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**MATAKANUI GOLD LIMITED
BENDIGO-OPHIR GOLD PROJECT
SITE GEOTECHNICAL FACTUAL REPORT**

Prepared for:

08 August 2025

Matakanui Gold Limited

EXECUTIVE SUMMARY

Data and observations presented in this Site Geotechnical Factual Report relate to geology and landform features within the project study area and the results of geotechnical investigation completed during 2024 and 2025.

The investigation comprised field mapping, the drilling of seven machine boreholes and the excavation of 68 testpits. A total of 21 vibrating wire piezometers were installed in the geotechnical boreholes in this investigation. Insitu testing comprise selected standard penetration testing (SPT), acoustic televiewer and full sonic wave form testing. Selected material recovered from testpits were tested in the laboratory to assist with characterisation of site materials.

The geotechnical investigation and sampling undertaken are relevant for foundation conditions and construction material of the following BOGP facilities:

- Process Plant and Infrastructure Area
- Tailing Storage Facility
- Engineered Landforms, and
- Silt Ponds

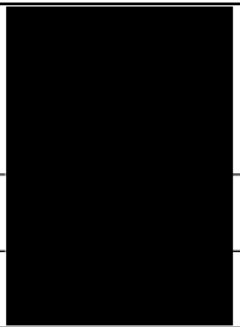
Interpretation and technical assessments of geotechnical factual information is provided in technical reports specific to each type of facility.

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Document applicability and disclaimers

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The author of this report acknowledges that this report will be relied on by a Panel appointed under the Fast Track Approvals Act 2024 and these disclaimers do not prevent that reliance.

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1.0 INTRODUCTION

Engineering Geology Limited (EGL) has been engaged by Matakanui Gold Limited (MGL) to provide this Site Geotechnical Factual Report for the Bendigo-Ophir Gold Project (BOGP). MGL is a subsidiary company of Santana Minerals Limited (SML). This report presents data and observations relating to the geology and landform features within the project study area and the results of a ground investigation programme of test pits and boreholes completed during 2024 and 2025.

MGL are proposing to establish the BOGP, which comprises a new gold mine, ancillary facilities, and environmental mitigation measures, on the Bendigo and Ardour Stations in the Dunstan Mountains of Central Otago. The location of the project study area is shown in Figure 1.

The BOGP involves mining the identified gold deposits at Rise and Shine ("RAS"), Come in Time ("CIT"), Sreks ("SRX") and Sreks East ("SRXE"). Both open pit and underground mining methods will be utilised within the project site. Infrastructure to support the project will be constructed in the lower Shepherds Valley. The Tailings Storage Facility (TSF) is to be constructed in the upper Shepherds Valley, upstream of an Engineered Landform (ELF) constructed of overburden rock.

This report presents factual data from geotechnical investigations relevant to the:

- Process Plant and Infrastructure Area
- Tailing Storage Facility
- Engineered Landforms, and
- Silt Ponds

Interpretation and technical assessments are provided in other reports.

1.1. Site Location

The proposed site is located approximately 20 km northeast of Cromwell as shown in Figure 1. It is on the edge of the Bendigo Terrace and within the Dunstan Mountains of Central Otago.

1.2. Project Description

The proposed site layout is shown on Figure 2. The proposed mine site will comprise the following surface infrastructure:

- Worker Accommodation and Administration Buildings
- Access Road into the mine site,
- Processing Plant and Infrastructure Area,
- Shepherds Creek realignment,
- Access tracks,
- Clean water diversion channels,
- Haul roads,
- Topsoil stockpiles
- Engineered landforms (ELFs – storing mined overburden rock),
- Tailing Storage Facility (TSF),
- Seepage Collection Sump, and
- Silt ponds

1.3. Site topography and catchments

The site topography, named creeks, and main catchments are shown in Figure 3. The site extends across the gravels of the Bendigo Terrace and schist rock of the Dunstan Mountains.

The identified gold deposits are approximately located within schist rock found between the Shepherds Creek and the slopes to the southwest of Rise and Shine Creek.

Both creek catchments start from a divide at approximately 950 mRL in the southeast and flow to the northwest. The creeks flow over schist rock within the valleys and onto gravel terraces in the northwest. Shepherds Creek is approximately 150 m lower than Rise and Shine Creek. The ridge between the creeks is approximately 60 to 190 m above the floor of Rise and Shine Creek, and 200 to 350 m above the floor of Shepherds Creek. Rise and Shine Creek flows into Clearwater Creek at approximately 650 mRL which in turn flows into Bendigo Creek at about 570 mRL. Shepherds Creek and Bendigo Creeks flow off the schist rock onto gravel terraces at approximately 350 mRL.

Shepherds Creek is a tributary to the Lindis River, which flows to the Clutha River. Rise and Shine Creek flows into Clearwater Creek, and then Bendigo Creek which is a tributary of the Clutha River. Under normal flows Shepherds Creek has no surface flow connection with the Lindis River with the surface water infiltrating the gravels. Both Bendigo Creek and Shepherds Creek have surface water takes which reduce flows across and into the gravels. Bendigo Creek also has no surface flow connection to the Clutha River for most of the year.

2.0 GEOLOGY

2.1. Geological Units

The following geological description of the strata that is inferred to underlie the BOGP is based on a review of available site-specific investigation results and information published on the Geological and Nuclear Science (GNS) 1:250,00 scale geological map (Ref. 1) and in the memoir “Geology of the Wakatipu Area” by Turnbull et al (2000) (Ref. 2). The relevant excerpt from the GNS geological map is presented as Figure 4.

The summary of the main geological units within the Project Study Area are as follows (after Turnbull et al 2000. Ref. 2):

Dredge Tailings and sluiced gravels (Q1n): Washed and redeposited quartz -schist gravels and sand. This unit was encountered as a veneer overlying other pre-existing surfaces down stream of historic gold workings.

Loess: These deposits are not mapped on geological maps of the area and are described in the geological memoir as “*too thin, diffuse and complex to be shown on a map*”. Locally, on the lower flatter slopes the loess may have been deposited as a thin ‘blanket deposit’ with a depth of 1 to 2m thick while on steeper slopes it has been remobilised and forms a thin loess / colluvium slope wash unit containing material from the underlying rock.

Holocene Landslide Deposits (Q1l): Deposits ranging from shattered rock to clay and boulder breccias. These materials are typically derived from underlying adjacent rocks. It may be described in some references as colluvium and slope wash deposits.

Undifferentiated Quaternary landslide deposits (uQl): These deposits are older than the Holocene deposits but have a similar composition. In some locations they may have been overlain by more recent Holocene landslide deposits.

Alluvial Deposits and Fans (Q1a & Q1af): Undifferentiated, typically unconsolidated, variable weathered gravels with interbeds of sands, silts and clays. This unit was generally encountered in the valley floor. These materials comprise clays, silts, sands and gravels derived from parent materials upslope of the deposition location.

Till (Q12t & Q16t): These deposits comprise till and outwash gravels. They are generally present as terraces against the western side of the Dunstan Mountains to the east of the Lindis River.

Torlesse TZ3 Schist (*Rakaia Terrane, Whakatipu Group*) (Yt3): Permian to Triassic era undifferentiated pelitic and psammitic schist and greenschist sequences. This unit may be locally weathered to a silty gravel.

Torlesse TZ4 Schist (*Rakaia Terrane, Whakatipu Group*) (Yt4): Permian to Triassic era undifferentiated pelitic and psammitic schist and greenschist sequences. This unit may be variable segregated, veined and foliated.

Thomson Gorge Fault Gouge: This deposit was not noted on the geological map. It typically comprises a band of material 2 to 10m thick derived from movement on the Thomson Gorge Fault. In general, this material comprises clays with some angular gravel. The fault gouge forms a ‘marker bed’ separating the TZ3 and TZ4 schist within the Study Area.

2.2. Structural Geology

Torlesse TZ3 and TZ4 schist within and adjacent to the project study area outcrops in many locations. Figure 5 presents the orientation of joints, foliation and shear zones on schist outcrop as measured in the field. Figure 5 also illustrates interpreted foliation form lines and the location of local fault / shears within the schist as interpreted by the site geologists.

2.3. Landforms

General natural and manmade landform features are annotated on Figure 6. These are compiled from visual observations undertaken by EGL and MGL geologists and are subject to interpretation. The annotated features comprise, landslides, hummocky ground, and areas of sluiced ground from historic gold mining.

3.0 GROUND INVESTIGATION OBJECTIVES

The objectives of the geotechnical investigation documented in this report was to:

- Characterise the ground conditions in the Lower Shepherds Valley for planning bulk earthworks and provide preliminary geotechnical design parameters for the mine infrastructure.
- Characterise the depth and rock quality within the foundations of the Tailings Storage Facility (TSF).
- Characterise the ground strength and conditions for the Engineering Landform structures (ELFs).
- Enable the installation of groundwater monitoring standpipes and vibrating wire piezometers for groundwater level characterisation.
- Enable in-situ permeability testing.
- Enable sampling and associated geotechnical laboratory testing.

Many exploration boreholes have been drilled around the mineralised deposits. Exploration boreholes generally target the gold mineralisation zones in the Torlesse TZ4 Schist. They typically start diamond core recovery a short length above the Thompson Gorge Fault in the TZ3 and extend through mineralised material to end in unmineralised TZ4. Exploration boreholes designed to collect diamond core through TZ3 schist (e.g. geotechnical investigation of the rock mass around planned open pit high walls) typically have recovery in excess of 95%. The exploration borehole logs are not presented in this report. The locations of selected exploration boreholes are shown on Figures E2 and F3 in Appendix A around the proposed Process Plant as they provide some information on the rock in this area as the TZ3 and TZ4 contact outcrops at the surface around this area.

4.0 GROUND INVESTIGATIONS

4.1. 2024/2025 Investigation

The 2024/2025 geotechnical investigation program targeted the:

- Rise and Shine Valley
- Shepherds Process Plant and Infrastructure Area
- Shepherds Tailing Storage Facility
- Shepherds Engineered Landform, and
- Shepherds Creek Silt Pond

The program used the following investigation methodologies:

- Test pits, and
- Machine drilled boreholes.

The location of the geotechnical test pits and boreholes are shown on the figures presented in Appendix A.

4.1.1. Machine Boreholes

A series of seven rotary cored boreholes (RC) were drilled by Alton Drilling Limited to investigate locations of interest within the Rise and Shine and Shepherds Valleys. The geotechnical boreholes were drilled using the exploration drill rig. The boreholes were numbered using the internal MGL system.

A table summarising the geotechnical borehole drilling is in Table 1. Borehole logs and core photographs are in Appendix B.

Geotechnical boreholes MDD362 and MDD365 targeted lower Shepherds Valley where the Process Plant and Infrastructure Area was proposed to be sited. Boreholes MDD362 and MDD365 are shown in Figure F3 in Appendix A. Around this area as shown on Figures E2 and F3 in Appendix A are reference exploration holes MRC060, MRC063, MRC071, MRC071R, MRC072, MRC072R, MRC073, MRC077, MRC078, MRC243, MRC243, MRC244, MRC245, MRC246, MRC247 and MRC248. Refer to MGL for exploration borehole information.

Geotechnical boreholes MDD394, MDD396, and MDD399 targeted the Shepherds TSF embankment location.

Geotechnical boreholes MDD333 and MDD327 targeted general areas of interest in Rise and Shine Valley.

4.1.2. Testpits

The test pits were excavated by a 20-tonne hydraulic excavator with a nominal maximum excavation depth of approximately 7m (if ground conditions allowed).

The test pits were logged by EGL or MGL geologists. Typically, the test pits which were logged by EGL have the naming convention prefix “EGLTP” while the test pits that were logged by MGL have the naming convention prefix “MTP”.

56 testpits have been excavated within the Shepherds Valley and 12 have been excavated within the Rise and Shine Valley. The test pits were numbered sequentially with the naming convention prefix of EGL or MTP as appropriate.

A tabulated list of testpits is in Table 2.

Test pit logs and photographs are in Appendix C.

4.1.3. Logging Standards

Full time supervision of the test pits was undertaken by a geologist from EGL or MGL.

Part time supervision of the machine boreholes was undertaken by an MGL geologist, with the recovered core either being logged adjacent to the drill rig or at the MGL core shed.

All test pits and machine boreholes were logged in general accordance with the relevant guidelines which are set out in the New Zealand Geotechnical Society publication “Field Description of Soil and Rock: Guidelines for the Field Description of Soil and Rock for Engineering Purposes.” (2005) (Ref . 3).

4.1.4. Standard Penetration Testing (SPT)

In-situ Standard Penetration Tests (SPT's) were undertaken in some holes as the hole was advanced through the surficial soils. Such testing was completed in accordance with the relevant recommendations of New Zealand Standard 4402.6.5.1:1988 Determination of the penetration resistance of a soil, Test Method 6.5.1 Standard Penetration Test (Ref. 4).

SPT testing was generally undertaken until a depth where three subsequent ‘N’ counts greater than 50 had been recorded. Further SPT tests were not undertaken after this point.

The Standard Penetration Test (SPT) is an in-situ test that measures the number of blows required to penetrate a split spoon (in cohesive materials) or steel solid cone (in granular materials or weak rock) 300 mm into the material being tested (following a 150 mm deep initial seating). The number of blows required to drive the SPT tip 300 mm into the subject material is quoted as the SPT ‘N’ value. In situations where the number of blows to penetrate 300mm exceeds 50, the depth which the split spoon or cone has penetrated after 50 blows is recorded and is used to extrapolate a pro-rata SPT N-value.

For those situations where the SPT N-value is greater than 50 blows, the actual distance penetrated is recorded in the ‘in-situ testing’ column on the borehole logs.

Prior to the 300mm test length a 150mm seating drive length is penetrated. In cases where the test is discontinued before the full seating drive has been penetrated (i.e. when 50 blows have been achieved prior in less than the 150mm seating drive length), extrapolated ‘N’ values are quoted based on the blow counts and penetration measured within the seating drive length. This is noted within the ‘in-situ testing’ column on the borehole logs.

No additional correction to the SPT result is recorded on the borehole logs.

5.0 GROUNDWATER MONITORING INSTALLATIONS

A total of 21 of vibrating wire piezometers (VWP's) were installed within seven separate boreholes by staff from MGL. The boreholes and piezometer installation depths are provided in Table 3 and Piezometer installation details presented in Appendix D.

All VWP's were installed as fully grouted (cement-bentonite grout) piezometers. A 25mm PVC 'tremmie' tube with the vibrating wires attached on the outside of the tube was permanently installed in the borehole. This technique allows control of the vibrating wire tip depth.

6.0 GROUNDWATER MONITORING

Periodic monitoring of the groundwater level has been undertaken by the MGL field geologists.

The initial groundwater level monitoring data is presented in Appendix E.

7.0 PERMEABILITY TESTING

7.1. Falling Head Testing

Falling head testing was done in the soils and weaker rock at the top of the boreholes, where packer testing was not achievable. This comprised advancing the drilling casing to the target depth and retracing it to expose a test zone. The casing was then filled with water and the fall of the water in the casing was monitored over time. The summary of falling head testing is presented in Table 4.

7.2. Packer Permeability Testing

Packer permeability testing was undertaken in selected boreholes where an effective seal was achievable. Typically, the testing used a single packer as the boreholes were advanced. The purpose of the packer testing was to determine the permeability of the Torlesse TZ3 and TZ4 Schist and associated fault or shear zones.

