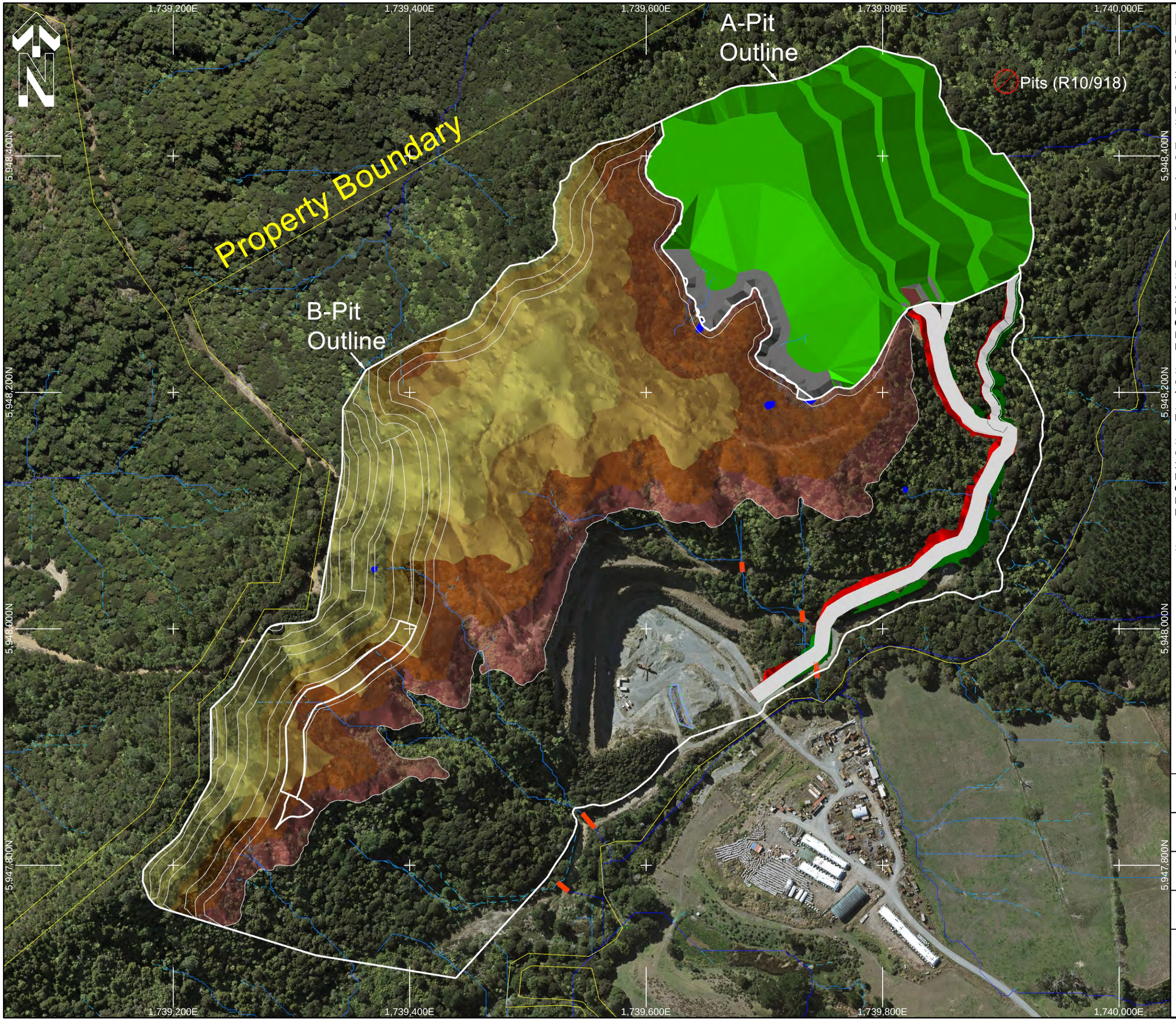


NOTES:

Background Image: Auckland 0.075m Rural Aerial Photos (2020), source: LINZ Data Service

10m Contours: Derived from Auckland North LiDAR 1m DEM (2016-2018), source: LINZ Data Service

Property Boundaries: NZ Primary Parcels source: LINZ Data Service & C&R Surveyors Feb 2019

Water Paths are from Bioresearches (2020)

FINAL PIT, FILL AND ROAD DESIGNS ARE SUBJECT TO GEOTECHNICAL APPROVAL

DESIGN PARAMETERS:
Stage 2 Design 4 (A-Pit)
Outline = 6.11ha
15m faces at 2V:1H gradient, 8m berms
Haul Road: 12m wide, gradient = 8H:1V
Overall Pit Slope Angle ≈ 43° at steepest point
Estimated Rock Extraction = 654,000 BCM
Estimated Overburden Removal = 306,000 BCM

Stage 2 Design 4 (A-Fill)
Outline = 6.11ha
15m faces at 28° gradient, 6m berms
Access Tracks: 6m wide, gradient = 8H:1V
Estimated Overburden Capacity = 1.7 million BCM

Stage 2 Design 4 (B-Pit)
Outline = 26.46ha
15m faces at 2V:1H gradient, (generally) 10m berms
Haul Road: 15m wide, gradient = 10H:1V
Overall Pit Slope Angle ≈ 41° at steepest point (southern end)
Estimated Rock Extraction = 8.0 million BCM
Estimated Overburden Removal = 1.2 million BCM

SRP design - by others.

0 metres 50 100 150 200

Scale: 1:3000 @ A3

Projection: NZGD 2000 New Zealand Transverse Mercator

CLIENT
SEMENOFF GROUP

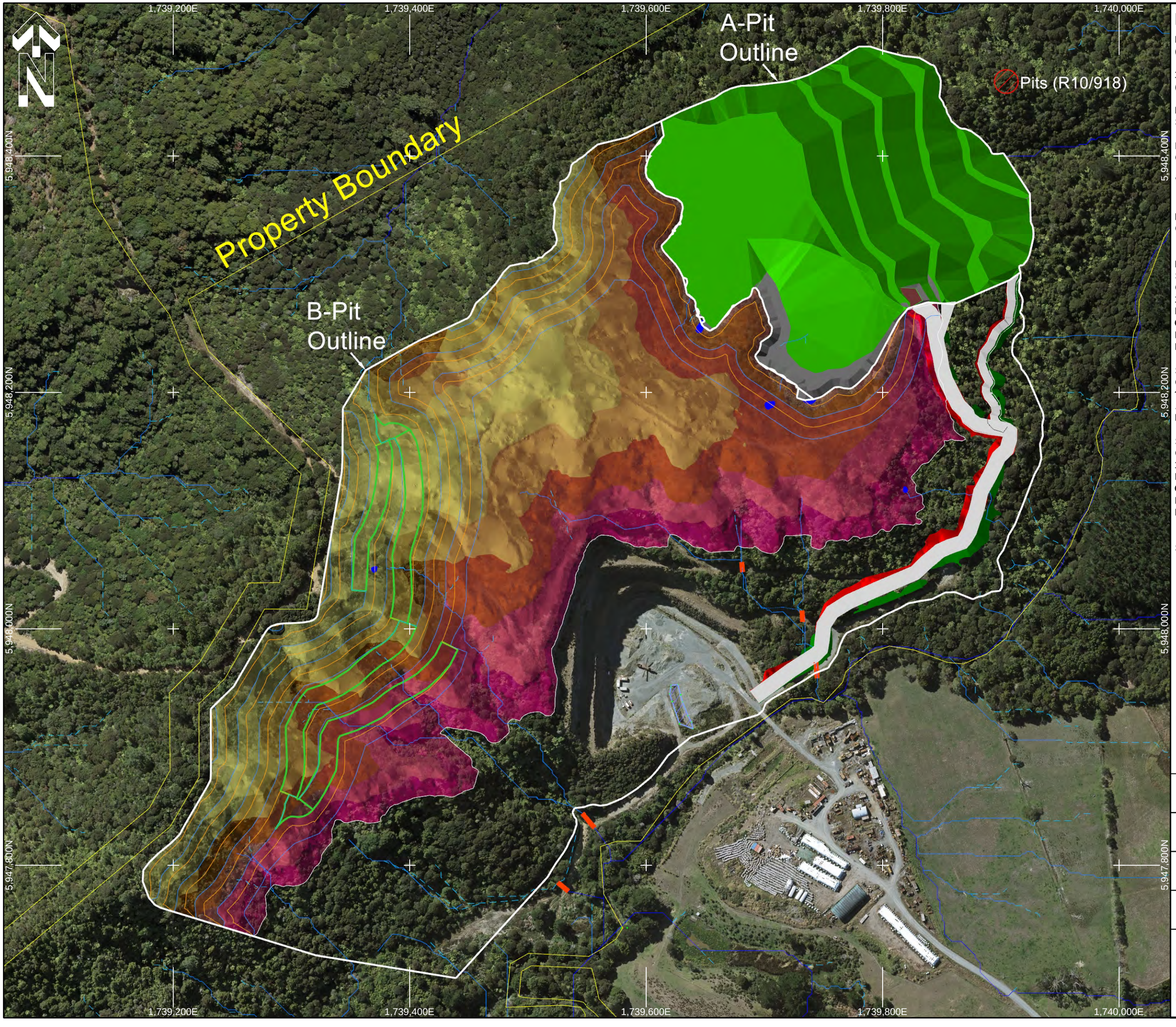
PROJECT
KING'S QUARRY - STAGE 2

TITLE
STAGE 2: YEARS 16-20

Prepared By: MIKE CHILTON
Date Drawn: 6/09/2023 Revision: 4

CONSULTANT

AGGREtech
DEVELOPING YOUR RESOURCES
mike@aggretech.co.nz | 1416 Kairanga Bunnythorpe Road, RD 5, Palmerston North 4475 | 021 594 225



NOTES:

Background Image: Auckland 0.075m Rural Aerial Photos (2020), source: LINZ Data Service

10m Contours: Derived from Auckland North LiDAR 1m DEM (2016-2018), source: LINZ Data Service

Property Boundaries: NZ Primary Parcels source: LINZ Data Service & C&R Surveyors Feb 2019

Water Paths are from Bioresearches (2020)

FINAL PIT, FILL AND ROAD DESIGNS ARE SUBJECT TO GEOTECHNICAL APPROVAL

DESIGN PARAMETERS:
Stage 2 Design 4 (A-Pit)
Outline = 6.11ha
15m faces at 2V:1H gradient, 8m berms
Haul Road: 12m wide, gradient = 8H:1V
Overall Pit Slope Angle ≈ 43° at steepest point
Estimated Rock Extraction = 654,000 BCM
Estimated Overburden Removal = 306,000 BCM

Stage 2 Design 4 (A-Fill)
Outline = 6.11ha
15m faces at 28° gradient, 6m berms
Access Tracks: 6m wide, gradient = 8H:1V
Estimated Overburden Capacity = 1.7 million BCM

Stage 2 Design 4 (B-Pit)
Outline = 26.46ha
15m faces at 2V:1H gradient, (generally) 10m berms
Haul Road: 15m wide, gradient = 10H:1V
Overall Pit Slope Angle ≈ 41° at steepest point (southern end)
Estimated Rock Extraction = 8.0 million BCM
Estimated Overburden Removal = 1.2 million BCM

SRP design - by others.

