16.89	35.58	0.945	0.38	1.277636	4.54568	7.49
6/6/2019	7:15:00	16.89	35.58	0.945	0.34	1.143148	4.54577	7.49
6/6/2019	7:45:00	16.89	35.58	0.893	0.35	1.17677	4.54563	7.48
6/6/2019	8:15:00	16.88	35.58	0.867	0.36	1.210392	4.5452	7.48
6/6/2019	8:45:00	16.88	35.58	0.838	0.36	1.210392	4.54475	7.49
6/6/2019	9:15:00	16.88	35.58	0.826	0.37	1.244014	4.5446	7.49
6/6/2019	9:45:00	16.89	35.58	0.76	0.43	1.445746	4.54531	7.48
6/6/2019	10:00:00	16.88	35.58	0.786	0.37	1.244014	4.54488	7.49
6/6/2019	10:30:00	16.87	35.58	0.755	0.37	1.244014	4.54425	7.5
6/6/2019	11:00:00	16.87	35.58	0.808	0.36	1.210392	4.54365	7.51
6/6/2019	11:30:00	16.89	35.58	0.788	0.45	1.51299	4.54539	7.51
6/6/2019	12:00:00	16.9	35.58	0.776	0.4	1.34488	4.5469	7.5
6/6/2019	12:30:00	16.91	35.58	0.783	0.38	1.277636	4.54738	7.48
6/6/2019	12:45:00	16.93	35.58	0.759	0.44	1.479368	4.54967	7.49
6/6/2019	13:00:00	16.95	35.58	0.726	0.39	1.311258	4.55168	7.5
6/6/2019	13:30:00	16.96	35.58	0.741	0.36	1.210392	4.55283	7.5
6/6/2019	14:00:00	16.96	35.58	0.751	0.37	1.244014	4.55297	7.51
6/6/2019	14:30:00	16.97	35.59	0.768	0.37	1.244014	4.55479	7.51
6/6/2019	15:00:00	16.97	35.59	0.789	0.37	1.244014	4.55502	7.5
6/6/2019	15:30:00	16.98	35.59	0.841	0.37	1.244014	4.55549	7.49
6/6/2019	16:00:00	16.98	35.59	0.856	0.37	1.244014	4.55579	7.49
6/6/2019	16:30:00	16.99	35.59	0.946	0.37	1.244014	4.55631	7.49
6/6/2019	17:00:00	16.97	35.59	0.933	0.37	1.244014	4.55433	7.51

6/6/2019	17:30:00	17	35.59	0.918	0.37	1.244014	4.55837	7.51
6/6/2019	18:00:00	17	35.59	0.955	0.37	1.244014	4.55849	7.52
6/6/2019	18:30:00	16.97	35.59	0.9	0.36	1.210392	4.55499	7.51
6/6/2019	19:00:00	16.89	35.58	1.095	0.35	1.17677	4.54588	7.55
6/6/2019	19:30:00	16.89	35.58	1.018	0.37	1.244014	4.54663	7.56
6/6/2019	20:00:00	16.88	35.58	1.009	0.35	1.17677	4.54477	7.56
6/6/2019	20:30:00	16.87	35.58	0.995	0.35	1.17677	4.54419	7.56
6/6/2019	21:00:00	16.86	35.58	1.058	0.35	1.17677	4.54294	7.56
6/6/2019	21:30:00	16.86	35.58	1.023	0.33	1.109526	4.54284	7.56
6/6/2019	22:00:00	16.85	35.58	0.985	0.33	1.109526	4.54266	7.55
6/6/2019	22:30:00	16.85	35.58	1.043	0.35	1.17677	4.54253	7.55
6/6/2019	23:00:00	16.85	35.58	0.988	0.33	1.109526	4.54231	7.55
6/6/2019	23:30:00	16.86	35.58	0.922	0.36	1.210392	4.54275	7.54
6/7/2019	0:15:00	16.86	35.58	0.895	0.33	1.109526	4.54292	7.53
6/7/2019	0:45:00	16.88	35.58	0.885	0.32	1.075904	4.54571	7.52
6/7/2019	1:15:00	16.91	35.58	0.841	0.34	1.143148	4.54832	7.5
6/7/2019	1:45:00	16.9	35.58	0.791	0.33	1.109526	4.54779	7.49
6/7/2019	2:15:00	16.89	35.58	0.796	0.32	1.075904	4.54657	7.5
6/7/2019	2:45:00	16.86	35.58	0.798	0.33	1.109526	4.54346	7.52
6/7/2019	3:15:00	16.84	35.58	0.821	0.33	1.109526	4.54087	7.53
6/7/2019	3:45:00	16.84	35.59	0.795	0.33	1.109526	4.54148	7.53
6/7/2019	4:15:00	16.84	35.59	0.735	0.32	1.075904	4.54159	7.52
6/7/2019	4:45:00	16.86	35.59	0.713	0.34	1.143148	4.54421	7.51
6/7/2019	5:15:00	16.87	35.59	0.708	0.34	1.143148	4.54536	7.5
6/7/2019	5:45:00	16.75	35.57	1.063	0.38	1.277636	4.52978	7.56
6/7/2019	6:15:00	16.71	35.56	1.192	0.44	1.479368	4.52488	7.59
6/7/2019	6:45:00	16.67	35.56	0.969	0.47	1.580234	4.52096	7.58
6/7/2019	7:15:00	16.65	35.54	0.93	0.4	1.34488	4.51725	7.61
6/7/2019	7:45:00	16.76	35.56	0.757	0.37	1.244014	4.52977	7.54
6/7/2019	8:15:00	16.82	35.56	0.669	0.36	1.210392	4.53713	7.51
6/7/2019	8:45:00	16.9	35.57	0.556	0.32	1.075904	4.54549	7.47
6/7/2019	9:15:00	16.96	35.58	0.548	0.3	1.00866	4.55252	7.47
6/7/2019	9:45:00	16.95	35.58	0.539	0.29	0.975038	4.55167	7.47
6/7/2019	10:00:00	17.01	35.58	0.585	0.27	0.907794	4.55788	7.47

6/7/2019	10:30:00	16.97	35.58	0.608	0.3	1.00866	4.55402	7.48
6/7/2019	11:00:00	17.05	35.58	0.621	0.25	0.84055	4.56198	7.48
6/7/2019	11:30:00	17.06	35.59	0.593	0.24	0.806928	4.56427	7.49
6/7/2019	12:00:00	16.99	35.58	0.687	0.28	0.941416	4.55606	7.49
6/7/2019	12:30:00	16.97	35.58	0.705	0.28	0.941416	4.55308	7.49
6/7/2019	12:45:00	16.99	35.58	0.692	0.27	0.907794	4.55527	7.49
6/7/2019	13:00:00	16.96	35.58	0.716	0.28	0.941416	4.55211	7.5
6/7/2019	13:30:00	16.94	35.57	0.662	0.3	1.00866	4.54956	7.5
6/7/2019	14:00:00	16.9	35.57	0.676	0.31	1.042282	4.54606	7.5
6/7/2019	14:30:00	16.88	35.57	0.661	0.33	1.109526	4.54325	7.51
6/7/2019	15:00:00	16.88	35.57	0.676	0.32	1.075904	4.54383	7.51
6/7/2019	15:30:00	16.89	35.57	0.681	0.31	1.042282	4.54488	7.5
6/7/2019	16:00:00	16.93	35.57	0.82	0.29	0.975038	4.54928	7.51
6/7/2019	16:30:00	16.97	35.58	0.861	0.29	0.975038	4.55378	7.51
6/7/2019	17:00:00	17	35.58	0.861	0.31	1.042282	4.55776	7.49
6/7/2019	17:30:00	17	35.58	0.831	0.29	0.975038	4.55786	7.51
6/7/2019	18:00:00	17.03	35.59	0.869	0.32	1.075904	4.56083	7.5
6/7/2019	18:30:00	16.95	35.58	0.838	0.31	1.042282	4.55232	7.5
6/7/2019	19:00:00	16.96	35.58	0.783	0.32	1.075904	4.55254	7.47
6/7/2019	19:30:00	16.93	35.58	0.801	0.33	1.109526	4.54975	7.48
6/7/2019	20:00:00	17.02	35.59	0.797	0.34	1.143148	4.55947	7.49
6/7/2019	20:30:00	17.06	35.6	0.78	0.28	0.941416	4.56469	7.51
6/7/2019	21:00:00	17.03	35.59	0.757	0.26	0.874172	4.56167	7.5
6/7/2019	21:30:00	17.05	35.59	0.758	0.24	0.806928	4.56363	7.52
6/7/2019	22:00:00	17.02	35.59	0.737	0.24	0.806928	4.56081	7.51
6/7/2019	22:30:00	17	35.59	0.77	0.27	0.907794	4.55723	7.5
6/7/2019	23:00:00	17.01	35.59	0.768	0.28	0.941416	4.55853	7.49
6/7/2019	23:30:00	16.97	35.58	0.747	0.33	1.109526	4.5543	7.46
6/8/2019	0:15:00	17.04	35.59	0.696	0.24	0.806928	4.56297	7.48
6/8/2019	0:45:00	17.04	35.59	0.653	0.27	0.907794	4.5627	7.45
6/8/2019	1:15:00	17.03	35.59	0.647	0.27	0.907794	4.56146	7.46
6/8/2019	1:45:00	17.02	35.59	0.661	0.31	1.042282	4.56011	7.43
6/8/2019	2:15:00	17.04	35.6	0.634	0.24	0.806928	4.56337	7.47
6/8/2019	2:45:00	16.84	35.57	0.729	0.33	1.109526	4.53984	7.47

6/8/2019	3:15:00	16.81	35.56	0.745	0.33	1.109526	4.53545	7.47
6/8/2019	3:45:00	16.82	35.57	0.723	0.32	1.075904	4.53722	7.46
6/8/2019	4:15:00	16.81	35.56	0.721	0.32	1.075904	4.53624	7.46
6/8/2019	4:45:00	16.81	35.56	0.693	0.34	1.143148	4.53595	7.45
6/8/2019	5:15:00	16.87	35.57	0.67	0.32	1.075904	4.54225	7.43
6/8/2019	5:45:00	16.96	35.58	0.598	0.26	0.874172	4.5534	7.44
6/8/2019	6:15:00	17	35.6	0.581	0.23	0.773306	4.55948	7.48
6/8/2019	6:45:00	17.01	35.6	0.582	0.21	0.706062	4.56041	7.49
6/8/2019	7:15:00	16.97	35.6	0.558	0.23	0.773306	4.55543	7.49
6/8/2019	7:45:00	16.95	35.59	0.526	0.26	0.874172	4.55274	7.47
6/8/2019	8:15:00	16.93	35.59	0.512	0.26	0.874172	4.55132	7.47
6/8/2019	8:45:00	16.93	35.59	0.501	0.26	0.874172	4.55047	7.46
6/8/2019	9:15:00	16.92	35.59	0.479	0.26	0.874172	4.54956	7.47
6/8/2019	9:45:00	16.91	35.59	0.499	0.26	0.874172	4.54891	7.48
6/8/2019	10:00:00	16.92	35.59	0.484	0.25	0.84055	4.54959	7.48
6/8/2019	10:30:00	16.89	35.58	0.509	0.29	0.975038	4.54613	7.49
6/8/2019	11:00:00	16.86	35.58	0.508	0.28	0.941416	4.54257	7.5
6/8/2019	11:30:00	16.85	35.58	0.524	0.32	1.075904	4.54197	7.52
6/8/2019	12:00:00	16.77	35.56	0.523	0.3	1.00866	4.53157	7.53
6/8/2019	12:30:00	16.77	35.56	0.531	0.31	1.042282	4.53216	7.53
6/8/2019	12:45:00	16.86	35.58	0.534	0.29	0.975038	4.54323	7.53
6/8/2019	13:00:00	16.81	35.57	0.55	0.29	0.975038	4.53698	7.54
6/8/2019	13:30:00	16.83	35.57	0.57	0.29	0.975038	4.53906	7.54
6/8/2019	14:00:00	16.83	35.58	0.576	0.28	0.941416	4.53922	7.55
6/8/2019	14:30:00	16.88	35.58	0.589	0.27	0.907794	4.54549	7.55
6/8/2019	15:00:00	16.82	35.57	0.59	0.28	0.941416	4.5384	7.56
6/8/2019	15:30:00	16.85	35.58	0.626	0.27	0.907794	4.54229	7.56
6/8/2019	16:00:00	16.86	35.58	0.639	0.27	0.907794	4.54281	7.57
6/8/2019	16:30:00	16.85	35.58	0.689	0.26	0.874172	4.54198	7.57
6/8/2019	17:00:00	16.82	35.58	0.742	0.26	0.874172	4.53885	7.58
6/8/2019	17:30:00	16.82	35.58	0.76	0.27	0.907794	4.5382	7.59
6/8/2019	18:00:00	16.75	35.57	0.821	0.29	0.975038	4.53055	7.59
6/8/2019	18:30:00	16.75	35.57	0.8	0.28	0.941416	4.53031	7.6
6/8/2019	19:00:00	16.75	35.57	0.805	0.28	0.941416	4.53003	7.6

6/8/2019	19:30:00	16.74	35.57	0.806	0.29	0.975038	4.52898	7.61
6/8/2019	20:00:00	16.67	35.56	0.826	0.29	0.975038	4.52097	7.62
6/8/2019	20:30:00	16.67	35.56	0.804	0.29	0.975038	4.52205	7.62
6/8/2019	21:00:00	16.68	35.57	0.829	0.28	0.941416	4.52259	7.62
6/8/2019	21:30:00	16.64	35.56	0.773	0.29	0.975038	4.51883	7.63
6/8/2019	22:00:00	16.62	35.55	0.806	0.29	0.975038	4.51546	7.62
6/8/2019	22:30:00	16.64	35.56	0.795	0.3	1.00866	4.51861	7.62
6/8/2019	23:00:00	16.63	35.55	0.761	0.32	1.075904	4.51667	7.61
6/8/2019	23:30:00	16.65	35.56	0.751	0.29	0.975038	4.51895	7.61
6/9/2019	0:15:00	16.66	35.56	0.704	0.27	0.907794	4.52082	7.61
6/9/2019	0:45:00	16.66	35.56	0.704	0.28	0.941416	4.52093	7.6
6/9/2019	1:15:00	16.66	35.56	0.709	0.27	0.907794	4.52084	7.6
6/9/2019	1:45:00	16.67	35.57	0.669	0.28	0.941416	4.52166	7.59
6/9/2019	2:15:00	16.67	35.56	0.653	0.28	0.941416	4.52201	7.59
6/9/2019	2:45:00	16.66	35.56	0.653	0.27	0.907794	4.52069	7.59
6/9/2019	3:15:00	16.67	35.57	0.652	0.27	0.907794	4.5221	7.58
6/9/2019	3:45:00	16.72	35.58	0.654	0.25	0.84055	4.52795	7.57
6/9/2019	4:15:00	16.71	35.57	0.645	0.27	0.907794	4.52644	7.57
6/9/2019	14:18:00	16.81	35.59	0.629	0.24	0.806928	4.53838	7.6
6/9/2019	14:30:00	16.8	35.59	0.621	0.27	0.907794	4.53783	7.61
6/9/2019	15:00:00	16.74	35.58	0.672	0.25	0.84055	4.53122	7.61
6/9/2019	15:30:00	16.74	35.58	0.713	0.26	0.874172	4.53029	7.62
6/9/2019	16:00:00	16.73	35.58	0.801	0.24	0.806928	4.52965	7.62
6/9/2019	16:30:00	16.73	35.58	0.84	0.25	0.84055	4.52994	7.62
6/9/2019	17:00:00	16.73	35.58	0.945	0.25	0.84055	4.53019	7.62
6/9/2019	17:30:00	16.74	35.58	0.977	0.27	0.907794	4.53094	7.62
6/9/2019	18:00:00	16.74	35.58	1.014	0.26	0.874172	4.53104	7.62
6/9/2019	18:30:00	16.74	35.58	0.933	0.26	0.874172	4.53104	7.62
6/9/2019	19:00:00	16.75	35.58	0.898	0.26	0.874172	4.53197	7.63
6/9/2019	19:30:00	16.75	35.58	0.933	0.24	0.806928	4.53177	7.62
6/9/2019	20:00:00	16.74	35.58	0.911	0.24	0.806928	4.53071	7.62
6/9/2019	20:30:00	16.76	35.58	0.917	0.23	0.773306	4.53346	7.61
6/9/2019	21:00:00	16.8	35.58	0.855	0.23	0.773306	4.53699	7.6
6/9/2019	21:30:00	16.78	35.58	0.923	0.24	0.806928	4.53551	7.59

6/9/2019	22:00:00	16.79	35.58	0.864	0.23	0.773306	4.53657	7.59
6/9/2019	22:30:00	16.78	35.58	0.918	0.28	0.941416	4.53457	7.58
6/9/2019	23:00:00	16.75	35.58	0.976	0.25	0.84055	4.53146	7.58
6/9/2019	23:30:00	16.74	35.58	0.942	0.24	0.806928	4.53024	7.57
6/10/2019	0:15:00	16.74	35.58	0.895	0.25	0.84055	4.53048	7.57
6/10/2019	0:45:00	16.76	35.58	0.839	0.24	0.806928	4.53296	7.58
6/10/2019	1:15:00	16.76	35.58	0.797	0.23	0.773306	4.53289	7.58
6/10/2019	1:45:00	16.76	35.58	0.812	0.23	0.773306	4.53258	7.58
6/10/2019	2:15:00	16.75	35.58	0.811	0.22	0.739684	4.5315	7.58
6/10/2019	2:45:00	16.75	35.58	0.789	0.23	0.773306	4.53199	7.58
6/10/2019	3:15:00	16.75	35.58	0.78	0.24	0.806928	4.53217	7.59
6/10/2019	3:45:00	16.75	35.58	0.759	0.23	0.773306	4.53216	7.58
6/10/2019	4:15:00	16.74	35.58	0.743	0.24	0.806928	4.53157	7.59
6/10/2019	4:45:00	16.73	35.58	0.764	0.22	0.739684	4.53057	7.6
6/10/2019	5:15:00	16.73	35.58	0.722	0.23	0.773306	4.53067	7.59
6/10/2019	5:45:00	16.73	35.58	0.726	0.21	0.706062	4.53049	7.59
6/10/2019	6:15:00	16.73	35.58	0.712	0.23	0.773306	4.53031	7.59
6/10/2019	6:45:00	16.73	35.58	0.688	0.22	0.739684	4.53016	7.58
6/10/2019	7:15:00	16.72	35.58	0.654	0.22	0.739684	4.52945	7.58
6/10/2019	7:45:00	16.73	35.58	0.597	0.23	0.773306	4.52976	7.57
6/10/2019	8:15:00	16.73	35.58	0.538	0.22	0.739684	4.52966	7.55
6/10/2019	8:45:00	16.73	35.58	0.505	0.24	0.806928	4.52928	7.55
6/10/2019	9:15:00	16.72	35.58	0.499	0.24	0.806928	4.52829	7.56
6/10/2019	9:45:00	16.71	35.57	0.507	0.22	0.739684	4.52712	7.61
6/10/2019	10:00:00	16.71	35.57	0.513	0.23	0.773306	4.52715	7.62
6/10/2019	10:30:00	16.71	35.57	0.517	0.22	0.739684	4.52655	7.62
6/10/2019	11:00:00	16.7	35.57	0.52	0.23	0.773306	4.52542	7.63
6/10/2019	11:30:00	16.67	35.57	0.554	0.25	0.84055	4.52261	7.64
6/10/2019	12:00:00	16.67	35.57	0.603	0.25	0.84055	4.52235	7.64
6/10/2019	12:30:00	16.66	35.57	0.628	0.24	0.806928	4.52216	7.64
6/10/2019	12:45:00	16.67	35.57	0.609	0.24	0.806928	4.52241	7.65
6/10/2019	13:00:00	16.67	35.57	0.641	0.25	0.84055	4.52257	7.65
6/10/2019	13:30:00	16.67	35.57	0.677	0.26	0.874172	4.52271	7.65
6/10/2019	14:00:00	16.7	35.57	0.672	0.37	1.244014	4.52574	7.66

6/10/2019	14:30:00	16.72	35.57	0.657	0.51	1.714722	4.52771	7.65
6/10/2019	15:00:00	16.73	35.57	0.698	0.43	1.445746	4.52865	7.63
6/10/2019	15:30:00	16.74	35.57	0.745	0.81	2.723382	4.53006	7.62
6/10/2019	16:00:00	16.73	35.57	0.738	0.58	1.950076	4.52951	7.62
6/10/2019	16:30:00	16.73	35.57	0.751	0.43	1.445746	4.52957	7.61
6/10/2019	17:00:00	16.74	35.58	0.728	0.46	1.546612	4.53064	7.6
6/10/2019	17:30:00	16.75	35.58	0.771	0.68	2.286296	4.53136	7.6
6/10/2019	18:00:00	16.73	35.58	0.948	0.25	0.84055	4.53007	7.62
6/10/2019	18:30:00	16.73	35.58	1.024	0.27	0.907794	4.53016	7.63
6/10/2019	19:00:00	16.73	35.59	1.081	0.26	0.874172	4.53029	7.63
6/10/2019	19:30:00	16.73	35.58	0.988	0.25	0.84055	4.53026	7.62
6/10/2019	20:00:00	16.73	35.58	0.949	0.26	0.874172	4.53022	7.61
6/10/2019	20:30:00	16.73	35.58	0.904	0.25	0.84055	4.5302	7.59
6/10/2019	21:00:00	16.73	35.58	0.841	0.26	0.874172	4.52938	7.58
6/10/2019	21:30:00	16.72	35.58	0.843	0.23	0.773306	4.52828	7.6
6/10/2019	22:00:00	16.71	35.58	0.85	0.23	0.773306	4.52715	7.6
6/10/2019	22:30:00	16.71	35.58	0.732	0.2	0.67244	4.5275	7.58
6/10/2019	23:00:00	16.7	35.58	0.744	0.22	0.739684	4.52653	7.59
6/10/2019	23:30:00	16.7	35.57	0.797	0.22	0.739684	4.52628	7.59
6/11/2019	0:15:00	16.7	35.58	0.792	0.22	0.739684	4.52589	7.59
6/11/2019	0:45:00	16.7	35.58	0.726	0.21	0.706062	4.52629	7.58
6/11/2019	1:15:00	16.7	35.58	0.701	0.2	0.67244	4.52594	7.58
6/11/2019	1:45:00	16.7	35.58	0.682	0.21	0.706062	4.52656	7.57
6/11/2019	2:15:00	16.7	35.58	0.652	0.21	0.706062	4.52593	7.57
6/11/2019	2:45:00	16.7	35.58	0.623	0.2	0.67244	4.52619	7.56
6/11/2019	3:15:00	16.71	35.58	0.613	0.21	0.706062	4.5274	7.56
6/11/2019	3:45:00	16.71	35.58	0.618	0.2	0.67244	4.52777	7.55
6/11/2019	13:22:00	16.66	35.58	0.628	0.25	0.84055	4.52273	7.64
6/11/2019	13:30:00	16.65	35.59	0.655	0.22	0.739684	4.52309	7.7
6/11/2019	14:00:00	16.66	35.59	0.608	0.22	0.739684	4.52343	7.66
6/11/2019	14:30:00	16.66	35.59	0.618	0.24	0.806928	4.52398	7.67
6/11/2019	15:00:00	16.66	35.59	0.643	0.22	0.739684	4.52341	7.69
6/11/2019	15:30:00	16.66	35.59	0.64	0.22	0.739684	4.52378	7.67
6/11/2019	16:00:00	16.67	35.59	0.64	0.22	0.739684	4.52426	7.67