The Packer permeability test data is presented in Appendix F. A summary of the packer testing is presented in Table 4.

8.0 LABORATORY TESTING

Representative samples were retrieved from select boreholes and testing undertaken at the Central Testing Laboratory (CTL) facility in Alexandria. The purpose of this testing was to inform characterisation of the various materials that were encountered onsite.

The laboratory testing undertaken by CTL, as appropriate, in accordance with the following relevant standards.

- Atterberg Limits: NZS4402,1986; tests 2.2, 2.3 and 2.4
- Triaxial Permeability: BS1377:1990 Part 6 Section 6

- Natural Moisture Content: NZS4402, 1986; test 2.1
- Particle Size Distribution (PSD):
 - Hydrometer Grading: NZS4402:1986 Test 2.8.4
 - Wet Sieve NZS4402:1986 Test 2.8.1

A summary of laboratory tests is presented in Table 5.

Full details of the laboratory test results are presented in Appendix G.

9.0 INSITU ACOUSTIC TELEVIEWER AND SONIC WAVE FORM TESTING

Insitu acoustic televiewer testing and full sonic wave form testing was undertaken by Southern Geophysical Limited. Testing was undertaken in boreholes MDD333 in the Rise and Shine Valley and MDD399 in Shepherds Valley at the Shepherds TSF location.

The acoustic televiewer testing is to be used to correlate against core measurements of dip and dip direction of foliation and jointing measured in the boreholes.

The purpose of the full sonic testing was to obtain shear wave velocities and primary wave velocities of the underlying rock.

The data is presented in Appendix H.

10.0 REFERENCES

1. GNS. (2018). GNS Geological Map of New Zealand 1:250,000
2. Turnbull, I. M. (2000). Geology of the Wakatipu Area. Institute of Geological & Nuclear Sciences Limited.
3. New Zealand Geotechnical Society (2005). Guidelines description of soil and rock for engineering purposes
4. New Zealand Standard 4402.6.5.1:1988 Determination Test Method 6.5.1 Standard Penetration Test.

TABLES

TABLE 1. SUMMARY OF BOREHOLE INVESTIGATIONS.

Borehole Number	Easting (mE)	Northing (mN)	Elevation (mRL)	Depth (m)	Reason for termination	Groundwater Depth
MDD327	1319076	5015882	758	70.0	Target depth	-
MDD333	1318599	5016226	736	45.0	Target depth	-
MDD362	1316258	5018870	731.78	35.0	Target depth	-
MDD365	1316751	5018614.70	766.19	44.3	Target depth	-
MDD394	1319759.6	5017190.4	594.6	30.0	Target depth	
MDD396	1319794.5	5017294.5	628.2	70.1	Target depth	
MDD399	1319629.1	5017032.7	683.9	70.1	Target depth	

TABLE 2. SUMMARY OF TEST PIT INVESTIGATIONS.

Test Pit Number	Easting (mE)	Northing (mN)	Elevation (mRL)	Depth (m)	Reason for termination	Groundwater Depth
EGLTP01	1318256	5016437	734.7	2.5	Refusal	-
EGLTP02	1318356	5016320	735.5	1.9	Refusal	1.8
EGLTP03	1318419	5016227	745.0	1.8	Refusal	-
EGLTP04	1318596	5016244	743.2	2.6	Refusal	1.7
EGLTP05	1318484	5016163	750.4	0.9	Refusal	-
EGLTP06	1318625	5016210	741.7	2.4	Refusal	2.2
EGLTP07	1318837	5015974	754.9	2.4	Refusal	-
EGLTP08	1318895	5015999	754.9	2.9	Refusal	-
EGLTP09	1318988	5016001	761.0	1.3	Refusal	-
EGLTP10	1319080	5015894	759.3	2.7	Refusal	2.0
EGLTP11	1318906	5015709	825.5	0.4	Refusal	-
EGLTP12	1318819	5015847	788.2	0.3	Refusal	-
MTP01	1316671	5018646	-	6.0	Target Depth	5.6
MTP02	1316500	5018713	-	6.0	Target Depth	4.0
MTP03	1316387	5018772	-	4.0	Refusal	3.0
MTP04	1316380	5018755	-	4.1	Refusal	-
MTP05	1316420	5018812	-	7.0	Target Depth	-
MTP06	1316414	5018801	-	7.0	Target Depth	5.0
MTP07	1316356	5018867	-	6.0	Target Depth	-
MTP08	1316041	5019118	-	5.0	Refusal	4.5
MTP09	1316100	5019058	-	7.0	Target Depth	5.0
MTP10	1315960	5019155	-	7.0	Target Depth	7.0
MTP11	1315942	5019119	-	5.0	Target Depth	3.8
MTP12	1316133	5018989	-	6.0	Refusal	3.5
MTP13	1316232	5018841	-	6.5	Target Depth	-
MTP14	1316087	5019006	-	6.5	Target Depth	6.2
MTP15	1316144	5018940	-	4.5	Refusal	3.2
MTP16	1316288	5018828	-	6.5	Target Depth	6.0
MTP17	1316345	5018779	-	1.0	Refusal	-
MTP18	1316358	5018814	-	6.5	Target Depth	4.0
MTP19	1316306	5018800	-	2.5	Refusal	-
MTP20	1316428	5018725	-	5.5	Refusal	-
MTP21	1317720	5018320	-	2.5	Refusal	-
MTP22	1317605	5018412	-	5.5	Refusal	3.8
MTP23	1316871	5018638	-	6.0	Target Depth	3.0
MTP24	1316764	5018601	-	7.5	Target Depth	-

MTP25	1316746	5018646	-	4.5	Refusal	3.0
MTP26	1316056	5018915	-	3.5	Refusal	-
MTP27	1319109	5017662	-	3.0	Refusal	-
MTP28	1319221	5017654	-	2.0	Refusal	1.8
MTP29	1318550	5017889	-	2.8	Refusal	2.8
MTP30	1318491	5017956	-	3.5	Refusal	3.5
MTP31	1318383	5017970	-	2.3	Refusal	2.3
MTP32	1318478	5017971	-	0.0	Refusal	-
MTP33	1319852	5017117	-	5.0	Refusal	-
MTP34	1319901	5016998	-	3.0	Refusal	-
MTP35	1319709	5017224	-	3.2	Refusal	-
MTP36	1319779	5017103	-	4.4	Refusal	-
MTP37	1318345	5018273	-	2.8	Refusal	2.7
MTP38	1319594	5017241	-	3.0	Refusal	-
MTP39	1319409	5017431	-	2.4	Refusal	2.3
MTP40	1315509	5019447	-	7.0	Target Depth	-
MTP41	1315509	5019488	-	7.5	Target Depth	-
MTP42	1315293	5019891	-	7.0	Target Depth	-
MTP43	1315234	5019984	-	6.0	Target Depth	-
MTP44	1315206	5019965	-	7.0	Target Depth	-
MTP45	1315045	5020491	-	6.0	Target Depth	-
MTP46	1315063	5020510	-	6.5	Target Depth	-
MTP47	1316637	5018629	423.398	2.8	Target Depth	-
MTP48	1316660	5018644	423.651	3.1	Target Depth	-
MTP49	1316659	5018632	423.297	3.1	Target Depth	-
MTP050	1316726	5018592	431.79	4.1	Target Depth	-
MTP051	1316720	5018581	432.317	6.9	Target Depth	-
MTP052	1316732	5018648	426.829	3.2	Target Depth	-
MTP053	1316803	5018621	430.258	3.8	Target Depth	-
MTP054	1316821	5018591	431.624	3.6	Target Depth	-
MTP055	1316891	5018614	431.521	3.5	Target Depth	-
MTP056				4.2	Target Depth	-

Note: RL of test pits to be confirmed

TABLE 3 – SUMMARY OF PIEZOMETER INSTALLATIONS

BH ID	PIEZO TYPE	TIP LEVEL (RL)	GEOLOGY
MDD327	VIBRATING WIRE	748.26	TZ3
MDD327	VIBRATING WIRE	723.66	TZ3
MDD327	VIBRATING WIRE	694.66	TZ4
MDD333	VIBRATING WIRE	726.02	TZ3
MDD333	VIBRATING WIRE	708.02	TZ3
MDD333	VIBRATING WIRE	698.02	TZ4
MDD362	VIBRATING WIRE	404.34	TZ3
MDD362	VIBRATING WIRE	394.34	TZ3
MDD362	VIBRATING WIRE	379.34	TZ3
MDD365	VIBRATING WIRE	425.60	TZ3
MDD365	VIBRATING WIRE	415.60	TZ3
MDD365	VIBRATING WIRE	398.60	TZ3
MDD394	VIBRATING WIRE	584.63	TZ3
MDD394	VIBRATING WIRE	579.63	TZ3
MDD394	VIBRATING WIRE	596.63	TZ3
MDD396	VIBRATING WIRE	603.19	TZ3
MDD396	VIBRATING WIRE	583.19	TZ3
MDD396	VIBRATING WIRE	569.19	TZ3
MDD399	VIBRATING WIRE	648.85	TZ3
MDD399	VIBRATING WIRE	638.85	TZ3
MDD399	VIBRATING WIRE	618.8	TZ3

TABLE 4 – SUMMARY OF PERMEABILITY TESTING

BH ID	DEPTH (m)	Test type	Permeability Value k (m/s)	NOTES
MDD327	49.4m to 54.9m	Packer	9.20E-07	Void Filling
MDD327	63.1m to 64.4m	Packer	1.30E-06	Dilation
MDD362	20.7m to 28.2m	Packer	3.10E-07	Void filling
MDD362	29.9m to 35m	Packer	4.50E-09	
MDD365	35.3m to 41.3m	Packer	1.20E-09	
MDD394	5 to 7	Falling Head	2.90E-07	
MDD394	8 to 10	Falling Head	4.00E-08	
MDD394	11 to 13	Falling Head	1.80E-08	Artesian
MDD394	13.4 to 16	Falling Head	8.20E-09	
MDD394	11.5 to 16	Packer	2.00E-06	Dilation
MDD394	23 to 28.4	Packer	7.10E-07	Dilation
MDD396	5 to 7	Falling Head	4.50E-06	
MDD396	8 to 10	Falling Head	4.30E-06	
MDD396	19 to 22	Falling Head	4.00E-06	
MDD396	19 to 22	Packer	8.80E-08	Void filling
MDD396	41.3 to 44	Packer	1.80E-07	Void filling
MDD396	50.4 to 54	Packer	2.80E-07	Void filling
MDD396	61 to 64	Packer	7.8E-07	
MDD396	64 to 70.1	Packer	4.50E-08	Void filling
MDD399	5 to 7	Falling Head	3.30E-06	
MDD399	8 to 10	Falling Head	6.50E-06	
MDD399	11 to 13	Falling Head	6.20E-06	
MDD399	15 to 17	Falling Head	6.40E-06	
MDD399	17 to 19	Falling Head	6.40E-06	
MDD399	20 to 22	Falling Head	6.30E-06	
MDD399	25 to 27	Falling Head	7.30E-06	
MDD399	62.2 to 65.3	Packer	7.00E-06	Void Filling

TABLE 5 - SUMMARY OF LABORATORY TESTING

Field Sampling			Lab Testing									
Samples Names	Sample Size	Sample number	Particle Solid Density	Natural Moisture Content	Organic Content	Weathering	Crushing Resistance	Atterberg Limit	Wet Sieve	Hydrometer	Compaction curve (Standard)	Compaction Curve (heavy)
TZ4 PQ Material	150kg		yes	-	-	yes	yes	-	yes	-	-	-
Cherri Terrace cobbles/boulders	150 kg	MG 41762	-	-	-	yes	yes	-	-	-	-	-
Cherri Terrace Fines/gravel	80kg	MG 41761	yes	yes	-	-	-	yes	yes	yes	yes	yes
Bendigo Borrow – Terrace Gravel	150kg	MG 41764	-	-	-	yes	yes	-	-	-	-	-
Bendigo Borrow – Terrace Gravel Fines	60kg	MG 41763	yes	Yes	-	-	-	yes	yes	yes	-	-
Loess	80kg	MG 41754	yes	yes	-	-	-	yes	yes	yes	yes	yes
		MG 41756										
Weathered brown schist x2	150kg	MG 41755	yes (SD test one 1 sample)	yes	-	-	-	Yes	yes	yes	yes	yes
		MG 41758										
Topsoil x3	5kg	MG 41757	yes (SD test only 1 sample)	yes	yes	-	-	-	yes	yes	-	-
		MG 41759										
		MG 41760										
Alluvium/colluvium	150kg	MG41765	yes	-	-	-	-	yes	yes	yes	yes	
		Number of Tests	6	5	3	3	3	5	5	5	3	

Key:

yes

 Test Completed

FIGURES

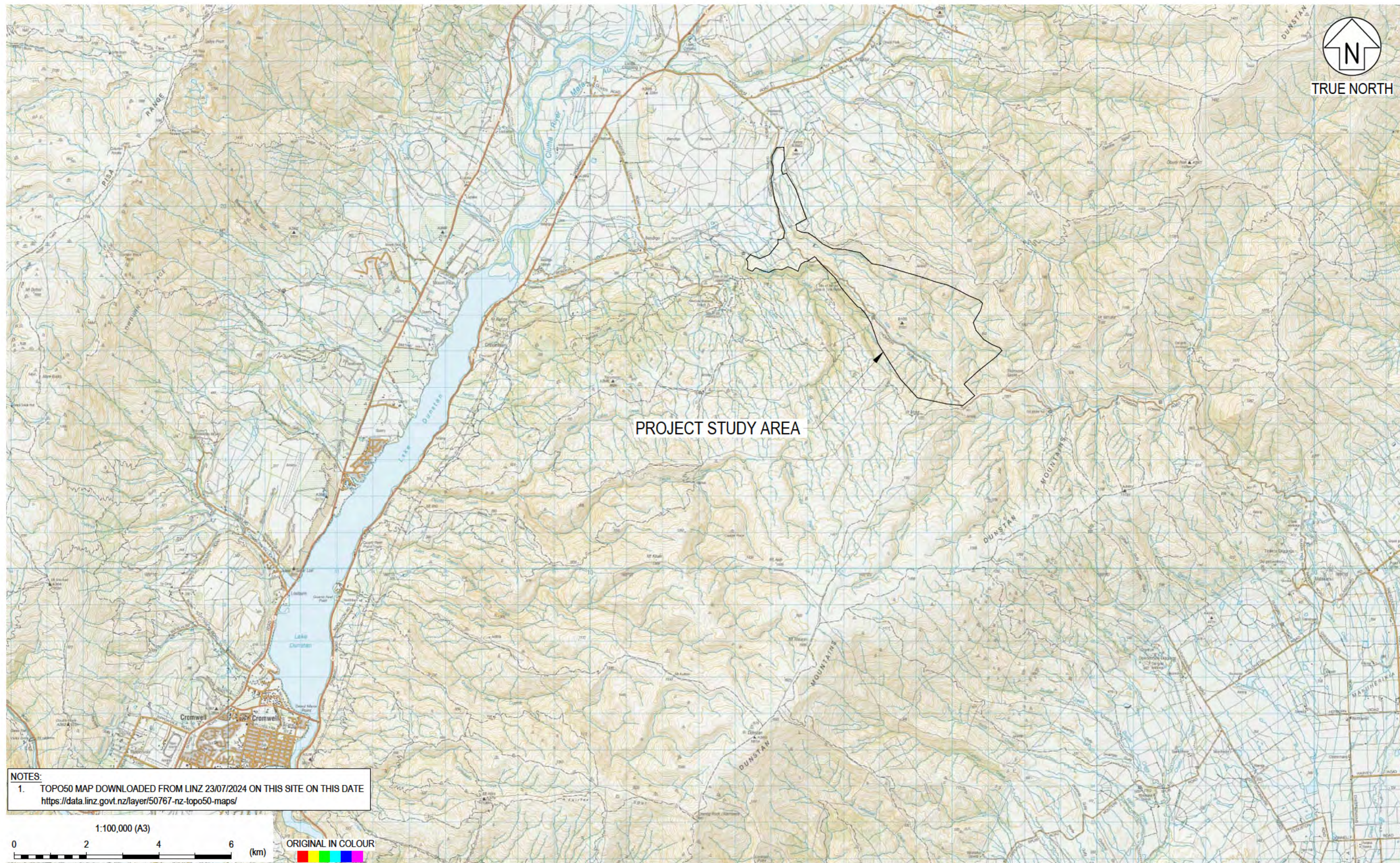


FIGURE 01

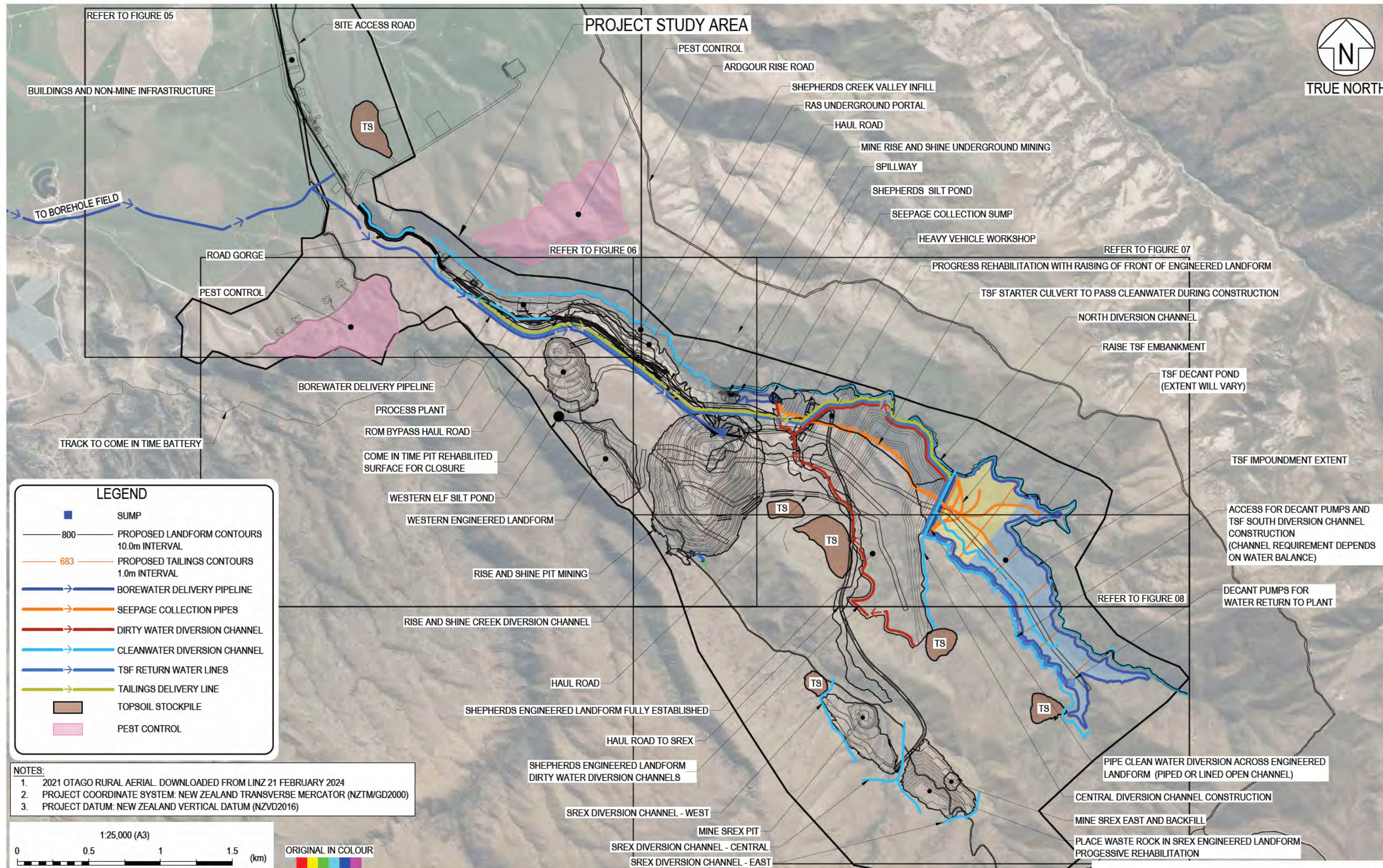


FIGURE 02

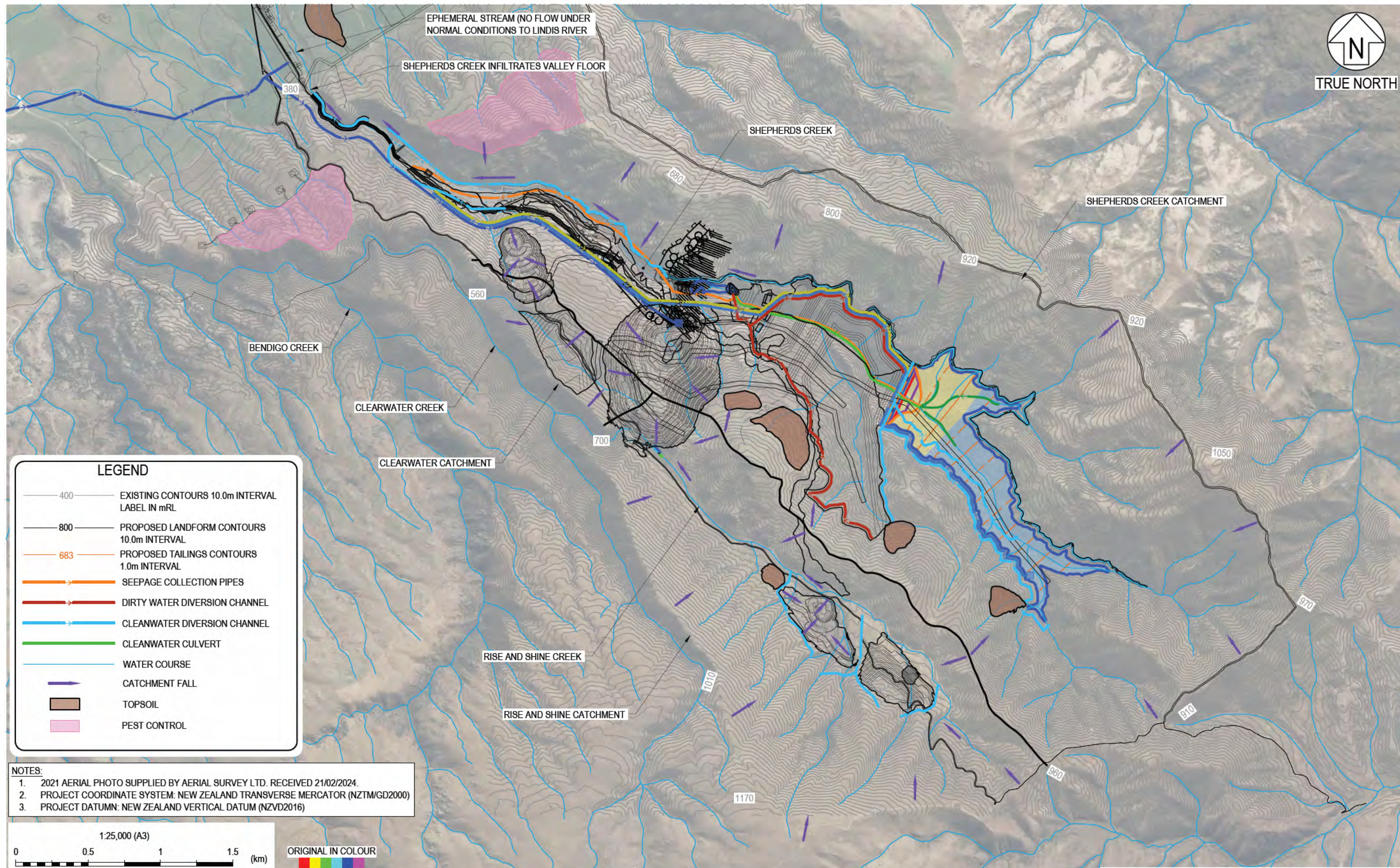
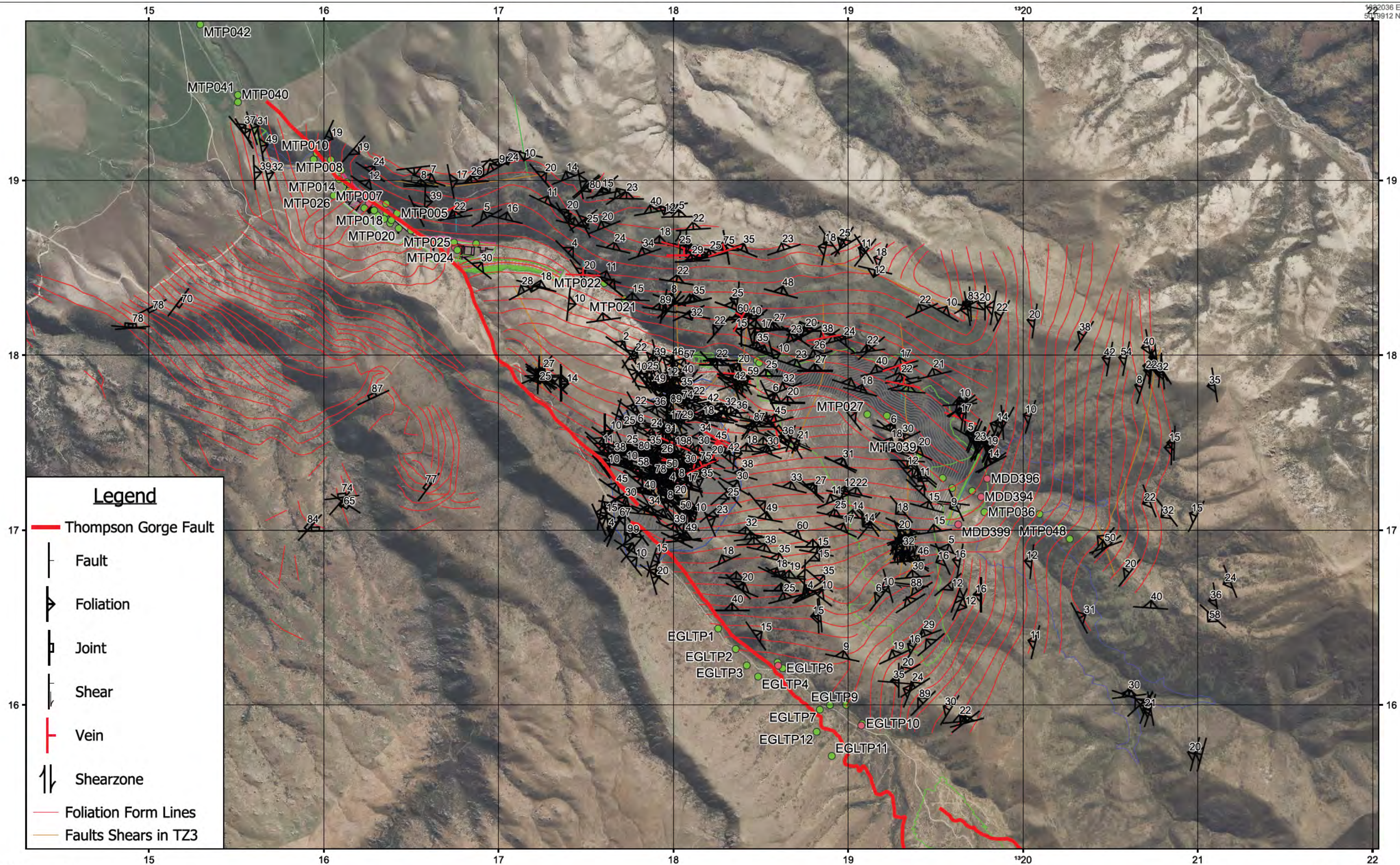


FIGURE 03

**Legend**

- Thompson Gorge Fault
- | Fault
- ▶ Foliation
- | Joint
- | Shear
- Vein
- || Shearzone
- Foliation Form Lines
- Faults Shears in TZ3

1314297
5015176 N

Map CRS: EPSG:2193
 Coordinate Units: Meters
 Map Scale: 1:20,000
 Project File: DATABASE.gqz
 Page Size: 420 x 297 mm
 Made with: QGIS 3.40 on Windows



Engineering Geology Ltd
 +64 9 486 2546
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 PO Box 301054, Albany, Auckland 0752
 www.egl.co.nz

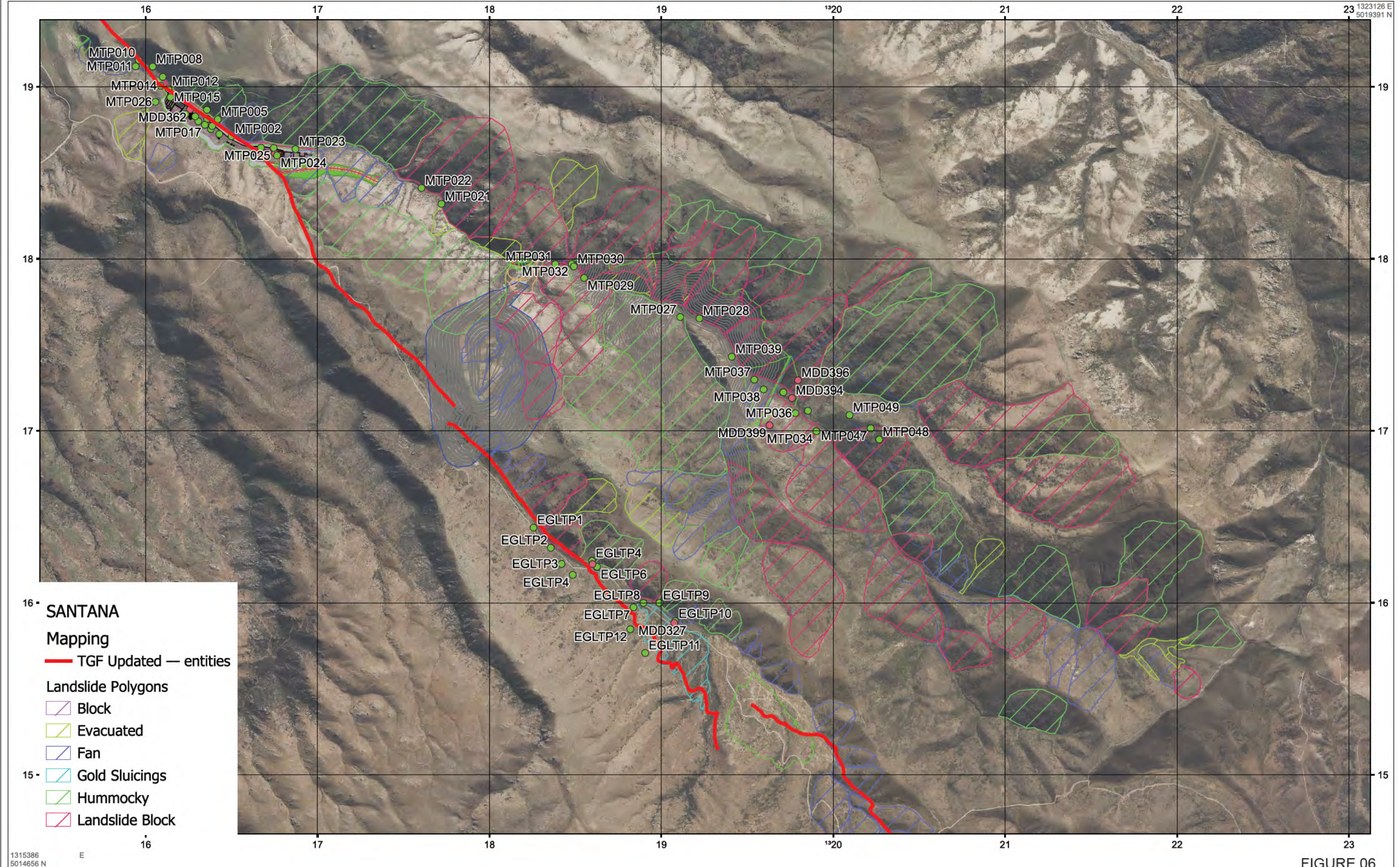
0 0.3 0.6 0.9 1.2 1.5
 kilometers
 Scale 1:20,000

Site wide - 2025-02-26 - John Fregley

MATAKANUI
 GOLD LIMITED

Mapping information provided by Santana Minerals Limited.
 Aerials and Topography from LINZ.
 Projected in NZTM.