0 metres 50 100 150 200

Scale: 1:3000 @ A3

Projection: NZGD 2000 New Zealand Transverse Mercator

CLIENT
SEMENOFF GROUP

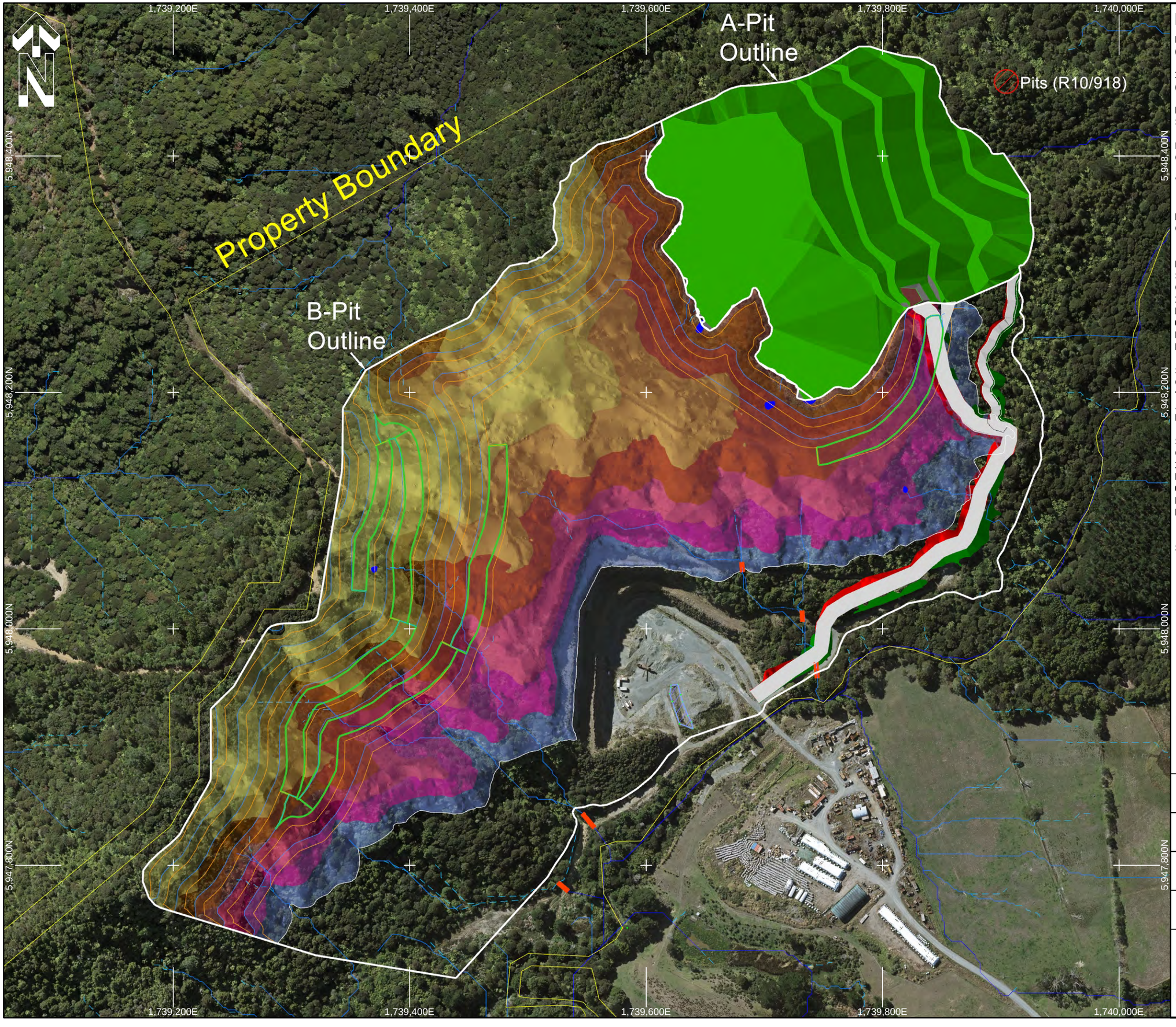
PROJECT
KING'S QUARRY - STAGE 2

TITLE
STAGE 2: YEARS 21-25

Prepared By: MIKE CHILTON
Date Drawn: 6/09/2023 Revision: 4

CONSULTANT

AGGREtech
DEVELOPING YOUR RESOURCES
mike@aggretech.co.nz | 1416 Kairanga Bunnythorpe Road, RD 5, Palmerston North 4475 | 021 594 225



NOTES:

Background Image: Auckland 0.075m Rural Aerial Photos (2020), source: LINZ Data Service

10m Contours: Derived from Auckland North LiDAR 1m DEM (2016-2018), source: LINZ Data Service

Property Boundaries: NZ Primary Parcels source: LINZ Data Service & C&R Surveyors Feb 2019

Water Paths are from Bioresearches (2020)

FINAL PIT, FILL AND ROAD DESIGNS ARE SUBJECT TO GEOTECHNICAL APPROVAL

DESIGN PARAMETERS:
Stage 2 Design 4 (A-Pit)
Outline = 6.11ha
15m faces at 2V:1H gradient, 8m berms
Haul Road: 12m wide, gradient = 8H:1V
Overall Pit Slope Angle ≈ 43° at steepest point
Estimated Rock Extraction = 654,000 BCM
Estimated Overburden Removal = 306,000 BCM

Stage 2 Design 4 (A-Fill)
Outline = 6.11ha
15m faces at 28° gradient, 6m berms
Access Tracks: 6m wide, gradient = 8H:1V
Estimated Overburden Capacity = 1.7 million BCM

Stage 2 Design 4 (B-Pit)
Outline = 26.46ha
15m faces at 2V:1H gradient, (generally) 10m berms
Haul Road: 15m wide, gradient = 10H:1V
Overall Pit Slope Angle ≈ 41° at steepest point (southern end)
Estimated Rock Extraction = 8.0 million BCM
Estimated Overburden Removal = 1.2 million BCM

SRP design - by others.

0 metres 50 100 150 200

Scale: 1:3000 @ A3

Projection: NZGD 2000 New Zealand Transverse Mercator

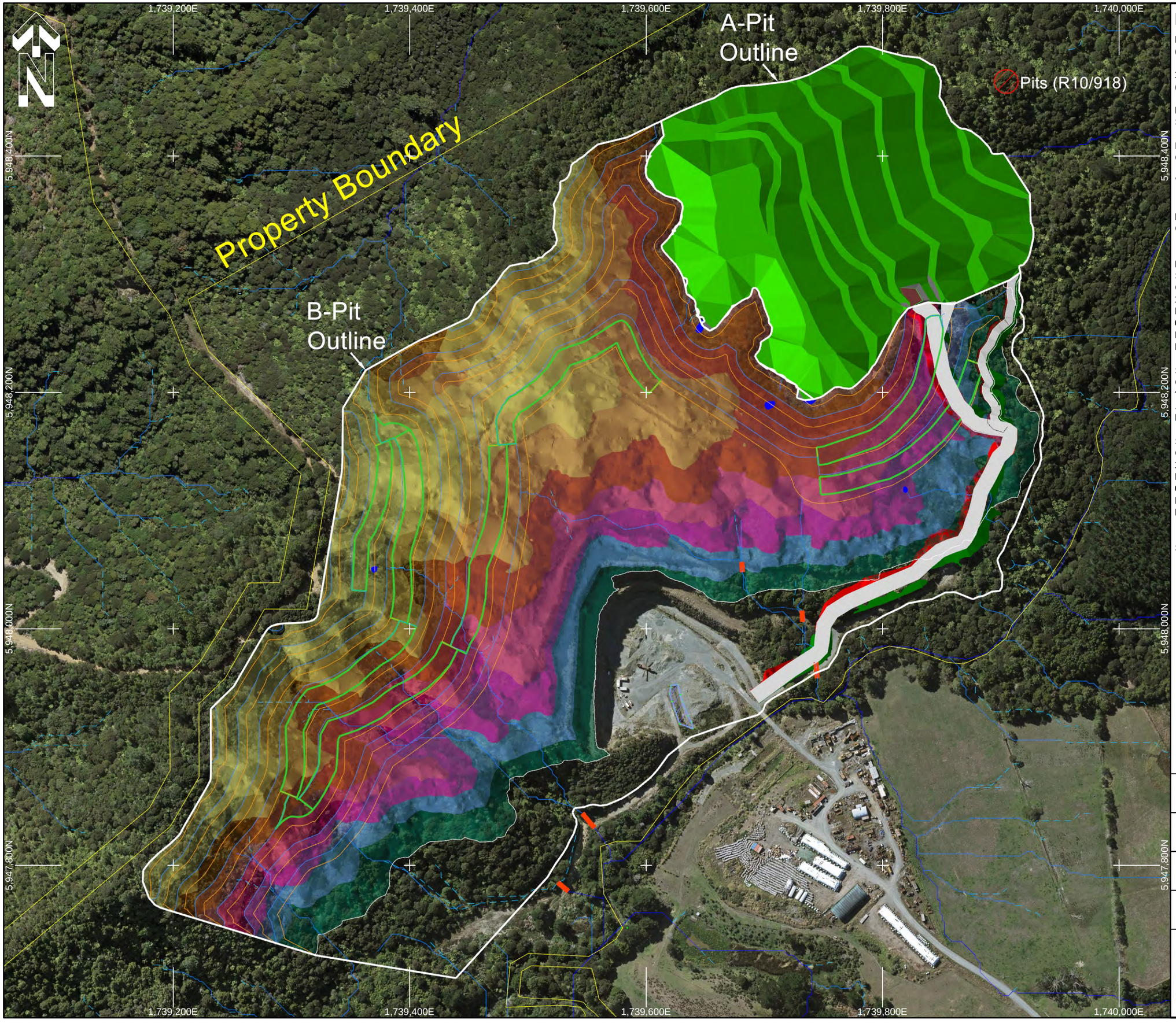
CLIENT
SEMENOFF GROUP

PROJECT
KING'S QUARRY - STAGE 2

TITLE
STAGE 2: YEARS 26-30

Prepared By: MIKE CHILTON
Date Drawn: 6/09/2023 Revision: 4

CONSULTANT
AGGREtech
DEVELOPING YOUR RESOURCES
mike@aggretech.co.nz | 1416 Kairanga Bunnythorpe Road, RD 5, Palmerston North 4475 | 021 594 225



NOTES:

Background Image: Auckland 0.075m Rural Aerial Photos (2020), source: LINZ Data Service

10m Contours: Derived from Auckland North LiDAR 1m DEM (2016-2018), source: LINZ Data Service

Property Boundaries: NZ Primary Parcels source: LINZ Data Service & C&R Surveyors Feb 2019

Water Paths are from Bioresearches (2020)

FINAL PIT, FILL AND ROAD DESIGNS ARE SUBJECT TO GEOTECHNICAL APPROVAL

DESIGN PARAMETERS:
Stage 2 Design 4 (A-Pit)
Outline = 6.11ha
15m faces at 2V:1H gradient, 8m berms
Haul Road: 12m wide, gradient = 8H:1V
Overall Pit Slope Angle ≈ 43° at steepest point
Estimated Rock Extraction = 654,000 BCM
Estimated Overburden Removal = 306,000 BCM

Stage 2 Design 4 (A-Fill)
Outline = 6.11ha
15m faces at 28° gradient, 6m berms
Access Tracks: 6m wide, gradient = 8H:1V
Estimated Overburden Capacity = 1.7 million BCM

Stage 2 Design 4 (B-Pit)
Outline = 26.46ha
15m faces at 2V:1H gradient, (generally) 10m berms
Haul Road: 15m wide, gradient = 10H:1V
Overall Pit Slope Angle ≈ 41° at steepest point (southern end)
Estimated Rock Extraction = 8.0 million BCM
Estimated Overburden Removal = 1.2 million BCM

SRP design - by others.