6/11/2019	16:30:00	16.66	35.59	0.641	0.21	0.706062	4.5237	7.67
6/11/2019	17:00:00	16.67	35.59	0.65	0.21	0.706062	4.52428	7.67
6/11/2019	17:30:00	16.68	35.59	0.689	0.22	0.739684	4.52496	7.66
6/11/2019	18:00:00	16.68	35.59	0.738	0.21	0.706062	4.52568	7.66
6/11/2019	18:30:00	16.7	35.58	0.71	0.21	0.706062	4.52692	7.62
6/11/2019	19:00:00	16.69	35.58	0.7	0.21	0.706062	4.52664	7.63
6/11/2019	19:30:00	16.69	35.58	0.689	0.21	0.706062	4.52624	7.63
6/11/2019	20:00:00	16.69	35.58	0.691	0.22	0.739684	4.52637	7.63
6/11/2019	20:30:00	16.69	35.58	0.694	0.22	0.739684	4.52618	7.64
6/11/2019	21:00:00	16.68	35.59	0.712	0.21	0.706062	4.52569	7.69
6/11/2019	21:30:00	16.69	35.58	0.697	0.2	0.67244	4.52642	7.62
6/11/2019	22:00:00	16.69	35.58	0.653	0.2	0.67244	4.52633	7.62
6/11/2019	22:30:00	16.7	35.58	0.636	0.19	0.638818	4.52642	7.61
6/11/2019	23:00:00	16.68	35.59	0.707	0.2	0.67244	4.52547	7.64
6/11/2019	23:30:00	16.68	35.58	0.675	0.2	0.67244	4.52474	7.64
6/12/2019	0:15:00	16.68	35.58	0.697	0.19	0.638818	4.52494	7.63
6/12/2019	0:45:00	16.67	35.58	0.713	0.2	0.67244	4.52392	7.6
6/12/2019	1:15:00	16.64	35.57	0.652	0.22	0.739684	4.51955	7.54
6/12/2019	1:45:00	16.63	35.57	0.669	0.22	0.739684	4.51837	7.52
6/12/2019	2:15:00	16.63	35.57	0.638	0.22	0.739684	4.519	7.54
6/12/2019	2:45:00	16.63	35.57	0.615	0.22	0.739684	4.51827	7.53
6/12/2019	3:15:00	16.62	35.57	0.615	0.23	0.773306	4.51697	7.5
6/12/2019	3:45:00	16.65	35.57	0.607	0.19	0.638818	4.52057	7.49
6/12/2019	4:15:00	16.57	35.56	0.655	0.23	0.773306	4.51115	7.42
6/12/2019	4:45:00	16.57	35.55	0.68	0.23	0.773306	4.51117	7.42
6/12/2019	5:15:00	16.58	35.56	0.691	0.23	0.773306	4.5117	7.41
6/12/2019	5:45:00	16.6	35.56	0.617	0.21	0.706062	4.51476	7.46
6/12/2019	6:15:00	16.59	35.56	0.584	0.22	0.739684	4.51363	7.46
6/12/2019	6:45:00	16.62	35.56	0.581	0.2	0.67244	4.51669	7.47
6/12/2019	7:15:00	16.58	35.56	0.661	0.21	0.706062	4.51189	7.44
6/12/2019	7:45:00	16.54	35.55	0.584	0.22	0.739684	4.50807	7.42
6/12/2019	8:15:00	16.54	35.55	0.574	0.21	0.706062	4.50752	7.41
6/12/2019	8:45:00	16.54	35.55	0.522	0.22	0.739684	4.50801	7.42
6/12/2019	9:15:00	16.54	35.55	0.469	0.24	0.806928	4.50718	7.41

6/12/2019	9:45:00	16.54	35.55	0.468	0.22	0.739684	4.50737	7.41
6/12/2019	10:00:00	16.53	35.55	0.478	0.22	0.739684	4.50701	7.41
6/12/2019	10:30:00	16.54	35.55	0.482	0.22	0.739684	4.50702	7.41
6/12/2019	11:00:00	16.54	35.55	0.503	0.23	0.773306	4.50713	7.42
6/12/2019	11:30:00	16.54	35.56	0.537	0.23	0.773306	4.50746	7.43
6/12/2019	12:00:00	16.53	35.55	0.552	0.23	0.773306	4.507	7.43
6/12/2019	12:30:00	16.53	35.55	0.579	0.23	0.773306	4.50662	7.43
6/12/2019	12:45:00	16.53	35.55	0.565	0.23	0.773306	4.50618	7.43
6/12/2019	13:00:00	16.53	35.55	0.601	0.23	0.773306	4.50648	7.44
6/12/2019	13:30:00	16.49	35.56	0.655	0.22	0.739684	4.50331	7.5
6/12/2019	14:00:00	16.49	35.56	0.661	0.2	0.67244	4.50286	7.54
6/12/2019	14:30:00	16.49	35.56	0.749	0.2	0.67244	4.50327	7.56
6/12/2019	15:00:00	16.45	35.56	0.71	0.2	0.67244	4.49852	7.56
6/12/2019	15:30:00	16.43	35.56	0.727	0.22	0.739684	4.497	7.56
6/12/2019	16:00:00	16.44	35.56	0.822	0.21	0.706062	4.49785	7.56
6/12/2019	16:30:00	16.44	35.56	0.802	0.22	0.739684	4.49757	7.55
6/12/2019	17:00:00	16.49	35.56	0.827	0.2	0.67244	4.50311	7.56
6/12/2019	17:30:00	16.53	35.56	0.797	0.21	0.706062	4.5079	7.52
6/12/2019	18:00:00	16.56	35.56	0.784	0.22	0.739684	4.51005	7.47
6/13/2019	14:51:00	16.88	35.59	0.65	0.2	0.67244	4.54604	7.5
6/13/2019	15:00:00	16.84	35.59	0.659	0.2	0.67244	4.54214	7.5
6/13/2019	15:30:00	16.73	35.58	0.75	0.2	0.67244	4.52951	7.53
6/13/2019	16:00:00	16.68	35.58	0.704	0.2	0.67244	4.52448	7.55
6/13/2019	16:30:00	16.76	35.58	0.743	0.2	0.67244	4.53301	7.51
6/13/2019	17:00:00	16.75	35.58	0.775	0.2	0.67244	4.53177	7.5
6/13/2019	17:30:00	16.77	35.58	0.821	0.21	0.706062	4.53405	7.49
6/13/2019	18:00:00	16.8	35.59	0.834	0.2	0.67244	4.53696	7.49
6/13/2019	18:30:00	16.76	35.58	0.833	0.2	0.67244	4.53274	7.5
6/13/2019	19:00:00	16.83	35.59	0.865	0.26	0.874172	4.54066	7.48
6/13/2019	19:30:00	16.82	35.59	0.845	0.23	0.773306	4.53935	7.48
6/13/2019	20:00:00	16.84	35.59	0.941	0.44	1.479368	4.54168	7.47
6/13/2019	20:30:00	16.88	35.59	1.016	0.39	1.311258	4.54649	7.47
6/13/2019	21:00:00	16.87	35.59	1.013	0.39	1.311258	4.54502	7.46
6/13/2019	21:30:00	16.89	35.59	1.039	0.45	1.51299	4.54741	7.47

6/13/2019	22:00:00	16.87	35.59	0.993	0.36	1.210392	4.54487	7.47
6/13/2019	22:30:00	16.87	35.59	1.021	0.3	1.00866	4.54482	7.46
6/13/2019	23:00:00	16.87	35.59	1.016	0.3	1.00866	4.54553	7.47
6/13/2019	23:30:00	16.8	35.59	0.924	0.27	0.907794	4.53747	7.48
6/14/2019	0:15:00	16.81	35.59	0.896	0.27	0.907794	4.53853	7.47
6/14/2019	0:45:00	16.86	35.59	0.92	0.24	0.806928	4.54359	7.45
6/14/2019	1:15:00	16.87	35.59	0.907	0.22	0.739684	4.54456	7.45
6/14/2019	1:45:00	16.87	35.59	0.886	0.22	0.739684	4.54565	7.45
6/14/2019	2:15:00	16.81	35.58	0.874	0.24	0.806928	4.53757	7.42
6/14/2019	2:45:00	16.88	35.59	0.853	0.21	0.706062	4.54632	7.46
6/14/2019	3:15:00	16.88	35.59	0.854	0.2	0.67244	4.54662	7.46
6/14/2019	3:45:00	16.87	35.59	0.818	0.21	0.706062	4.54552	7.46
6/14/2019	4:15:00	16.85	35.59	0.817	0.22	0.739684	4.54314	7.45
6/14/2019	4:45:00	16.86	35.59	0.812	0.22	0.739684	4.54484	7.45
6/14/2019	5:15:00	16.87	35.59	0.78	0.2	0.67244	4.54532	7.46
6/14/2019	5:45:00	16.86	35.59	0.782	0.21	0.706062	4.54431	7.46
6/14/2019	6:15:00	16.86	35.59	0.793	0.21	0.706062	4.54461	7.46
6/14/2019	6:45:00	16.85	35.59	0.782	0.21	0.706062	4.54311	7.46
6/14/2019	7:15:00	16.84	35.59	0.795	0.21	0.706062	4.5424	7.46
6/14/2019	7:45:00	16.84	35.59	0.732	0.22	0.739684	4.54175	7.46
6/14/2019	8:15:00	16.8	35.59	0.622	0.22	0.739684	4.53778	7.45
6/14/2019	8:45:00	16.81	35.59	0.633	0.21	0.706062	4.53888	7.47
6/14/2019	9:15:00	16.81	35.59	0.632	0.22	0.739684	4.5388	7.45
6/14/2019	9:45:00	16.82	35.59	0.685	0.21	0.706062	4.53941	7.46
6/14/2019	10:00:00	16.82	35.59	0.686	0.21	0.706062	4.53948	7.46
6/14/2019	10:30:00	16.82	35.59	0.709	0.22	0.739684	4.53944	7.47
6/14/2019	11:00:00	16.82	35.59	0.724	0.23	0.773306	4.53961	7.46
6/14/2019	11:30:00	16.82	35.59	0.75	0.22	0.739684	4.53957	7.47
6/14/2019	12:00:00	16.83	35.59	0.799	0.22	0.739684	4.54059	7.49
6/14/2019	12:30:00	16.83	35.59	0.829	0.22	0.739684	4.541	7.5
6/14/2019	12:45:00	16.83	35.59	0.845	0.22	0.739684	4.54124	7.5
6/14/2019	13:00:00	16.82	35.59	0.789	0.23	0.773306	4.54014	7.52
6/14/2019	13:30:00	16.82	35.59	0.831	0.23	0.773306	4.53961	7.51
6/14/2019	14:00:00	16.81	35.59	0.879	0.23	0.773306	4.53851	7.54

6/14/2019	14:30:00	16.81	35.59	0.897	0.24	0.806928	4.53881	7.54
6/14/2019	15:00:00	16.81	35.59	0.952	0.24	0.806928	4.53849	7.52
6/14/2019	15:30:00	16.8	35.59	0.942	0.24	0.806928	4.53808	7.52
6/14/2019	16:00:00	16.81	35.59	1.013	0.24	0.806928	4.53833	7.5
6/14/2019	16:30:00	16.8	35.58	0.971	0.24	0.806928	4.5375	7.49
6/14/2019	17:00:00	16.8	35.58	0.956	0.25	0.84055	4.53735	7.47
6/14/2019	17:30:00	16.81	35.58	0.999	0.25	0.84055	4.53861	7.47
6/14/2019	18:00:00	16.8	35.58	1.026	0.25	0.84055	4.53684	7.46
6/14/2019	18:30:00	16.79	35.58	0.926	0.27	0.907794	4.53545	7.41
6/14/2019	19:00:00	16.82	35.58	1.006	0.25	0.84055	4.53889	7.46
6/14/2019	19:30:00	16.82	35.59	1.033	0.23	0.773306	4.53982	7.51
6/14/2019	20:00:00	16.85	35.59	1.071	0.23	0.773306	4.54247	7.56
6/14/2019	20:30:00	16.84	35.59	0.954	0.24	0.806928	4.54145	7.53
6/14/2019	21:00:00	16.84	35.59	1.086	0.24	0.806928	4.54161	7.53
6/14/2019	21:30:00	16.82	35.59	1.089	0.24	0.806928	4.53985	7.52
6/14/2019	22:00:00	16.83	35.59	1.115	0.23	0.773306	4.54029	7.53
6/14/2019	22:30:00	16.8	35.58	1.034	0.24	0.806928	4.53743	7.5
6/14/2019	23:00:00	16.83	35.59	1.105	0.25	0.84055	4.54072	7.54
6/14/2019	23:30:00	16.83	35.59	1.113	0.27	0.907794	4.54047	7.54
6/15/2019	0:15:00	16.82	35.59	1.114	0.34	1.143148	4.53998	7.52
6/15/2019	0:45:00	16.75	35.58	1.039	0.26	0.874172	4.53269	7.51
6/15/2019	1:15:00	16.74	35.58	0.972	0.31	1.042282	4.53131	7.49
6/15/2019	1:45:00	16.73	35.58	0.956	0.27	0.907794	4.52992	7.45
6/15/2019	2:15:00	16.73	35.57	0.799	0.26	0.874172	4.52926	7.39
6/15/2019	2:45:00	16.76	35.58	0.86	0.28	0.941416	4.53326	7.45
6/15/2019	3:15:00	16.77	35.58	0.887	0.29	0.975038	4.53446	7.47
6/15/2019	3:45:00	16.77	35.58	0.879	0.28	0.941416	4.53461	7.48
6/15/2019	4:15:00	16.77	35.58	0.863	0.28	0.941416	4.53431	7.48
6/15/2019	4:45:00	16.78	35.59	0.876	0.3	1.00866	4.53496	7.49
6/15/2019	5:15:00	16.77	35.59	0.865	0.31	1.042282	4.53485	7.49
6/15/2019	5:45:00	16.78	35.59	0.867	0.33	1.109526	4.5351	7.5
6/15/2019	6:15:00	16.77	35.59	0.834	0.37	1.244014	4.5341	7.49
6/15/2019	6:45:00	16.76	35.58	0.845	0.31	1.042282	4.53358	7.5
6/15/2019	7:15:00	16.74	35.58	0.809	0.31	1.042282	4.53099	7.47

6/15/2019	7:45:00	16.7	35.58	0.74	0.31	1.042282	4.5273	7.48
6/15/2019	8:15:00	16.72	35.58	0.707	0.31	1.042282	4.52878	7.47
6/15/2019	8:45:00	16.75	35.58	0.661	0.34	1.143148	4.5317	7.48
6/15/2019	9:15:00	16.73	35.58	0.628	0.32	1.075904	4.52935	7.45
6/15/2019	9:45:00	16.74	35.58	0.656	0.34	1.143148	4.53065	7.47
6/15/2019	10:00:00	16.74	35.58	0.638	0.32	1.075904	4.5305	7.48
6/15/2019	10:30:00	16.73	35.58	0.647	0.32	1.075904	4.52953	7.47
6/15/2019	11:00:00	16.72	35.58	0.699	0.31	1.042282	4.52884	7.47
6/15/2019	11:30:00	16.73	35.58	0.758	0.33	1.109526	4.52974	7.48
6/15/2019	12:00:00	16.73	35.58	0.759	0.34	1.143148	4.53017	7.47
6/15/2019	12:30:00	16.74	35.58	0.797	0.33	1.109526	4.53058	7.48
6/15/2019	12:45:00	16.74	35.58	0.82	0.35	1.17677	4.53066	7.48
6/15/2019	13:00:00	16.74	35.58	0.845	0.37	1.244014	4.53121	7.49
6/15/2019	13:30:00	16.75	35.58	0.861	0.37	1.244014	4.5318	7.49
6/15/2019	14:00:00	16.76	35.58	0.941	0.37	1.244014	4.53309	7.53
6/15/2019	14:30:00	16.74	35.58	0.928	0.38	1.277636	4.53118	7.49
6/15/2019	15:00:00	16.74	35.58	0.96	0.36	1.210392	4.53125	7.49
6/15/2019	15:30:00	16.74	35.58	0.955	0.36	1.210392	4.53065	7.48
6/15/2019	16:00:00	16.76	35.58	0.989	0.37	1.244014	4.53245	7.49
6/15/2019	16:30:00	16.67	35.57	0.715	0.31	1.042282	4.52298	7.4
6/15/2019	17:00:00	16.62	35.57	0.697	0.31	1.042282	4.51722	7.37
6/15/2019	17:30:00	16.72	35.58	0.954	0.3	1.00866	4.52882	7.47
6/15/2019	18:00:00	16.69	35.57	0.873	0.32	1.075904	4.525	7.42
6/15/2019	18:30:00	16.67	35.57	0.912	0.3	1.00866	4.52279	7.44
6/15/2019	19:00:00	16.66	35.57	0.872	0.29	0.975038	4.5216	7.43
6/15/2019	19:30:00	16.71	35.58	1.049	0.3	1.00866	4.5274	7.51
6/15/2019	20:00:00	16.68	35.58	0.993	0.28	0.941416	4.52386	7.51
6/15/2019	20:30:00	16.66	35.57	0.903	0.28	0.941416	4.52213	7.46
6/15/2019	21:00:00	16.64	35.57	0.849	0.27	0.907794	4.51981	7.46
6/15/2019	21:30:00	16.62	35.57	0.842	0.26	0.874172	4.51742	7.45
6/15/2019	22:00:00	16.64	35.57	0.944	0.26	0.874172	4.52002	7.49
6/15/2019	22:30:00	16.66	35.58	0.998	0.26	0.874172	4.52183	7.52
6/15/2019	23:00:00	16.61	35.57	0.89	0.27	0.907794	4.51598	7.46
6/15/2019	23:30:00	16.63	35.57	0.939	0.27	0.907794	4.51945	7.5

6/16/2019	0:15:00	16.63	35.57	0.921	0.27	0.907794	4.51935	7.5
6/16/2019	0:45:00	16.63	35.58	0.938	0.27	0.907794	4.51925	7.52
6/16/2019	1:15:00	16.64	35.58	0.935	0.26	0.874172	4.52055	7.54
6/16/2019	1:45:00	16.63	35.58	0.927	0.27	0.907794	4.51922	7.53
6/16/2019	2:15:00	16.63	35.58	0.947	0.26	0.874172	4.51938	7.53
6/16/2019	2:45:00	16.63	35.58	0.906	0.27	0.907794	4.51944	7.52
6/16/2019	3:15:00	16.63	35.58	0.904	0.27	0.907794	4.51894	7.51
6/16/2019	13:08:00	16.55	35.57	0.837	0.26	0.874172	4.51041	7.64
6/16/2019	13:30:00	16.55	35.57	0.762	0.25	0.84055	4.50986	7.65
6/16/2019	14:00:00	16.55	35.57	0.755	0.25	0.84055	4.50999	7.67
6/16/2019	14:30:00	16.56	35.57	0.689	0.23	0.773306	4.51177	7.71
6/16/2019	15:00:00	16.55	35.57	0.745	0.23	0.773306	4.5098	7.72
6/16/2019	15:30:00	16.52	35.56	0.847	0.24	0.806928	4.50675	7.72
6/16/2019	16:00:00	16.53	35.57	0.811	0.24	0.806928	4.5086	7.71
6/16/2019	16:30:00	16.56	35.58	0.829	0.22	0.739684	4.51206	7.71
6/16/2019	17:00:00	16.54	35.57	0.865	0.24	0.806928	4.51022	7.71
6/16/2019	17:30:00	16.54	35.58	0.958	0.22	0.739684	4.50995	7.71
6/16/2019	18:00:00	16.51	35.57	1.025	0.24	0.806928	4.50646	7.71
6/16/2019	18:30:00	16.53	35.57	1.036	0.23	0.773306	4.50872	7.72
6/16/2019	19:00:00	16.53	35.57	1.01	0.23	0.773306	4.50906	7.72
6/16/2019	19:30:00	16.52	35.57	0.983	0.23	0.773306	4.50716	7.7
6/16/2019	20:00:00	16.53	35.57	0.935	0.23	0.773306	4.5082	7.7
6/16/2019	20:30:00	16.54	35.58	0.879	0.21	0.706062	4.50995	7.7
6/16/2019	21:00:00	16.55	35.58	0.886	0.2	0.67244	4.51077	7.7
6/16/2019	21:30:00	16.52	35.58	0.9	0.2	0.67244	4.50806	7.72
6/16/2019	22:00:00	16.53	35.57	0.922	0.22	0.739684	4.5089	7.72
6/16/2019	22:30:00	16.52	35.57	0.978	0.22	0.739684	4.50734	7.71
6/16/2019	23:00:00	16.53	35.57	0.975	0.22	0.739684	4.50851	7.71
6/16/2019	23:30:00	16.52	35.57	0.904	0.22	0.739684	4.50793	7.71
6/17/2019	0:15:00	16.51	35.57	0.857	0.21	0.706062	4.50702	7.71
6/17/2019	0:45:00	16.51	35.57	0.835	0.21	0.706062	4.50636	7.71
6/17/2019	1:15:00	16.5	35.58	0.79	0.2	0.67244	4.50623	7.7
6/17/2019	1:45:00	16.49	35.57	0.83	0.22	0.739684	4.50514	7.72
6/17/2019	2:15:00	16.49	35.57	0.855	0.23	0.773306	4.50448	7.74

6/17/2019	2:45:00	16.51	35.58	0.809	0.26	0.874172	4.50748	7.67
6/17/2019	3:15:00	16.53	35.58	0.78	0.24	0.806928	4.50935	7.66
6/17/2019	3:45:00	16.52	35.58	0.788	0.25	0.84055	4.50861	7.65
6/17/2019	4:15:00	16.49	35.58	0.809	0.26	0.874172	4.50492	7.66
6/17/2019	4:45:00	16.47	35.58	0.802	0.25	0.84055	4.50384	7.65
6/17/2019	5:15:00	16.43	35.58	0.803	0.26	0.874172	4.49908	7.67
6/17/2019	5:45:00	16.43	35.58	0.796	0.25	0.84055	4.49938	7.67
6/17/2019	6:15:00	16.45	35.58	0.803	0.24	0.806928	4.50111	7.67
6/17/2019	6:45:00	16.5	35.58	0.795	0.25	0.84055	4.50694	7.63
6/17/2019	7:15:00	16.49	35.58	0.77	0.26	0.874172	4.5063	7.64
6/17/2019	7:45:00	16.51	35.59	0.712	0.24	0.806928	4.50848	7.63
6/17/2019	8:15:00	16.51	35.58	0.653	0.25	0.84055	4.50748	7.64
6/17/2019	8:45:00	16.53	35.59	0.587	0.24	0.806928	4.50999	7.62
6/17/2019	9:15:00	16.48	35.58	0.574	0.25	0.84055	4.50414	7.65
6/17/2019	9:45:00	16.47	35.58	0.593	0.25	0.84055	4.50335	7.66
6/17/2019	10:00:00	16.47	35.58	0.599	0.25	0.84055	4.50314	7.66
6/17/2019	10:30:00	16.46	35.58	0.629	0.24	0.806928	4.50184	7.69
6/17/2019	11:00:00	16.44	35.57	0.666	0.24	0.806928	4.50025	7.71
6/17/2019	11:30:00	16.44	35.57	0.679	0.24	0.806928	4.49987	7.71
6/17/2019	12:00:00	16.44	35.57	0.716	0.25	0.84055	4.49967	7.72
6/17/2019	12:30:00	16.43	35.57	0.688	0.24	0.806928	4.49901	7.72
6/17/2019	12:45:00	16.43	35.57	0.733	0.24	0.806928	4.49891	7.72
6/17/2019	13:00:00	16.43	35.57	0.737	0.24	0.806928	4.49902	7.73
6/17/2019	13:30:00	16.44	35.57	0.788	0.24	0.806928	4.49982	7.73
6/17/2019	14:00:00	16.5	35.58	0.776	0.24	0.806928	4.50638	7.68
6/17/2019	14:30:00	16.6	35.59	0.649	0.22	0.739684	4.5175	7.65
6/17/2019	15:00:00	16.59	35.59	0.667	0.23	0.773306	4.5169	7.64
6/17/2019	15:30:00	16.59	35.59	0.698	0.22	0.739684	4.51646	7.64
6/17/2019	16:00:00	16.62	35.59	0.665	0.21	0.706062	4.51987	7.64
6/17/2019	16:30:00	16.63	35.59	0.678	0.23	0.773306	4.5212	7.62
6/17/2019	17:00:00	16.62	35.59	0.702	0.23	0.773306	4.51987	7.62
6/17/2019	17:30:00	16.63	35.59	0.724	0.22	0.739684	4.52103	7.63
6/17/2019	18:00:00	16.62	35.59	0.783	0.23	0.773306	4.51972	7.6
6/17/2019	18:30:00	16.62	35.59	0.805	0.22	0.739684	4.51953	7.6