FIGURE 05


 1315386 E
5014656 N

Map CRS: EPSG:2193
Coordinate Units: Meters
Map Scale: 1:20,000
Project File: DATABASE.ggz
Page Size: 420 x 297 mm
Made with: QGIS 3.40 on Windows



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0 0.3 0.6 0.9 1.2 1.5
kilometers
Scale 1:20,000

Site wide - 2025-03-03 - John Frengley

MATAKANUI
GOLD LIMITED

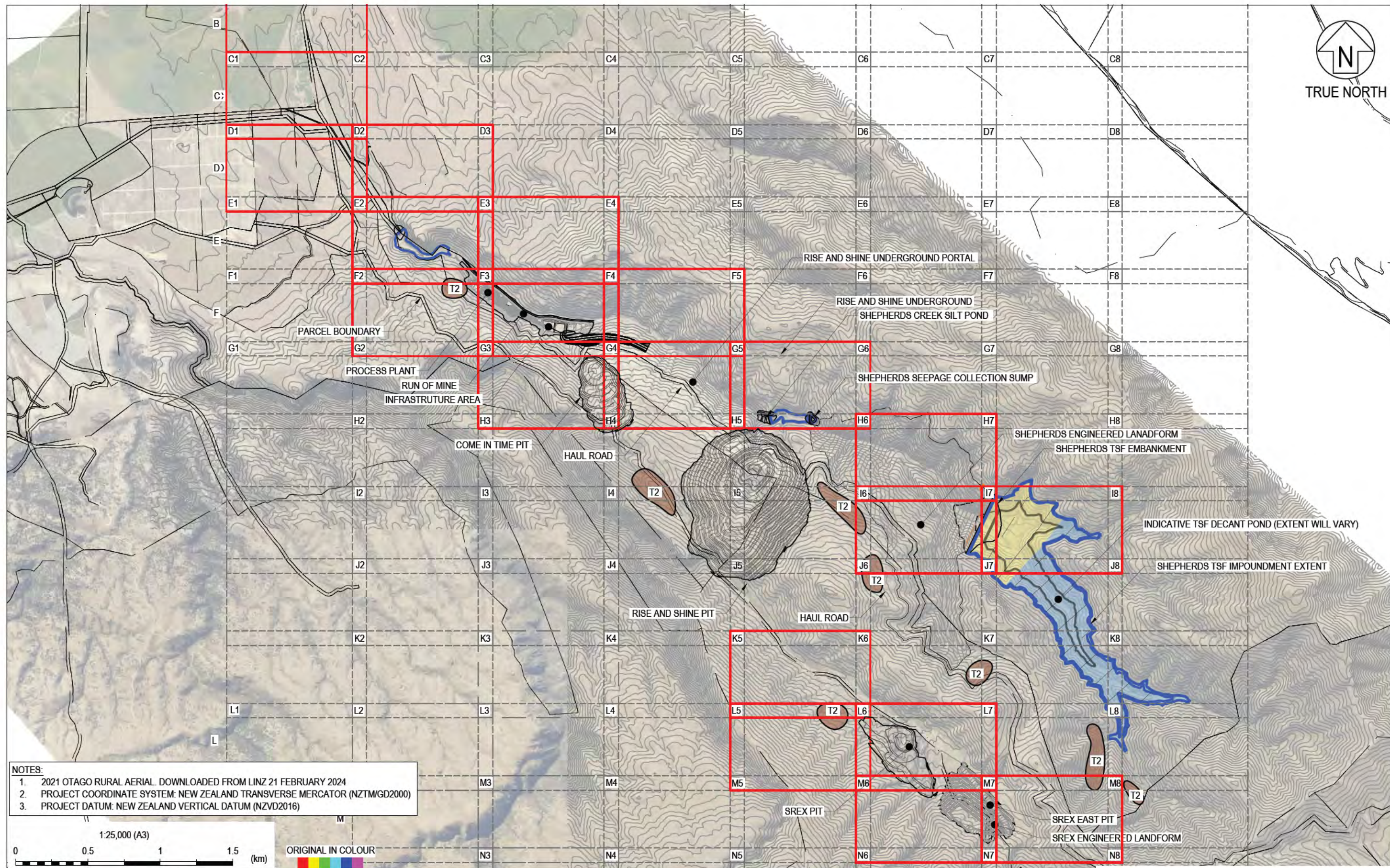
Mapping information provided by Santana Minerals Limited.
Aerials and Topography from LINZ.
Projected in NZTM.

FIGURE 06

APPENDICES

APPENDIX A

Ground Investigation Location Plans



- NOTES:
1. 2021 OTAGO RURAL AERIAL. DOWNLOADED FROM LINZ 21 FEBRUARY 2024
 2. PROJECT COORDINATE SYSTEM: NEW ZEALAND TRANSVERSE MERCATOR (NZTM/GD2000)
 3. PROJECT DATUM: NEW ZEALAND VERTICAL DATUM (NZVD2016)