0 metres 50 100 150 200

Scale: 1:3000 @ A3

Projection: NZGD 2000 New Zealand Transverse Mercator

CLIENT
SEMENOFF GROUP

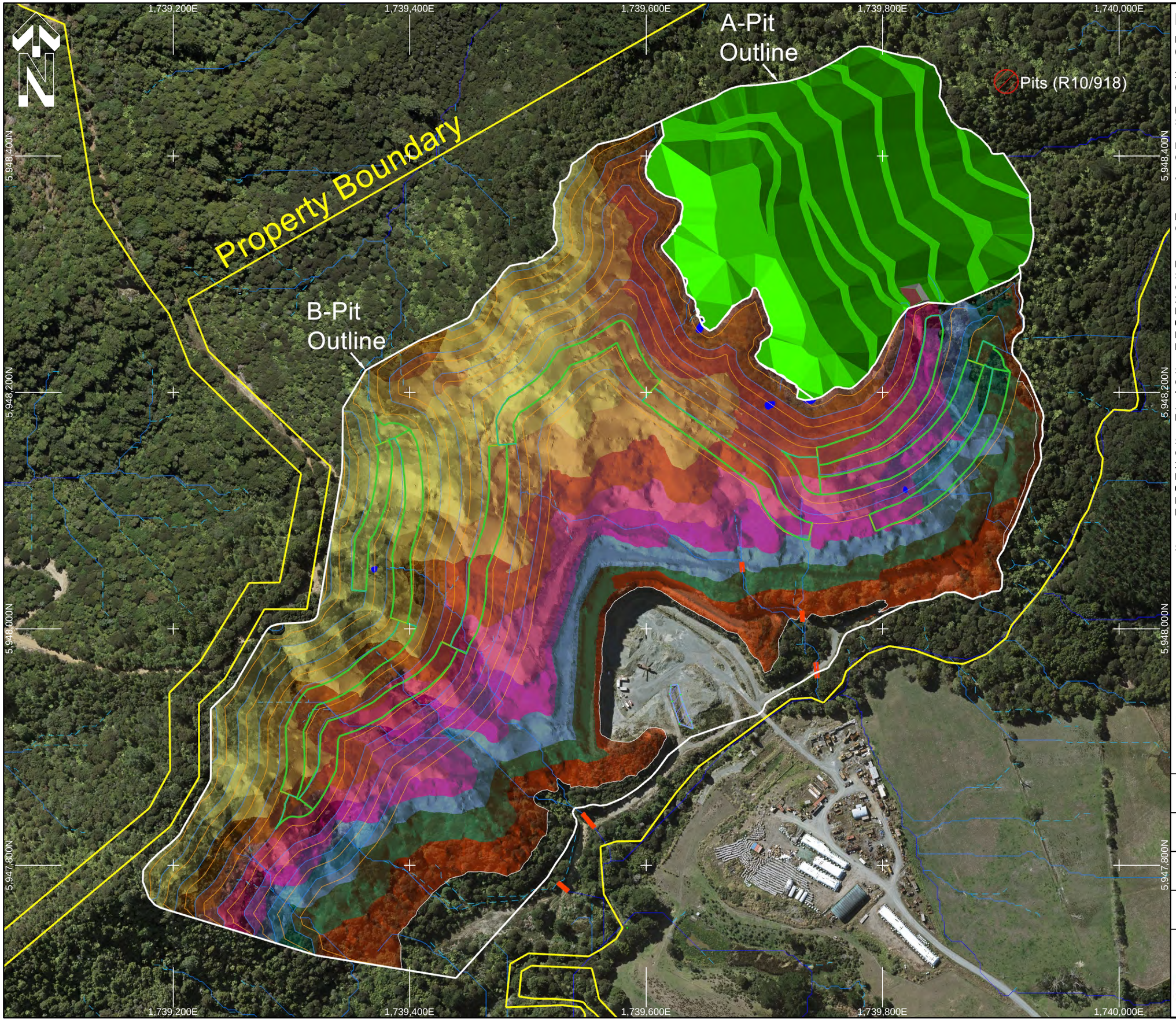
PROJECT
KING'S QUARRY - STAGE 2

TITLE
STAGE 2: YEARS 31-35

Prepared By: MIKE CHILTON
Date Drawn: 6/09/2023 Revision: 4

CONSULTANT

AGGREtech
DEVELOPING YOUR RESOURCES
mike@aggretech.co.nz | 1416 Kairanga Bunnythorpe Road, RD 5, Palmerston North 4475 | 021 594 225



NOTES:

Background Image: Auckland 0.075m Rural Aerial Photos (2020), source: LINZ Data Service

10m Contours: Derived from Auckland North LiDAR 1m DEM (2016-2018), source: LINZ Data Service

Property Boundaries: NZ Primary Parcels source: LINZ Data Service & C&R Surveyors Feb 2019

Water Paths are from Bioresearches (2020)

FINAL PIT, FILL AND ROAD DESIGNS ARE SUBJECT TO GEOTECHNICAL APPROVAL

DESIGN PARAMETERS:
Stage 2 Design 4 (A-Pit)
Outline = 6.11ha
15m faces at 2V:1H gradient, 8m berms
Haul Road: 12m wide, gradient = 8H:1V
Overall Pit Slope Angle ≈ 43° at steepest point
Estimated Rock Extraction = 654,000 BCM
Estimated Overburden Removal = 306,000 BCM

Stage 2 Design 4 (A-Fill)
Outline = 6.11ha
15m faces at 28° gradient, 6m berms
Access Tracks: 6m wide, gradient = 8H:1V
Estimated Overburden Capacity = 1.7 million BCM

Stage 2 Design 4 (B-Pit)
Outline = 26.46ha
15m faces at 2V:1H gradient, (generally) 10m berms
Haul Road: 15m wide, gradient = 10H:1V
Overall Pit Slope Angle ≈ 41° at steepest point (southern end)
Estimated Rock Extraction = 8.0 million BCM
Estimated Overburden Removal = 1.2 million BCM

SRP design - by others.

0 metres 50 100 150 200

Scale: 1:3000 @ A3

Projection: NZGD 2000 New Zealand Transverse Mercator

CLIENT
SEMENOFF GROUP

PROJECT
KING'S QUARRY - STAGE 2

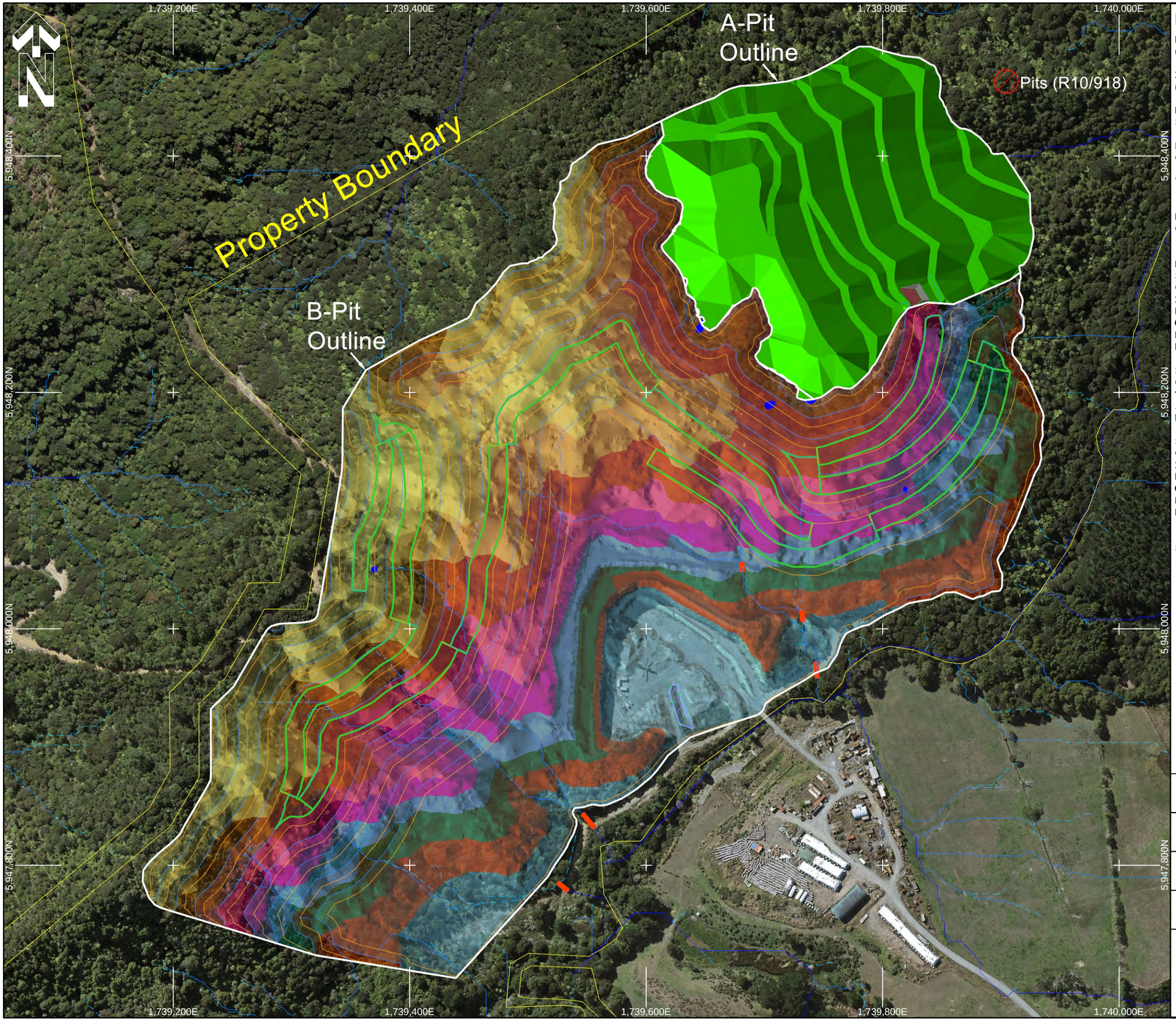
TITLE
STAGE 2: YEARS 36-40

Prepared By: MIKE CHILTON

Date Drawn: 6/09/2023 Revision: 4

CONSULTANT

AGGREtech
DEVELOPING YOUR RESOURCES
mike@aggretech.co.nz | 1416 Kairanga Bunnythorpe Road, RD 5, Palmerston North 4475 | 021 594 225