6/17/2019	19:00:00	16.62	35.59	0.803	0.21	0.706062	4.51973	7.6
6/17/2019	19:30:00	16.63	35.59	0.792	0.22	0.739684	4.52058	7.63
6/17/2019	20:00:00	16.62	35.59	0.757	0.2	0.67244	4.51988	7.63
6/17/2019	20:30:00	16.62	35.59	0.741	0.21	0.706062	4.5194	7.62
6/17/2019	21:00:00	16.6	35.59	0.721	0.22	0.739684	4.51789	7.63
6/17/2019	21:30:00	16.6	35.59	0.717	0.21	0.706062	4.5179	7.63
6/17/2019	22:00:00	16.57	35.59	0.745	0.23	0.773306	4.51498	7.65
6/17/2019	22:30:00	16.58	35.59	0.743	0.22	0.739684	4.51625	7.64
6/17/2019	23:00:00	16.58	35.59	0.715	0.21	0.706062	4.51571	7.64
6/17/2019	23:30:00	16.58	35.59	0.716	0.2	0.67244	4.51566	7.63
6/18/2019	0:15:00	16.57	35.59	0.719	0.21	0.706062	4.51462	7.62
6/18/2019	0:45:00	16.57	35.59	0.703	0.19	0.638818	4.5144	7.62
6/18/2019	1:15:00	16.55	35.59	0.7	0.2	0.67244	4.51231	7.63
6/18/2019	1:45:00	16.54	35.59	0.683	0.22	0.739684	4.51106	7.64
6/18/2019	2:15:00	16.56	35.59	0.645	0.22	0.739684	4.51385	7.62
6/18/2019	2:45:00	16.56	35.59	0.643	0.23	0.773306	4.514	7.61
6/18/2019	3:15:00	16.56	35.59	0.599	0.21	0.706062	4.51321	7.6
6/18/2019	3:45:00	16.56	35.59	0.607	0.22	0.739684	4.51365	7.59
6/18/2019	4:15:00	16.55	35.58	0.602	0.2	0.67244	4.51233	7.57
6/18/2019	4:45:00	16.54	35.58	0.61	0.2	0.67244	4.51121	7.57
6/18/2019	5:15:00	16.55	35.58	0.605	0.21	0.706062	4.51149	7.56
6/18/2019	5:45:00	16.54	35.58	0.611	0.24	0.806928	4.51139	7.56
6/18/2019	14:11:00	16.47	35.59	0.65	0.21	0.706062	4.50362	7.67
6/18/2019	14:30:00	16.48	35.59	0.627	0.19	0.638818	4.50461	7.66
6/18/2019	15:00:00	16.49	35.59	0.648	0.22	0.739684	4.5059	7.67
6/18/2019	15:30:00	16.48	35.59	0.653	0.19	0.638818	4.50525	7.68
6/18/2019	16:00:00	16.51	35.59	0.683	0.21	0.706062	4.50865	7.65
6/18/2019	16:30:00	16.51	35.59	0.747	0.2	0.67244	4.50816	7.65
6/18/2019	17:00:00	16.52	35.59	0.786	0.18	0.605196	4.50893	7.64
6/18/2019	17:30:00	16.52	35.59	0.788	0.21	0.706062	4.5098	7.64
6/18/2019	18:00:00	16.51	35.59	0.799	0.2	0.67244	4.50834	7.65
6/18/2019	18:30:00	16.52	35.59	0.756	0.19	0.638818	4.50935	7.65
6/18/2019	19:00:00	16.52	35.59	0.751	0.21	0.706062	4.50892	7.65
6/18/2019	19:30:00	16.52	35.59	0.719	0.19	0.638818	4.50941	7.64

6/18/2019	20:00:00	16.51	35.59	0.732	0.19	0.638818	4.50784	7.65
6/18/2019	20:30:00	16.49	35.59	0.718	0.2	0.67244	4.50676	7.66
6/18/2019	21:00:00	16.46	35.59	0.713	0.19	0.638818	4.50368	7.69
6/18/2019	21:30:00	16.49	35.59	0.695	0.2	0.67244	4.50621	7.64
6/18/2019	22:00:00	16.48	35.59	0.686	0.2	0.67244	4.50472	7.64
6/18/2019	22:30:00	16.47	35.59	0.69	0.2	0.67244	4.50379	7.64
6/18/2019	23:00:00	16.45	35.58	0.699	0.2	0.67244	4.50182	7.63
6/18/2019	23:30:00	16.45	35.59	0.709	0.19	0.638818	4.50206	7.63
6/19/2019	0:15:00	16.44	35.59	0.701	0.19	0.638818	4.50066	7.64
6/19/2019	0:45:00	16.43	35.59	0.705	0.18	0.605196	4.50026	7.64
6/19/2019	1:15:00	16.43	35.59	0.706	0.19	0.638818	4.49959	7.65
6/19/2019	1:45:00	16.43	35.59	0.701	0.19	0.638818	4.49995	7.65
6/19/2019	2:15:00	16.41	35.59	0.684	0.18	0.605196	4.49866	7.66
6/19/2019	2:45:00	16.41	35.59	0.68	0.18	0.605196	4.49852	7.65
6/19/2019	3:15:00	16.4	35.59	0.668	0.18	0.605196	4.49764	7.66
6/19/2019	3:45:00	16.39	35.59	0.663	0.18	0.605196	4.49636	7.67
6/19/2019	4:15:00	16.39	35.59	0.643	0.18	0.605196	4.49665	7.66
6/19/2019	4:45:00	16.38	35.59	0.644	0.18	0.605196	4.49577	7.66
6/19/2019	5:15:00	16.39	35.59	0.635	0.18	0.605196	4.49584	7.66
6/19/2019	5:45:00	16.38	35.59	0.616	0.18	0.605196	4.49556	7.66
6/19/2019	6:15:00	16.37	35.59	0.602	0.19	0.638818	4.49472	7.66
6/19/2019	6:45:00	16.38	35.59	0.584	0.18	0.605196	4.49508	7.66
6/19/2019	7:15:00	16.38	35.59	0.581	0.18	0.605196	4.49515	7.66
6/19/2019	7:45:00	16.38	35.59	0.531	0.18	0.605196	4.49535	7.66
6/19/2019	8:15:00	16.38	35.59	0.497	0.17	0.571574	4.4956	7.67
6/19/2019	8:45:00	16.38	35.59	0.478	0.18	0.605196	4.49534	7.67
6/19/2019	9:15:00	16.38	35.59	0.456	0.17	0.571574	4.4955	7.68
6/19/2019	9:45:00	16.38	35.59	0.467	0.17	0.571574	4.4958	7.68
6/19/2019	10:00:00	16.38	35.59	0.483	0.17	0.571574	4.49584	7.69
6/19/2019	10:30:00	16.38	35.59	0.495	0.17	0.571574	4.49533	7.69
6/19/2019	11:00:00	16.37	35.59	0.5	0.18	0.605196	4.49499	7.7
6/19/2019	11:30:00	16.36	35.59	0.549	0.18	0.605196	4.49384	7.7
6/19/2019	12:00:00	16.36	35.59	0.544	0.17	0.571574	4.49373	7.71
6/19/2019	12:30:00	16.35	35.59	0.561	0.18	0.605196	4.49277	7.71

6/19/2019	12:45:00	16.34	35.59	0.578	0.17	0.571574	4.49172	7.71
6/19/2019	13:00:00	16.31	35.59	0.57	0.17	0.571574	4.48871	7.73
6/19/2019	13:30:00	16.33	35.59	0.578	0.18	0.605196	4.49015	7.73
6/19/2019	14:00:00	16.34	35.59	0.597	0.17	0.571574	4.49144	7.72
6/19/2019	14:30:00	16.35	35.59	0.608	0.18	0.605196	4.49221	7.72
6/19/2019	15:00:00	16.34	35.59	0.615	0.17	0.571574	4.4915	7.74
6/19/2019	15:30:00	16.35	35.59	0.636	0.17	0.571574	4.49199	7.75
6/19/2019	16:00:00	16.32	35.59	0.653	0.17	0.571574	4.49003	7.81
6/19/2019	16:30:00	16.32	35.59	0.689	0.17	0.571574	4.48932	7.8
6/19/2019	17:00:00	16.34	35.59	0.725	0.17	0.571574	4.49096	7.77
6/19/2019	17:30:00	16.33	35.58	0.816	0.18	0.605196	4.48947	7.75
6/19/2019	18:00:00	16.33	35.58	0.937	0.19	0.638818	4.4891	7.75
6/19/2019	18:30:00	16.33	35.58	0.987	0.18	0.605196	4.48939	7.74
6/19/2019	19:00:00	16.33	35.58	0.99	0.18	0.605196	4.48943	7.73
6/19/2019	19:30:00	16.34	35.58	1.008	0.18	0.605196	4.49005	7.7
6/19/2019	20:00:00	16.34	35.58	0.994	0.18	0.605196	4.49025	7.69
6/19/2019	20:30:00	16.35	35.57	0.981	0.19	0.638818	4.49068	7.68
6/19/2019	21:00:00	16.35	35.57	0.973	0.19	0.638818	4.49088	7.68
6/19/2019	21:30:00	16.35	35.57	0.957	0.18	0.605196	4.49083	7.67
6/19/2019	22:00:00	16.36	35.57	0.951	0.19	0.638818	4.49128	7.66
6/19/2019	22:30:00	16.36	35.57	0.941	0.19	0.638818	4.49159	7.67
6/19/2019	23:00:00	16.36	35.57	0.899	0.19	0.638818	4.49183	7.63
6/19/2019	23:30:00	16.37	35.57	0.885	0.19	0.638818	4.49231	7.62
6/20/2019	0:15:00	16.37	35.57	0.853	0.19	0.638818	4.49269	7.61
6/20/2019	0:45:00	16.37	35.57	0.848	0.19	0.638818	4.49266	7.62
6/20/2019	1:15:00	16.38	35.57	0.837	0.18	0.605196	4.49331	7.6
6/20/2019	1:45:00	16.38	35.58	0.824	0.19	0.638818	4.49391	7.6
6/20/2019	2:15:00	16.38	35.57	0.832	0.19	0.638818	4.49341	7.59
6/20/2019	2:45:00	16.38	35.57	0.808	0.19	0.638818	4.49402	7.59
6/20/2019	3:15:00	16.38	35.57	0.82	0.18	0.605196	4.49384	7.59
6/20/2019	3:45:00	16.38	35.57	0.795	0.18	0.605196	4.49362	7.59
6/20/2019	4:15:00	16.37	35.57	0.809	0.18	0.605196	4.49264	7.59
6/20/2019	4:45:00	16.37	35.57	0.783	0.18	0.605196	4.49287	7.59
6/20/2019	5:15:00	16.37	35.57	0.77	0.18	0.605196	4.49261	7.58

6/20/2019	5:45:00	16.36	35.57	0.764	0.18	0.605196	4.49187	7.58
6/20/2019	6:15:00	16.35	35.57	0.775	0.19	0.638818	4.49105	7.57
6/20/2019	6:45:00	16.35	35.57	0.755	0.2	0.67244	4.49114	7.57
6/20/2019	7:15:00	16.35	35.57	0.744	0.19	0.638818	4.49071	7.57
6/20/2019	7:45:00	16.33	35.57	0.737	0.17	0.571574	4.48908	7.57
6/20/2019	8:15:00	16.33	35.57	0.69	0.17	0.571574	4.48915	7.57
6/20/2019	8:45:00	16.33	35.57	0.669	0.18	0.605196	4.48872	7.58
6/20/2019	9:15:00	16.32	35.57	0.662	0.17	0.571574	4.48736	7.58
6/20/2019	9:45:00	16.32	35.57	0.663	0.17	0.571574	4.48814	7.59
6/20/2019	10:00:00	16.33	35.57	0.703	0.18	0.605196	4.48851	7.6
6/20/2019	10:30:00	16.29	35.58	0.67	0.18	0.605196	4.48538	7.64
6/20/2019	11:00:00	16.29	35.58	0.688	0.18	0.605196	4.48535	7.63
6/20/2019	11:30:00	16.3	35.58	0.691	0.18	0.605196	4.4859	7.65
6/20/2019	12:00:00	16.29	35.58	0.71	0.18	0.605196	4.48538	7.66
6/20/2019	12:30:00	16.29	35.58	0.727	0.18	0.605196	4.48521	7.67
6/20/2019	12:45:00	16.29	35.58	0.743	0.18	0.605196	4.48543	7.68
6/20/2019	13:00:00	16.29	35.58	0.759	0.18	0.605196	4.485	7.68
6/20/2019	13:30:00	16.29	35.58	0.797	0.18	0.605196	4.48557	7.68
6/20/2019	14:00:00	16.29	35.58	0.821	0.18	0.605196	4.48554	7.68
6/20/2019	14:30:00	16.29	35.58	0.863	0.19	0.638818	4.48548	7.68
6/20/2019	15:00:00	16.29	35.58	0.905	0.18	0.605196	4.48525	7.69
6/20/2019	15:30:00	16.29	35.58	0.972	0.19	0.638818	4.4849	7.69
6/20/2019	16:00:00	16.29	35.58	0.973	0.19	0.638818	4.48484	7.7
6/20/2019	16:30:00	16.28	35.58	0.975	0.21	0.706062	4.48471	7.7
6/20/2019	17:00:00	16.28	35.58	1.035	0.2	0.67244	4.48433	7.71
6/20/2019	17:30:00	16.28	35.58	1.031	0.18	0.605196	4.48393	7.7
6/20/2019	18:00:00	16.28	35.58	1.073	0.19	0.638818	4.48422	7.7
6/20/2019	18:30:00	16.28	35.58	1.048	0.18	0.605196	4.48392	7.69
6/23/2019	9:35:00	16.34	35.57	0.675	0.18	0.605196	4.48856	7.58
6/23/2019	9:45:00	16.34	35.57	0.709	0.17	0.571574	4.48899	7.59
6/23/2019	10:00:00	16.35	35.57	0.7	0.19	0.638818	4.48937	7.59
6/23/2019	10:30:00	16.35	35.57	0.734	0.17	0.571574	4.49021	7.59
6/23/2019	11:00:00	16.36	35.57	0.745	0.18	0.605196	4.49071	7.59
6/23/2019	11:30:00	16.36	35.57	0.76	0.16	0.537952	4.49116	7.6

6/23/2019	12:00:00	16.37	35.57	0.758	0.17	0.571574	4.49189	7.6
6/23/2019	12:30:00	16.37	35.57	0.801	0.16	0.537952	4.49227	7.6
6/23/2019	12:45:00	16.38	35.57	0.81	0.16	0.537952	4.49264	7.6
6/23/2019	13:00:00	16.38	35.57	0.824	0.16	0.537952	4.49259	7.59
6/23/2019	13:30:00	16.38	35.57	0.832	0.17	0.571574	4.49287	7.61
6/23/2019	14:00:00	16.38	35.57	0.834	0.16	0.537952	4.49301	7.61
6/23/2019	14:30:00	16.38	35.57	0.833	0.17	0.571574	4.49329	7.62
6/23/2019	15:00:00	16.38	35.57	0.829	0.17	0.571574	4.49332	7.63
6/23/2019	15:30:00	16.38	35.57	0.88	0.18	0.605196	4.49319	7.63
6/23/2019	16:00:00	16.38	35.56	0.927	0.18	0.605196	4.49234	7.66
6/23/2019	16:30:00	16.37	35.56	0.993	0.2	0.67244	4.49108	7.68
6/23/2019	17:00:00	16.35	35.56	1.019	0.19	0.638818	4.48964	7.68
6/23/2019	17:30:00	16.34	35.56	1.136	0.19	0.638818	4.48829	7.72
6/23/2019	18:00:00	16.35	35.56	1.193	0.18	0.605196	4.48901	7.73
6/23/2019	18:30:00	16.37	35.57	1.12	0.17	0.571574	4.49212	7.69
6/23/2019	19:00:00	16.39	35.57	1.12	0.17	0.571574	4.49349	7.67
6/23/2019	19:30:00	16.39	35.57	1.099	0.16	0.537952	4.49438	7.67
6/23/2019	20:00:00	16.39	35.57	1.033	0.16	0.537952	4.49428	7.64
6/23/2019	20:30:00	16.4	35.57	0.994	0.16	0.537952	4.49533	7.62
6/23/2019	21:00:00	16.4	35.57	0.922	0.16	0.537952	4.49563	7.61
6/23/2019	21:30:00	16.41	35.57	0.851	0.15	0.50433	4.49614	7.59
6/23/2019	22:00:00	16.39	35.57	0.83	0.17	0.571574	4.4949	7.59
6/23/2019	22:30:00	16.38	35.57	0.877	0.16	0.537952	4.49331	7.62
6/23/2019	23:00:00	16.38	35.57	0.914	0.16	0.537952	4.49285	7.64
6/23/2019	23:30:00	16.36	35.57	0.941	0.15	0.50433	4.49176	7.66
6/24/2019	0:15:00	16.34	35.57	0.918	0.16	0.537952	4.48889	7.65
6/24/2019	0:45:00	16.31	35.57	0.994	0.15	0.50433	4.48658	7.7
6/24/2019	1:15:00	16.29	35.57	0.907	0.17	0.571574	4.48388	7.67
6/24/2019	1:45:00	16.26	35.56	0.986	0.16	0.537952	4.48017	7.71
6/24/2019	2:15:00	16.13	35.55	0.912	0.17	0.571574	4.46675	7.79
6/24/2019	2:45:00	16.12	35.55	0.92	0.18	0.605196	4.4654	7.79
6/24/2019	3:15:00	16.12	35.55	0.928	0.17	0.571574	4.46485	7.79
6/24/2019	3:45:00	16.07	35.55	0.876	0.18	0.605196	4.45999	7.8
6/24/2019	4:15:00	16.07	35.55	0.895	0.17	0.571574	4.46013	7.81

6/24/2019	4:45:00	16.07	35.55	0.861	0.17	0.571574	4.45997	7.8
6/24/2019	5:15:00	16.07	35.55	0.817	0.19	0.638818	4.46036	7.79
6/24/2019	5:45:00	16.06	35.56	0.803	0.19	0.638818	4.45975	7.79
6/24/2019	6:15:00	16.08	35.56	0.776	0.19	0.638818	4.46195	7.78
6/24/2019	6:45:00	16.08	35.56	0.751	0.19	0.638818	4.46276	7.76
6/24/2019	7:15:00	16.09	35.56	0.747	0.19	0.638818	4.46307	7.76
6/24/2019	7:45:00	16.08	35.56	0.694	0.2	0.67244	4.46184	7.77
6/24/2019	8:15:00	16.07	35.56	0.642	0.2	0.67244	4.46112	7.77
6/24/2019	8:45:00	16.06	35.56	0.628	0.21	0.706062	4.4599	7.78
6/24/2019	9:15:00	16.05	35.56	0.621	0.21	0.706062	4.4587	7.79
6/24/2019	9:45:00	16.05	35.56	0.652	0.21	0.706062	4.45889	7.79
6/24/2019	10:00:00	16.05	35.56	0.67	0.2	0.67244	4.45933	7.78
6/24/2019	10:30:00	16.04	35.56	0.644	0.21	0.706062	4.45803	7.78
6/24/2019	11:00:00	16.05	35.56	0.703	0.19	0.638818	4.45929	7.78
6/24/2019	11:30:00	16.05	35.56	0.709	0.22	0.739684	4.45861	7.78
6/24/2019	12:00:00	16.05	35.56	0.728	0.19	0.638818	4.459	7.78
6/24/2019	12:30:00	16.06	35.56	0.775	0.19	0.638818	4.46002	7.78
6/24/2019	12:45:00	16.06	35.56	0.778	0.19	0.638818	4.45976	7.78
6/24/2019	13:00:00	16.06	35.56	0.825	0.18	0.605196	4.46019	7.79
6/24/2019	13:30:00	16.07	35.56	0.85	0.17	0.571574	4.46102	7.79
6/24/2019	14:00:00	16.07	35.56	0.945	0.17	0.571574	4.4618	7.81
6/24/2019	14:30:00	16.07	35.56	0.995	0.18	0.605196	4.46179	7.82
6/24/2019	15:00:00	16.07	35.56	1.018	0.18	0.605196	4.46121	7.81
6/24/2019	15:30:00	16.07	35.56	0.973	0.18	0.605196	4.46137	7.81
6/24/2019	16:00:00	16.07	35.56	1.113	0.18	0.605196	4.46155	7.81
6/24/2019	16:30:00	16.07	35.56	1.083	0.18	0.605196	4.4613	7.8
6/24/2019	17:00:00	16.07	35.56	1.017	0.19	0.638818	4.46112	7.8
6/24/2019	17:30:00	16.07	35.56	1.091	0.19	0.638818	4.46078	7.8
6/24/2019	18:00:00	16.07	35.56	1.17	0.19	0.638818	4.46121	7.8
6/24/2019	18:30:00	16.06	35.56	1.155	0.2	0.67244	4.46071	7.79
6/24/2019	19:00:00	16.07	35.56	1.222	0.2	0.67244	4.46111	7.8
6/24/2019	19:30:00	16.06	35.56	1.228	0.19	0.638818	4.46023	7.81
6/24/2019	20:00:00	16.05	35.56	1.151	0.2	0.67244	4.45945	7.81
6/24/2019	20:30:00	16.03	35.55	0.911	0.22	0.739684	4.4565	7.82