KEY PLAN

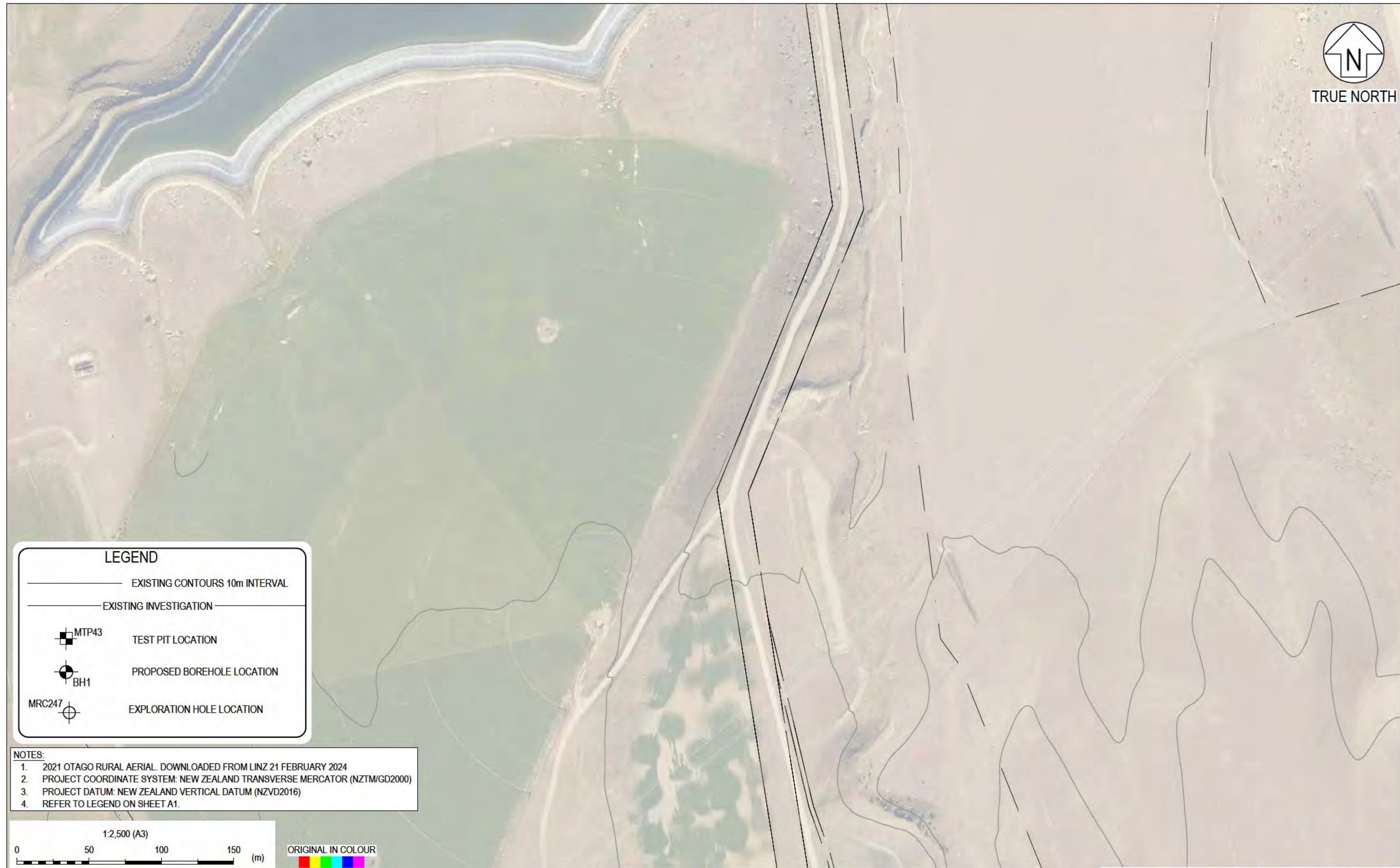


FIGURE B1

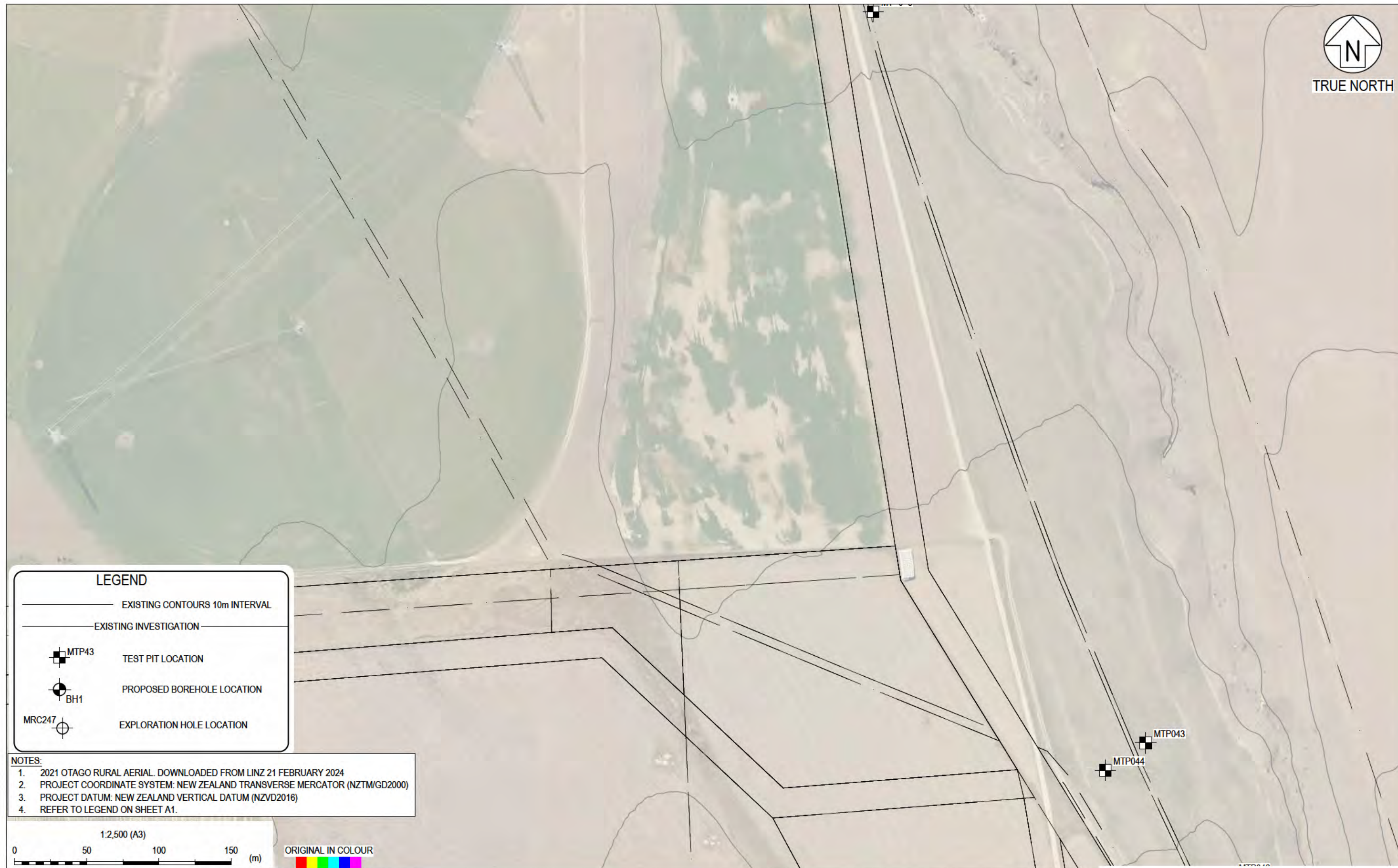


FIGURE C1

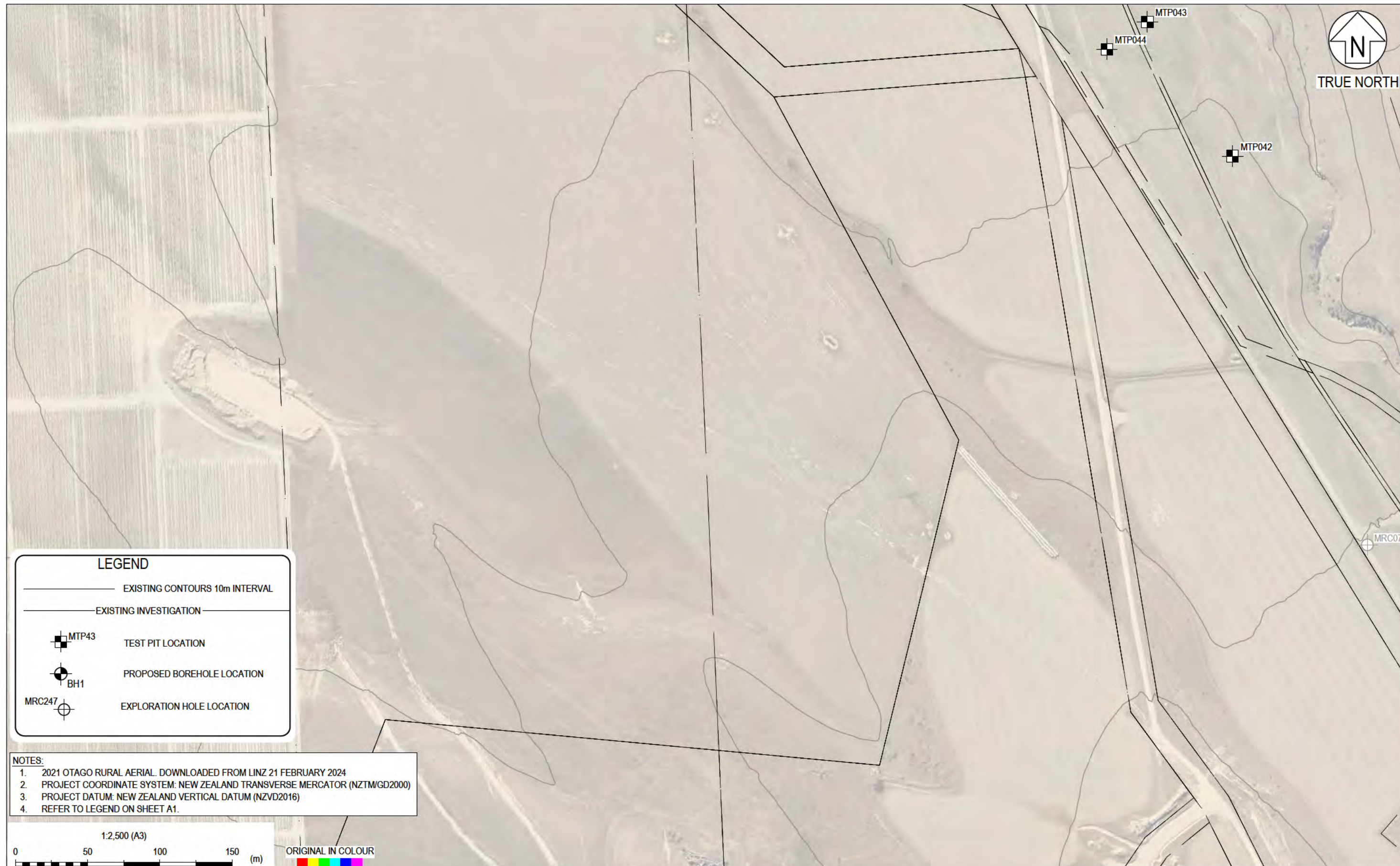


FIGURE D1

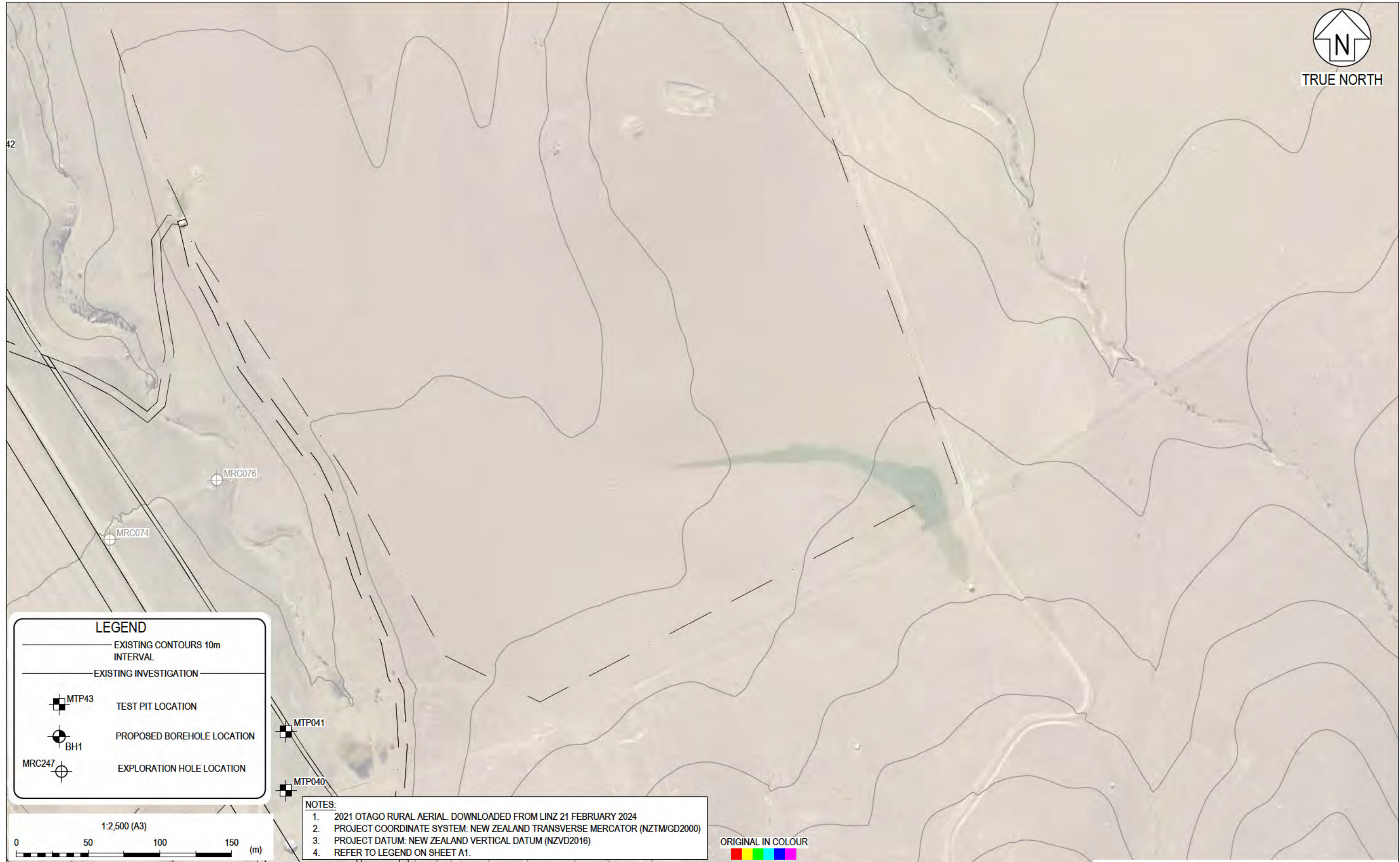
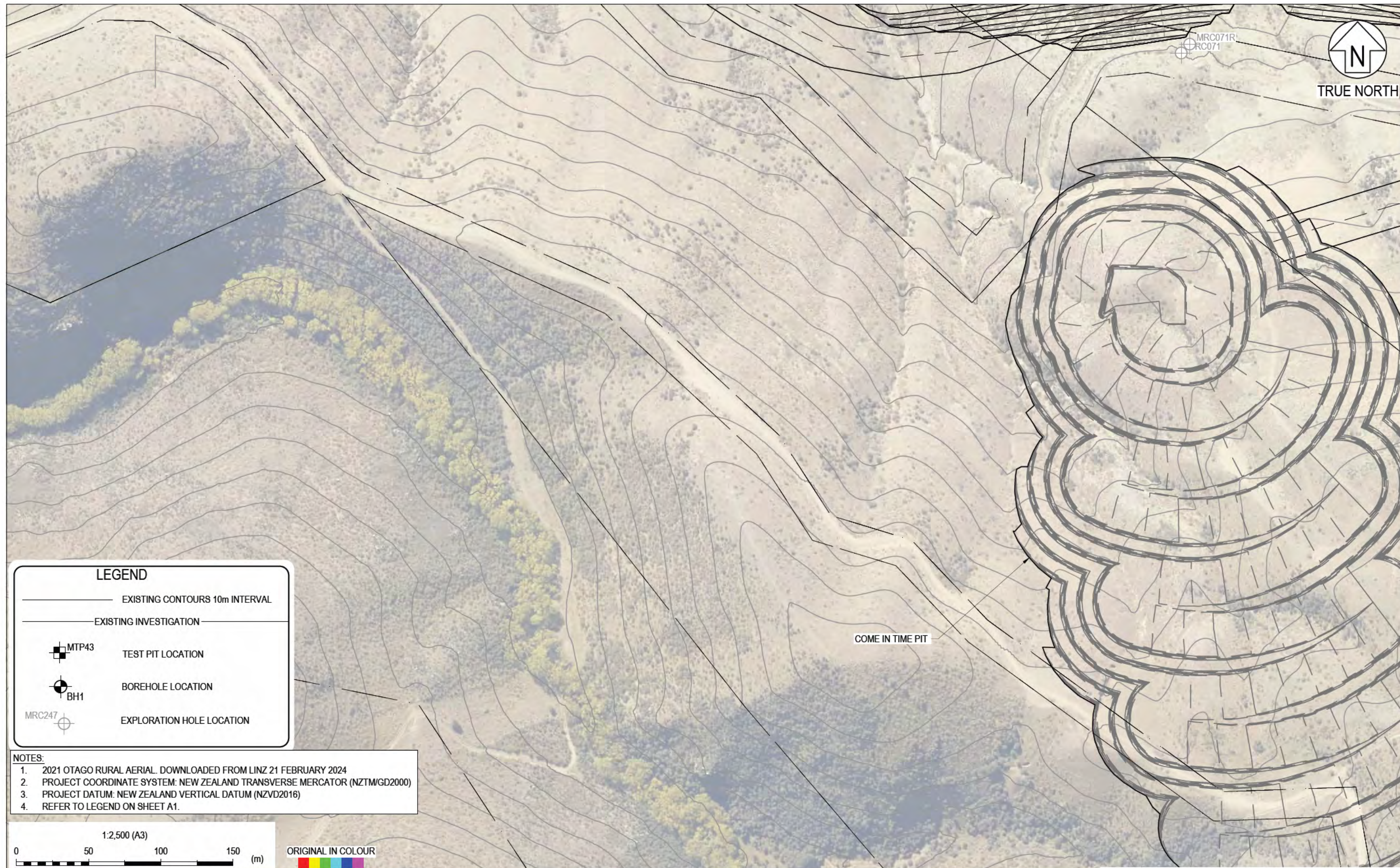


FIGURE D2



LEGEND

- EXISTING CONTOURS 10m INTERVAL
- EXISTING INVESTIGATION
- MTP43 TEST PIT LOCATION
- BH1 BOREHOLE LOCATION
- MRC247 EXPLORATION HOLE LOCATION

NOTES:

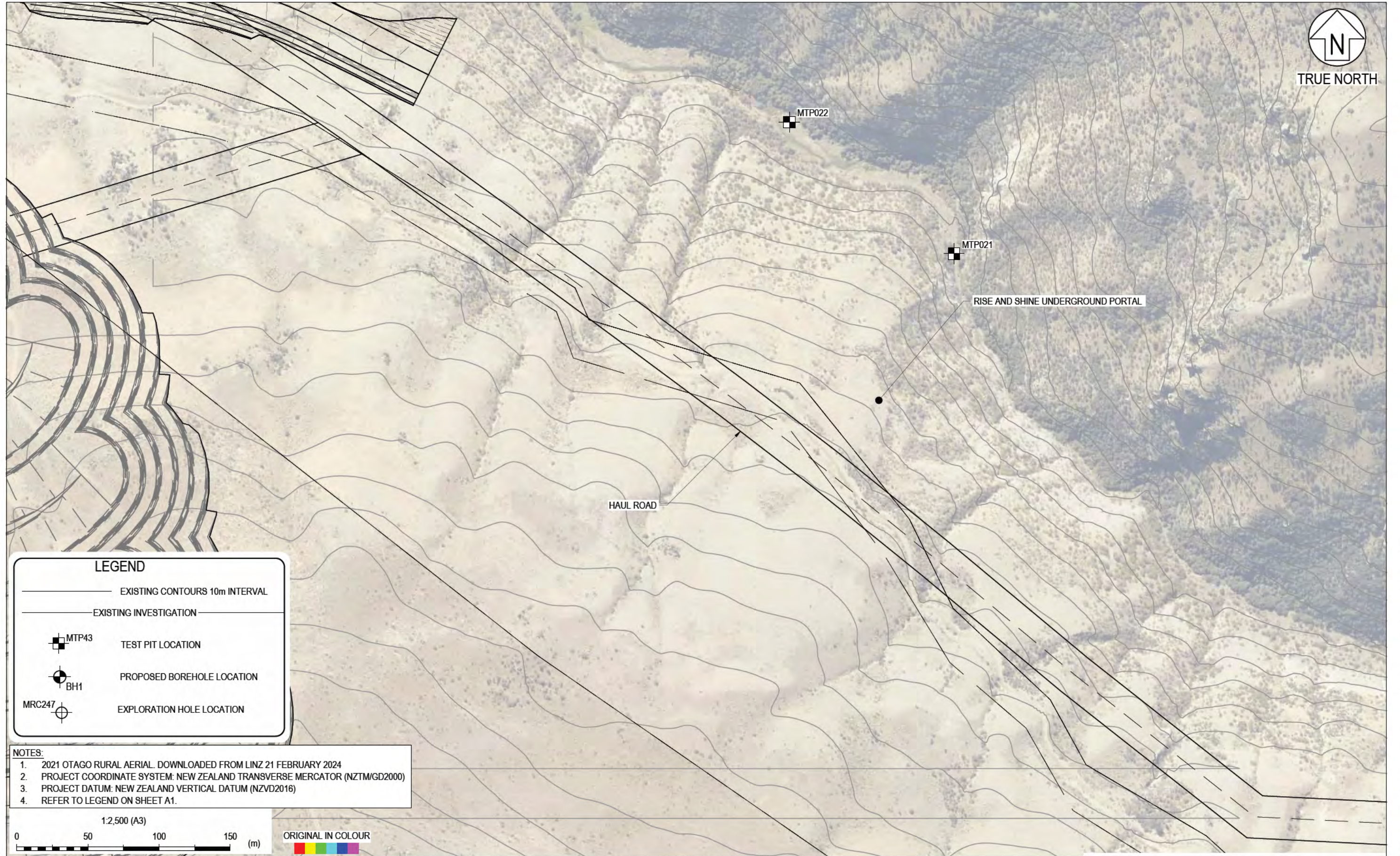
- 2021 OTAGO RURAL AERIAL. DOWNLOADED FROM LINZ 21 FEBRUARY 2024
- PROJECT COORDINATE SYSTEM: NEW ZEALAND TRANSVERSE MERCATOR (NZTM/GD2000)
- PROJECT DATUM: NEW ZEALAND VERTICAL DATUM (NZVD2016)
- REFER TO LEGEND ON SHEET A1.