NOTES:

Background Image: Auckland 0.075m Rural Aerial Photos (2020), source: LINZ Data Service

10m Contours: Derived from Auckland North LiDAR 1m DEM (2016-2018), source: LINZ Data Service

Property Boundaries: NZ Primary Parcels source: LINZ Data Service & C&R Surveyors Feb 2019

Water Paths are from Bioresearches (2020)

FINAL PIT, FILL AND ROAD DESIGNS ARE SUBJECT TO GEOTECHNICAL APPROVAL

DESIGN PARAMETERS:
Stage 2 Design 4 (A-Pit)
Outline = 6.11ha
15m faces at 2V:1H gradient, 8m berms
Haul Road: 12m wide, gradient = 8H:1V
Overall Pit Slope Angle ≈ 43° at steepest point
Estimated Rock Extraction = 654,000 BCM
Estimated Overburden Removal = 306,000 BCM

Stage 2 Design 4 (A-Fill)
Outline = 6.11ha
15m faces at 28° gradient, 6m berms
Access Tracks: 6m wide, gradient = 8H:1V
Estimated Overburden Capacity = 1.7 million BCM

Stage 2 Design 4 (B-Pit)
Outline = 26.46ha
15m faces at 2V:1H gradient, (generally) 10m berms
Haul Road: 15m wide, gradient = 10H:1V
Overall Pit Slope Angle ≈ 41° at steepest point (southern end)
Estimated Rock Extraction = 8.0 million BCM
Estimated Overburden Removal = 1.2 million BCM

SRP design - by others.

0 metres 50 100 150 200

Scale: 1:3000 @ A3

Projection: NZGD 2000 New Zealand Transverse Mercator

CLIENT
SEMENOFF GROUP

PROJECT
KING'S QUARRY - STAGE 2

TITLE
STAGE 2: YEARS 41-45

Prepared By: MIKE CHILTON

Date Drawn: 6/09/2023 Revision: 4

CONSULTANT

AGGREtech
DEVELOPING YOUR RESOURCES
mike@aggretech.co.nz | 1416 Kairanga Bunnythorpe Road, RD 5, Palmerston North 4475 | 021 594 225

APPENDIX B

DESIGN CALCULATIONS

GD005 Sediment Retention Pond Design

Client:	Kings Quarry Ltd.		
Address:	306 Pebble Brook Road, Wainui	Project No.:	25050
Phase:	Resource Consent - Access Road	Doc ID:	364299
Prepared By:	Yoonhwa Choi	Date:	25/09/2023
Checked By:	Helena Dubinko	Date:	9/10/2023

1 Site Characteristics

Catchment Size	11000	m^2	*SRP catchment should be limited to 5ha*
Catchment Length	>200m		
Catchment Slope	<18%		*Greater of the immediate 20m from sediment pond or average catchment slope for both pre and post development*

2 Pond Sizing

Required Pond Volume	3%	=	330	m^3	
Pond Length			16	m	*Length to width ratio must be no less than 3:1 and no greater than 5:1*
Pond Width			5	m	
Pond Depth			2	m	*No deeper than 2m*
Length to Width Ratio			OK		
Inlet batter			3	:1	
Perimeter batter			2	:1	
Pond Volume			338	m^3	

Adopt a 16m long x 5m wide x 2m deep Sediment Retention Pond with a total of 338m3 volume

3 Decants

Recommended SRP Decant Flow Rate (3L/sec/ha)	3.3	L/sec	
Standard T-Bar decant flow rate	4.5	L/sec	*6 rows of 10mm holes at 60mm spacings (200 holes over 2m)*
Required number of T-bar decants	1		

Adopt 1 T-bar decants in SRP for the recommended 3.3L/sec flow rate

Iterate Dead Storage Level (First T-	0.9	m	108	m^3	*Initial decant must be able to raise to full extent of the sediment ponds live storage (70%)*
Required Dead Storage (30%)			101	m^3	

Install first T-bar decant system 0.9m above SRP base

Second Decanting T-bar range upper N/A of live storage

Second T-Bar Decant Not Required

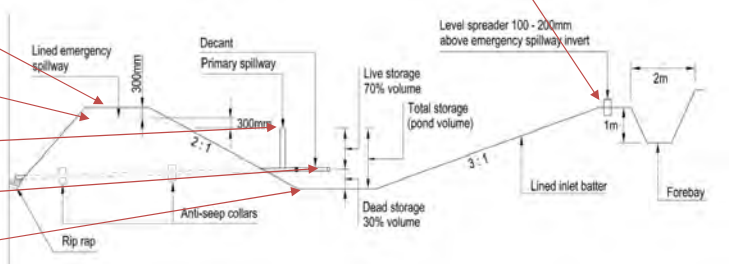
Third Decanting T-bar range upper N/A of live storage

Third T-Bar Decant Not Required

4 SRP Details

Top of Level Spreader: 2.4m

Top of Batter: 2.6m
Emergency Spillway: 2.3m
Primary Spillway 2m
Primary Decant: 0.9m
Base: 0m



SRP Cross-Section from Auckland Council GD005

5 Forebay

Recommended 5% of SRP total volume	17	m^3
Forebay base length	4.0	m
Forebay width	5	m

Adopt a 4m long x 5m wide x 1m deep Forebay with a total of 20m3 volume

GD005 Sediment Retention Pond Design

Client:	Kings Quarry Ltd.		
Address:	306 Pebble Brook Road, Wainui	Project No.:	25050
Phase:	Resource Consent - Fill Site	Doc ID:	364299
Prepared By:	Yoonhwa Choi	Date:	25/09/2023
Checked By:	Helena Dubinko	Date:	9/10/2023

1 Site Characteristics

Catchment Size	35000	m^2	*SRP catchment should be limited to 5ha*
Catchment Length	>200m		
Catchment Slope	<18%		*Greater of the immediate 20m from sediment pond or average catchment slope for both pre and post development*

2 Pond Sizing

Required Pond Volume	3%	=	1050	m^3	
Pond Length			35	m	*Length to width ratio must be no less than 3:1 and no greater than 5:1*
Pond Width			10	m	
Pond Depth			2	m	*No deeper than 2m*
Length to Width Ratio			OK		
Inlet batter			3	:1	
Perimeter batter			2	:1	
Pond Volume			1080	m^3	

Adopt a 35m long x 10m wide x 2m deep Sediment Retention Pond with a total of 1080m3 volume

3 Decants

Recommended SRP Decant Flow Rate (3L/sec/ha)	10.5	L/sec	
Standard T-Bar decant flow rate	4.5	L/sec	*6 rows of 10mm holes at 60mm spacings (200 holes over 2m)*
Required number of T-bar decants	3		

Adopt 3 T-bar decants in SRP for the recommended 10.5L/sec flow rate

Iterate Dead Storage Level (First T-	0.8	m	341	m^3	*Initial decant must be able to raise to full extent of the sediment ponds live storage (70%)*
Required Dead Storage (30%)			324	m^3	

Install first T-bar decant system 0.8m above SRP base

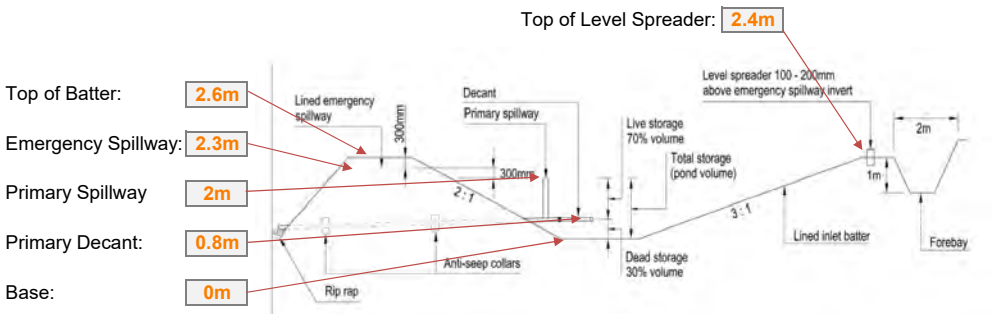
Second Decanting T-bar range — upper 66% of live storage

Install Second T-bar decant system to operate in upper 66% of live storage

Third Decanting T-bar range — upper 33% of live storage

Install Third T-bar decant system to operate in upper 33% of live storage

4 SRP Details



SRP Cross-Section from Auckland Council GD005

5 Forebay

Recommended 5% of SRP total volume	53	m^3
Forebay base length	6.0	m
Forebay width	10.0	m

Adopt a 6m long x 10m wide x 1m deep Forebay with a total of 60m3 volume

GD005 Sediment Retention Pond Design

Client:	Kings Quarry Ltd.		
Address:	306 Pebble Brook Road, Wainui	Project No.:	25050
Phase:	Resource Consent - Main Quarry	Doc ID:	364299
Prepared By:	Yoonhwa Choi	Date:	25/09/2023
Checked By:	Helena Dubinko	Date:	9/10/2023

1 Site Characteristics

Catchment Size	50000 m^2	*SRP catchment should be limited to 5ha*
Catchment Length	>200m	
Catchment Slope	>18%	*Greater of the immediate 20m from sediment pond or average catchment slope for both pre and post development*

2 Pond Sizing

Required Pond Volume	3%	=	1500 m^3	
Pond Length			44 m	*Length to width ratio must be no less than 3:1 and no greater than 5:1*
Pond Width			12 m	
Pond Depth			2 m	*No deeper than 2m*
Length to Width Ratio			OK	
Inlet batter			3 :1	
Perimeter batter			2 :1	
Pond Volume			1528 m^3	

Adopt a 44m long x 12m wide x 2m deep Sediment Retention Pond with a total of 1528m3 volume

3 Decants

Recommended SRP Decant Flow Rate (3L/sec/ha)	15 L/sec	
Standard T-Bar decant flow rate	4.5 L/sec	*6 rows of 10mm holes at 60mm spacings (200 holes over 2m)*
Required number of T-bar decants	4	