6/24/2019	21:00:00	16.03	35.56	0.936	0.23	0.773306	4.45667	7.81
6/24/2019	21:30:00	16.03	35.55	0.89	0.22	0.739684	4.45655	7.81
6/24/2019	22:00:00	16.03	35.55	0.928	0.22	0.739684	4.4558	7.82
6/24/2019	22:30:00	16.05	35.56	1.048	0.21	0.706062	4.45882	7.86
6/24/2019	23:00:00	16.05	35.56	1.027	0.21	0.706062	4.45811	7.86
6/24/2019	23:30:00	16.04	35.55	0.995	0.21	0.706062	4.45738	7.84
6/25/2019	0:15:00	16.04	35.56	1.003	0.21	0.706062	4.45705	7.86
6/25/2019	0:45:00	16.03	35.56	0.962	0.21	0.706062	4.45672	7.84
6/25/2019	1:15:00	16.03	35.56	0.941	0.21	0.706062	4.45672	7.84
6/25/2019	1:45:00	16.04	35.56	0.973	0.21	0.706062	4.45801	7.85
6/25/2019	2:15:00	16.04	35.56	0.969	0.21	0.706062	4.45762	7.84
6/25/2019	2:45:00	16.05	35.56	0.966	0.21	0.706062	4.45879	7.83
6/25/2019	3:15:00	16.06	35.56	0.989	0.21	0.706062	4.46062	7.81
6/25/2019	3:45:00	16.07	35.56	1.016	0.22	0.739684	4.4618	7.81
6/25/2019	4:15:00	16.11	35.57	1.003	0.22	0.739684	4.46533	7.8
6/25/2019	4:45:00	16.14	35.57	0.977	0.19	0.638818	4.46856	7.8
6/25/2019	5:15:00	16.14	35.57	0.977	0.19	0.638818	4.46888	7.8
6/25/2019	5:45:00	16.2	35.56	0.928	0.18	0.605196	4.47402	7.78
6/25/2019	6:15:00	16.24	35.56	0.902	0.17	0.571574	4.47818	7.76
6/25/2019	6:45:00	16.21	35.56	0.897	0.17	0.571574	4.47422	7.77
6/25/2019	7:15:00	16.25	35.55	0.912	0.17	0.571574	4.47809	7.75
6/25/2019	7:45:00	16.24	35.55	0.878	0.17	0.571574	4.47764	7.75
6/25/2019	8:15:00	16.28	35.56	0.839	0.17	0.571574	4.4817	7.73
6/25/2019	8:45:00	16.28	35.56	0.83	0.17	0.571574	4.482	7.73
6/25/2019	9:15:00	16.26	35.56	0.815	0.19	0.638818	4.47981	7.74
6/25/2019	9:45:00	16.25	35.55	0.786	0.23	0.773306	4.47807	7.75
6/25/2019	10:00:00	16.25	35.56	0.806	0.2	0.67244	4.47883	7.75
6/25/2019	10:30:00	16.26	35.56	0.837	0.19	0.638818	4.47946	7.76
6/25/2019	11:00:00	16.27	35.56	0.866	0.19	0.638818	4.48137	7.76
6/25/2019	11:30:00	16.26	35.56	0.857	0.2	0.67244	4.47999	7.77
6/25/2019	12:00:00	16.28	35.56	0.889	0.18	0.605196	4.48158	7.78
6/25/2019	12:30:00	16.26	35.56	0.925	0.2	0.67244	4.47963	7.79
6/25/2019	12:45:00	16.27	35.56	0.942	0.19	0.638818	4.48034	7.79
6/25/2019	13:00:00	16.26	35.56	0.967	0.22	0.739684	4.47919	7.8

6/25/2019	13:30:00	16.27	35.56	0.989	0.2	0.67244	4.48117	7.8
6/25/2019	14:00:00	16.26	35.56	1.016	0.2	0.67244	4.47982	7.82
6/25/2019	14:30:00	16.27	35.56	0.997	0.2	0.67244	4.48069	7.83
6/25/2019	15:00:00	16.25	35.56	1.064	0.21	0.706062	4.47846	7.85
6/25/2019	15:30:00	16.25	35.56	1.102	0.21	0.706062	4.47906	7.85
6/25/2019	16:00:00	16.26	35.56	1.11	0.2	0.67244	4.48027	7.86
6/25/2019	16:30:00	16.27	35.56	1.147	0.18	0.605196	4.48135	7.86
6/25/2019	17:00:00	16.23	35.56	1.195	0.24	0.806928	4.47658	7.87
6/25/2019	17:30:00	16.27	35.56	1.24	0.19	0.638818	4.48154	7.86
6/25/2019	18:00:00	16.29	35.56	1.273	0.19	0.638818	4.48319	7.86
6/25/2019	18:30:00	16.28	35.56	1.26	0.19	0.638818	4.48273	7.85
6/25/2019	19:00:00	16.28	35.56	1.277	0.21	0.706062	4.48251	7.85
6/25/2019	19:30:00	16.29	35.56	1.271	0.18	0.605196	4.4834	7.84
6/25/2019	20:00:00	16.29	35.56	1.273	0.19	0.638818	4.48325	7.84
6/25/2019	20:30:00	16.29	35.56	1.24	0.21	0.706062	4.48316	7.83
6/25/2019	21:00:00	16.29	35.56	1.235	0.19	0.638818	4.48314	7.83
6/25/2019	21:30:00	16.28	35.56	1.239	0.19	0.638818	4.48275	7.83
6/25/2019	22:00:00	16.28	35.56	1.236	0.2	0.67244	4.48225	7.83
6/25/2019	22:30:00	16.27	35.56	1.229	0.19	0.638818	4.48207	7.83
6/25/2019	23:00:00	16.27	35.56	1.227	0.19	0.638818	4.48172	7.82
6/25/2019	23:30:00	16.27	35.56	1.212	0.18	0.605196	4.48176	7.82
6/26/2019	0:15:00	16.27	35.56	1.177	0.18	0.605196	4.4816	7.82
6/26/2019	0:45:00	16.27	35.57	1.162	0.18	0.605196	4.48125	7.81
6/26/2019	1:15:00	16.27	35.56	1.185	0.17	0.571574	4.48105	7.81
6/26/2019	1:45:00	16.22	35.56	1.159	0.21	0.706062	4.47646	7.83
6/26/2019	2:15:00	16.2	35.56	1.128	0.21	0.706062	4.47327	7.84
6/26/2019	2:45:00	16.24	35.56	1.128	0.17	0.571574	4.47794	7.82
6/26/2019	3:15:00	16.22	35.56	1.129	0.19	0.638818	4.47577	7.83
6/26/2019	3:45:00	16.22	35.56	1.097	0.17	0.571574	4.47661	7.82
6/26/2019	4:15:00	16.22	35.56	1.089	0.16	0.537952	4.47645	7.82
6/26/2019	4:45:00	16.22	35.56	1.095	0.18	0.605196	4.47642	7.82
6/26/2019	5:15:00	16.2	35.56	1.041	0.18	0.605196	4.47457	7.83
6/26/2019	5:45:00	16.21	35.56	1.069	0.17	0.571574	4.47567	7.81
6/26/2019	6:15:00	16.2	35.56	1.037	0.18	0.605196	4.47379	7.83

6/26/2019	6:45:00	16.21	35.56	1.077	0.16	0.537952	4.47581	7.81
6/26/2019	7:15:00	16.2	35.56	1.029	0.19	0.638818	4.47383	7.82
6/26/2019	7:45:00	16.2	35.56	0.994	0.16	0.537952	4.47435	7.81
6/26/2019	8:15:00	16.2	35.56	0.953	0.17	0.571574	4.47448	7.81
6/26/2019	8:45:00	16.19	35.56	0.905	0.17	0.571574	4.47398	7.82
6/26/2019	9:15:00	16.19	35.56	0.919	0.18	0.605196	4.47297	7.83
6/26/2019	9:45:00	16.17	35.56	0.914	0.18	0.605196	4.47141	7.84
6/26/2019	10:00:00	16.16	35.56	0.94	0.18	0.605196	4.47056	7.85
6/26/2019	10:30:00	16.15	35.56	0.994	0.19	0.638818	4.4692	7.87
6/26/2019	11:00:00	16.17	35.56	1.074	0.19	0.638818	4.4717	7.88
6/26/2019	11:30:00	16.16	35.56	1.056	0.19	0.638818	4.46993	7.89
6/26/2019	12:00:00	16.16	35.56	1.006	0.19	0.638818	4.47011	7.91
6/26/2019	12:30:00	16.16	35.56	1.044	0.19	0.638818	4.47018	7.92
6/26/2019	12:45:00	16.18	35.56	1.041	0.18	0.605196	4.47205	7.93
6/26/2019	13:00:00	16.17	35.56	1.064	0.19	0.638818	4.4712	7.93
6/26/2019	13:30:00	16.18	35.56	1.091	0.19	0.638818	4.4724	7.94
6/26/2019	14:00:00	16.19	35.56	1.12	0.19	0.638818	4.47324	7.95
6/26/2019	14:30:00	16.2	35.56	1.133	0.18	0.605196	4.47457	7.95
6/26/2019	15:00:00	16.16	35.56	1.306	0.19	0.638818	4.47006	7.95
6/26/2019	15:30:00	16.19	35.56	1.312	0.19	0.638818	4.47294	7.97
6/26/2019	16:00:00	16.16	35.56	1.352	0.21	0.706062	4.46992	7.92
6/26/2019	16:30:00	16.19	35.56	1.431	0.19	0.638818	4.47386	7.92
6/26/2019	17:00:00	16.21	35.56	1.521	0.18	0.605196	4.47568	7.93
6/26/2019	17:30:00	16.21	35.57	1.608	0.19	0.638818	4.47573	7.9
6/26/2019	18:00:00	16.22	35.57	1.714	0.18	0.605196	4.47633	7.91
6/26/2019	18:30:00	16.22	35.57	1.679	0.19	0.638818	4.47646	7.91
6/26/2019	19:00:00	16.22	35.57	1.723	0.2	0.67244	4.47639	7.9
6/26/2019	19:30:00	16.19	35.56	1.767	0.19	0.638818	4.47373	7.91
6/26/2019	20:00:00	16.18	35.56	1.781	0.21	0.706062	4.47185	7.93
6/26/2019	20:30:00	16.18	35.56	1.782	0.21	0.706062	4.47209	7.92
6/26/2019	21:00:00	16.19	35.56	1.773	0.2	0.67244	4.47354	7.91
6/26/2019	21:30:00	16.2	35.57	1.729	0.19	0.638818	4.4749	7.89
6/26/2019	22:00:00	16.27	35.57	1.58	0.18	0.605196	4.48233	7.88
6/26/2019	22:30:00	16.25	35.57	1.604	0.17	0.571574	4.48015	7.88

6/26/2019	23:00:00	16.28	35.57	1.436	0.18	0.605196	4.4833	7.89
6/26/2019	23:30:00	16.26	35.57	1.493	0.17	0.571574	4.4807	7.89
6/27/2019	0:15:00	16.24	35.57	1.529	0.18	0.605196	4.4787	7.87
6/27/2019	0:45:00	16.24	35.57	1.488	0.18	0.605196	4.47905	7.87
6/27/2019	1:15:00	16.28	35.57	1.348	0.17	0.571574	4.4828	7.87
6/27/2019	1:45:00	16.27	35.57	1.311	0.17	0.571574	4.48259	7.87
6/27/2019	2:15:00	16.25	35.57	1.36	0.18	0.605196	4.48005	7.87
6/27/2019	2:45:00	16.26	35.57	1.369	0.18	0.605196	4.4807	7.87
6/27/2019	3:15:00	16.25	35.57	1.341	0.18	0.605196	4.4797	7.87
6/27/2019	3:45:00	16.23	35.57	1.371	0.18	0.605196	4.47754	7.87
6/27/2019	4:15:00	16.23	35.57	1.39	0.17	0.571574	4.47779	7.86
6/27/2019	4:45:00	16.25	35.57	1.232	0.17	0.571574	4.48018	7.86
6/27/2019	5:15:00	16.25	35.57	1.21	0.17	0.571574	4.4798	7.85
6/27/2019	5:45:00	16.2	35.57	1.236	0.18	0.605196	4.47511	7.86
6/27/2019	6:15:00	16.23	35.57	1.222	0.18	0.605196	4.47849	7.85
6/27/2019	6:45:00	16.23	35.57	1.217	0.17	0.571574	4.47789	7.85
6/27/2019	7:15:00	16.21	35.57	1.183	0.17	0.571574	4.47622	7.86
6/27/2019	7:45:00	16.2	35.57	1.137	0.18	0.605196	4.47487	7.86
6/27/2019	8:15:00	16.19	35.57	1.067	0.2	0.67244	4.47442	7.86
6/27/2019	8:45:00	16.19	35.57	1.005	0.17	0.571574	4.47383	7.87
6/27/2019	9:15:00	16.18	35.57	1.004	0.18	0.605196	4.47285	7.88
6/27/2019	9:45:00	16.18	35.56	0.995	0.19	0.638818	4.47198	7.89
6/27/2019	10:00:00	16.14	35.55	0.951	0.19	0.638818	4.46659	7.93
6/27/2019	10:30:00	16.1	35.55	1.054	0.21	0.706062	4.46276	7.96
6/27/2019	11:00:00	16.12	35.55	1.09	0.2	0.67244	4.46406	7.97
6/27/2019	11:30:00	16.1	35.55	1.061	0.21	0.706062	4.46296	7.97
6/27/2019	12:00:00	16.06	35.55	1.078	0.22	0.739684	4.45828	8.01
6/27/2019	12:30:00	16.03	35.54	1.049	0.24	0.806928	4.45458	8.03
6/27/2019	12:45:00	16.02	35.54	1.044	0.23	0.773306	4.45311	8.03
6/27/2019	13:00:00	16.01	35.54	1.068	0.22	0.739684	4.45227	8.04
6/27/2019	13:30:00	16.01	35.54	1.113	0.23	0.773306	4.45186	8.04
6/27/2019	14:00:00	16.04	35.55	1.241	0.23	0.773306	4.45605	8.05
6/27/2019	14:30:00	16.05	35.55	1.31	0.22	0.739684	4.45744	8.04
6/27/2019	15:00:00	16.06	35.55	1.33	0.22	0.739684	4.45904	8.05

6/27/2019	15:30:00	16.08	35.55	1.33	0.21	0.706062	4.46017	8.05
6/27/2019	16:00:00	16.08	35.55	1.341	0.21	0.706062	4.46054	8.05
6/27/2019	16:30:00	16.1	35.55	1.361	0.21	0.706062	4.46262	8.05
6/27/2019	17:00:00	16.11	35.55	1.394	0.21	0.706062	4.46437	8.04
6/27/2019	17:30:00	16.1	35.55	1.407	0.22	0.739684	4.46241	8.03
6/27/2019	18:00:00	16.07	35.54	1.454	0.22	0.739684	4.45879	8.02
6/27/2019	18:30:00	16.07	35.55	1.485	0.22	0.739684	4.45927	8.02
6/27/2019	19:00:00	16.1	35.55	1.525	0.21	0.706062	4.46314	8.02
6/27/2019	19:30:00	16.06	35.56	1.619	0.21	0.706062	4.46003	8.03
6/27/2019	20:00:00	16.07	35.56	1.622	0.2	0.67244	4.46116	8.02
6/27/2019	20:30:00	16.09	35.56	1.616	0.21	0.706062	4.46262	8.02
6/27/2019	21:00:00	16.1	35.56	1.55	0.21	0.706062	4.46425	8.01
6/27/2019	21:30:00	16.11	35.56	1.427	0.21	0.706062	4.46518	8.02
6/27/2019	22:00:00	16.11	35.56	1.481	0.2	0.67244	4.4648	8.02
6/27/2019	22:30:00	16.12	35.56	1.431	0.2	0.67244	4.46569	8.02
6/27/2019	23:00:00	16.1	35.56	1.437	0.22	0.739684	4.4642	8.04
6/27/2019	23:30:00	16.13	35.56	1.506	0.21	0.706062	4.46798	8
6/28/2019	0:15:00	16.13	35.57	1.565	0.2	0.67244	4.46732	7.98
6/28/2019	0:45:00	16.13	35.57	1.575	0.2	0.67244	4.46807	7.97
6/28/2019	1:15:00	16.11	35.57	1.629	0.21	0.706062	4.46548	7.99
6/28/2019	1:45:00	16.13	35.57	1.594	0.2	0.67244	4.46782	7.97
6/28/2019	2:15:00	16.14	35.57	1.529	0.19	0.638818	4.46853	7.96
6/28/2019	2:45:00	16.12	35.57	1.514	0.2	0.67244	4.4663	7.97
6/28/2019	3:15:00	16.12	35.57	1.496	0.2	0.67244	4.46733	7.96
6/28/2019	3:45:00	16.12	35.57	1.462	0.19	0.638818	4.46708	7.96
6/28/2019	4:15:00	16.12	35.57	1.43	0.19	0.638818	4.46663	7.95
6/28/2019	4:45:00	16.12	35.57	1.414	0.19	0.638818	4.46663	7.96
6/28/2019	5:15:00	16.12	35.57	1.378	0.19	0.638818	4.46704	7.95
6/28/2019	12:45:00	16.08	35.57	1.204	0.21	0.706062	4.46341	8.03
6/28/2019	13:00:00	16.09	35.57	1.218	0.19	0.638818	4.46451	8.03
6/28/2019	13:30:00	16.09	35.57	1.269	0.2	0.67244	4.46466	8.04
6/28/2019	14:00:00	16.1	35.57	1.316	0.2	0.67244	4.46555	8.04
6/28/2019	14:30:00	16.1	35.57	1.346	0.2	0.67244	4.46557	8.05
6/28/2019	15:00:00	16.11	35.57	1.406	0.2	0.67244	4.46583	8.05

6/28/2019	15:30:00	16.09	35.57	1.456	0.2	0.67244	4.46424	8.07
6/28/2019	16:00:00	16.15	35.57	1.35	0.19	0.638818	4.47075	8.03
6/28/2019	16:30:00	16.1	35.57	1.467	0.2	0.67244	4.46526	8.07
6/28/2019	17:00:00	16.11	35.57	1.432	0.2	0.67244	4.46599	8.07
6/28/2019	17:30:00	16.1	35.57	1.48	0.21	0.706062	4.46501	8.07
6/28/2019	18:00:00	16.11	35.57	1.569	0.2	0.67244	4.46609	8.06
6/28/2019	18:30:00	16.11	35.57	1.548	0.19	0.638818	4.46663	8.05
6/28/2019	19:00:00	16.11	35.57	1.554	0.2	0.67244	4.46616	8.04
6/28/2019	19:30:00	16.11	35.57	1.517	0.2	0.67244	4.466	8.04
6/28/2019	20:00:00	16.08	35.57	1.502	0.2	0.67244	4.46291	8.06
6/28/2019	20:30:00	16.08	35.57	1.536	0.2	0.67244	4.46359	8.05
6/28/2019	21:00:00	16.08	35.57	1.463	0.2	0.67244	4.46321	8.05
6/28/2019	21:30:00	16.07	35.57	1.484	0.21	0.706062	4.46225	8.05
6/28/2019	22:00:00	16.07	35.57	1.472	0.19	0.638818	4.4625	8.04
6/28/2019	22:30:00	16.07	35.57	1.466	0.2	0.67244	4.46191	8.05
6/28/2019	23:00:00	16.05	35.57	1.474	0.19	0.638818	4.46071	8.05
6/28/2019	23:30:00	16.04	35.57	1.43	0.21	0.706062	4.45976	8.05
6/29/2019	0:15:00	16.04	35.57	1.452	0.21	0.706062	4.45945	8.05
6/29/2019	0:45:00	16.03	35.57	1.423	0.2	0.67244	4.45851	8.05
6/29/2019	1:15:00	16.03	35.57	1.38	0.2	0.67244	4.45793	8.05
6/29/2019	1:45:00	16.02	35.57	1.364	0.2	0.67244	4.45751	8.05
6/29/2019	2:15:00	16.01	35.57	1.339	0.19	0.638818	4.45655	8.05
6/29/2019	2:45:00	16.01	35.57	1.339	0.19	0.638818	4.45633	8.05
6/29/2019	3:15:00	16.01	35.57	1.304	0.2	0.67244	4.45599	8.05
6/29/2019	3:45:00	16	35.57	1.305	0.2	0.67244	4.45589	8.04
6/29/2019	4:15:00	16	35.57	1.279	0.2	0.67244	4.4558	8.04
6/29/2019	4:45:00	16.01	35.57	1.272	0.19	0.638818	4.45629	8.04
6/29/2019	5:15:00	16	35.57	1.224	0.19	0.638818	4.45524	8.04
6/29/2019	5:45:00	16.01	35.57	1.182	0.2	0.67244	4.4561	8.02
6/29/2019	6:15:00	16.02	35.57	1.173	0.2	0.67244	4.45743	8.01
6/29/2019	6:45:00	15.98	35.58	1.151	0.22	0.739684	4.45384	8.04
6/29/2019	7:15:00	15.97	35.58	1.109	0.22	0.739684	4.45319	8.03
6/29/2019	7:45:00	15.96	35.58	1.056	0.23	0.773306	4.45218	8.03
6/29/2019	8:15:00	15.96	35.58	1.056	0.23	0.773306	4.45235	8.03

6/29/2019	8:45:00	15.88	35.58	1.044	0.22	0.739684	4.44354	8.09
6/29/2019	9:15:00	15.85	35.58	1.053	0.22	0.739684	4.44074	8.11
6/29/2019	9:45:00	15.88	35.58	1.068	0.21	0.706062	4.44428	8.09
6/29/2019	10:00:00	15.86	35.58	1.095	0.22	0.739684	4.44239	8.1
6/29/2019	10:30:00	15.86	35.58	1.131	0.21	0.706062	4.44167	8.12
6/29/2019	11:00:00	15.86	35.58	1.193	0.22	0.739684	4.44252	8.12
6/29/2019	11:30:00	15.86	35.58	1.189	0.22	0.739684	4.44195	8.13
6/29/2019	12:00:00	15.87	35.58	1.193	0.21	0.706062	4.44347	8.13
6/29/2019	12:30:00	15.87	35.58	1.233	0.22	0.739684	4.44315	8.13
6/29/2019	12:45:00	15.87	35.58	1.261	0.21	0.706062	4.44332	8.14
6/29/2019	13:00:00	15.88	35.58	1.22	0.22	0.739684	4.4439	8.14
6/29/2019	13:30:00	15.88	35.58	1.312	0.21	0.706062	4.44449	8.14
6/29/2019	14:00:00	15.89	35.58	1.301	0.22	0.739684	4.44467	8.14
6/29/2019	14:30:00	15.89	35.58	1.334	0.22	0.739684	4.44491	8.15
6/29/2019	15:00:00	15.92	35.58	1.341	0.22	0.739684	4.44797	8.16
6/29/2019	15:30:00	15.91	35.58	1.391	0.22	0.739684	4.44717	8.16
6/29/2019	16:00:00	15.92	35.58	1.371	0.22	0.739684	4.44837	8.16
6/29/2019	16:30:00	15.93	35.58	1.363	0.23	0.773306	4.4492	8.15
6/29/2019	17:00:00	15.94	35.58	1.324	0.23	0.773306	4.45067	8.14
6/29/2019	17:30:00	15.89	35.58	1.442	0.25	0.84055	4.44587	8.17
6/29/2019	18:00:00	15.93	35.58	1.49	0.27	0.907794	4.44945	8.15
6/29/2019	18:30:00	15.95	35.58	1.53	0.3	1.00866	4.45131	8.14
6/29/2019	19:00:00	15.94	35.58	1.565	0.28	0.941416	4.45086	8.14
6/29/2019	19:30:00	15.93	35.58	1.609	0.28	0.941416	4.44997	8.16
6/29/2019	20:00:00	15.92	35.58	1.638	0.27	0.907794	4.44843	8.17
6/29/2019	20:30:00	15.94	35.58	1.593	0.28	0.941416	4.45021	8.16
6/29/2019	21:00:00	15.92	35.58	1.567	0.26	0.874172	4.4489	8.16
6/29/2019	21:30:00	15.93	35.58	1.528	0.27	0.907794	4.44997	8.15
6/29/2019	22:00:00	15.93	35.58	1.529	0.26	0.874172	4.44963	8.14
6/29/2019	22:30:00	15.93	35.58	1.467	0.25	0.84055	4.44928	8.14
6/29/2019	23:00:00	15.92	35.59	1.436	0.25	0.84055	4.4489	8.14
6/29/2019	23:30:00	15.92	35.59	1.435	0.25	0.84055	4.44896	8.13
6/30/2019	0:15:00	15.92	35.59	1.429	0.26	0.874172	4.44857	8.12
6/30/2019	0:45:00	15.93	35.58	1.365	0.25	0.84055	4.4499	8.11