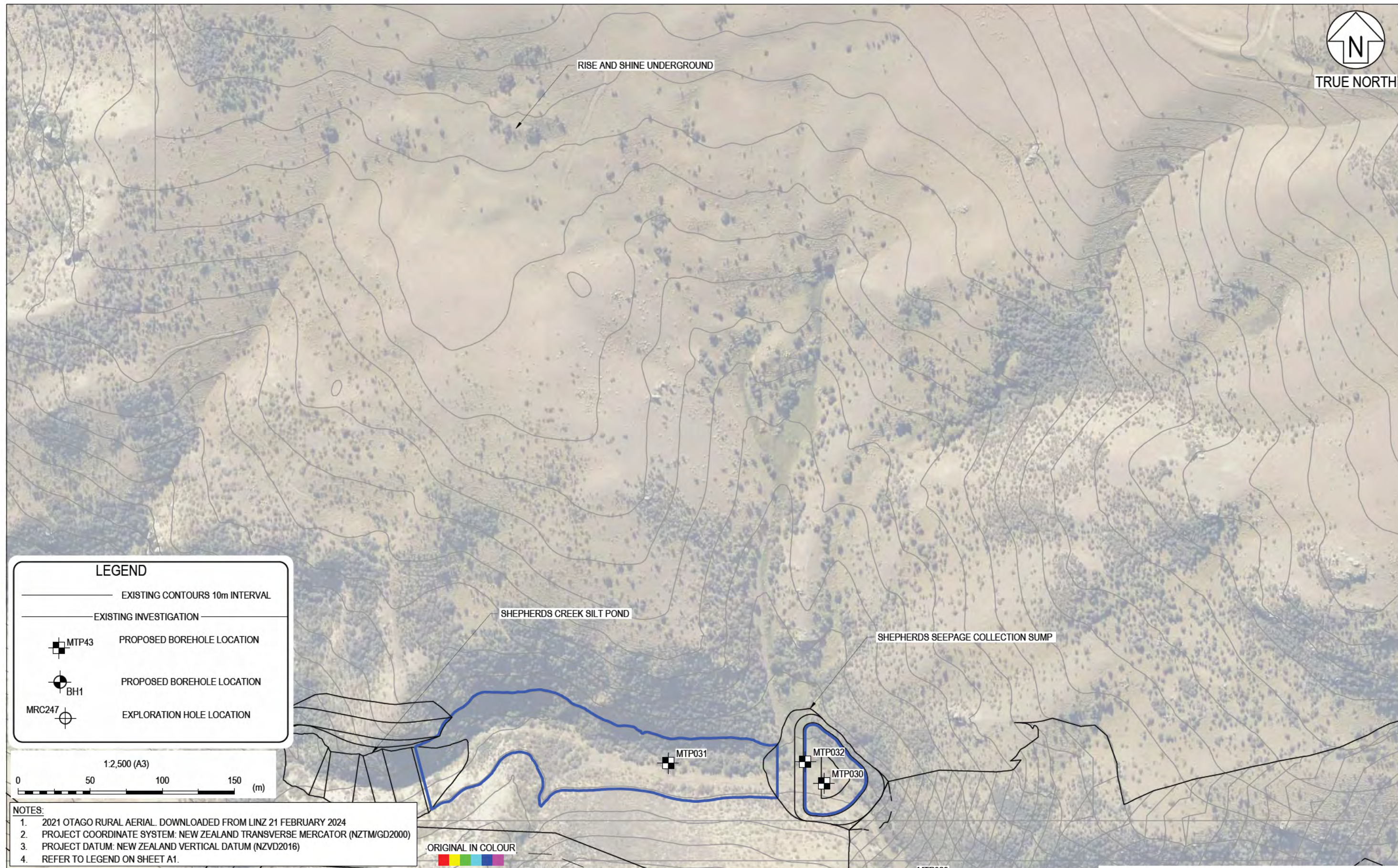
1:2,500 (A3)

0 50 100 150 (m)

ORIGINAL IN COLOUR

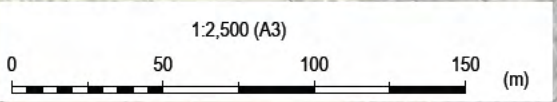
FIGURE G3





LEGEND

- EXISTING CONTOURS 10m INTERVAL
- EXISTING INVESTIGATION
- MTP43 PROPOSED BOREHOLE LOCATION
- BH1 PROPOSED BOREHOLE LOCATION
- MRC247 EXPLORATION HOLE LOCATION



- NOTES:
- 2021 OTAGO RURAL AERIAL. DOWNLOADED FROM LINZ 21 FEBRUARY 2024
 - PROJECT COORDINATE SYSTEM: NEW ZEALAND TRANSVERSE MERCATOR (NZTM/GD2000)
 - PROJECT DATUM: NEW ZEALAND VERTICAL DATUM (NZVD2016)
 - REFER TO LEGEND ON SHEET A1.

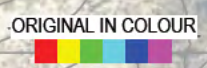
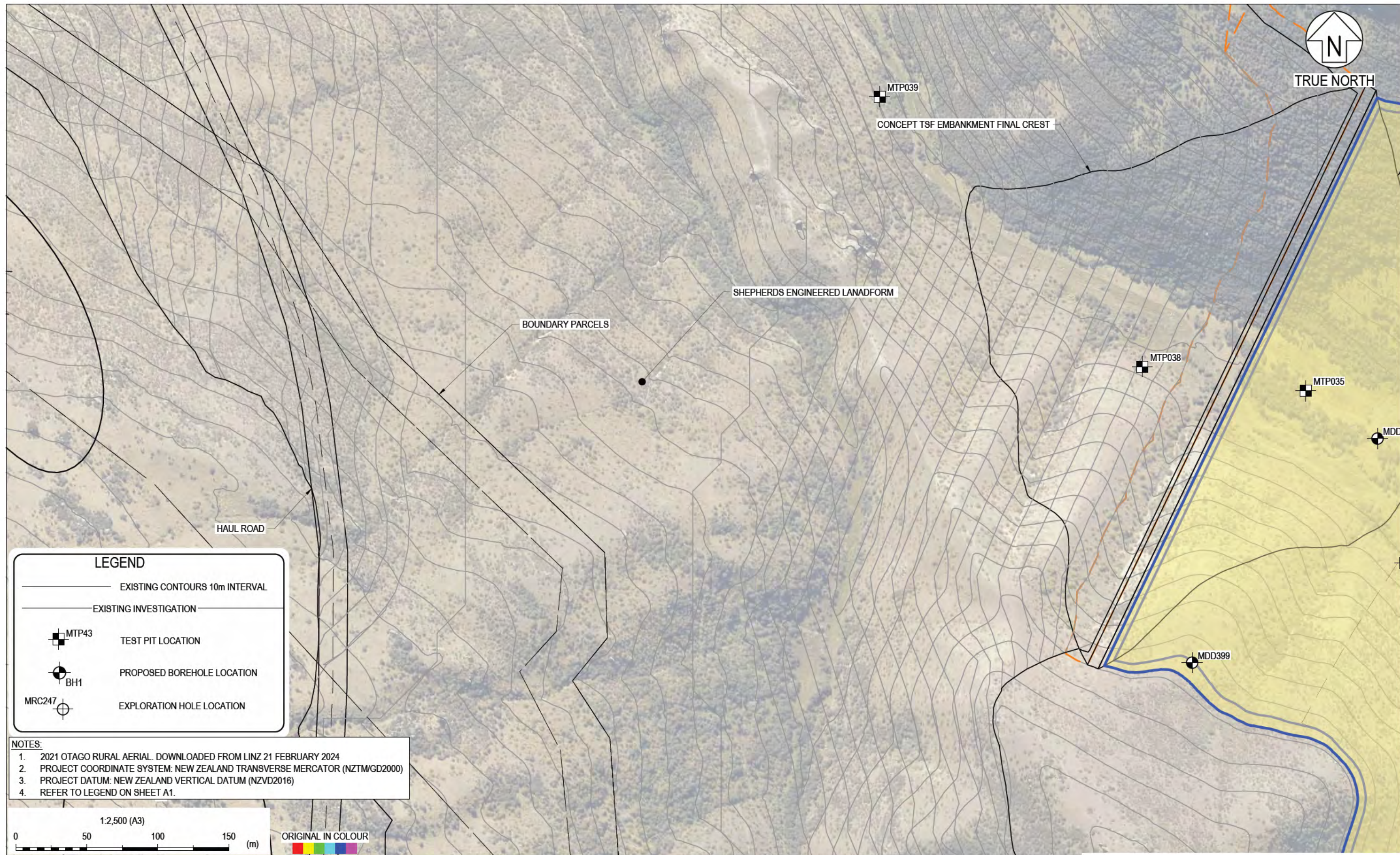


FIGURE G5



BENDIGO-OPHIR GOLD PROJECT COMPLETE LOCATIONS GROUND INVESTIGATION PLAN					
DRAWN	R.M.	DATE	JOB No	SCALE (A3)	REV.
CHECKED	E.T.	23/01/2025	9702	1:2,500	A

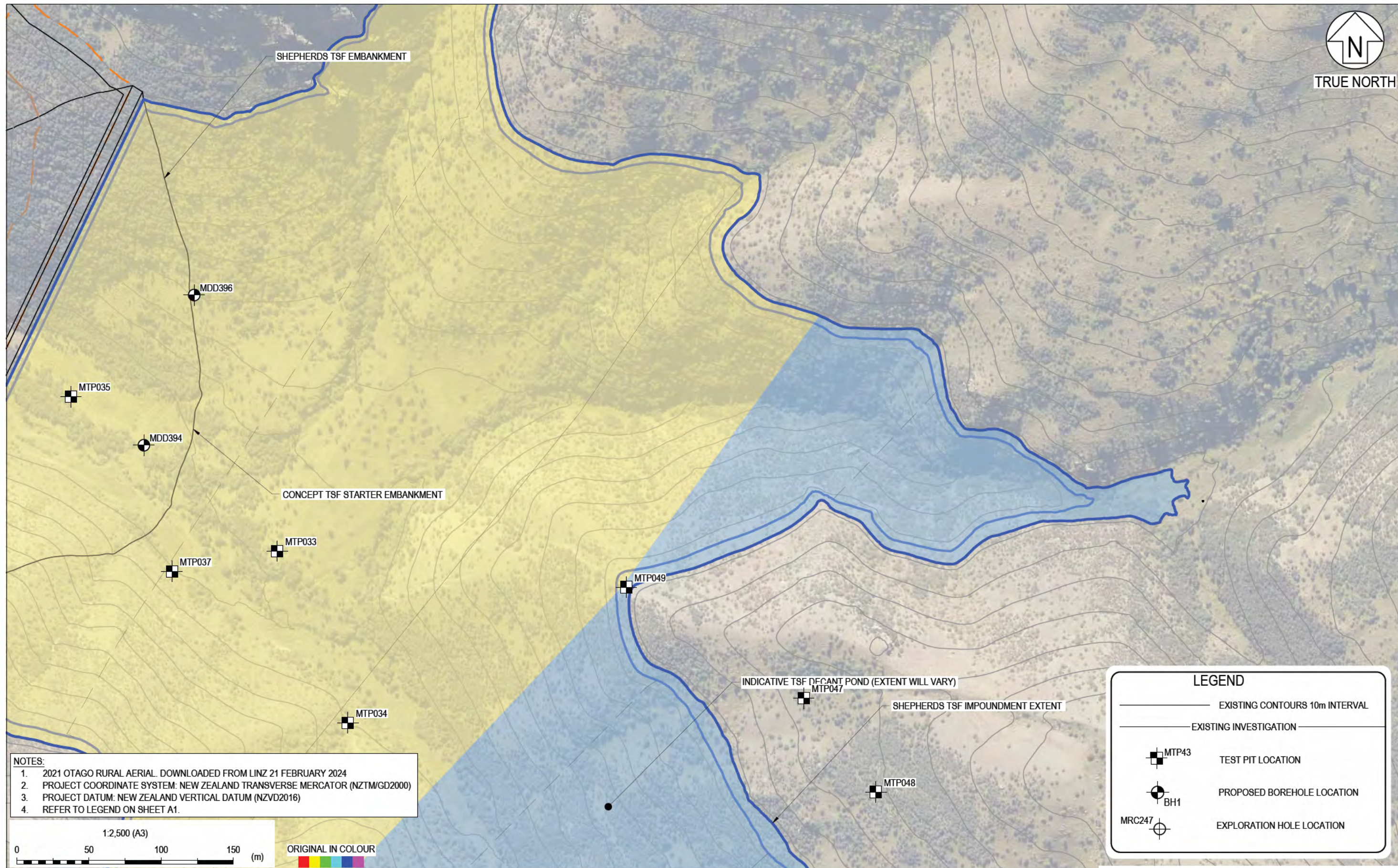
PRINTED: 2025-01-31 16:22:41
Z:\Mining Jobs\Bendigo\G5 - Matakani Gold\Bendigo\G5-02-40702-Shepherds Creek_Ground Investigation\FIG5/G5-A1-M7_COMBINED.dwg



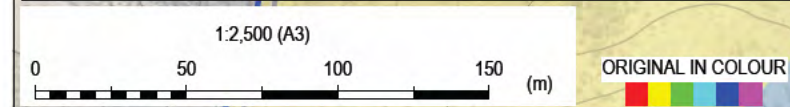
PRINTED: 2025-01-31 16:26:51

Z:\Mining Jobs\Bendigo\9702 - Matakana Gold L10105 CAD\FIG02040702 Shepherds Creek Ground Investigation\FIG0204-A1-M7_COMBINED.dwg

FIGURE I6



- NOTES:
1. 2021 OTAGO RURAL AERIAL. DOWNLOADED FROM LINZ 21 FEBRUARY 2024
 2. PROJECT COORDINATE SYSTEM: NEW ZEALAND TRANSVERSE MERCATOR (NZTM/GD2000)
 3. PROJECT DATUM: NEW ZEALAND VERTICAL DATUM (NZVD2016)
 4. REFER TO LEGEND ON SHEET A1.