Adopt 4 T-bar decants in SRP for the recommended 15L/sec flow rate

Iterate Dead Storage Level (First T-	0.8 m		498 m^3	*Initial decant must be able to raise to full extent of the sediment ponds live storage (70%)*
Required Dead Storage (30%)			458 m^3	

Install first T-bar decant system 0.8m above SRP base

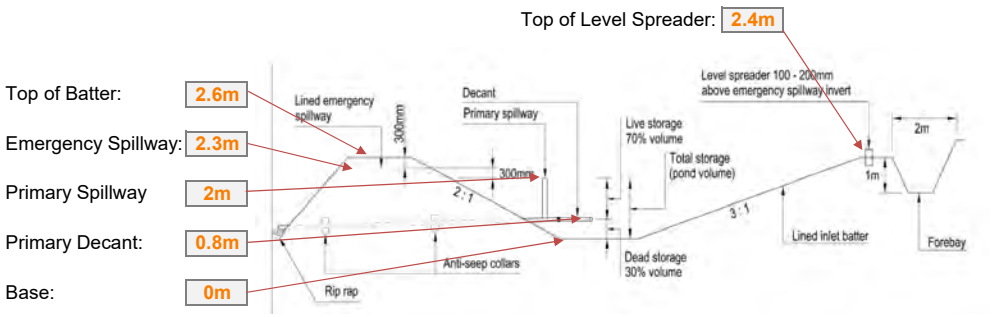
Second Decanting T-bar range upper 66% of live storage

Install Second T-bar decant system to operate in upper 66% of live storage

Third Decanting T-bar range upper 33% of live storage

Install Third T-bar decant system to operate in upper 33% of live storage

4 SRP Details



SRP Cross-Section from Auckland Council GD005

5 Forebay

Recommended 5% of SRP total volume	75 m^3	
Forebay base length	7.0 m	
Forebay width	12.0 m	

Adopt a 7m long x 12m wide x 1m deep Forebay with a total of 80m3 volume

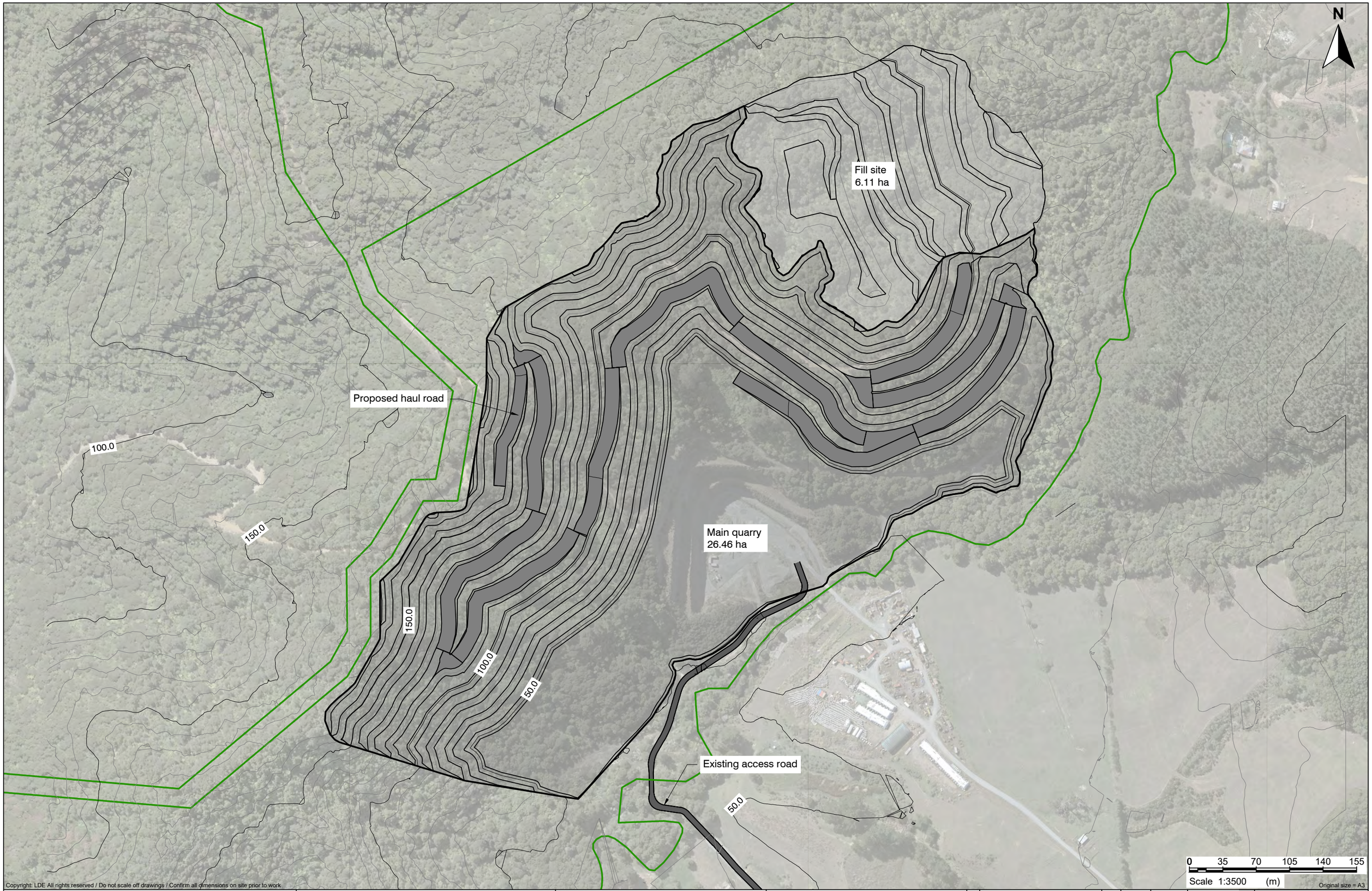
APPENDIX C

ESCP DESIGN PLANS

Project Number: 25050
Project Office: Auckland
Project Manager: Helena Dubinko

Erosion and Sediment Control Plans for Proposed Quarry Expansion Kings Quarry 306 Pebble Brook Road Wainui, Auckland

DRAWING INDEX				
SHEET	DESCRIPTION	ISSUE DATE	STATUS	REVISION
200	Overall Site Plan	3/03/2025	Consent	D
201	Sediment Control Plan - Year 1	3/03/2025	Consent	D
202	Sediment Control Plan - Year 2	3/03/2025	Consent	D
203	Sediment Control Plan - Year 3-4	3/03/2025	Consent	D
204	Sediment Control Plan - Year 5	3/03/2025	Consent	D
205	Sediment Control Plan - Year 6-10	3/03/2025	Consent	D
206	Sediment Control Plan - Year 11-15	3/03/2025	Consent	D
207	Sediment Control Plan - Year 16-20	3/03/2025	Consent	D
208	Sediment Control Plan - Year 21-25	3/03/2025	Consent	D
209	Sediment Control Plan - Year 26-30	3/03/2025	Consent	D
210	Sediment Control Plan - Year 31-35	3/03/2025	Consent	D
211	Sediment Control Plan - Year 36-40	3/03/2025	Consent	D
212	Sediment Control Plan - Year 41-45	3/03/2025	Consent	D
213	Device Details A	3/03/2025	Consent	D
214	Device Details B	3/03/2025	Consent	D
215	Device Details C	3/03/2025	Consent	D
216	Device Details D	3/03/2025	Consent	D



Client
Kings Quarry Ltd

Project
Kings Quarry
306 Pebble Brook Road
Wainui

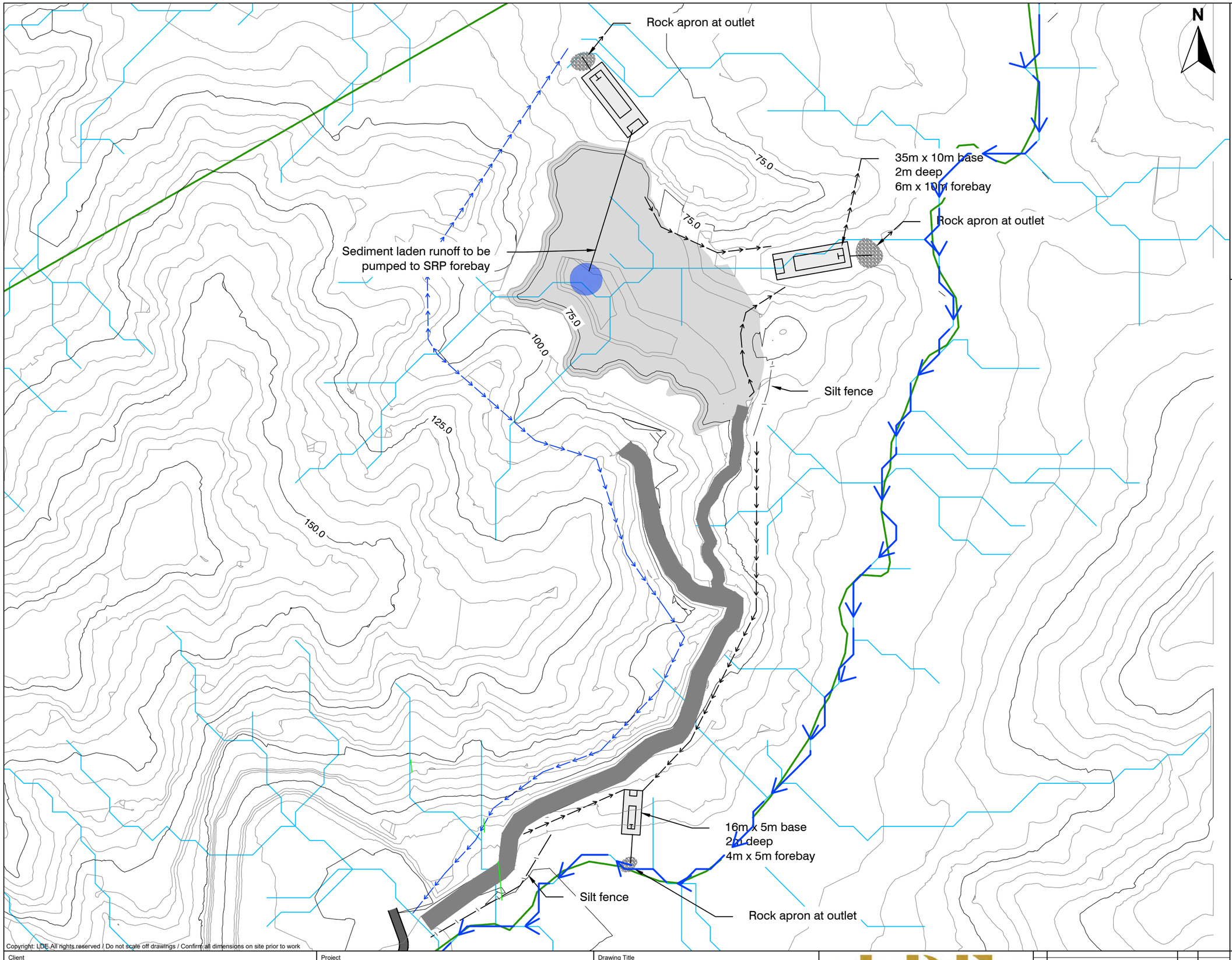
Drawing Title
Overall Site Plan

LDE engineers • scientists

No.	Issue/Revision	Aprvd	Date
D	Updated design issued for consent	HD	03Mar2025
B	Updated design issued for consent	HD	27/10/23
A	Issued for consent	HD	13/10/23