6/30/2019	1:15:00	15.92	35.59	1.417	0.27	0.907794	4.44905	8.11
6/30/2019	1:45:00	15.93	35.58	1.339	0.26	0.874172	4.44959	8.1
6/30/2019	2:15:00	15.93	35.58	1.372	0.25	0.84055	4.44937	8.1
6/30/2019	12:20:00	15.94	35.59	0.949	0.24	0.806928	4.45026	8.1
6/30/2019	12:30:00	15.94	35.58	0.935	0.24	0.806928	4.45116	8.1
6/30/2019	12:45:00	15.96	35.58	0.917	0.24	0.806928	4.4527	8.11
6/30/2019	13:00:00	15.95	35.58	0.945	0.23	0.773306	4.4513	8.11
6/30/2019	13:30:00	15.95	35.59	0.934	0.25	0.84055	4.45133	8.11
6/30/2019	14:00:00	15.97	35.59	1.039	0.22	0.739684	4.45424	8.12
6/30/2019	14:30:00	15.95	35.59	0.995	0.25	0.84055	4.45225	8.12
6/30/2019	15:00:00	15.96	35.59	1.02	0.23	0.773306	4.45325	8.13
6/30/2019	15:30:00	15.96	35.59	1.03	0.24	0.806928	4.45319	8.13
6/30/2019	16:00:00	15.96	35.59	1.07	0.25	0.84055	4.45309	8.13
6/30/2019	16:30:00	15.98	35.59	1.136	0.23	0.773306	4.45437	8.13
6/30/2019	17:00:00	15.98	35.59	1.097	0.24	0.806928	4.45473	8.13
6/30/2019	17:30:00	15.99	35.59	1.19	0.27	0.907794	4.45578	8.13
6/30/2019	18:00:00	15.99	35.59	1.266	0.28	0.941416	4.45628	8.13
6/30/2019	18:30:00	16	35.59	1.309	0.3	1.00866	4.45685	8.13
6/30/2019	19:00:00	15.99	35.59	1.262	0.31	1.042282	4.45607	8.12
6/30/2019	19:30:00	15.99	35.59	1.317	0.32	1.075904	4.4557	8.13
6/30/2019	20:00:00	15.99	35.59	1.304	0.36	1.210392	4.45558	8.13
6/30/2019	20:30:00	15.97	35.59	1.324	0.32	1.075904	4.45413	8.14
6/30/2019	21:00:00	15.94	35.59	1.272	0.28	0.941416	4.45171	8.16
6/30/2019	21:30:00	15.94	35.59	1.27	0.28	0.941416	4.45144	8.17
6/30/2019	22:00:00	15.93	35.59	1.289	0.28	0.941416	4.45068	8.18
6/30/2019	22:30:00	15.91	35.59	1.238	0.27	0.907794	4.44881	8.19
6/30/2019	23:00:00	15.91	35.59	1.213	0.27	0.907794	4.44819	8.19
6/30/2019	23:30:00	15.9	35.59	1.209	0.26	0.874172	4.44786	8.19
7/1/2019	0:15:00	15.9	35.59	1.189	0.29	0.975038	4.44758	8.18
7/1/2019	0:45:00	15.9	35.59	1.18	0.28	0.941416	4.4472	8.18
7/1/2019	1:15:00	15.89	35.59	1.175	0.28	0.941416	4.44696	8.18
7/1/2019	1:45:00	15.89	35.59	1.217	0.3	1.00866	4.44679	8.17
7/1/2019	2:15:00	15.89	35.59	1.139	0.27	0.907794	4.4466	8.17
7/1/2019	2:45:00	15.89	35.59	1.095	0.3	1.00866	4.44652	8.16

7/1/2019	3:15:00	15.89	35.59	1.114	0.28	0.941416	4.44692	8.16
7/1/2019	3:45:00	15.89	35.59	1.061	0.28	0.941416	4.44661	8.15
7/1/2019	4:15:00	15.89	35.59	1.028	0.3	1.00866	4.44702	8.14
7/1/2019	4:45:00	15.9	35.59	1.041	0.29	0.975038	4.44749	8.14
7/1/2019	5:15:00	15.91	35.59	1.028	0.29	0.975038	4.44833	8.13
7/1/2019	5:45:00	15.91	35.59	1.015	0.26	0.874172	4.44887	8.12
7/1/2019	6:15:00	15.93	35.59	1.008	0.27	0.907794	4.4502	8.11
7/1/2019	6:45:00	15.93	35.59	0.981	0.29	0.975038	4.45061	8.11
7/1/2019	7:15:00	15.94	35.59	0.971	0.24	0.806928	4.45119	8.1
7/1/2019	7:45:00	15.94	35.59	0.896	0.23	0.773306	4.45148	8.1
7/1/2019	8:15:00	15.94	35.59	0.865	0.26	0.874172	4.45099	8.1
7/1/2019	8:45:00	15.94	35.59	0.837	0.26	0.874172	4.45114	8.09
7/1/2019	9:15:00	15.93	35.59	0.827	0.29	0.975038	4.45077	8.09
7/1/2019	9:45:00	15.93	35.59	0.804	0.29	0.975038	4.45063	8.1
7/1/2019	10:00:00	15.93	35.59	0.77	0.35	1.17677	4.4502	8.09
7/1/2019	10:30:00	15.93	35.59	0.742	0.36	1.210392	4.45007	8.09
7/1/2019	11:00:00	15.92	35.59	0.784	0.32	1.075904	4.44975	8.1
7/1/2019	11:30:00	15.92	35.59	0.771	0.38	1.277636	4.44974	8.1
7/1/2019	12:00:00	15.93	35.59	0.778	0.36	1.210392	4.44989	8.12
7/1/2019	12:30:00	15.92	35.59	0.816	0.4	1.34488	4.44949	8.11
7/1/2019	12:45:00	15.88	35.59	0.82	1.06	3.563932	4.44543	8.1
7/1/2019	13:00:00	15.84	35.59	0.826	0.76	2.555272	4.44177	8.13
7/1/2019	13:30:00	15.84	35.59	0.857	0.5	1.6811	4.44186	8.15
7/1/2019	14:00:00	15.81	35.59	0.833	0.64	2.151808	4.4388	8.16
7/1/2019	14:30:00	15.85	35.59	0.883	0.42	1.412124	4.44274	8.16
7/1/2019	15:00:00	15.85	35.59	0.9	0.39	1.311258	4.44246	8.17
7/1/2019	15:30:00	15.87	35.59	0.922	0.37	1.244014	4.44409	8.17
7/1/2019	16:00:00	15.89	35.59	0.942	0.34	1.143148	4.44641	8.17
7/1/2019	16:30:00	15.91	35.59	0.98	0.32	1.075904	4.44844	8.17
7/1/2019	17:00:00	15.95	35.59	1.026	0.28	0.941416	4.45223	8.18
7/1/2019	17:30:00	15.96	35.59	1.074	0.24	0.806928	4.45367	8.18
7/1/2019	18:00:00	15.96	35.59	1.118	0.27	0.907794	4.45381	8.18
7/1/2019	18:30:00	15.97	35.59	1.132	0.25	0.84055	4.45438	8.17
7/1/2019	19:00:00	15.96	35.59	1.109	0.26	0.874172	4.45386	8.18

7/1/2019	19:30:00	15.97	35.59	1.112	0.24	0.806928	4.45472	8.17
7/1/2019	20:00:00	15.97	35.59	1.079	0.24	0.806928	4.45484	8.16
7/1/2019	20:30:00	15.97	35.59	1.093	0.28	0.941416	4.4542	8.17
7/1/2019	21:00:00	15.97	35.59	1.076	0.27	0.907794	4.45482	8.15
7/1/2019	21:30:00	15.98	35.59	1.04	0.25	0.84055	4.45517	8.14
7/1/2019	22:00:00	15.98	35.59	1.049	0.25	0.84055	4.45502	8.14
7/1/2019	22:30:00	15.97	35.59	1.034	0.45	1.51299	4.45437	8.14
7/1/2019	23:00:00	15.97	35.59	1.023	0.57	1.916454	4.45416	8.14
7/1/2019	23:30:00	15.96	35.59	1.088	1.19	4.001018	4.45355	8.14
7/2/2019	0:15:00	15.95	35.59	0.992	0.46	1.546612	4.45237	8.14
7/2/2019	0:45:00	15.95	35.59	0.987	0.52	1.748344	4.45244	8.14
7/2/2019	1:15:00	15.94	35.59	0.962	0.58	1.950076	4.45189	8.13
7/2/2019	1:45:00	15.94	35.59	0.96	0.81	2.723382	4.45177	8.13
7/3/2019	10:03:00	15.93	35.58	0.606	1.53	5.144166	4.44918	8.07
7/3/2019	10:30:00	15.93	35.58	0.58	1.25	4.20275	4.44945	8.07
7/3/2019	11:00:00	15.93	35.58	0.555	1.24	4.169128	4.44974	8.08
7/3/2019	11:30:00	15.93	35.58	0.531	1.04	3.496688	4.44935	8.07
7/3/2019	12:00:00	15.95	35.58	0.557	0.85	2.85787	4.45123	8.09
7/3/2019	12:30:00	15.95	35.58	0.535	0.79	2.656138	4.45199	8.1
7/3/2019	12:45:00	15.95	35.58	0.539	0.77	2.588894	4.45176	8.1
7/3/2019	13:00:00	15.95	35.58	0.537	0.78	2.622516	4.45142	8.09
7/3/2019	13:30:00	15.96	35.58	0.553	0.73	2.454406	4.45213	8.1
7/3/2019	14:00:00	15.96	35.58	0.56	0.72	2.420784	4.45219	8.1
7/3/2019	14:30:00	15.95	35.58	0.582	0.77	2.588894	4.4515	8.08
7/3/2019	15:00:00	15.95	35.58	0.59	0.82	2.757004	4.45154	8.08
7/3/2019	15:30:00	15.96	35.58	0.676	0.99	3.328578	4.45257	8.08
7/3/2019	16:00:00	15.97	35.58	0.635	0.87	2.925114	4.45343	8.1
7/3/2019	16:30:00	15.97	35.58	0.615	0.81	2.723382	4.45378	8.09
7/3/2019	17:00:00	16.03	35.58	0.565	0.61	2.050942	4.45907	8.08
7/3/2019	17:30:00	16.01	35.58	0.585	0.97	3.261334	4.45721	8.06
7/3/2019	18:00:00	16	35.58	0.609	0.92	3.093224	4.45696	8.05
7/3/2019	18:30:00	16.01	35.58	0.586	1.1	3.69842	4.45772	8.05
7/3/2019	19:00:00	16	35.58	0.575	0.93	3.126846	4.45645	8.04
7/3/2019	19:30:00	16.02	35.58	0.499	0.49	1.647478	4.45873	8.05

7/3/2019	20:00:00	16	35.58	0.569	0.9	3.02598	4.4562	8.03
7/3/2019	20:30:00	16.01	35.58	0.513	0.68	2.286296	4.4576	8.04
7/3/2019	21:00:00	15.99	35.58	0.547	0.78	2.622516	4.4561	8.03
7/3/2019	21:30:00	15.99	35.58	0.542	0.8	2.68976	4.45614	8.03
7/3/2019	22:00:00	16	35.58	0.553	0.83	2.790626	4.45671	8.03
7/3/2019	22:30:00	15.99	35.58	0.547	0.83	2.790626	4.45617	8.03
7/3/2019	23:00:00	16	35.58	0.527	0.79	2.656138	4.45624	8.03
7/3/2019	23:30:00	16	35.58	0.527	0.85	2.85787	4.45688	8.02
7/4/2019	0:15:00	15.99	35.58	0.537	0.85	2.85787	4.4553	8.02
7/4/2019	0:45:00	15.99	35.58	0.525	0.84	2.824248	4.45564	8.02
7/4/2019	1:15:00	15.98	35.58	0.528	0.88	2.958736	4.45521	8.02
7/4/2019	1:45:00	15.99	35.58	0.486	0.76	2.555272	4.45544	8.02
7/4/2019	2:15:00	15.99	35.58	0.48	0.66	2.219052	4.45576	8.01
7/4/2019	2:45:00	15.99	35.58	0.416	0.47	1.580234	4.45601	8.02
7/4/2019	3:15:00	15.99	35.59	0.403	0.41	1.378502	4.45561	8.02
7/4/2019	3:45:00	15.99	35.59	0.379	0.37	1.244014	4.45541	8.02
7/4/2019	4:15:00	15.98	35.58	0.47	0.71	2.387162	4.45506	8.03
7/4/2019	4:45:00	15.98	35.58	0.46	0.49	1.647478	4.45476	8.03
7/4/2019	5:15:00	15.98	35.58	0.483	0.83	2.790626	4.45449	8.03
7/4/2019	5:45:00	15.98	35.58	0.49	0.92	3.093224	4.4544	8.02
7/4/2019	6:15:00	15.97	35.58	0.516	0.9	3.02598	4.45394	8.02
7/4/2019	6:45:00	15.97	35.58	0.599	1.59	5.345898	4.45361	8
7/4/2019	7:15:00	15.97	35.58	0.587	0.99	3.328578	4.45347	8.01
7/4/2019	7:45:00	15.97	35.58	0.662	1.32	4.438104	4.45304	8.02
7/4/2019	8:15:00	15.97	35.58	0.695	1.23	4.135506	4.45293	8.02
7/4/2019	8:45:00	15.97	35.58	0.682	1.57	5.278654	4.45304	8
7/4/2019	9:15:00	15.97	35.58	0.719	1.15	3.86653	4.45289	8.03
7/4/2019	9:45:00	15.97	35.58	0.681	1.34	4.505348	4.45304	8.01
7/4/2019	10:00:00	15.97	35.58	0.769	1.03	3.463066	4.45311	8.04
7/4/2019	10:30:00	15.97	35.58	0.717	1.62	5.446764	4.45323	8.01
7/4/2019	11:00:00	15.97	35.58	0.753	1.12	3.765664	4.45319	8.03
7/4/2019	11:30:00	15.97	35.58	0.724	1.13	3.799286	4.45328	8.03
7/4/2019	12:00:00	15.97	35.58	0.731	1.17	3.933774	4.45334	8.03
7/4/2019	12:30:00	15.98	35.57	0.836	0.98	3.294956	4.45353	8.06

7/4/2019	12:45:00	15.98	35.57	0.809	1.07	3.597554	4.45343	8.04
7/4/2019	13:00:00	15.98	35.57	0.801	0.98	3.294956	4.45345	8.05
7/4/2019	13:30:00	15.98	35.57	0.819	1.05	3.53031	4.45342	8.03
7/4/2019	14:00:00	15.98	35.57	0.775	0.97	3.261334	4.45345	8.04
7/4/2019	14:30:00	15.98	35.58	0.754	1.02	3.429444	4.45356	8.02
7/4/2019	15:00:00	15.98	35.58	0.705	0.92	3.093224	4.45393	8
7/5/2019	14:39:00	16	35.57	0.523	0.7	2.35354	4.45557	7.9
7/5/2019	15:00:00	16	35.58	0.512	0.81	2.723382	4.456	7.88
7/5/2019	15:30:00	16.01	35.58	0.519	0.77	2.588894	4.45745	7.87
7/5/2019	16:00:00	15.99	35.56	0.536	0.63	2.118186	4.45323	7.93
7/5/2019	16:30:00	15.97	35.55	0.669	0.7	2.35354	4.45028	7.95
7/5/2019	17:00:00	15.95	35.54	0.828	3.11	10.456442	4.44635	8.04
7/5/2019	17:30:00	15.96	35.54	0.682	1.25	4.20275	4.44814	7.99
7/5/2019	18:00:00	16	35.57	0.621	1.22	4.101884	4.45499	7.89
7/5/2019	18:30:00	15.94	35.53	0.807	0.63	2.118186	4.44439	8.04
7/5/2019	19:00:00	15.98	35.54	0.772	0.62	2.084564	4.44979	8.01
7/5/2019	19:30:00	16.01	35.56	0.678	0.82	2.757004	4.45498	7.9
7/5/2019	20:00:00	16.02	35.57	0.574	0.92	3.093224	4.4567	7.88
7/5/2019	20:30:00	16.04	35.55	0.699	0.37	1.244014	4.45674	7.98
7/5/2019	21:00:00	16.04	35.54	0.771	0.31	1.042282	4.45585	8.02
7/5/2019	21:30:00	16.04	35.54	0.801	0.29	0.975038	4.45559	8.03
7/5/2019	22:00:00	16.04	35.54	0.812	0.29	0.975038	4.4554	8.04
7/5/2019	22:30:00	16.04	35.54	0.834	0.29	0.975038	4.45574	8.04
7/5/2019	23:00:00	16.03	35.54	0.839	0.32	1.075904	4.45504	8.04
7/5/2019	23:30:00	16.03	35.54	0.846	0.29	0.975038	4.45456	8.04
7/6/2019	0:15:00	16.02	35.54	0.872	0.31	1.042282	4.45324	8.04
7/6/2019	0:45:00	16.01	35.53	0.898	0.33	1.109526	4.45169	8.04
7/6/2019	1:15:00	15.99	35.53	0.921	0.34	1.143148	4.44939	8.04
7/6/2019	1:45:00	15.98	35.53	0.874	0.43	1.445746	4.44864	8.02
7/6/2019	2:15:00	15.97	35.53	0.933	0.41	1.378502	4.44783	8.03
7/6/2019	2:45:00	15.98	35.53	0.944	0.41	1.378502	4.44927	8.04
7/6/2019	3:15:00	15.97	35.53	0.867	0.46	1.546612	4.44781	8.03
7/6/2019	3:45:00	15.95	35.53	0.916	0.42	1.412124	4.44547	8.05
7/6/2019	4:15:00	15.96	35.53	0.933	0.37	1.244014	4.4465	8.07

7/6/2019	4:45:00	15.94	35.53	0.802	0.55	1.84921	4.44539	7.99
7/6/2019	5:15:00	15.96	35.54	0.826	0.98	3.294956	4.44799	7.93
7/6/2019	13:00:00	16.03	35.56	0.857	0.61	2.050942	4.45642	7.9
7/6/2019	13:30:00	16.03	35.56	0.886	0.59	1.983698	4.45656	7.9
7/6/2019	14:00:00	16.03	35.56	0.87	0.56	1.882832	4.45683	7.9
7/6/2019	14:30:00	16.03	35.56	0.868	0.58	1.950076	4.45697	7.89
7/6/2019	15:00:00	16.03	35.56	0.883	0.66	2.219052	4.45738	7.88
7/6/2019	15:30:00	16.03	35.56	0.933	0.77	2.588894	4.45701	7.88
7/6/2019	16:00:00	16.01	35.56	1.015	0.88	2.958736	4.45488	7.9
7/6/2019	16:30:00	16.01	35.56	1.064	1.26	4.236372	4.45492	7.88
7/6/2019	17:00:00	15.94	35.54	1.35	2.2	7.39684	4.44614	7.94
7/6/2019	17:30:00	15.83	35.52	1.667	1.3	4.37086	4.43197	8.16
7/6/2019	18:00:00	15.81	35.52	1.638	1.12	3.765664	4.42957	8.18
7/6/2019	18:30:00	15.84	35.53	1.523	0.46	1.546612	4.43461	8.27
7/6/2019	19:00:00	15.85	35.53	1.543	0.67	2.252674	4.43534	8.25
7/6/2019	19:30:00	15.85	35.53	1.483	0.52	1.748344	4.43489	8.24
7/6/2019	20:00:00	15.82	35.52	1.437	0.63	2.118186	4.43139	8.21
7/6/2019	20:30:00	15.82	35.52	1.441	0.62	2.084564	4.43205	8.21
7/6/2019	21:00:00	15.83	35.52	1.453	0.61	2.050942	4.43265	8.22
7/6/2019	21:30:00	15.9	35.54	1.306	0.44	1.479368	4.44086	8.2
7/6/2019	22:00:00	15.95	35.54	1.225	0.44	1.479368	4.44707	8.11
7/6/2019	22:30:00	15.92	35.54	1.285	0.41	1.378502	4.44319	8.16
7/6/2019	23:00:00	15.92	35.54	1.229	0.42	1.412124	4.44397	8.14
7/6/2019	23:30:00	15.95	35.54	1.11	0.39	1.311258	4.44757	8.1
7/7/2019	0:15:00	15.96	35.55	1.149	0.37	1.244014	4.44846	8.08
7/7/2019	0:45:00	15.96	35.55	1.076	0.38	1.277636	4.44809	8.1
7/7/2019	1:15:00	15.96	35.55	1.162	0.36	1.210392	4.44863	8.11
7/7/2019	1:45:00	15.98	35.55	1.122	0.34	1.143148	4.44995	8.11
7/7/2019	2:15:00	15.92	35.54	1.293	0.36	1.210392	4.44302	8.16
7/7/2019	2:45:00	15.81	35.51	1.532	0.46	1.546612	4.42932	8.24
7/7/2019	3:15:00	15.85	35.51	1.314	0.36	1.210392	4.43402	8.19
7/7/2019	3:45:00	15.92	35.54	1.337	0.39	1.311258	4.44368	8.15
7/7/2019	4:15:00	15.91	35.53	1.341	0.4	1.34488	4.44178	8.16
7/7/2019	4:45:00	15.94	35.54	1.3	0.36	1.210392	4.44554	8.12

7/7/2019	5:15:00	15.92	35.53	1.27	0.39	1.311258	4.44283	8.09
7/7/2019	5:45:00	15.91	35.53	1.085	0.35	1.17677	4.44139	8.06
7/7/2019	6:15:00	15.87	35.52	1.071	0.36	1.210392	4.43696	8.06
7/7/2019	6:45:00	15.92	35.54	1.238	0.44	1.479368	4.44311	8.05
7/7/2019	7:15:00	15.9	35.54	1.248	0.49	1.647478	4.44114	8.06
7/7/2019	7:45:00	15.88	35.53	1.299	0.53	1.781966	4.43919	8.07
7/7/2019	8:15:00	15.85	35.54	1.321	0.43	1.445746	4.43659	8.07
7/7/2019	8:45:00	15.82	35.52	1.142	0.31	1.042282	4.43212	8.04
7/7/2019	9:15:00	15.89	35.54	1.188	0.34	1.143148	4.44075	8.03
7/7/2019	9:45:00	15.86	35.54	1.208	0.42	1.412124	4.43694	8.04
7/7/2019	10:00:00	15.86	35.54	1.25	0.54	1.815588	4.43717	8.04
7/7/2019	10:30:00	15.85	35.54	1.316	0.43	1.445746	4.43665	8.04
7/7/2019	11:00:00	15.85	35.54	1.255	0.39	1.311258	4.43673	8.04
7/7/2019	11:30:00	15.86	35.54	1.263	0.37	1.244014	4.43696	8.05
7/7/2019	12:00:00	15.85	35.53	1.387	0.36	1.210392	4.43626	8.06
7/7/2019	12:30:00	15.84	35.53	1.385	0.34	1.143148	4.43415	8.08
7/7/2019	12:45:00	15.83	35.53	1.444	0.32	1.075904	4.43277	8.1
7/7/2019	13:00:00	15.84	35.53	1.424	0.35	1.17677	4.43496	8.1
7/7/2019	13:30:00	15.85	35.53	1.527	0.32	1.075904	4.43643	8.09
7/7/2019	14:00:00	15.82	35.53	1.637	0.38	1.277636	4.4317	8.1
7/7/2019	14:30:00	15.75	35.51	1.963	0.39	1.311258	4.42305	8.12
7/7/2019	15:00:00	15.75	35.51	1.886	0.37	1.244014	4.42324	8.13
7/7/2019	15:30:00	15.75	35.51	2.022	0.33	1.109526	4.42334	8.14
7/7/2019	16:00:00	15.73	35.51	2.084	0.35	1.17677	4.42104	8.15
7/7/2019	16:30:00	15.73	35.51	1.878	0.3	1.00866	4.42076	8.15
7/7/2019	17:00:00	15.74	35.51	1.846	0.31	1.042282	4.42298	8.15
7/7/2019	17:30:00	15.79	35.53	1.705	0.31	1.042282	4.42899	8.13
7/7/2019	18:00:00	15.8	35.53	1.477	0.3	1.00866	4.43098	8.13
7/7/2019	18:30:00	15.8	35.53	1.446	0.32	1.075904	4.43036	8.14
7/7/2019	19:00:00	15.8	35.53	1.558	0.33	1.109526	4.43147	8.17
7/7/2019	19:30:00	15.8	35.54	1.532	0.3	1.00866	4.43127	8.16
7/7/2019	20:00:00	15.78	35.54	1.442	0.42	1.412124	4.42923	8.13
7/7/2019	20:30:00	15.77	35.54	1.431	0.53	1.781966	4.42786	8.1
7/7/2019	21:00:00	15.77	35.53	1.511	0.45	1.51299	4.42822	8.14