Design:	Y. Choi
Drawn:	Y. Choi
Approved:	H. Dubinko
Scale A3:	1:3500

Project status: Consent
Project: 25050
Drawing No: 200
Issue/Rev: D



Legend

- Property Boundary
- Contours Major 25.0m
- Contours Minor 5.0m
- Overland Flowpaths
- Waitoki Stream
- Proposed Earthworks Extents
- Culvert
- Clean Water Diversion Bund
- Dirty Water Diversion Bund
- Silt Fence

Notes:

1. Detailed ESC plans suitable for construction will be prepared and submitted to Council prior to commencement of physical works on site.
2. All sediment control measures must be operational prior to any other works commencing on site.
3. The contractor shall arrange for and attend a preliminary erosion control meeting on site with the engineer and/or Councils monitoring officer
4. The sediment pond shall be excavated to the required dimensions and the floating decanting device made operational before any topsoil stripping commences
5. All sediment ponds are to discharge to suitable locations with stabilised outfalls.
6. The main diversion drains shall remain operational at all times. Locations of diversions are indicative and may change on site as required, up to maximum catchments size.
7. The erosion and sediment control measures described on this plan are a minimum. Further control works may be required as the project progresses. These may include progress stabilisation or controls like mulch, hay, silt fences etc.
8. The proposed erosion and sediment control measures are subject to change depending on site constraints and works staging. The Councils monitoring officer should be notified of any changes.
9. The contractor is solely responsible for ensuring that the site has effective erosion control and sediment retention measures operating at all times.
10. Any collected sediment to be disposed to a suitable facility.
11. All sediment control measures are to comply with Auckland Council GD05.

0 25 50 75 100 125

Scale 1:2500 (m)

Original size = A3

Client: Kings Quarry Ltd

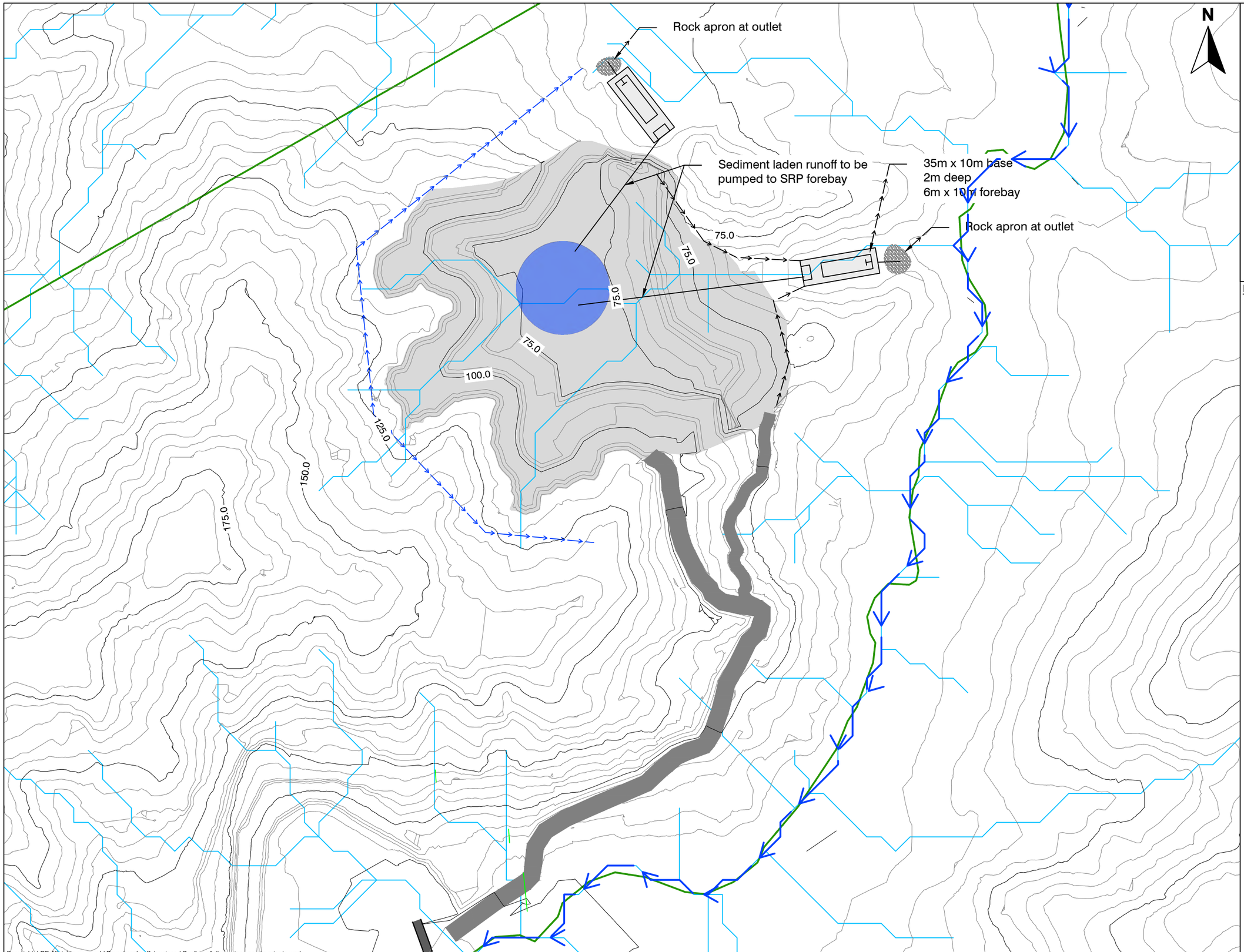
Project: Kings Quarry
306 Pebble Brook Road
Wainui

Drawing Title: Sediment Control Plan
Year 1

LDE engineers • scientists

No.	Issue/Revision	Aprvd	Date
D	Updated design issued for consent	HD	03Mar2025
B	Updated design issued for consent	HD	27/10/23
A	Issued for consent	HD	13/10/23

Design:	Y. Choi	Project status:	Consent
Drawn:	Y. Choi	Project:	25050
Approved:	H. Dubinko	Drawing No:	201
Scale A3:	1:2500	Issue/Rev:	D



Legend

- Property Boundary
- Contours Major 25.0m
- Contours Minor 5.0m
- Overland Flowpaths
- Waitoki Stream
- Proposed Earthworks Extents
- Culvert
- Clean Water Diversion Bund
- Dirty Water Diversion Bund
- Silt Fence

Notes:

1. Detailed ESC plans suitable for construction will be prepared and submitted to Council prior to commencement of physical works on site.
2. All sediment control measures must be operational prior to any other works commencing on site.
3. The contractor shall arrange for and attend a preliminary erosion control meeting on site with the engineer and/or Councils monitoring officer
4. The sediment pond shall be excavated to the required dimensions and the floating decanting device made operational before any topsoil stripping commences
5. All sediment ponds are to discharge to suitable locations with stabilised outfalls.
6. The main diversion drains shall remain operational at all times. Locations of diversions are indicative and may change on site as required, up to maximum catchments size.
7. The erosion and sediment control measures described on this plan are a minimum. Further control works may be required as the project progresses. These may include progress stabilisation or controls like mulch, hay, silt fences etc.
8. The proposed erosion and sediment control measures are subject to change depending on site constraints and works staging. The Councils monitoring officer should be notified of any changes.
9. The contractor is solely responsible for ensuring that the site has effective erosion control and sediment retention measures operating at all times.
10. Any collected sediment to be disposed to a suitable facility.
11. All sediment control measures are to comply with Auckland Council GD05.

0 25 50 75 100 125

Scale 1:2500 (m)

Original size = A3

Client: Kings Quarry Ltd

Project: Kings Quarry
306 Pebble Brook Road
Wainui

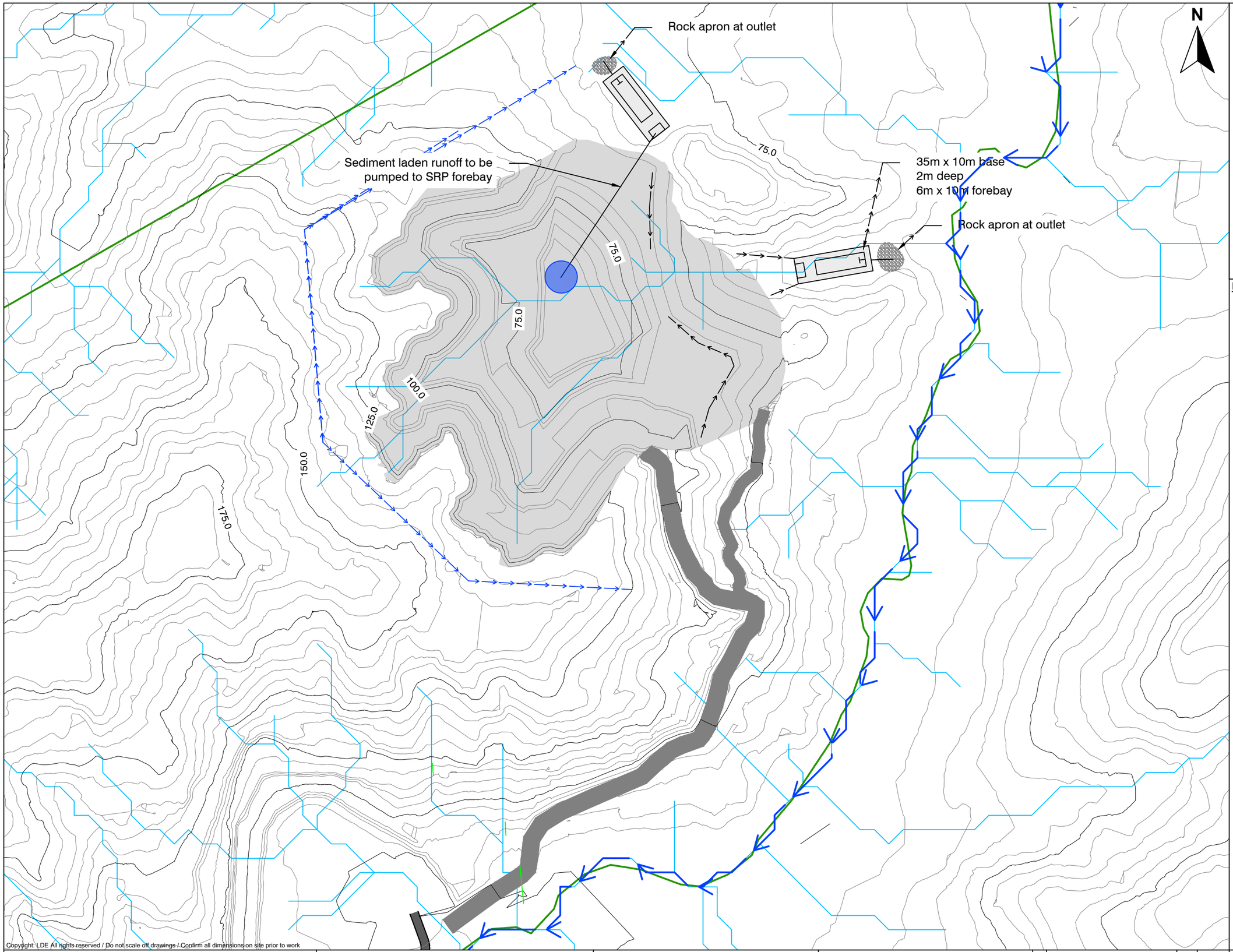
Drawing Title: Sediment Control Plan
Year 2

LDE engineers • scientists

No.	Issue/Revision	Aprvd	Date
D	Updated design issued for consent	HD	03Mar2025
B	Updated design issued for consent	HD	27/10/23
A	Issued for consnet	HD	13/10/23

Design:	Y. Choi
Drawn:	Y. Choi
Approved:	H. Dubinko
Scale A3:	1:2500

Project status: Consent
Project: 25050
Drawing No: 202
Issue/Rev: D



Legend

- Property Boundary
- Contours Major 25.0m
- Contours Minor 5.0m
- Overland Flowpaths
- Waitoki Stream
- Proposed Earthworks Extents
- Culvert
- Clean Water Diversion Bund
- Dirty Water Diversion Bund
- Silt Fence

Notes:

1. Detailed ESC plans suitable for construction will be prepared and submitted to Council prior to commencement of physical works on site.
2. All sediment control measures must be operational prior to any other works commencing on site.
3. The contractor shall arrange for and attend a preliminary erosion control meeting on site with the engineer and/or Councils monitoring officer
4. The sediment pond shall be excavated to the required dimensions and the floating decanting device made operational before any topsoil stripping commences
5. All sediment ponds are to discharge to suitable locations with stabilised outfalls.
6. The main diversion drains shall remain operational at all times. Locations of diversions are indicative and may change on site as required, up to maximum catchments size.
7. The erosion and sediment control measures described on this plan are a minimum. Further control works may be required as the project progresses. These may include progress stabilisation or controls like mulch, hay, silt fences etc.
8. The proposed erosion and sediment control measures are subject to change depending on site constraints and works staging. The Councils monitoring officer should be notified of any changes.
9. The contractor is solely responsible for ensuring that the site has effective erosion control and sediment retention measures operating at all times.
10. Any collected sediment to be disposed to a suitable facility.
11. All sediment control measures are to comply with Auckland Council GD05.

0 25 50 75 100 125

Scale 1:2500 (m)

Original size = A3

Client
Kings Quarry Ltd

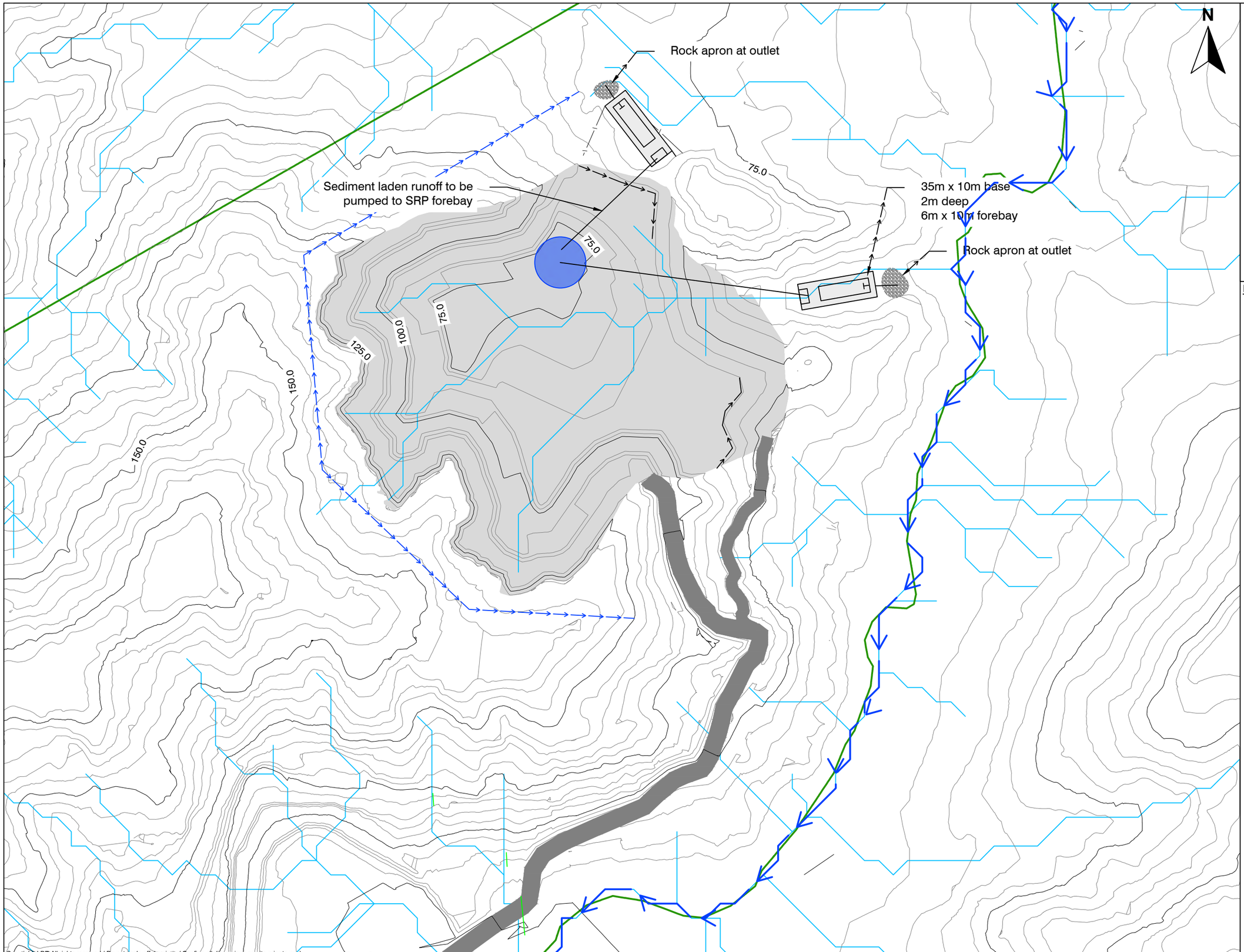
Project
Kings Quarry
306 Pebble Brook Road
Wainui

Drawing Title
Sediment Control Plan
Year 3-4

LDE engineers • scientists

No.	Issue/Revision	Aprvd	Date
D	Updated design issued for consent	HD	03Mar2025
B	Updated design issued for consent	HD	27/10/23
A	Issued for consent	HD	13/10/23

Design:	Y. Choi	Project status:	Consent
Drawn:	Y. Choi	Project:	25050
Approved:	H. Dubinko	Drawing No:	203
Scale A3:	1:2500	Issue/Rev:	D



Legend

- Property Boundary
- Contours Major 25.0m
- Contours Minor 5.0m
- Overland Flowpaths
- Waitoki Stream
- Proposed Earthworks Extents
- Culvert
- Clean Water Diversion Bund
- Dirty Water Diversion Bund
- Silt Fence

Notes:

1. Detailed ESC plans suitable for construction will be prepared and submitted to Council prior to commencement of physical works on site.
2. All sediment control measures must be operational prior to any other works commencing on site.
3. The contractor shall arrange for and attend a preliminary erosion control meeting on site with the engineer and/or Councils monitoring officer
4. The sediment pond shall be excavated to the required dimensions and the floating decanting device made operational before any topsoil stripping commences
5. All sediment ponds are to discharge to suitable locations with stabilised outfalls.
6. The main diversion drains shall remain operational at all times. Locations of diversions are indicative and may change on site as required, up to maximum catchments size.
7. The erosion and sediment control measures described on this plan are a minimum. Further control works may be required as the project progresses. These may include progress stabilisation or controls like mulch, hay, silt fences etc.
8. The proposed erosion and sediment control measures are subject to change depending on site constraints and works staging. The Councils monitoring officer should be notified of any changes.
9. The contractor is solely responsible for ensuring that the site has effective erosion control and sediment retention measures operating at all times.
10. Any collected sediment to be disposed to a suitable facility.
11. All sediment control measures are to comply with Auckland Council GD05.

0 25 50 75 100 125

Scale 1:2500 (m)