7/7/2019	21:30:00	15.77	35.53	1.444	0.49	1.647478	4.42768	8.12
7/7/2019	22:00:00	15.76	35.53	1.382	0.51	1.714722	4.42703	8.09
7/7/2019	22:30:00	15.75	35.53	1.369	0.48	1.613856	4.42648	8.08
7/7/2019	23:00:00	15.75	35.53	1.371	0.47	1.580234	4.4255	8.09
7/7/2019	23:30:00	15.76	35.53	1.48	0.38	1.277636	4.4267	8.13
7/8/2019	0:15:00	15.75	35.53	1.44	0.42	1.412124	4.42524	8.12
7/8/2019	0:45:00	15.78	35.52	1.466	0.31	1.042282	4.4275	8.23
7/8/2019	1:15:00	15.72	35.5	1.528	0.3	1.00866	4.42001	8.28
7/8/2019	1:45:00	15.7	35.51	1.447	0.34	1.143148	4.41839	8.24
7/8/2019	2:15:00	15.75	35.52	1.453	0.37	1.244014	4.42429	8.2
7/8/2019	2:45:00	15.72	35.51	1.464	0.57	1.916454	4.42081	8.17
7/8/2019	3:15:00	15.7	35.51	1.554	0.56	1.882832	4.41803	8.18
7/8/2019	3:45:00	15.69	35.51	1.587	0.76	2.555272	4.41674	8.18
7/8/2019	4:15:00	15.68	35.51	1.771	1.11	3.732042	4.4161	8.18
7/8/2019	4:45:00	15.7	35.51	1.623	0.46	1.546612	4.41877	8.19
7/8/2019	5:15:00	15.69	35.51	1.784	0.81	2.723382	4.4167	8.17
7/8/2019	5:45:00	15.69	35.51	1.628	0.49	1.647478	4.41771	8.18
7/8/2019	6:15:00	15.7	35.51	1.807	0.53	1.781966	4.41815	8.17
7/8/2019	6:45:00	15.7	35.51	1.762	0.44	1.479368	4.41808	8.19
7/8/2019	7:15:00	15.67	35.5	1.773	0.4	1.34488	4.41407	8.2
7/8/2019	7:45:00	15.64	35.5	2.101	0.41	1.378502	4.41138	8.21
7/8/2019	8:15:00	15.67	35.51	2.243	0.37	1.244014	4.41474	8.21
7/8/2019	8:45:00	15.62	35.49	2.463	0.37	1.244014	4.40865	8.26
7/8/2019	9:15:00	15.56	35.48	2.667	0.46	1.546612	4.40158	8.25
7/8/2019	9:45:00	15.57	35.49	2.389	0.47	1.580234	4.40243	8.23
7/8/2019	10:00:00	15.58	35.49	2.326	0.44	1.479368	4.40372	8.23
7/8/2019	10:30:00	15.73	35.52	2.245	0.41	1.378502	4.42276	8.18
7/8/2019	11:00:00	15.71	35.52	2.236	0.44	1.479368	4.41987	8.19
7/8/2019	11:30:00	15.71	35.52	2.292	0.42	1.412124	4.42078	8.19
7/8/2019	12:00:00	15.74	35.53	2.316	0.41	1.378502	4.42407	8.2
7/8/2019	12:30:00	15.74	35.53	2.31	0.4	1.34488	4.4245	8.2
7/8/2019	12:45:00	15.75	35.53	2.308	0.39	1.311258	4.42527	8.2
7/8/2019	13:00:00	15.72	35.52	2.387	0.41	1.378502	4.42188	8.2
7/8/2019	13:30:00	15.77	35.53	2.636	0.39	1.311258	4.42751	8.21

7/8/2019	14:00:00	15.71	35.52	2.543	0.4	1.34488	4.42013	8.22
7/8/2019	14:30:00	15.68	35.51	2.776	0.41	1.378502	4.41584	8.26
7/8/2019	15:00:00	15.66	35.5	3.023	0.41	1.378502	4.41371	8.3
7/8/2019	15:30:00	15.65	35.5	3.182	0.43	1.445746	4.41179	8.37
7/8/2019	16:00:00	15.66	35.5	3.353	0.39	1.311258	4.41295	8.4
7/8/2019	16:30:00	15.66	35.5	3.23	0.39	1.311258	4.41262	8.41
7/8/2019	17:00:00	15.66	35.5	3.303	0.41	1.378502	4.41358	8.43
7/8/2019	17:30:00	15.71	35.52	2.366	0.39	1.311258	4.42015	8.26
7/8/2019	18:00:00	15.71	35.52	2.332	0.39	1.311258	4.42021	8.27
7/8/2019	18:30:00	15.7	35.51	2.037	0.41	1.378502	4.41923	8.2
7/8/2019	19:00:00	15.71	35.51	2.088	0.42	1.412124	4.42001	8.27
7/8/2019	19:30:00	15.81	35.53	1.832	0.36	1.210392	4.43237	8.23
7/8/2019	20:00:00	15.78	35.53	1.946	0.35	1.17677	4.428	8.24
7/8/2019	20:30:00	15.84	35.54	1.659	0.35	1.17677	4.43525	8.2
7/8/2019	21:00:00	15.81	35.53	1.544	0.36	1.210392	4.43102	8.25
7/8/2019	21:30:00	15.82	35.53	1.554	0.34	1.143148	4.43251	8.21
7/8/2019	22:00:00	15.87	35.54	1.65	0.33	1.109526	4.43861	8.16
7/8/2019	22:30:00	15.88	35.54	1.434	0.33	1.109526	4.44038	8.07
7/8/2019	23:00:00	15.87	35.54	1.445	0.33	1.109526	4.43834	8.08
7/8/2019	23:30:00	15.88	35.54	1.506	0.34	1.143148	4.43996	8.11
7/9/2019	0:15:00	15.88	35.54	1.536	0.38	1.277636	4.43968	8.12
7/9/2019	0:45:00	15.88	35.54	1.517	0.32	1.075904	4.43932	8.11
7/9/2019	1:15:00	15.87	35.54	1.416	0.34	1.143148	4.43837	8.1
7/9/2019	1:45:00	15.87	35.53	1.432	0.32	1.075904	4.43751	8.1
7/9/2019	2:15:00	15.86	35.53	1.502	0.34	1.143148	4.43678	8.1
7/9/2019	2:45:00	15.83	35.54	1.608	0.38	1.277636	4.4345	8.13
7/9/2019	3:15:00	15.81	35.53	1.64	0.33	1.109526	4.43129	8.16
7/9/2019	3:45:00	15.73	35.52	2.042	0.49	1.647478	4.42243	8.24
7/9/2019	4:15:00	15.72	35.52	2.03	0.5	1.6811	4.42149	8.25
7/9/2019	4:45:00	15.71	35.52	2.128	0.43	1.445746	4.4203	8.25
7/9/2019	5:15:00	15.7	35.52	2.182	0.39	1.311258	4.41936	8.26
7/9/2019	5:45:00	15.69	35.52	2.206	0.4	1.34488	4.41804	8.27
7/9/2019	6:15:00	15.75	35.53	2.038	0.35	1.17677	4.4245	8.2
7/9/2019	6:45:00	15.77	35.53	1.826	0.35	1.17677	4.42768	8.16

7/9/2019	7:15:00	15.78	35.53	1.988	0.38	1.277636	4.42831	8.16
7/9/2019	7:45:00	15.85	35.54	1.625	0.33	1.109526	4.4362	8.09
7/9/2019	8:15:00	15.84	35.54	1.684	0.33	1.109526	4.4355	8.1
7/9/2019	8:45:00	15.85	35.54	1.588	0.35	1.17677	4.43641	8.08
7/9/2019	9:15:00	15.89	35.54	1.245	0.32	1.075904	4.44037	8.02
7/9/2019	9:45:00	15.89	35.54	1.185	0.31	1.042282	4.44142	8.01
7/9/2019	10:00:00	15.83	35.54	1.54	0.33	1.109526	4.43365	8.05
7/9/2019	10:30:00	15.8	35.54	1.301	0.32	1.075904	4.43157	8.05
7/9/2019	11:00:00	15.88	35.55	1.448	0.29	0.975038	4.44035	8.09
7/9/2019	11:30:00	15.89	35.55	1.733	0.32	1.075904	4.44107	8.1
7/9/2019	12:00:00	15.89	35.55	1.724	0.3	1.00866	4.44115	8.1
7/9/2019	12:30:00	15.89	35.55	1.799	0.28	0.941416	4.44105	8.09
7/9/2019	12:45:00	15.89	35.55	1.816	0.3	1.00866	4.44107	8.09
7/9/2019	13:00:00	15.89	35.55	1.912	0.27	0.907794	4.44144	8.09
7/9/2019	13:30:00	15.9	35.55	1.881	0.29	0.975038	4.44243	8.12
7/9/2019	14:00:00	15.91	35.55	1.846	0.28	0.941416	4.44304	8.14
7/9/2019	14:30:00	15.89	35.55	1.924	0.3	1.00866	4.44186	8.11
7/9/2019	15:00:00	15.88	35.54	2.017	0.29	0.975038	4.44048	8.11
7/9/2019	15:30:00	15.85	35.54	1.97	0.34	1.143148	4.43716	8.13
7/9/2019	16:00:00	15.87	35.54	2.005	0.31	1.042282	4.43905	8.13
7/9/2019	16:30:00	15.84	35.54	2.184	0.34	1.143148	4.43514	8.14
7/9/2019	17:00:00	15.86	35.54	2.08	0.29	0.975038	4.43809	8.13
7/9/2019	17:30:00	15.84	35.54	1.998	0.29	0.975038	4.43496	8.13
7/9/2019	18:00:00	15.85	35.54	1.757	0.29	0.975038	4.437	8.11
7/9/2019	18:30:00	15.85	35.54	1.613	0.27	0.907794	4.43721	8.1
7/9/2019	19:00:00	15.86	35.54	1.473	0.29	0.975038	4.43738	8.08
7/9/2019	19:30:00	15.9	35.55	1.313	0.29	0.975038	4.44232	8.04
7/9/2019	20:00:00	15.88	35.55	1.263	0.31	1.042282	4.44073	8.04
7/9/2019	20:30:00	15.88	35.54	1.361	0.31	1.042282	4.43996	8.08
7/9/2019	21:00:00	15.88	35.54	1.405	0.32	1.075904	4.44014	8.07
7/9/2019	21:30:00	15.88	35.54	1.396	0.32	1.075904	4.43999	8.08
7/9/2019	22:00:00	15.88	35.54	1.519	0.34	1.143148	4.43967	8.13
7/9/2019	22:30:00	15.86	35.54	1.519	0.33	1.109526	4.4379	8.15
7/9/2019	23:00:00	15.86	35.54	1.573	0.31	1.042282	4.4379	8.17

7/9/2019	23:30:00	15.83	35.54	1.65	0.32	1.075904	4.43403	8.19
7/10/2019	0:15:00	15.78	35.54	1.754	0.35	1.17677	4.42994	8.2
7/10/2019	0:45:00	15.78	35.54	1.918	0.33	1.109526	4.42957	8.25
7/10/2019	1:15:00	15.78	35.54	1.965	0.34	1.143148	4.42986	8.26
7/10/2019	1:45:00	15.73	35.54	1.991	0.42	1.412124	4.4243	8.23
7/10/2019	2:15:00	15.71	35.54	1.998	0.41	1.378502	4.42275	8.22
7/10/2019	2:45:00	15.71	35.54	1.895	0.44	1.479368	4.42222	8.21
7/10/2019	3:15:00	15.72	35.54	1.99	0.4	1.34488	4.42292	8.22
7/10/2019	3:45:00	15.73	35.54	1.961	0.38	1.277636	4.42453	8.23
7/10/2019	11:46:00	15.69	35.54	2.426	0.4	1.34488	4.42059	8.27
7/10/2019	12:00:00	15.7	35.54	2.639	0.38	1.277636	4.4213	8.29
7/10/2019	12:30:00	15.69	35.54	2.604	0.38	1.277636	4.42069	8.28
7/10/2019	12:45:00	15.7	35.54	2.635	0.39	1.311258	4.42135	8.27
7/10/2019	13:00:00	15.69	35.54	2.59	0.38	1.277636	4.4206	8.26
7/10/2019	13:30:00	15.71	35.54	2.515	0.38	1.277636	4.42202	8.27
7/10/2019	14:00:00	15.7	35.54	2.736	0.39	1.311258	4.42171	8.27
7/10/2019	14:30:00	15.72	35.54	2.806	0.39	1.311258	4.42316	8.25
7/10/2019	15:00:00	15.71	35.54	2.704	0.38	1.277636	4.42286	8.25
7/10/2019	15:30:00	15.72	35.54	2.591	0.39	1.311258	4.42371	8.26
7/10/2019	16:00:00	15.75	35.54	2.726	0.37	1.244014	4.42713	8.26
7/10/2019	16:30:00	15.73	35.54	2.352	0.39	1.311258	4.42452	8.24
7/10/2019	17:00:00	15.79	35.54	2.491	0.34	1.143148	4.43109	8.32
7/10/2019	17:30:00	15.73	35.54	2.092	0.38	1.277636	4.42492	8.24
7/10/2019	18:00:00	15.78	35.54	2.306	0.35	1.17677	4.43045	8.3
7/10/2019	18:30:00	15.76	35.54	1.889	0.38	1.277636	4.42761	8.24
7/10/2019	19:00:00	15.75	35.54	1.713	0.37	1.244014	4.42656	8.2
7/10/2019	19:30:00	15.79	35.54	1.746	0.35	1.17677	4.43093	8.26
7/10/2019	20:00:00	15.77	35.54	1.408	0.36	1.210392	4.42928	8.2
7/10/2019	20:30:00	15.77	35.54	1.413	0.35	1.17677	4.42889	8.17
7/10/2019	21:00:00	15.77	35.54	1.317	0.36	1.210392	4.42892	8.16
7/10/2019	21:30:00	15.8	35.54	1.481	0.33	1.109526	4.43219	8.23
7/10/2019	22:00:00	15.79	35.54	1.504	0.34	1.143148	4.4306	8.2
7/10/2019	22:30:00	15.79	35.54	1.395	0.35	1.17677	4.43134	8.2
7/10/2019	23:00:00	15.82	35.55	1.542	0.33	1.109526	4.43434	8.19

7/10/2019	23:30:00	15.83	35.55	1.585	0.32	1.075904	4.43536	8.21
7/11/2019	0:15:00	15.87	35.55	2.08	0.28	0.941416	4.44016	8.29
7/11/2019	0:45:00	15.84	35.55	1.714	0.31	1.042282	4.43673	8.22
7/11/2019	1:15:00	15.86	35.55	1.739	0.29	0.975038	4.43941	8.22
7/11/2019	1:45:00	15.88	35.55	1.681	0.27	0.907794	4.4417	8.18
7/11/2019	2:15:00	15.88	35.55	1.586	0.27	0.907794	4.44111	8.16
7/11/2019	2:45:00	15.88	35.55	1.381	0.28	0.941416	4.44152	8.11
7/11/2019	3:15:00	15.9	35.56	1.375	0.24	0.806928	4.44352	8.1
7/11/2019	3:45:00	15.88	35.56	1.332	0.26	0.874172	4.44166	8.08
7/11/2019	4:15:00	15.89	35.56	1.261	0.26	0.874172	4.44247	8.08
7/11/2019	4:45:00	15.88	35.56	1.241	0.24	0.806928	4.44221	8.06
7/11/2019	5:15:00	15.89	35.56	1.218	0.24	0.806928	4.44241	8.06
7/11/2019	5:45:00	15.88	35.56	1.163	0.26	0.874172	4.4419	8.05
7/11/2019	6:15:00	15.88	35.56	1.089	0.25	0.84055	4.44175	8.05
7/11/2019	6:45:00	15.87	35.56	1.07	0.28	0.941416	4.44082	8.04
7/11/2019	7:15:00	15.88	35.56	1.06	0.26	0.874172	4.44212	8.04
7/11/2019	7:45:00	15.89	35.56	1.037	0.25	0.84055	4.4426	8.03
7/11/2019	8:15:00	15.89	35.56	0.949	0.25	0.84055	4.44244	8.02
7/11/2019	8:45:00	15.88	35.56	0.959	0.26	0.874172	4.44179	8.04
7/11/2019	9:15:00	15.88	35.56	0.927	0.26	0.874172	4.44163	8.04
7/11/2019	9:45:00	15.87	35.56	0.957	0.26	0.874172	4.44057	8.06
7/11/2019	10:00:00	15.85	35.55	1.071	0.29	0.975038	4.43817	8.12
7/11/2019	10:30:00	15.83	35.55	1.478	0.29	0.975038	4.43622	8.21
7/11/2019	11:00:00	15.82	35.55	1.524	0.27	0.907794	4.43502	8.26
7/11/2019	11:30:00	15.82	35.55	1.458	0.29	0.975038	4.43492	8.25
7/11/2019	12:00:00	15.82	35.55	1.528	0.29	0.975038	4.43476	8.26
7/11/2019	12:30:00	15.82	35.55	1.567	0.3	1.00866	4.43472	8.27
7/11/2019	12:45:00	15.83	35.55	1.64	0.28	0.941416	4.43511	8.29
7/11/2019	13:00:00	15.83	35.55	1.738	0.27	0.907794	4.43602	8.31
7/11/2019	13:30:00	15.83	35.55	1.8	0.29	0.975038	4.43558	8.29
7/11/2019	14:00:00	15.82	35.55	1.891	0.3	1.00866	4.43444	8.36
7/11/2019	14:30:00	15.83	35.55	1.651	0.29	0.975038	4.43614	8.28
7/11/2019	15:00:00	15.84	35.55	1.761	0.28	0.941416	4.43647	8.3
7/11/2019	15:30:00	15.84	35.55	1.771	0.31	1.042282	4.43716	8.29

7/11/2019	16:00:00	15.85	35.55	1.645	0.27	0.907794	4.43793	8.27
7/11/2019	16:30:00	15.86	35.55	1.676	0.3	1.00866	4.43864	8.25
7/11/2019	17:00:00	15.86	35.55	1.716	0.29	0.975038	4.43907	8.26
7/11/2019	17:30:00	15.86	35.55	1.575	0.28	0.941416	4.43955	8.21
7/11/2019	18:00:00	15.87	35.55	1.544	0.31	1.042282	4.43975	8.2
7/11/2019	18:30:00	15.87	35.55	1.471	0.28	0.941416	4.43998	8.18
7/11/2019	19:00:00	15.87	35.55	1.558	0.37	1.244014	4.44037	8.17
7/11/2019	19:30:00	15.87	35.55	1.512	0.27	0.907794	4.44028	8.17
7/11/2019	20:00:00	15.87	35.55	1.556	0.32	1.075904	4.44046	8.19
7/11/2019	20:30:00	15.86	35.55	1.627	0.3	1.00866	4.43941	8.21
7/11/2019	21:00:00	15.85	35.55	1.569	0.29	0.975038	4.43811	8.29
7/11/2019	21:30:00	15.83	35.55	1.612	0.31	1.042282	4.43554	8.25
7/11/2019	22:00:00	15.82	35.55	1.566	0.29	0.975038	4.43388	8.29
7/11/2019	22:30:00	15.76	35.53	1.673	0.35	1.17677	4.42649	8.37
7/11/2019	23:00:00	15.7	35.52	1.751	0.34	1.143148	4.42005	8.42
7/11/2019	23:30:00	15.67	35.51	1.82	0.36	1.210392	4.41604	8.46
7/12/2019	0:15:00	15.49	35.48	1.886	0.49	1.647478	4.39359	8.59
7/12/2019	0:45:00	15.44	35.47	1.767	0.57	1.916454	4.38801	8.55
7/12/2019	1:15:00	15.44	35.48	1.702	0.62	2.084564	4.38893	8.49
7/12/2019	1:45:00	15.51	35.5	1.8	0.52	1.748344	4.39825	8.5
7/12/2019	2:15:00	15.51	35.5	1.783	0.55	1.84921	4.39863	8.49
7/12/2019	2:45:00	15.56	35.52	2.074	0.46	1.546612	4.40558	8.59
7/12/2019	3:15:00	15.48	35.49	1.65	0.58	1.950076	4.39436	8.43
7/12/2019	3:45:00	15.47	35.49	1.698	0.56	1.882832	4.39296	8.46
7/12/2019	4:15:00	15.54	35.51	1.884	0.47	1.580234	4.40284	8.52
7/12/2019	4:45:00	15.57	35.52	1.872	0.45	1.51299	4.40576	8.51
7/12/2019	5:15:00	15.55	35.51	1.797	0.45	1.51299	4.40376	8.49
7/12/2019	5:45:00	15.56	35.5	1.75	0.46	1.546612	4.40321	8.5
7/12/2019	6:15:00	15.61	35.51	1.721	0.41	1.378502	4.40998	8.5
7/12/2019	6:45:00	15.62	35.5	1.635	0.4	1.34488	4.41002	8.47
7/12/2019	7:15:00	15.66	35.51	1.608	0.37	1.244014	4.41466	8.45
7/12/2019	7:45:00	15.65	35.51	1.624	0.37	1.244014	4.4127	8.45
7/12/2019	8:15:00	15.67	35.51	1.592	0.39	1.311258	4.41547	8.43
7/12/2019	8:45:00	15.7	35.52	1.49	0.33	1.109526	4.4193	8.41

7/12/2019	9:15:00	15.68	35.52	1.495	0.34	1.143148	4.41789	8.42
7/12/2019	9:45:00	15.66	35.52	1.546	0.37	1.244014	4.4157	8.44
7/12/2019	10:00:00	15.64	35.52	1.559	0.36	1.210392	4.41333	8.46
7/12/2019	10:30:00	15.62	35.52	1.577	0.37	1.244014	4.41115	8.48
7/12/2019	11:00:00	15.63	35.52	1.582	0.37	1.244014	4.4122	8.45
7/12/2019	11:30:00	15.59	35.51	1.643	0.38	1.277636	4.408	8.46
7/12/2019	12:00:00	15.6	35.52	1.62	0.39	1.311258	4.4086	8.44
7/12/2019	12:30:00	15.58	35.51	1.652	0.41	1.378502	4.40637	8.44
7/12/2019	12:45:00	15.58	35.51	1.736	0.4	1.34488	4.40605	8.47
7/12/2019	13:00:00	15.56	35.51	1.672	0.39	1.311258	4.40498	8.46
7/12/2019	13:30:00	15.55	35.51	1.677	0.45	1.51299	4.40288	8.44
7/12/2019	14:00:00	15.54	35.51	1.726	0.43	1.445746	4.40263	8.46
7/12/2019	14:30:00	15.53	35.51	1.802	0.44	1.479368	4.40146	8.46
7/12/2019	15:00:00	15.53	35.51	1.595	0.46	1.546612	4.40134	8.44
7/12/2019	15:30:00	15.54	35.5	1.742	0.42	1.412124	4.40163	8.47
7/12/2019	16:00:00	15.55	35.51	1.721	0.42	1.412124	4.40282	8.46
7/12/2019	16:30:00	15.55	35.51	1.736	0.43	1.445746	4.40333	8.45
7/12/2019	17:00:00	15.57	35.51	1.694	0.41	1.378502	4.40512	8.44
7/12/2019	17:30:00	15.62	35.51	1.679	0.37	1.244014	4.41046	8.42
7/12/2019	18:00:00	15.62	35.52	1.761	0.37	1.244014	4.41097	8.42
7/12/2019	18:30:00	15.65	35.51	1.508	0.35	1.17677	4.41367	8.39
7/12/2019	19:00:00	15.65	35.51	1.473	0.36	1.210392	4.41389	8.38
7/12/2019	19:30:00	15.6	35.5	1.405	0.38	1.277636	4.40676	8.4
7/12/2019	20:00:00	15.6	35.5	1.299	0.37	1.244014	4.40765	8.38
7/12/2019	20:30:00	15.66	35.51	1.398	0.32	1.075904	4.41471	8.37
7/12/2019	21:00:00	15.63	35.51	1.316	0.37	1.244014	4.41154	8.37
7/12/2019	21:30:00	15.65	35.51	1.388	0.33	1.109526	4.41415	8.37
7/12/2019	22:00:00	15.63	35.51	1.501	0.36	1.210392	4.41196	8.38
7/12/2019	22:30:00	15.61	35.51	1.661	0.37	1.244014	4.40952	8.42
7/12/2019	23:00:00	15.55	35.5	1.717	0.41	1.378502	4.40239	8.47
7/12/2019	23:30:00	15.56	35.49	1.888	0.38	1.277636	4.40221	8.52
7/13/2019	0:15:00	15.59	35.49	1.882	0.37	1.244014	4.40469	8.51
7/13/2019	0:45:00	15.59	35.49	1.863	0.34	1.143148	4.40477	8.5
7/13/2019	1:15:00	15.61	35.49	1.771	0.33	1.109526	4.4072	8.45