Original size = A3

Client: Kings Quarry Ltd

Project: Kings Quarry
306 Pebble Brook Road
Wainui

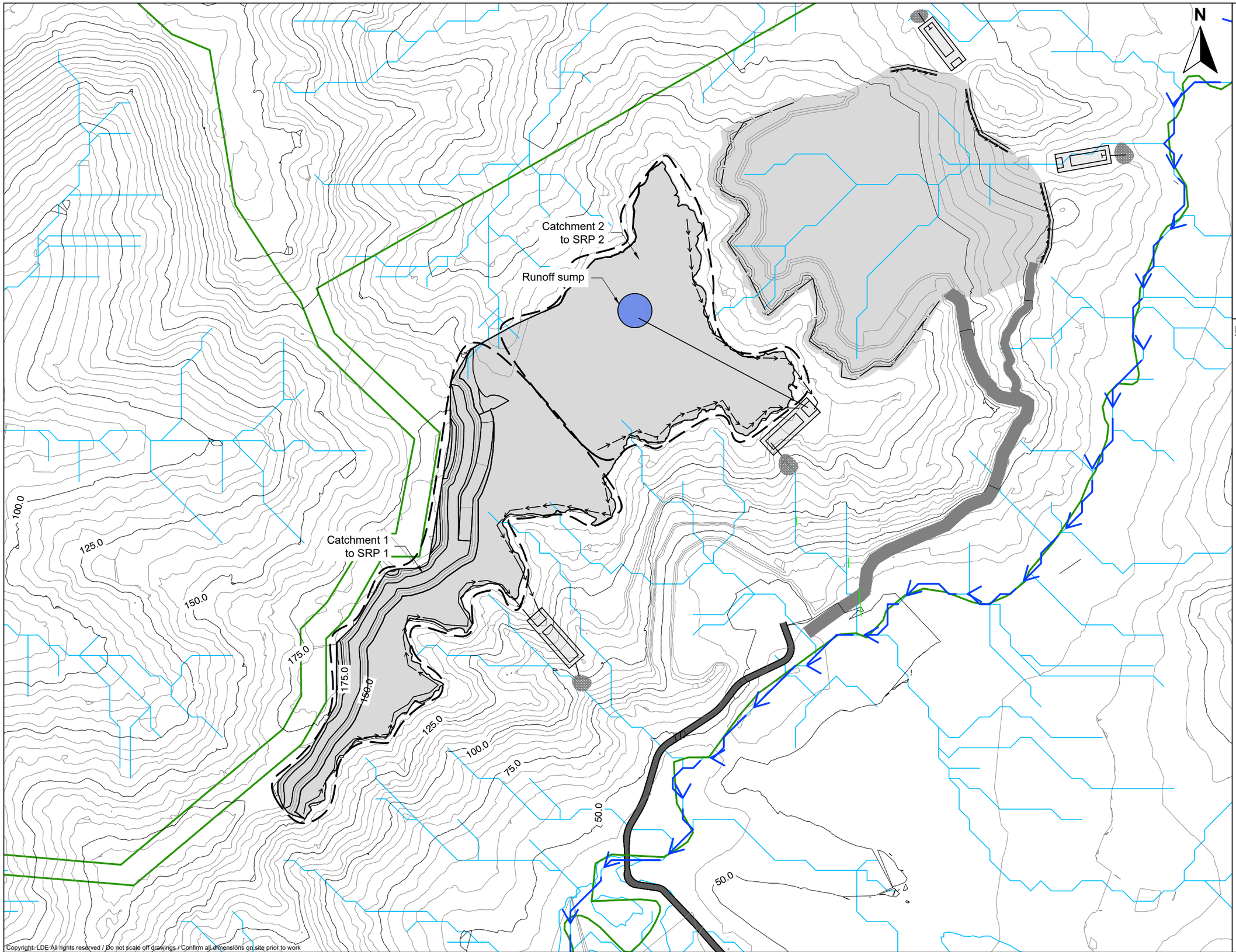
Drawing Title: Sediment Control Plan
Year 5

LDE engineers • scientists

No.	Issue/Revision	Aprvd	Date
D	Updated design issued for consent	HD	03Mar2025
B	Updated design issued for consent	HD	27/10/23
A	Issued for consent	HD	13/10/23

Design:	Y. Choi
Drawn:	Y. Choi
Approved:	H. Dubinko
Scale A3:	1:2500

Project status: Consent
Project: 25050
Drawing No: 204
Issue/Rev: D



N

Legend

- Property Boundary
- Contours Major 25.0m
- Contours Minor 5.0m
- Overland Flowpaths
- Waitoki Stream
- Proposed Earthworks Extents
- Culvert
- Clean Water Diversion Bund
- Dirty Water Diversion Bund
- Silt Fence
- Approx. catchment boundary (≤5Ha)

Notes:

1. Detailed ESC plans suitable for construction will be prepared and submitted to Council prior to commencement of physical works on site.
2. All sediment control measures must be operational prior to any other works commencing on site.
3. The contractor shall arrange for and attend a preliminary erosion control meeting on site with the engineer and/or Councils monitoring officer
4. The sediment pond shall be excavated to the required dimensions and the floating decanting device made operational before any topsoil stripping commences
5. All sediment ponds are to discharge to suitable locations with stabilised outfalls.
6. The main diversion drains shall remain operational at all times. Locations of diversions are indicative and may change on site as required, up to maximum catchments size.
7. The erosion and sediment control measures described on this plan are a minimum. Further control works may be required as the project progresses. These may include progress stabilisation or controls like mulch, hay, silt fences etc.
8. The proposed erosion and sediment control measures are subject to change depending on site constraints and works staging. The Councils monitoring officer should be notified of any changes.
9. The contractor is solely responsible for ensuring that the site has effective erosion control and sediment retention measures operating at all times.
10. Any collected sediment to be disposed to a suitable facility.
11. All sediment control measures are to comply with Auckland Council GD05.

0 35 70 105 140 155

Scale 1:3500 (m)

Original size = A3

Client: Kings Quarry Ltd

Project: Kings Quarry
306 Pebble Brook Road
Wainui

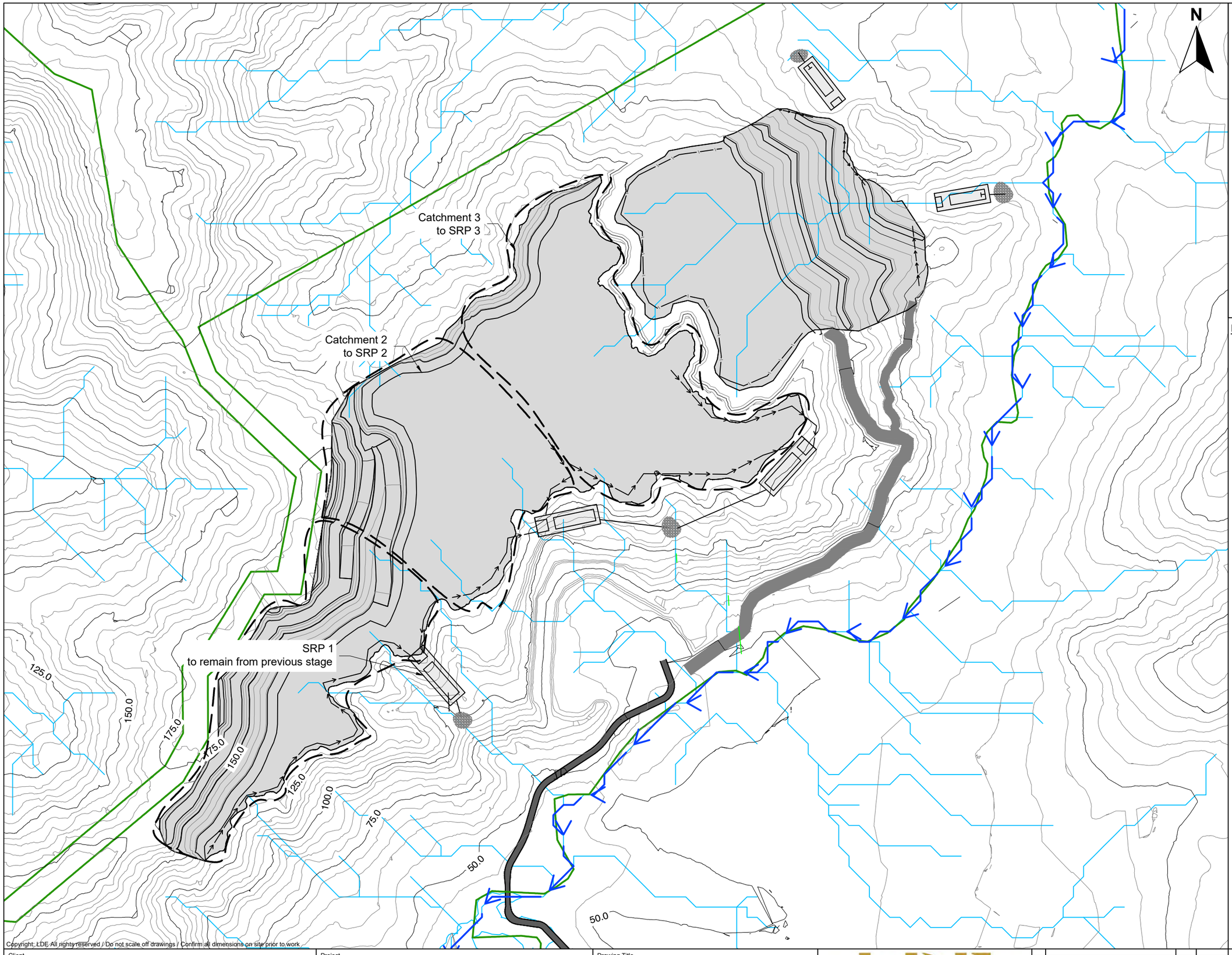
Drawing Title: Sediment Control Plan
Year 6-10

LDE engineers • scientists

No.	Issue/Revision	Aprvd	Date
D	Updated design issued for consent	HD	03Mar2025
B	Updated design issued for consent	HD	27/10/23
A	Issued for consent	HD	13/10/23

Design:	Y. Choi
Drawn:	Y. Choi
Approved:	H. Dubinko
Scale A3:	1:3500

Project status: Consent
Project: 25050
Drawing No: 205
Issue/Rev: D



Legend

- Property Boundary
- Contours Major 25.0m
- Contours Minor 5.0m
- Overland Flowpaths
- Waitoki Stream
- Proposed Earthworks Extents
- Culvert
- Clean Water Diversion Bund
- Dirty Water Diversion Bund
- Silt Fence
- Approx. catchment boundary (≤5Ha)

Notes:

1. Detailed ESC plans suitable for construction will be prepared and submitted to Council prior to commencement of physical works on site.
2. All sediment control measures must be operational prior to any other works commencing on site.
3. The contractor shall arrange for and attend a preliminary erosion control meeting on site with the engineer and/or Councils monitoring officer
4. The sediment pond shall be excavated to the required dimensions and the floating decanting device made operational before any topsoil stripping commences
5. All sediment ponds are to discharge to suitable locations with stabilised outfalls.
6. The main diversion drains shall remain operational at all times. Locations of diversions are indicative and may change on site as required, up to maximum catchments size.
7. The erosion and sediment control measures described on this plan are a minimum. Further control works may be required as the project progresses. These may include progress stabilisation or controls like mulch, hay, silt fences etc.
8. The proposed erosion and sediment control measures are subject to change depending on site constraints and works staging. The Councils monitoring officer should be notified of any changes.
9. The contractor is solely responsible for ensuring that the site has effective erosion control and sediment retention measures operating at all times.
10. Any collected sediment to be disposed to a suitable facility.
11. All sediment control measures are to comply with Auckland Council GD05.

0 35 70 105 140 155

Scale 1:3500 (m) Original size = A3

Client: Kings Quarry Ltd

Project: Kings Quarry
306 Pebble Brook Road
Wainui

Drawing Title: Sediment Control Plan
Year 11-15

LDE engineers • scientists

No.	Issue/Revision	Aprvd	Date
D	Updated design issued for consent	HD	03Mar2025
B	Updated design issued for consent	HD	27/10/23
A	Issued for consent	HD	13/10/23

Design:	Y. Choi
Drawn:	Y. Choi
Approved:	H. Dubinko
Scale A3:	1:3500

Project status: Consent
Project: 25050
Drawing No: 206
Issue/Rev: D