7/13/2019	1:45:00	15.63	35.5	1.627	0.32	1.075904	4.41026	8.38
7/13/2019	2:15:00	15.62	35.5	1.573	0.31	1.042282	4.40924	8.37
7/13/2019	2:45:00	15.59	35.49	1.622	0.31	1.042282	4.4052	8.38
7/13/2019	3:15:00	15.58	35.49	1.54	0.31	1.042282	4.40426	8.38
7/13/2019	11:49:00	15.65	35.52	1.111	0.27	0.907794	4.41359	8.25
7/13/2019	12:00:00	15.64	35.51	1.237	0.3	1.00866	4.41311	8.26
7/13/2019	12:30:00	15.59	35.5	1.425	0.33	1.109526	4.40616	8.31
7/13/2019	12:45:00	15.58	35.5	1.4	0.35	1.17677	4.40546	8.31
7/13/2019	13:00:00	15.62	35.51	1.264	0.31	1.042282	4.40975	8.29
7/13/2019	13:30:00	15.63	35.51	1.355	0.3	1.00866	4.41101	8.31
7/13/2019	14:00:00	15.61	35.5	1.575	0.3	1.00866	4.40813	8.33
7/13/2019	14:30:00	15.62	35.51	1.366	0.3	1.00866	4.40991	8.31
7/13/2019	15:00:00	15.66	35.52	1.382	0.28	0.941416	4.41534	8.29
7/13/2019	15:30:00	15.68	35.52	1.369	0.27	0.907794	4.4169	8.28
7/13/2019	16:00:00	15.65	35.51	1.487	0.3	1.00866	4.4142	8.28
7/13/2019	16:30:00	15.73	35.53	1.327	0.26	0.874172	4.42339	8.22
7/13/2019	17:00:00	15.72	35.53	1.189	0.24	0.806928	4.42261	8.22
7/13/2019	17:30:00	15.76	35.54	1.114	0.21	0.706062	4.42784	8.17
7/13/2019	18:00:00	15.67	35.52	1.474	0.24	0.806928	4.41676	8.25
7/13/2019	18:30:00	15.73	35.53	1.122	0.21	0.706062	4.42396	8.19
7/13/2019	19:00:00	15.78	35.54	1.017	0.2	0.67244	4.43031	8.14
7/13/2019	19:30:00	15.82	35.55	0.93	0.19	0.638818	4.43494	8.11
7/13/2019	20:00:00	15.85	35.55	0.892	0.17	0.571574	4.43785	8.09
7/13/2019	20:30:00	15.71	35.53	1.179	0.31	1.042282	4.4215	8.16
7/13/2019	21:00:00	15.83	35.55	0.848	0.19	0.638818	4.43579	8.1
7/13/2019	21:30:00	15.84	35.55	0.826	0.18	0.605196	4.43718	8.11
7/13/2019	22:00:00	15.78	35.54	0.929	0.24	0.806928	4.42969	8.13
7/13/2019	22:30:00	15.8	35.55	0.843	0.19	0.638818	4.4327	8.11
7/13/2019	23:00:00	15.84	35.55	0.757	0.17	0.571574	4.43731	8.11
7/13/2019	23:30:00	15.79	35.54	0.93	0.24	0.806928	4.43157	8.12
7/14/2019	0:15:00	15.79	35.54	0.832	0.21	0.706062	4.4315	8.11
7/14/2019	0:45:00	15.8	35.55	0.779	0.19	0.638818	4.43267	8.11
7/14/2019	1:15:00	15.77	35.54	0.85	0.21	0.706062	4.42879	8.12
7/14/2019	1:45:00	15.79	35.54	0.789	0.19	0.638818	4.43138	8.14

7/14/2019	2:15:00	15.79	35.54	0.841	0.19	0.638818	4.43021	8.15
7/14/2019	2:45:00	15.78	35.54	0.824	0.19	0.638818	4.42963	8.15
7/14/2019	3:15:00	15.77	35.54	0.838	0.2	0.67244	4.42823	8.16
7/14/2019	3:45:00	15.77	35.54	0.839	0.22	0.739684	4.42774	8.17
7/14/2019	4:15:00	15.75	35.53	0.858	0.21	0.706062	4.42615	8.17
7/14/2019	4:45:00	15.75	35.53	0.846	0.21	0.706062	4.42558	8.19
7/14/2019	5:15:00	15.73	35.53	0.88	0.23	0.773306	4.42341	8.17
7/14/2019	5:45:00	15.73	35.53	0.853	0.22	0.739684	4.42346	8.19
7/14/2019	6:15:00	15.73	35.53	0.87	0.22	0.739684	4.42281	8.19
7/14/2019	6:45:00	15.73	35.53	0.854	0.23	0.773306	4.4236	8.16
7/14/2019	7:15:00	15.73	35.53	0.846	0.21	0.706062	4.42298	8.17
7/14/2019	7:45:00	15.73	35.53	0.794	0.23	0.773306	4.42393	8.16
7/14/2019	8:15:00	15.74	35.53	0.769	0.21	0.706062	4.42405	8.16
7/14/2019	8:45:00	15.74	35.53	0.743	0.23	0.773306	4.42408	8.16
7/14/2019	9:15:00	15.72	35.53	0.781	0.22	0.739684	4.42214	8.18
7/14/2019	9:45:00	15.72	35.53	0.782	0.22	0.739684	4.42173	8.18
7/14/2019	10:00:00	15.72	35.53	0.812	0.22	0.739684	4.42164	8.17
7/14/2019	10:30:00	15.7	35.52	0.932	0.23	0.773306	4.42009	8.2
7/14/2019	11:00:00	15.7	35.52	0.854	0.24	0.806928	4.41928	8.2
7/14/2019	11:30:00	15.69	35.52	0.904	0.24	0.806928	4.4179	8.21
7/14/2019	12:00:00	15.67	35.51	0.949	0.24	0.806928	4.41508	8.24
7/14/2019	12:30:00	15.66	35.51	0.973	0.25	0.84055	4.41462	8.23
7/14/2019	12:45:00	15.65	35.5	0.979	0.26	0.874172	4.41235	8.24
7/14/2019	13:00:00	15.64	35.5	1.025	0.27	0.907794	4.41097	8.24
7/14/2019	13:30:00	15.62	35.49	1.063	0.29	0.975038	4.40835	8.25
7/14/2019	14:00:00	15.61	35.49	1.062	0.32	1.075904	4.40746	8.25
7/14/2019	14:30:00	15.6	35.49	1.093	0.29	0.975038	4.40596	8.25
7/14/2019	15:00:00	15.59	35.48	1.211	0.3	1.00866	4.40348	8.27
7/14/2019	15:30:00	15.59	35.48	1.094	0.3	1.00866	4.40399	8.26
7/14/2019	16:00:00	15.58	35.48	1.166	0.31	1.042282	4.40252	8.27
7/14/2019	16:30:00	15.58	35.48	1.106	0.31	1.042282	4.40294	8.26
7/14/2019	17:00:00	15.58	35.48	1.07	0.32	1.075904	4.40301	8.25
7/14/2019	17:30:00	15.55	35.48	0.976	0.37	1.244014	4.40058	8.18
7/14/2019	18:00:00	15.54	35.48	0.993	0.38	1.277636	4.39958	8.2

7/14/2019	18:30:00	15.56	35.48	1.042	0.34	1.143148	4.40108	8.23
7/15/2019	12:11:00	15.4	35.48	1.001	0.37	1.244014	4.38497	8.17
7/15/2019	12:30:00	15.4	35.48	0.959	0.35	1.17677	4.38538	8.16
7/15/2019	12:45:00	15.4	35.48	0.981	0.36	1.210392	4.3848	8.16
7/15/2019	13:00:00	15.41	35.48	1.052	0.34	1.143148	4.38623	8.19
7/15/2019	13:30:00	15.4	35.48	0.99	0.35	1.17677	4.38542	8.18
7/15/2019	14:00:00	15.41	35.48	1.041	0.34	1.143148	4.3855	8.16
7/15/2019	14:30:00	15.41	35.48	1.141	0.45	1.51299	4.38667	8.14
7/15/2019	15:00:00	15.42	35.48	1.234	0.43	1.445746	4.38715	8.16
7/15/2019	15:30:00	15.42	35.48	1.268	0.43	1.445746	4.38708	8.14
7/15/2019	16:00:00	15.42	35.48	1.145	0.36	1.210392	4.38694	8.15
7/15/2019	16:30:00	15.42	35.48	1.146	0.35	1.17677	4.38723	8.16
7/15/2019	17:00:00	15.42	35.48	1.116	0.4	1.34488	4.38703	8.15
7/15/2019	17:30:00	15.42	35.48	1.126	0.37	1.244014	4.38698	8.15
7/15/2019	18:00:00	15.46	35.47	1.078	0.35	1.17677	4.39074	8.27
7/15/2019	18:30:00	15.45	35.48	1.116	0.34	1.143148	4.38963	8.23
7/15/2019	19:00:00	15.44	35.48	1.149	0.38	1.277636	4.38849	8.22
7/15/2019	19:30:00	15.44	35.48	1.214	0.39	1.311258	4.38853	8.23
7/15/2019	20:00:00	15.44	35.47	1.217	0.36	1.210392	4.38868	8.27
7/15/2019	20:30:00	15.45	35.47	1.286	0.35	1.17677	4.38905	8.29
7/15/2019	21:00:00	15.43	35.47	1.245	0.37	1.244014	4.38746	8.28
7/15/2019	21:30:00	15.45	35.47	1.249	0.35	1.17677	4.3894	8.3
7/15/2019	22:00:00	15.42	35.47	1.202	0.35	1.17677	4.38603	8.27
7/15/2019	22:30:00	15.41	35.47	1.237	0.4	1.34488	4.38429	8.26
7/15/2019	23:00:00	15.4	35.47	1.298	0.41	1.378502	4.38405	8.24
7/15/2019	23:30:00	15.4	35.47	1.303	0.41	1.378502	4.38362	8.25
7/16/2019	0:15:00	15.39	35.47	1.295	0.38	1.277636	4.3825	8.26
7/16/2019	0:45:00	15.44	35.47	1.215	0.37	1.244014	4.38847	8.25
7/16/2019	1:15:00	15.46	35.48	1.219	0.37	1.244014	4.39056	8.24
7/16/2019	1:45:00	15.5	35.48	1.17	0.37	1.244014	4.39503	8.21
7/16/2019	2:15:00	15.52	35.48	1.113	0.36	1.210392	4.39764	8.18
7/16/2019	2:45:00	15.54	35.49	1.102	0.36	1.210392	4.39913	8.16
7/16/2019	3:15:00	15.55	35.49	1.102	0.38	1.277636	4.40029	8.14
7/16/2019	3:45:00	15.56	35.48	1.075	0.36	1.210392	4.40104	8.14

7/16/2019	4:15:00	15.56	35.48	1.089	0.35	1.17677	4.401	8.13
7/16/2019	4:45:00	15.55	35.48	1.026	0.34	1.143148	4.40088	8.13
7/16/2019	5:15:00	15.56	35.48	1.044	0.34	1.143148	4.40086	8.13
7/16/2019	5:45:00	15.55	35.48	1.019	0.34	1.143148	4.40069	8.13
7/16/2019	6:15:00	15.56	35.48	1.018	0.35	1.17677	4.40079	8.12
7/16/2019	6:45:00	15.56	35.48	1.025	0.35	1.17677	4.40069	8.12
7/16/2019	7:15:00	15.55	35.48	0.997	0.36	1.210392	4.39948	8.12
7/16/2019	7:45:00	15.54	35.48	1.016	0.4	1.34488	4.39915	8.12
7/16/2019	8:15:00	15.51	35.48	1.012	0.37	1.244014	4.39561	8.12
7/16/2019	8:45:00	15.5	35.47	0.962	0.35	1.17677	4.3945	8.13
7/16/2019	9:15:00	15.5	35.47	1.005	0.36	1.210392	4.39422	8.13
7/16/2019	9:45:00	15.49	35.47	0.976	0.39	1.311258	4.39385	8.13
7/16/2019	10:00:00	15.5	35.48	0.978	0.36	1.210392	4.39469	8.13
7/16/2019	10:30:00	15.48	35.47	0.974	0.38	1.277636	4.39238	8.14
7/16/2019	11:00:00	15.49	35.47	0.981	0.38	1.277636	4.39351	8.13
7/16/2019	11:30:00	15.51	35.47	1.012	0.38	1.277636	4.39553	8.14
7/16/2019	12:00:00	15.51	35.47	0.989	0.37	1.244014	4.39482	8.14
7/16/2019	12:30:00	15.54	35.47	1.019	0.36	1.210392	4.39762	8.14
7/16/2019	12:45:00	15.53	35.47	0.964	0.37	1.244014	4.39755	8.12
7/16/2019	13:00:00	15.47	35.46	1.092	0.42	1.412124	4.38934	8.16
7/16/2019	13:30:00	15.45	35.46	1.216	0.43	1.445746	4.38741	8.18
7/16/2019	14:00:00	15.48	35.46	1.121	0.45	1.51299	4.3904	8.16
7/16/2019	14:30:00	15.55	35.46	1.136	0.4	1.34488	4.39763	8.14
7/16/2019	15:00:00	15.56	35.46	1.029	0.41	1.378502	4.39886	8.11
7/16/2019	15:30:00	15.67	35.48	1.083	0.38	1.277636	4.41195	8.1
7/16/2019	16:00:00	15.69	35.48	1.068	0.37	1.244014	4.41426	8.07
7/16/2019	16:30:00	15.75	35.49	1.376	0.36	1.210392	4.42115	8.12
7/16/2019	17:00:00	15.77	35.5	1.061	0.34	1.143148	4.4237	7.99
7/16/2019	17:30:00	15.82	35.5	1.239	0.32	1.075904	4.42937	8
7/16/2019	18:00:00	15.82	35.5	1.186	0.32	1.075904	4.42945	7.98
7/16/2019	18:30:00	15.82	35.5	1.16	0.33	1.109526	4.42931	7.94
7/16/2019	19:00:00	15.89	35.52	1.331	0.31	1.042282	4.43797	7.92
7/16/2019	19:30:00	15.8	35.5	1.035	0.34	1.143148	4.42805	7.94
7/16/2019	20:00:00	15.82	35.5	1.041	0.35	1.17677	4.42941	7.94

7/16/2019	20:30:00	15.85	35.51	1.135	0.33	1.109526	4.4334	7.92
7/16/2019	21:00:00	15.91	35.52	1.272	0.3	1.00866	4.44085	7.87
7/16/2019	21:30:00	15.88	35.52	1.176	0.3	1.00866	4.437	7.88
7/16/2019	22:00:00	15.89	35.52	1.184	0.29	0.975038	4.43812	7.88
7/16/2019	22:30:00	15.88	35.52	1.138	0.31	1.042282	4.43735	7.88
7/16/2019	23:00:00	15.9	35.52	1.173	0.29	0.975038	4.43994	7.86
7/16/2019	23:30:00	15.91	35.52	1.177	0.29	0.975038	4.44128	7.85
7/17/2019	0:15:00	15.96	35.53	1.145	0.28	0.941416	4.44664	7.81
7/17/2019	0:45:00	15.97	35.53	1.095	0.28	0.941416	4.44798	7.8
7/17/2019	1:15:00	15.91	35.52	1.035	0.3	1.00866	4.44075	7.84
7/17/2019	1:45:00	15.89	35.52	1.055	0.29	0.975038	4.43844	7.87
7/17/2019	2:15:00	15.9	35.52	1.036	0.29	0.975038	4.43922	7.88
7/17/2019	2:45:00	15.86	35.51	0.945	0.31	1.042282	4.43483	7.89
7/17/2019	3:15:00	15.85	35.51	0.912	0.31	1.042282	4.43354	7.89
7/17/2019	3:45:00	15.84	35.51	0.947	0.32	1.075904	4.43242	7.9
7/17/2019	4:15:00	15.89	35.52	0.925	0.32	1.075904	4.43759	7.85
7/17/2019	4:45:00	15.93	35.53	0.892	0.3	1.00866	4.44327	7.79
7/17/2019	5:15:00	15.94	35.52	0.927	0.3	1.00866	4.44362	7.8
7/17/2019	5:45:00	15.96	35.53	0.929	0.29	0.975038	4.44641	7.78
7/17/2019	6:15:00	15.96	35.53	0.906	0.28	0.941416	4.44669	7.76
7/17/2019	6:45:00	15.98	35.53	0.872	0.28	0.941416	4.44934	7.74
7/17/2019	7:15:00	15.97	35.53	0.868	0.29	0.975038	4.44759	7.75
7/17/2019	7:45:00	15.96	35.53	0.791	0.28	0.941416	4.44694	7.76
7/17/2019	8:15:00	15.98	35.53	0.754	0.27	0.907794	4.44871	7.73
7/17/2019	8:45:00	15.98	35.53	0.734	0.27	0.907794	4.44895	7.74
7/17/2019	9:15:00	15.97	35.53	0.733	0.26	0.874172	4.44846	7.74
7/17/2019	9:45:00	15.98	35.54	0.746	0.26	0.874172	4.44949	7.75
7/17/2019	10:00:00	15.97	35.53	0.774	0.27	0.907794	4.44786	7.78
7/17/2019	10:30:00	15.97	35.53	0.77	0.27	0.907794	4.44817	7.76
7/17/2019	11:00:00	15.96	35.53	0.816	0.27	0.907794	4.4462	7.79
7/17/2019	11:30:00	15.99	35.53	0.859	0.27	0.907794	4.44957	7.78
7/17/2019	12:00:00	15.99	35.53	0.851	0.27	0.907794	4.45022	7.79
7/17/2019	12:30:00	16	35.53	0.987	0.27	0.907794	4.45099	7.79
7/17/2019	12:45:00	15.99	35.53	0.872	0.27	0.907794	4.45007	7.81

7/17/2019	13:00:00	15.98	35.53	0.93	0.28	0.941416	4.44804	7.81
7/17/2019	13:30:00	15.94	35.52	0.997	0.28	0.941416	4.444	7.84
7/17/2019	14:00:00	15.97	35.53	0.936	0.29	0.975038	4.44702	7.84
7/17/2019	14:30:00	16.02	35.53	1.075	0.27	0.907794	4.45341	7.84
7/17/2019	15:00:00	15.84	35.51	0.925	0.29	0.975038	4.43274	7.89
7/17/2019	15:30:00	15.82	35.51	0.93	0.27	0.907794	4.43034	7.89
7/17/2019	16:00:00	15.8	35.51	0.903	0.28	0.941416	4.42839	7.89
7/17/2019	16:30:00	15.81	35.51	0.955	0.29	0.975038	4.42874	7.89
7/17/2019	17:00:00	15.77	35.5	1.026	0.31	1.042282	4.42386	7.92
7/17/2019	17:30:00	15.83	35.5	1.245	0.32	1.075904	4.4306	7.94
7/17/2019	18:00:00	15.91	35.52	1.253	0.29	0.975038	4.44133	7.9
7/17/2019	18:30:00	15.94	35.53	1.408	0.28	0.941416	4.4442	7.89
7/17/2019	19:00:00	15.92	35.52	1.431	0.3	1.00866	4.44087	7.92
7/17/2019	19:30:00	15.94	35.53	1.324	0.28	0.941416	4.44466	7.88
7/17/2019	20:00:00	15.87	35.51	1.31	0.29	0.975038	4.43557	7.93
7/17/2019	20:30:00	15.91	35.53	1.387	0.28	0.941416	4.44116	7.89
7/17/2019	21:00:00	15.87	35.51	1.331	0.31	1.042282	4.43525	7.93
7/17/2019	21:30:00	15.83	35.5	1.228	0.33	1.109526	4.43007	7.92
7/17/2019	22:00:00	15.88	35.52	1.305	0.32	1.075904	4.43704	7.88
7/17/2019	22:30:00	15.9	35.52	1.297	0.31	1.042282	4.43992	7.87
7/17/2019	23:00:00	15.88	35.52	1.266	0.31	1.042282	4.43738	7.89
7/17/2019	23:30:00	15.87	35.52	1.266	0.31	1.042282	4.4368	7.89
7/18/2019	0:15:00	15.89	35.52	1.281	0.31	1.042282	4.4394	7.86
7/18/2019	0:45:00	15.9	35.53	1.326	0.29	0.975038	4.44036	7.86
7/18/2019	1:15:00	15.9	35.52	1.251	0.29	0.975038	4.43976	7.86
7/18/2019	1:45:00	15.89	35.52	1.25	0.31	1.042282	4.43905	7.86
7/18/2019	2:15:00	15.83	35.52	1.2	0.32	1.075904	4.43264	7.89
7/18/2019	2:45:00	15.86	35.52	1.212	0.34	1.143148	4.4349	7.87
7/18/2019	3:15:00	15.88	35.52	1.214	0.31	1.042282	4.43724	7.86
7/18/2019	3:45:00	15.72	35.51	1.179	0.35	1.17677	4.42011	7.96
7/18/2019	4:15:00	15.75	35.51	1.181	0.31	1.042282	4.4236	7.94
7/18/2019	4:45:00	15.82	35.52	1.182	0.31	1.042282	4.43168	7.89
7/18/2019	5:15:00	15.83	35.52	1.187	0.31	1.042282	4.43215	7.89
7/18/2019	5:45:00	15.86	35.52	1.189	0.29	0.975038	4.43584	7.85

7/18/2019	6:15:00	15.84	35.52	1.126	0.35	1.17677	4.43303	7.87
7/18/2019	6:45:00	15.85	35.52	1.091	0.3	1.00866	4.43459	7.85
7/18/2019	7:15:00	15.85	35.52	1.079	0.29	0.975038	4.43476	7.86
7/18/2019	7:45:00	15.85	35.52	1.041	0.29	0.975038	4.43451	7.86
7/18/2019	8:15:00	15.83	35.52	0.986	0.28	0.941416	4.43232	7.87
7/18/2019	8:45:00	15.84	35.52	0.937	0.28	0.941416	4.43353	7.86
7/18/2019	9:15:00	15.84	35.52	0.922	0.29	0.975038	4.43349	7.87
7/18/2019	9:45:00	15.84	35.52	0.933	0.29	0.975038	4.43323	7.87
7/18/2019	10:00:00	15.85	35.52	0.956	0.29	0.975038	4.43415	7.88
7/18/2019	10:30:00	15.82	35.52	0.966	0.3	1.00866	4.43167	7.87
7/18/2019	11:00:00	15.8	35.52	0.976	0.31	1.042282	4.42911	7.88
7/18/2019	11:30:00	15.83	35.52	1.033	0.31	1.042282	4.43254	7.88
7/18/2019	12:00:00	15.81	35.52	1.064	0.29	0.975038	4.43017	7.88
7/18/2019	12:30:00	15.8	35.52	1.086	0.31	1.042282	4.42989	7.89
7/18/2019	12:45:00	15.8	35.52	1.159	0.32	1.075904	4.4292	7.89
7/18/2019	13:00:00	15.8	35.52	1.173	0.32	1.075904	4.42962	7.9
7/18/2019	13:30:00	15.8	35.52	1.181	0.33	1.109526	4.42948	7.9
7/18/2019	14:00:00	15.8	35.52	1.186	0.31	1.042282	4.42896	7.91
7/18/2019	14:30:00	15.78	35.52	1.248	0.31	1.042282	4.42779	7.92
7/18/2019	15:00:00	15.78	35.52	1.335	0.31	1.042282	4.42768	7.93
7/18/2019	15:30:00	15.76	35.52	1.435	0.31	1.042282	4.42539	7.95
7/18/2019	16:00:00	15.77	35.52	1.378	0.32	1.075904	4.42593	7.95
7/18/2019	16:30:00	15.76	35.52	1.45	0.31	1.042282	4.4255	7.96
7/18/2019	17:00:00	15.76	35.52	1.452	0.32	1.075904	4.42523	7.96
7/18/2019	17:30:00	15.76	35.51	1.476	0.31	1.042282	4.42449	7.97
7/18/2019	18:00:00	15.75	35.52	1.612	0.32	1.075904	4.42405	7.97
7/18/2019	18:30:00	15.75	35.51	1.51	0.34	1.143148	4.42381	7.96
7/18/2019	19:00:00	15.74	35.51	1.477	0.34	1.143148	4.42221	7.98
7/18/2019	19:30:00	15.73	35.5	1.419	0.33	1.109526	4.42069	7.99
7/18/2019	20:00:00	15.76	35.51	1.505	0.34	1.143148	4.42477	7.96
7/18/2019	20:30:00	15.74	35.51	1.457	0.33	1.109526	4.42157	8
7/18/2019	21:00:00	15.74	35.5	1.426	0.31	1.042282	4.42084	8.03
7/18/2019	21:30:00	15.75	35.51	1.472	0.32	1.075904	4.42306	8
7/18/2019	22:00:00	15.76	35.51	1.469	0.34	1.143148	4.42335	8.01

7/18/2019	22:30:00	15.76	35.5	1.471	0.29	0.975038	4.4239	8.04
7/18/2019	23:00:00	15.77	35.5	1.461	0.29	0.975038	4.42435	8.05
7/18/2019	23:30:00	15.77	35.51	1.458	0.31	1.042282	4.42458	8.04
7/19/2019	0:15:00	15.79	35.51	1.45	0.3	1.00866	4.42691	8.03
7/19/2019	0:45:00	15.79	35.51	1.414	0.31	1.042282	4.42722	8
7/19/2019	1:15:00	15.8	35.51	1.384	0.29	0.975038	4.42861	7.97
7/19/2019	1:45:00	15.81	35.51	1.378	0.29	0.975038	4.42893	7.96
7/19/2019	2:15:00	15.81	35.51	1.358	0.29	0.975038	4.42899	7.97
7/19/2019	2:45:00	15.81	35.51	1.326	0.28	0.941416	4.42959	7.93
7/19/2019	3:15:00	15.82	35.51	1.308	0.3	1.00866	4.43015	7.94
7/19/2019	3:45:00	15.82	35.51	1.297	0.29	0.975038	4.43024	7.93
7/19/2019	4:15:00	15.81	35.51	1.269	0.29	0.975038	4.43014	7.93
7/19/2019	4:45:00	15.82	35.51	1.243	0.29	0.975038	4.43024	7.93
7/19/2019	5:15:00	15.81	35.51	1.224	0.28	0.941416	4.42994	7.93
7/19/2019	5:45:00	15.81	35.51	1.193	0.29	0.975038	4.43023	7.93
7/19/2019	6:15:00	15.81	35.51	1.177	0.29	0.975038	4.42974	7.92
7/19/2019	6:45:00	15.81	35.51	1.148	0.29	0.975038	4.42987	7.92
7/19/2019	7:15:00	15.81	35.51	1.146	0.28	0.941416	4.42962	7.92
7/19/2019	7:45:00	15.81	35.51	1.129	0.29	0.975038	4.42939	7.92
7/20/2019	10:00:00	15.73	35.5	0.991	0.3	1.00866	4.41971	7.95
7/20/2019	10:30:00	15.71	35.5	0.997	0.29	0.975038	4.41773	7.97
7/20/2019	11:00:00	15.68	35.49	1.085	0.36	1.210392	4.4138	8.02
7/20/2019	11:30:00	15.67	35.49	1.158	0.34	1.143148	4.413	8.04
7/20/2019	12:00:00	15.64	35.49	1.225	0.32	1.075904	4.41044	8.05
7/20/2019	12:30:00	15.63	35.49	1.157	0.32	1.075904	4.40953	8.05
7/20/2019	12:45:00	15.64	35.49	1.235	0.31	1.042282	4.40985	8.06
7/20/2019	13:00:00	15.65	35.49	1.21	0.34	1.143148	4.41115	8.1
7/20/2019	13:30:00	15.69	35.5	1.236	0.31	1.042282	4.41549	8.11
7/20/2019	14:00:00	15.7	35.5	1.255	0.33	1.109526	4.41708	8.03
7/20/2019	14:30:00	15.71	35.5	1.349	0.34	1.143148	4.41866	8.01
7/20/2019	15:00:00	15.7	35.5	1.341	0.35	1.17677	4.41698	8.02
7/20/2019	15:30:00	15.74	35.51	1.396	0.35	1.17677	4.42201	7.98
7/20/2019	16:00:00	15.73	35.51	1.414	0.34	1.143148	4.42061	8
7/20/2019	16:30:00	15.74	35.51	1.458	0.34	1.143148	4.42274	7.98

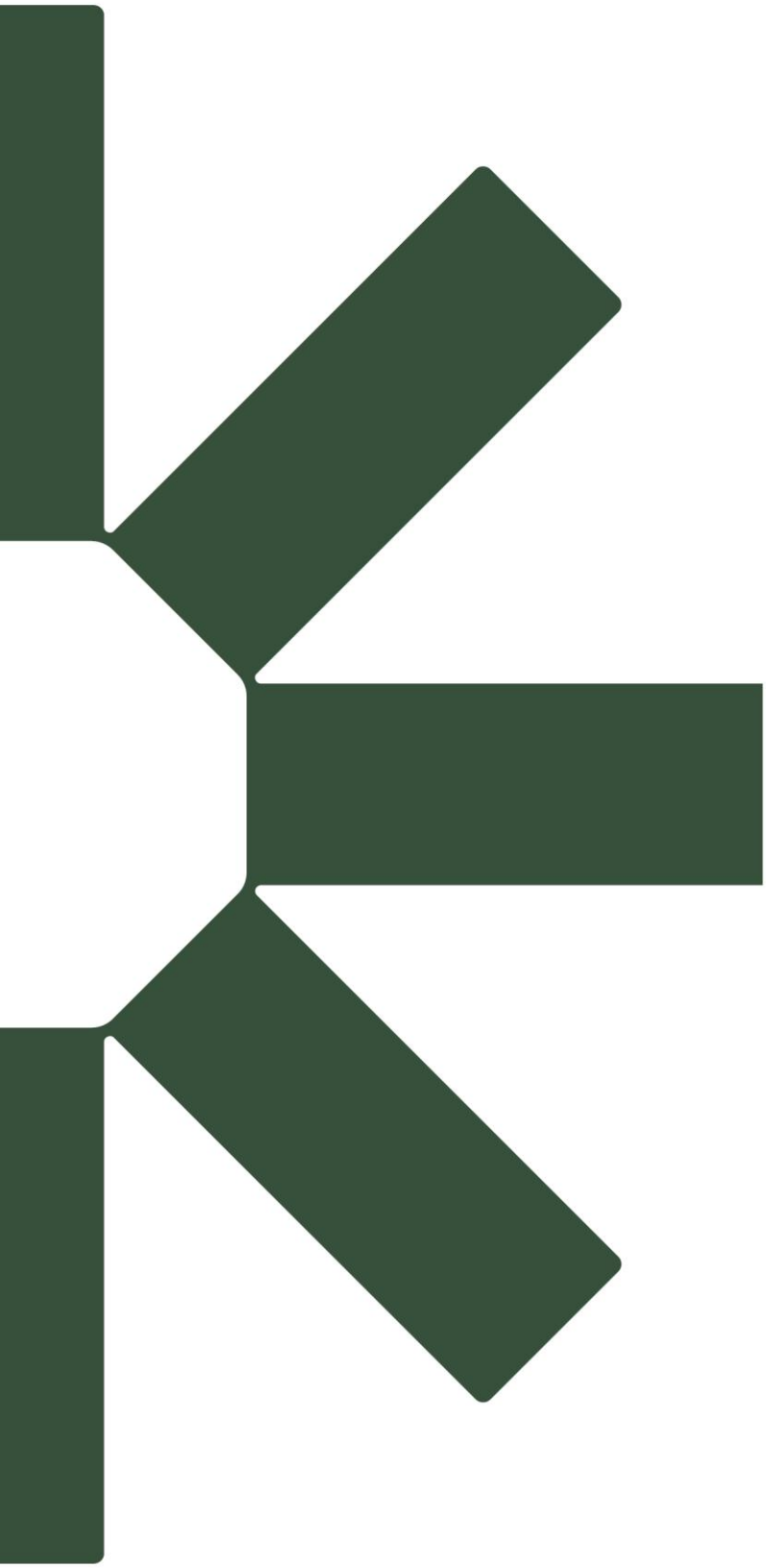
7/20/2019	17:00:00	15.74	35.51	1.459	0.34	1.143148	4.42195	7.98
7/20/2019	17:30:00	15.75	35.51	1.485	0.33	1.109526	4.42302	7.96
7/20/2019	18:00:00	15.77	35.51	1.509	0.32	1.075904	4.42578	7.94
7/20/2019	18:30:00	15.74	35.51	1.497	0.34	1.143148	4.42188	7.97
7/20/2019	19:00:00	15.71	35.5	1.542	0.34	1.143148	4.41907	8
7/20/2019	19:30:00	15.75	35.51	1.576	0.35	1.17677	4.42313	7.97
7/20/2019	20:00:00	15.77	35.51	1.375	0.29	0.975038	4.4255	7.95
7/20/2019	20:30:00	15.77	35.51	1.361	0.31	1.042282	4.42511	7.95
7/20/2019	21:00:00	15.76	35.51	1.364	0.3	1.00866	4.4241	7.95
7/20/2019	21:30:00	15.75	35.51	1.232	0.29	0.975038	4.42297	7.94
7/20/2019	22:00:00	15.74	35.51	1.236	0.29	0.975038	4.42162	7.93
7/20/2019	22:30:00	15.73	35.5	1.156	0.29	0.975038	4.4205	7.92
7/20/2019	23:00:00	15.73	35.5	1.123	0.27	0.907794	4.42101	7.92
7/20/2019	23:30:00	15.74	35.5	1.126	0.27	0.907794	4.42142	7.92
7/21/2019	0:15:00	15.75	35.5	1.127	0.26	0.874172	4.42237	7.91
7/21/2019	0:45:00	15.74	35.5	1.179	0.28	0.941416	4.42192	7.9
7/21/2019	1:15:00	15.75	35.5	1.039	0.25	0.84055	4.4224	7.87
7/21/2019	1:45:00	15.76	35.5	1.028	0.26	0.874172	4.42345	7.85
7/21/2019	2:15:00	15.76	35.5	1.065	0.29	0.975038	4.42348	7.86
7/21/2019	2:45:00	15.76	35.5	1.07	0.23	0.773306	4.42393	7.82
7/21/2019	3:15:00	15.76	35.5	1.081	0.23	0.773306	4.42382	7.81
7/21/2019	3:45:00	15.76	35.5	1.078	0.26	0.874172	4.42324	7.84
7/21/2019	4:15:00	15.76	35.5	1.113	0.26	0.874172	4.423	7.84
7/21/2019	4:45:00	15.75	35.5	1.079	0.24	0.806928	4.42263	7.82
7/21/2019	5:15:00	15.75	35.5	1.108	0.23	0.773306	4.42192	7.81
7/21/2019	5:45:00	15.75	35.5	1.072	0.24	0.806928	4.42219	7.81
7/21/2019	6:15:00	15.75	35.5	1.072	0.24	0.806928	4.42234	7.8
7/21/2019	6:45:00	15.74	35.5	1.085	0.26	0.874172	4.42169	7.81
7/21/2019	7:15:00	15.74	35.5	1.062	0.24	0.806928	4.42106	7.83
7/21/2019	7:45:00	15.73	35.5	1.031	0.25	0.84055	4.42081	7.84
7/21/2019	8:15:00	15.74	35.5	0.994	0.24	0.806928	4.42093	7.82
7/21/2019	8:45:00	15.74	35.5	0.918	0.24	0.806928	4.42105	7.82
7/21/2019	9:15:00	15.74	35.5	0.891	0.24	0.806928	4.42122	7.79
7/21/2019	9:45:00	15.74	35.5	0.903	0.23	0.773306	4.42106	7.8

7/21/2019	10:00:00	15.74	35.5	0.911	0.23	0.773306	4.42133	7.81
7/21/2019	10:30:00	15.74	35.5	0.937	0.23	0.773306	4.42116	7.82
7/21/2019	11:00:00	15.75	35.5	0.959	0.23	0.773306	4.42243	7.83
7/21/2019	11:30:00	15.75	35.5	0.977	0.26	0.874172	4.42213	7.85
7/21/2019	12:00:00	15.75	35.5	0.993	0.23	0.773306	4.4221	7.85
7/21/2019	12:30:00	15.73	35.5	1.034	0.28	0.941416	4.42053	7.87
7/21/2019	12:45:00	15.73	35.5	1.074	0.24	0.806928	4.42013	7.89
7/21/2019	13:00:00	15.73	35.5	1.106	0.23	0.773306	4.42015	7.91
7/21/2019	13:30:00	15.72	35.5	1.124	0.22	0.739684	4.4197	7.92
7/21/2019	14:00:00	15.69	35.5	1.185	0.26	0.874172	4.41679	7.95
7/21/2019	14:30:00	15.67	35.5	1.286	0.26	0.874172	4.41452	8
7/21/2019	15:00:00	15.65	35.5	1.302	0.24	0.806928	4.41226	8.03
7/21/2019	15:30:00	15.67	35.5	1.31	0.23	0.773306	4.41437	8.01
7/21/2019	16:00:00	15.63	35.5	1.444	0.26	0.874172	4.41048	8.05
7/21/2019	16:30:00	15.62	35.5	1.567	0.32	1.075904	4.4093	8.06
7/21/2019	17:00:00	15.67	35.5	1.465	0.26	0.874172	4.41477	8.02
7/21/2019	17:30:00	15.69	35.5	1.499	0.23	0.773306	4.41643	8
7/21/2019	18:00:00	15.68	35.5	1.706	0.23	0.773306	4.41582	8
7/21/2019	18:30:00	15.68	35.5	1.608	0.22	0.739684	4.41522	7.99
7/21/2019	19:00:00	15.72	35.5	1.556	0.24	0.806928	4.41938	7.93
7/21/2019	19:30:00	15.72	35.5	1.633	0.24	0.806928	4.41938	7.92
7/21/2019	20:00:00	15.71	35.5	1.56	0.24	0.806928	4.41881	7.92
7/21/2019	20:30:00	15.71	35.5	1.546	0.22	0.739684	4.41826	7.93
7/21/2019	21:00:00	15.7	35.5	1.511	0.22	0.739684	4.41704	7.93
7/21/2019	21:30:00	15.69	35.5	1.484	0.22	0.739684	4.41644	7.94
7/21/2019	22:00:00	15.7	35.5	1.375	0.23	0.773306	4.41747	7.91
7/21/2019	22:30:00	15.73	35.5	1.487	0.22	0.739684	4.41997	7.9
7/21/2019	23:00:00	15.72	35.5	1.427	0.22	0.739684	4.41924	7.9
7/21/2019	23:30:00	15.72	35.5	1.371	0.22	0.739684	4.41919	7.89
7/22/2019	0:15:00	15.71	35.5	1.341	0.2	0.67244	4.41826	7.9
7/22/2019	0:45:00	15.7	35.5	1.25	0.23	0.773306	4.41739	7.9
7/22/2019	1:15:00	15.69	35.5	1.182	0.21	0.706062	4.41576	7.9
7/22/2019	1:45:00	15.68	35.5	1.191	0.2	0.67244	4.41559	7.9
7/22/2019	2:15:00	15.67	35.5	1.166	0.2	0.67244	4.41448	7.9

7/22/2019	2:45:00	15.66	35.5	1.131	0.2	0.67244	4.41348	7.9
7/22/2019	3:15:00	15.66	35.5	1.162	0.2	0.67244	4.41279	7.91
7/22/2019	3:45:00	15.65	35.5	1.229	0.23	0.773306	4.41187	7.91
7/22/2019	4:15:00	15.65	35.5	1.188	0.22	0.739684	4.41173	7.91
7/22/2019	4:45:00	15.64	35.5	1.221	0.22	0.739684	4.41079	7.91
7/22/2019	5:15:00	15.63	35.5	1.206	0.23	0.773306	4.41023	7.91
7/22/2019	5:45:00	15.63	35.5	1.145	0.23	0.773306	4.40981	7.92
7/22/2019	6:15:00	15.64	35.5	1.138	0.22	0.739684	4.41062	7.91
7/22/2019	6:45:00	15.63	35.5	1.128	0.22	0.739684	4.40994	7.91
7/22/2019	7:15:00	15.63	35.5	1.114	0.23	0.773306	4.4102	7.92
7/22/2019	7:45:00	15.62	35.5	1.112	0.21	0.706062	4.40944	7.91
7/22/2019	8:15:00	15.62	35.5	1.009	0.22	0.739684	4.40933	7.91
7/22/2019	8:45:00	15.62	35.5	0.962	0.21	0.706062	4.40941	7.91
7/22/2019	9:15:00	15.62	35.5	0.941	0.22	0.739684	4.40916	7.92
7/22/2019	9:45:00	15.62	35.5	0.948	0.22	0.739684	4.40934	7.92
7/22/2019	10:00:00	15.62	35.5	0.953	0.22	0.739684	4.40953	7.93
7/22/2019	10:30:00	15.62	35.5	0.949	0.23	0.773306	4.40939	7.92
7/22/2019	11:00:00	15.6	35.5	1.038	0.25	0.84055	4.4074	7.96
7/22/2019	11:30:00	15.61	35.5	1.095	0.27	0.907794	4.40792	7.96
7/22/2019	12:00:00	15.62	35.5	1.129	0.28	0.941416	4.40868	7.96
7/22/2019	12:30:00	15.62	35.5	1.195	0.24	0.806928	4.40862	7.96
7/22/2019	12:45:00	15.62	35.5	1.202	0.24	0.806928	4.40948	7.96
7/22/2019	13:00:00	15.62	35.5	1.206	0.23	0.773306	4.40961	7.97
7/22/2019	13:30:00	15.63	35.5	1.348	0.25	0.84055	4.40969	7.96
7/22/2019	14:00:00	15.63	35.5	1.307	0.24	0.806928	4.41017	7.96
7/22/2019	14:30:00	15.63	35.5	1.387	0.24	0.806928	4.41045	7.96
7/22/2019	15:00:00	15.64	35.5	1.407	0.24	0.806928	4.41083	7.97
7/22/2019	15:30:00	15.64	35.5	1.473	0.23	0.773306	4.4111	7.98
7/22/2019	16:00:00	15.64	35.5	1.55	0.25	0.84055	4.41133	7.97
7/22/2019	16:30:00	15.64	35.5	1.71	0.25	0.84055	4.41147	7.97
7/22/2019	17:00:00	15.64	35.5	1.749	0.24	0.806928	4.4114	7.97
7/22/2019	17:30:00	15.64	35.5	1.763	0.26	0.874172	4.41123	7.96
7/22/2019	18:00:00	15.64	35.5	1.949	0.26	0.874172	4.4108	7.97
7/22/2019	18:30:00	15.64	35.5	1.961	0.24	0.806928	4.411	7.98

7/22/2019	19:00:00	15.63	35.5	1.968	0.28	0.941416	4.41042	7.98
7/22/2019	19:30:00	15.63	35.5	2.003	0.27	0.907794	4.41054	7.98
7/22/2019	20:00:00	15.64	35.5	1.94	0.23	0.773306	4.41109	7.99
7/22/2019	20:30:00	15.64	35.5	1.95	0.25	0.84055	4.41089	7.99
7/22/2019	21:00:00	15.64	35.5	1.943	0.24	0.806928	4.41098	8
7/22/2019	21:30:00	15.63	35.5	1.974	0.25	0.84055	4.41063	8
7/22/2019	22:00:00	15.64	35.5	1.867	0.24	0.806928	4.41078	7.99
7/22/2019	22:30:00	15.65	35.5	1.848	0.27	0.907794	4.41177	7.99
7/22/2019	23:00:00	15.66	35.5	1.739	0.22	0.739684	4.41361	7.99
7/22/2019	23:30:00	15.67	35.5	1.696	0.22	0.739684	4.41383	7.99
7/23/2019	0:15:00	15.67	35.5	1.644	0.22	0.739684	4.41434	7.99
7/23/2019	0:45:00	15.66	35.5	1.687	0.22	0.739684	4.41369	7.99
7/23/2019	1:15:00	15.66	35.5	1.625	0.24	0.806928	4.4135	7.98
7/23/2019	1:45:00	15.66	35.5	1.563	0.22	0.739684	4.4133	7.98
7/23/2019	2:15:00	15.65	35.5	1.532	0.22	0.739684	4.41228	7.98
7/23/2019	2:45:00	15.65	35.5	1.5	0.22	0.739684	4.41254	7.98
7/23/2019	3:15:00	15.64	35.5	1.51	0.22	0.739684	4.41145	7.98
7/23/2019	3:45:00	15.64	35.5	1.48	0.21	0.706062	4.41096	7.97
7/23/2019	4:15:00	15.63	35.5	1.531	0.24	0.806928	4.41065	7.97
7/23/2019	4:45:00	15.63	35.5	1.448	0.22	0.739684	4.41034	7.97
7/23/2019	5:15:00	15.62	35.5	1.481	0.23	0.773306	4.40989	7.96
7/23/2019	5:45:00	15.62	35.5	1.466	0.26	0.874172	4.40927	7.97
7/23/2019	6:15:00	15.62	35.5	1.423	0.28	0.941416	4.40898	7.97
7/23/2019	6:45:00	15.62	35.5	1.417	0.24	0.806928	4.40935	7.96
7/23/2019	7:15:00	15.61	35.5	1.412	0.27	0.907794	4.4086	7.96
7/23/2019	7:45:00	15.61	35.5	1.425	0.26	0.874172	4.40877	7.96
7/23/2019	8:15:00	15.61	35.5	1.357	0.24	0.806928	4.40824	7.97
7/23/2019	8:45:00	15.6	35.5	1.301	0.26	0.874172	4.40766	7.97
7/23/2019	9:15:00	15.61	35.5	1.297	0.26	0.874172	4.40807	7.97
7/23/2019	9:45:00	15.61	35.5	1.308	0.26	0.874172	4.40812	7.98
7/23/2019	10:00:00	15.61	35.5	1.347	0.25	0.84055	4.40806	7.99
7/23/2019	10:30:00	15.61	35.5	1.347	0.27	0.907794	4.40806	7.99
7/23/2019	11:00:00	15.61	35.5	1.278	0.26	0.874172	4.40803	7.98
7/23/2019	11:30:00	15.61	35.5	1.373	0.27	0.907794	4.40811	7.99

7/23/2019	12:00:00	15.62	35.5	1.177	0.2	0.67244	4.40946	8.01



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