LEGEND

EXISTING CONTOURS 10m INTERVAL

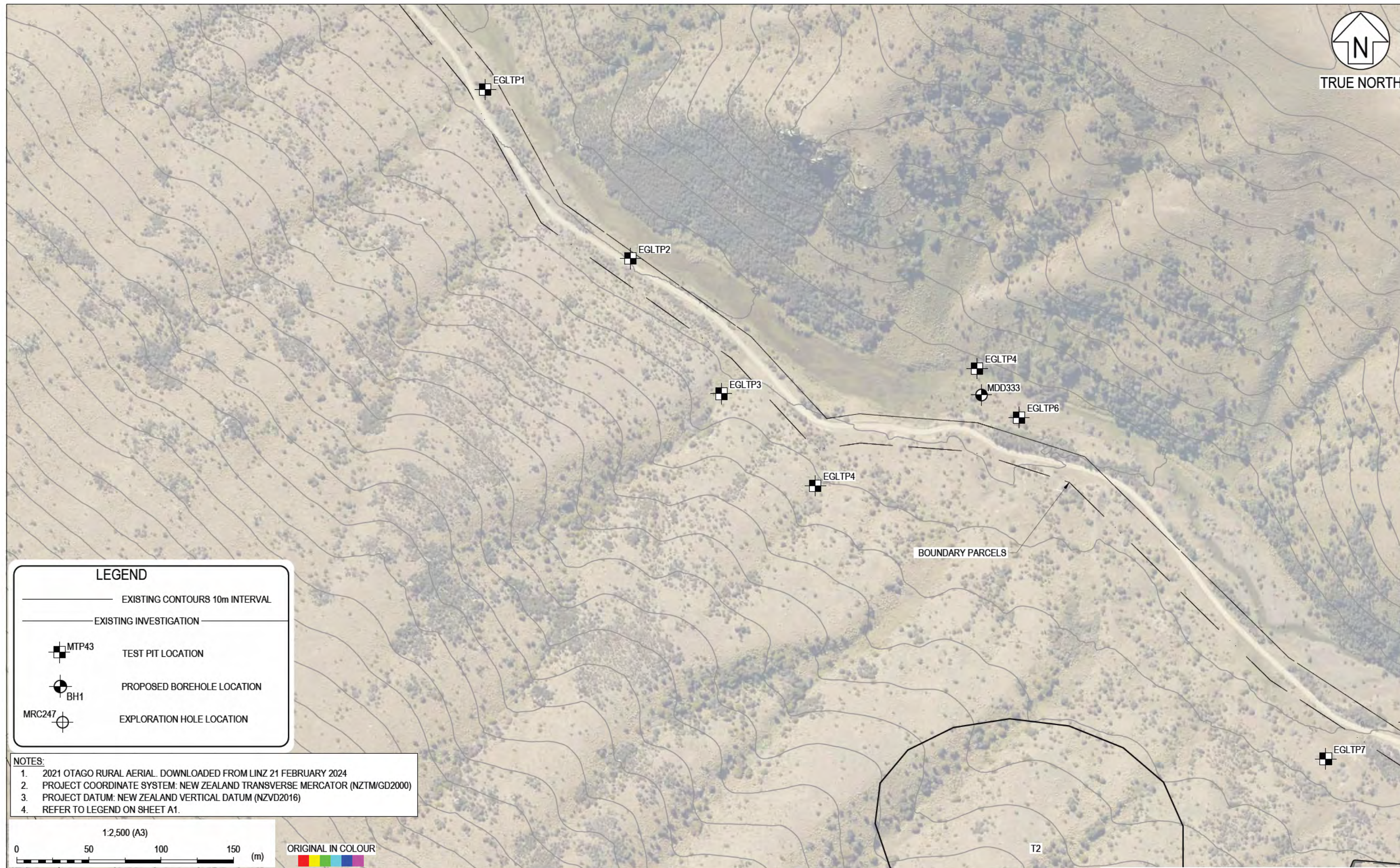
EXISTING INVESTIGATION

MTP43 TEST PIT LOCATION

BH1 PROPOSED BOREHOLE LOCATION

MRC247 EXPLORATION HOLE LOCATION

FIGURE I7



PRINTED: 2025-01-31 16:26:22

Z:\Mining Jobs\Bendigo\9702 - Matakani Gold Ltd\9702-40702-Shepherds Creek Ground Investigation\FIG9702-A1-M7_COMBINED.dwg

FIGURE K5

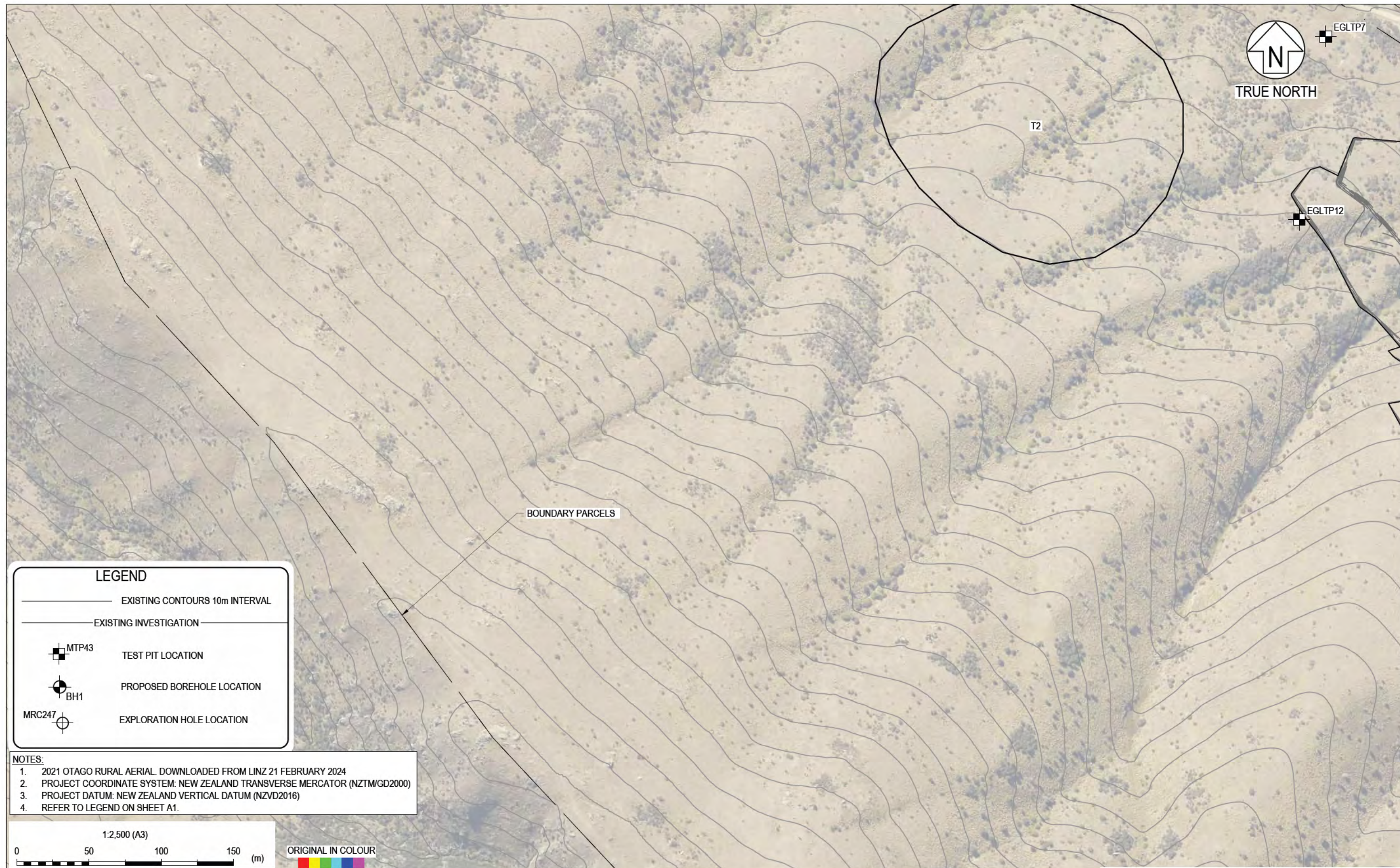


FIGURE L5

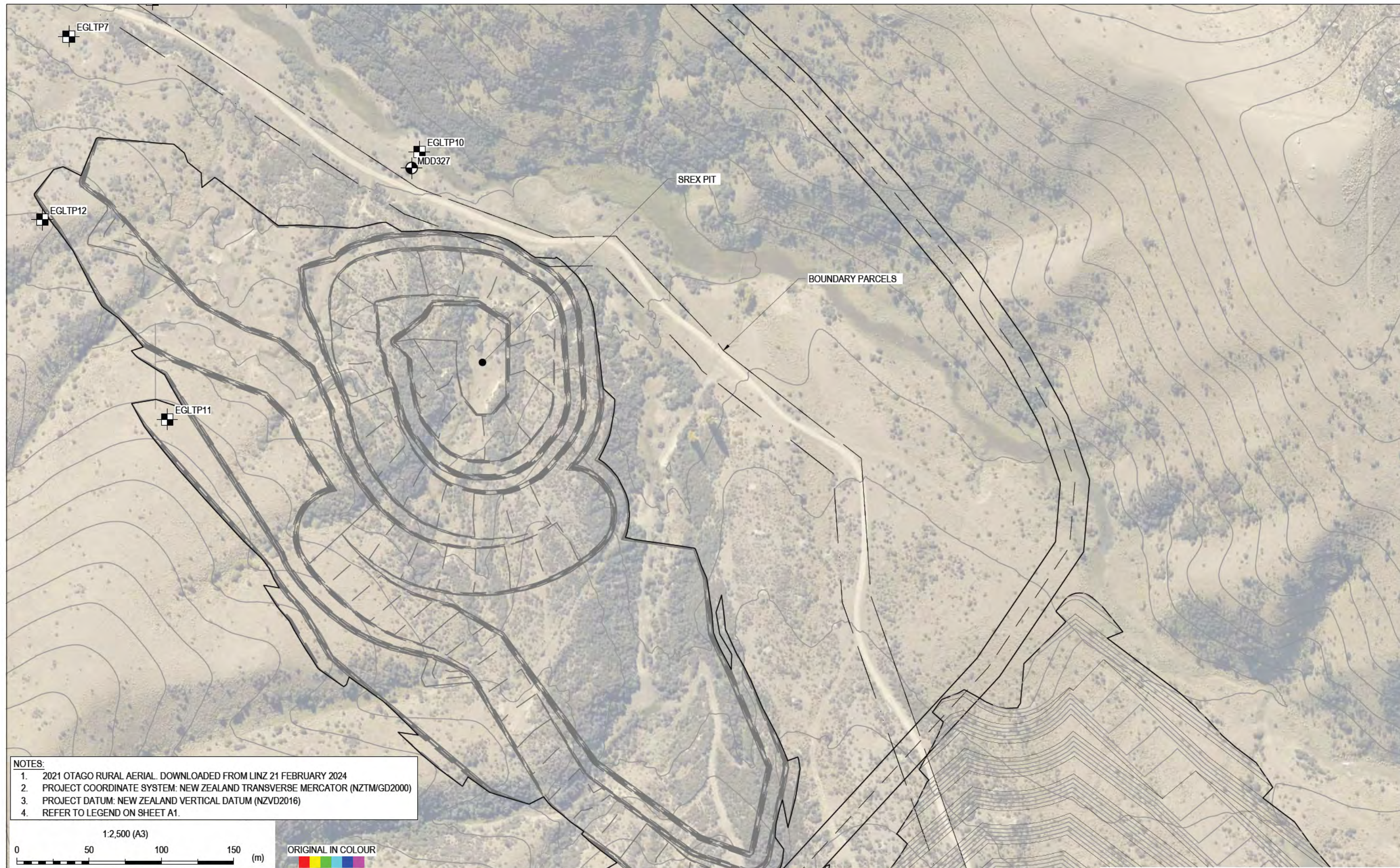


FIGURE L6

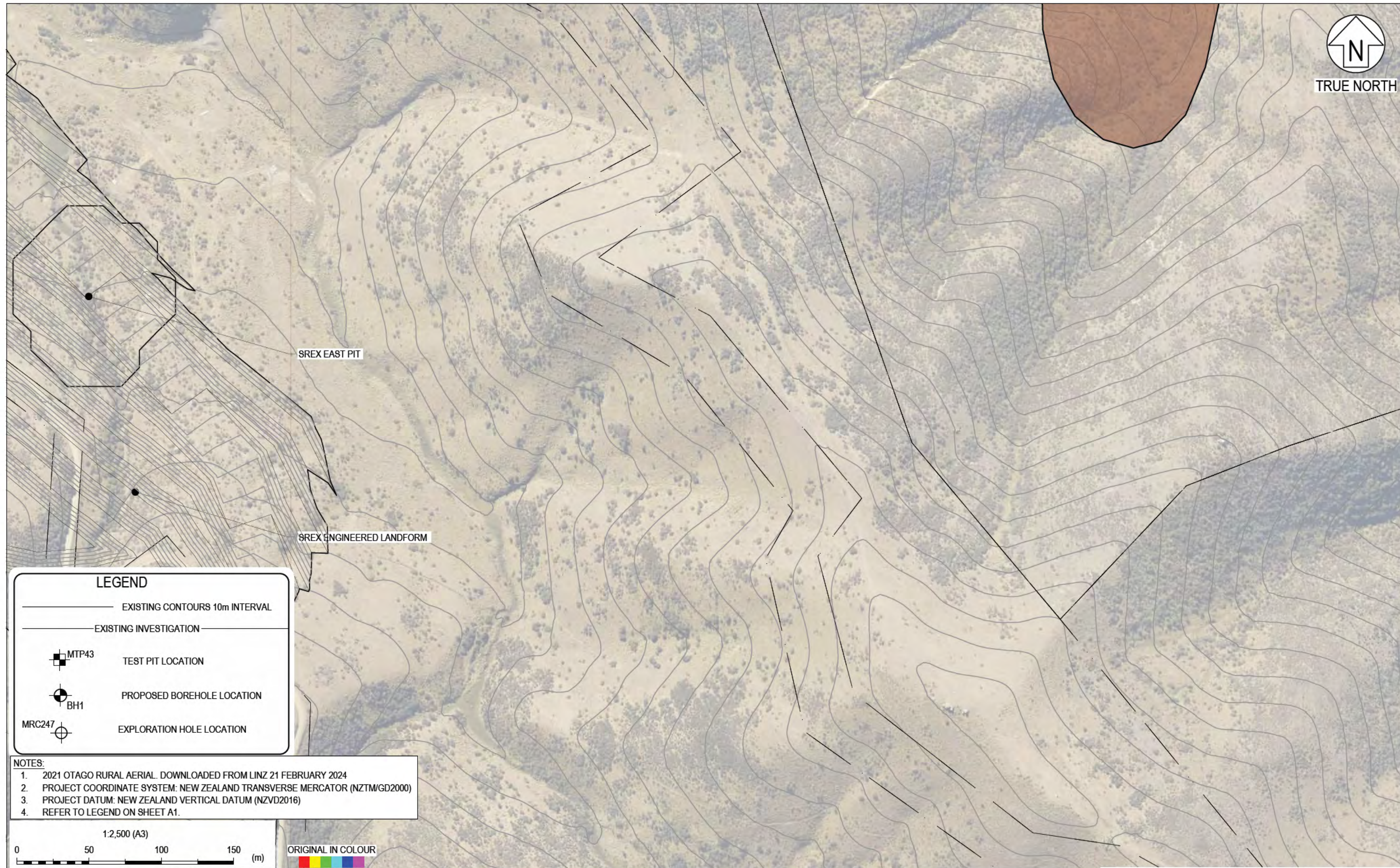


FIGURE M7

APPENDIX B

Borehole Logs and Core Photographs

PROJECT: BOGP
LOCATION: Bendigo
COORDINATES: East 5015899.0 North 1319078.0
GRID: NZTM 2000

RL GROUND: 756.0
DATUM: NZVD 2016

HOLE STARTED: 28/05/2024
HOLE FINISHED: 09/06/2024
HOLE DEPTH: 70.0m
INCLINATION: Vertical
ORIENTATION:

Core Description				Rock Defects				Drilling & Testing									
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING		ROCK STRENGTH PT LOAD / UCS (MPa)	CORE LOSS		CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
										25-50	50-75						
Alluvium	Topsoil		756.0									0.40	0				
	sandy SILT, fine to coarse sand; brown		755.9									0.30	0				
	sandy gravel, coarse sand, fine to medium gravel; brown		755.8									0.40	0				
	sandy SILT, fine to coarse sand; brown		755.7									0.40	0				
	sandy gravel, coarse sand, fine to medium gravel; brown		755.6									0.40	0				
	sandy SILT, fine to coarse sand; brown		755.5									0.40	0				
	Core Loss		755.4									0.40	0				
	Gravelly sandy SILT, fine to medium gravel, greyish brown mottled brownish grey and grey		755.3									0.30	0				
	Silty CLAY, greyish brown		755.2									0.30	0				
	gravelly SAND, fine gravels; brownish grey and grey		755.1									0.30	0				
	gravelly SILT, fine to coarse gravels; brownish grey with brownish grey, brown, and grey gravels		755.0									0.30	0				
	washed coarse gravels; brownish grey and grey		754.9									0.30	0				
	gravelly SILT, fine to coarse gravels; brown, with brown, brownish grey, and grey gravels		754.8									0.70	0				
	silty GRAVEL, coarse gravels; Brown, grey, and white		754.7									0.20	0				
	gravelly SILT, fine to medium gravels; grey with grey, brown, and white gravels		754.6									0.20	0				
TZ3	washed coarse gravels; brown, white, and grey		754.5									0.50	0				
	gravelly SILT, fine to medium gravels; grey with grey, brown, and white gravels		754.4									0.50	0				
	gravelly SILT some clay, fine to coarse gravels; brown with brown and brownish grey gravels		754.3									0.50	0				
	Fragmented Schist, polyhedral blocks up to 30mm; grey		754.2									0.30	0				
	5.3m - 5.3m: Brown and white schist fragments		754.1									0.30	0				
	silty GRAVEL, fine to coarse gravels; grey and light grey		754.0									0.70	14				
	Schist, greenish grey and light grey. Moderately deformed gently inclined foliation		749.9		foliation shear, slickensided, polished, clay/gouge, measure dip relative to the core centre line 80degree dip							0.80	38				
	Silt and Fragmented Pelitic Schist, polyhedral blocks up to 30mm; grey		749.8		foliation shear, slickensided, planar, graphite, measured relative center of core dipping 70degrees							0.40	0				
	7.5m - 7.5m: Clay smear over gravels		749.7		foliation shear, smooth, planar, clay/gouge, measured dip relative to center of core dipping 50degrees							0.30	50				
	Pelitic Schist, greenish grey and light grey, slightly deformed gently inclined foliation		747.5		foliation parting, smooth, planar, chlorite, no ore but measured from center of core 70degrees dip							0.80	67				
	Fragmented Pelitic Schist, tabular up to core width by 30mm and polyhedral blocks up to 10mm		747.6		fault, 60°, rough, irregular, clay/gouge, pug fault 0.1cm wide on present							1.00	70				
	Pelitic Schist, greenish grey and light grey. Moderately deformed gently to moderately inclined foliation		747.4		fault, 60°, rough, irregular, clay/gouge, pug fault 0.1cm wide on present							1.00	70				
	Crush zone, grey, polyhedral blocks less than 10mm within a matrix		746.5		foliation parting, 60°, smooth, planar, clean, fold axis, 70°, rough, irregular, clean, F3 fold with fracture ripping up axis, weak point rock 2mm wide zone, fold zone 3cm long							0.60	22				
	Pelitic Schist, grey and light grey, slightly deformed		746.4									0.60	22				

NOTES:

LOGGED: JF
CHECKED: PC

DRILLER:
DRILL TYPE:

PROJECT: BOGP
LOCATION: Bendigo
COORDINATES: East 5015899.0 North 1319078.0
GRID: NZTM 2000

RL GROUND: 756.0
DATUM: NZVD 2016

HOLE STARTED: 28/05/2024
HOLE FINISHED: 09/06/2024
HOLE DEPTH: 70.0m
INCLINATION: Vertical
ORIENTATION:

GEOLOGICAL UNIT	Core Description				Rock Defects			Drilling & Testing										
		DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS		
TZ3	gently inclined foliation	10.7	745.9		fault, rough, planar, clay/gouge, no ori dip taken from center line of rock 50 degrees foliation, smooth, planar, clean, no ori 65 degrees from center line		UW	W				0.40	40	42	Groundwater Not Encountered			
	Pelitic Schist, grey and light grey. Moderately deformed subhorizontal to moderately inclined foliation	10.5	745.9				UW	MS					0.60	50				
	Crush zone, grey, polyhedral blocks up to 10mm within a matrix	10.7	745.3				UW	W					0.80	69				
	Pelitic Schist, grey. Highly deformed foliation	11.1			fault, 45°, rough, irregular, clay/gouge, shear/fault surface, zone .2 wide fault, 85°, rough, planar, clay/gouge, micro fault dipping down hole, 5mm wide pug and fractured material foliation shear, 70°, smooth, planar, clay/gouge, micro shear crosscutting foliation clay fill		UW	MS										
	Core Loss	11.9	744.1				UW	W										
		12.5					UW	MS										
		12.6	743.4		joint, rough, irregular, rock fragments, no ori line dips 50 degrees up hole foliation, 65°, smooth, planar, clean, foliation measurement dipp 65 degree, ori line present joint shear, 65°, rough, planar, clay/gouge, clay gouge 20mm wide fault, 80°, rough, planar, clay/gouge, dipping 80uh. Ori present foliation, 83°, smooth, planar, clean, 83 dip dwn hole ori present		UW	W										
	Psammitic Schist, grey. Highly deformed foliation	13.1				UW	MS											
	Washed Psammitic Schist fragments, tabular up to 70mm by 20mm	13.3	742.9				UW	W										
	Crush zone, grey, polyhedral blocks up to 10mm within a matrix	13.3	742.7		foliation, smooth, planar, clean, no ori line dips 85 shear zone, clay/gouge, no ori line, Puggy clay zone with brittle fracturing		UW	W										
	Core Loss	13.5					UW	MS										
	Washed Psammitic Schist fragments, with fines layered below	13.7	742.3				UW	W										
	Clay gauge, grey	14.1			shear zone, clay/gouge, no ori line, Puggy clay zone with brittle fracturing		UW	W										
	Core Loss	14.3	741.7				UW	W										
	Washed Pelitic Schist fragments, tabular up to 60mm by 20mm	15.1					UW	W										
	Core Loss	15.9			crush zone, rock fragments, no ori line, wash drilled broken and grounded tz3 shear zone, clay/gouge, no ori line clay shear zone with brittle rock fragments		UW	W										
		16.1	740.1				UW	W										
		16.4	739.6				UW	W										
	Pelitic Schist, grey and light grey. Moderately deformed gently inclined foliation	16.6			joint, 80°, rough, undulating, rock fragments, joint, 80°, rough, planar, rock fragments,		UW	MS										
	Core Loss	16.8	739.1				UW	W										
	Washed rock fragments, tabular up to 60mm by 20mm	17.1	738.9				UW	W										
	Crush zone, grey, polyhedral blocks up to 10mm within a matrix	17.3			fault, clay/gouge, puggy soft clay fault		UW	W										
	Clay gauge, grey	17.5	738.7				UW	W										
	Crush zone, grey, polyhedral blocks up to 10mm within a matrix	17.5	738.5				UW	W										
	Washed Pelitic Schist fragments, tabular along foliation up to 60mm by 20mm	18.1					UW	W										
	17.7m - 17.8m: Clay present, unknown if on outside only	18.1					UW	W										
	17.9m - 18.0m: Clay present, unknown if on outside only	18.1					UW	W										
	18.4m - 18.8m: Clay present, unknown if on outside only	18.1					UW	W										
	Washed Psammitic Schist fragments, tabular along foliation up to 60mm by 30mm	18.8	737.2				UW	W										
	Core Loss	19.1					UW	W										
		19.1	736.2				UW	W										
		Psammitic Schist, grey and light grey, slightly	19.1	736.2			UW	W										

Groundwater Not Encountered

NOTES:

LOGGED: JF

DRILLER:

CHECKED: PC

DRILL TYPE:

HOLE STARTED:	28/05/2024
HOLE FINISHED:	09/06/2024
HOLE DEPTH:	70.0m
INCLINATION:	Vertical
ORIENTATION:	

DRILL TYPE:

PROJECT: BOGP
LOCATION: Bendigo
COORDINATES: East 5015899.0 North 1319078.0
GRID: NZTM 2000

RL GROUND: 756.0
DATUM: NZVD 2016

HOLE STARTED: 28/05/2024
HOLE FINISHED: 09/06/2024
HOLE DEPTH: 70.0m
INCLINATION: Vertical
ORIENTATION:

Core Description					Rock Defects					Drilling & Testing									
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING		ROCK STRENGTH PT LOAD / UCS (MPa)	CORE LOSS		CORE LENGTH / TYPE		SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS		
							W	S		25	50	75	25					50	75
TZ3	Pelitic Schist, grey and light grey, highly deformed foliation	31			fault, 80°, rough, planar, rock fragments, rock fragment with clonitic schist foliation shear, 80°, polished, planar, clean, mirror slicken slide black surface fault, 80°, very rough, planar, rock fragments, in the guts of fault foliation shear, 82°, polished, undulating, clay/gouge, polished foliation shear joint, 85°, very rough, irregular, rock fragments, very rough break		UW	UW	UW	UW	UW	UW	UW	UW					
	Core Loss	32	724.1 724.1 32.1 723.8	C/L			UW	UW	UW	UW	UW	UW	UW	UW					
	Washed Pelitic Schist fragments, with fines layered below		32.4 723.6				UW	UW	UW	UW	UW	UW	UW	UW					
	Pelitic Schist trace chlorite, grey and light grey, Moderately deformed moderately inclined foliation		32.6 723.2		foliation shear, 87°, polished, irregular, clay/gouge, polished slickensid		UW	UW	UW	UW	UW	UW	UW	UW					
	Crush zone, grey, polyhedral blocks up to 20mm within a matrix (Possibly Drilling Induced)	33	33.1 722.9		foliation parting, 83°, very rough, irregular, rock fragments, broken face		UW	UW	UW	UW	UW	UW	UW	UW					
	Pelitic Schist, grey and light grey, Moderately deformed subhorizontal to moderately inclined foliation		33.4 722.6				UW	UW	UW	UW	UW	UW	UW	UW					
	Crush zone, grey, polyhedral blocks up to 40mm within a matrix (Possibly Drilling Induced)		33.7 722.3				UW	UW	UW	UW	UW	UW	UW	UW					
	Pelitic Schist, grey and light grey, slightly deformed moderately inclined foliation	34	34.2 721.8		foliation parting, 80°, very rough, irregular, rock fragments, carbonate powder in fracture foliation shear, 75°, polished, planar, clean, polished slipped face foliation shear, 70°, smooth, planar, clean, almost polished face		UW	UW	UW	UW	UW	UW	UW	UW					
	Washed Pelitic Schist fragments, with fines layered below		34.9 721.1				UW	UW	UW	UW	UW	UW	UW	UW					
	Highly fractured Psammitic Schist, grey and light grey, moderately deformed gently inclined foliation	35	35.0 720.1				UW	UW	UW	UW	UW	UW	UW	UW					
	Fragmented Psammitic Schist broken along foliation, fines present as separate layers		36		foliation shear, 87°, polished, planar, clean, polished		UW	UW	UW	UW	UW	UW	UW	UW					
	Core Loss	37	36.9 719.1	C/L			UW	UW	UW	UW	UW	UW	UW	UW					
	Fragmented Psammitic Schist broken along foliation, fines present as separate layers		37.2 718.8				UW	UW	UW	UW	UW	UW	UW	UW					
		38					UW	UW	UW	UW	UW	UW	UW	UW					
	Psammitic Schist, grey and light grey, moderately deformed gently to moderately inclined foliation	39	39.6 717.4				UW	UW	UW	UW	UW	UW	UW	UW					
	crush zone, foliation present in tabular blocks up to 20mm high matrix between fragmented Psammitic Schist up to 50mm wide		39.0 717.0 39.2 716.8		foliation parting, 80°, smooth, planar, clean, 80 dip		UW	UW	UW	UW	UW	UW	UW	UW					
	Groundwater Not Encountered																		

Groundwater Not Encountered

NOTES:

LOGGED: JF

DRILLER:

CHECKED: PC

DRILL TYPE:

PROJECT: BOGP
LOCATION: Bendigo
COORDINATES: East 5015899.0 North 1319078.0
GRID: NZTM 2000

RL GROUND: 756.0
DATUM: NZVD 2016

HOLE STARTED: 28/05/2024
HOLE FINISHED: 09/06/2024
HOLE DEPTH: 70.0m
INCLINATION: Vertical
ORIENTATION:

GEOLOGICAL UNIT	Core Description				Rock Defects		Drilling & Testing											
	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS		
TZ3	fragmented Psammitic Schist up to 50mm wide Pelitic Schist, grey and light grey, highly deformed foliation	40.1 715.9						UW	W			0.40	40					
	Pelitic Schist, dark grey and light grey, highly deformed foliation 40.8m - 40.9m: crush seam 50mm wide no foliation remaining 41.0m - 41.1m: crush seam 50mm wide no foliation remaining 41.2m - 41.3m: crush seam 50mm wide no foliation remaining 41.5m - 41.6m: crush seam 50mm wide no foliation remaining	40.6 715.4			foliation parting, 88°, rough, planar, rock fragments, rough surface							0.90	0					
	Pelitic Schist, grey and light grey, moderately deformed gently inclined foliation	41.8 714.2			joint shear, 80°, rough, undulating, rock fragments, rough surface foliation, 60°, joint, 30°, rough, planar, rock fragments, joint, 60°, stepped, undulating, clean, foliation, 60°.		UW					1.00	69					
	Pelitic Schist, grey and light grey, slightly deformed subhorizontal inclined foliation	42.4 713.6			fracture zone, rock fragments, broken fractured zone joint, 60°, stepped, stepped, rock fragments, joint, 70°, stepped, planar, rock fragments, joint, 30°, smooth, undulating, clean, joint, 50°, rough, undulating, rock fragments, shear zone, clay/gouge, puggy clay zone with small rock frags							1.40	44					
	Can't tell from photo	43.6 712.4																
	Pelitic Schist, grey, moderately deformed gently inclined foliation	43.8 712.2						UW										
	Crush zone, grey, polyhedral blocks up to 20mm within a matrix	44.0 712.0																
	Pelitic Schist, grey, moderately deformed gently inclined foliation	44.3 711.6																
	fragmented Pelitic Schist along foliation up to 10mm wide	44.7 711.2						UW					0.60	55				
	Pelitic Schist, grey and light grey, moderately deformed steeply to vertically inclined foliation	44.8 711.2											0.60	75				
	Pelitic Schist, grey and light grey, highly deformed, fractures following foliation present	45.1 710.9						UW	S									
	Schist, greenish grey and light grey, moderately deformed gently to moderately inclined foliation, banding of greener present along foliation	45.5 710.5											0.80	52				
	Pelitic Schist, grey and light grey, moderately deformed gently to moderately inclined foliation	46.2 709.7											0.50	44				
	can't tell from photo	46.6 709.3																
	Pelitic Schist, grey and light grey, moderately deformed gently inclined foliation	47.4 708.5											1.10	69				
	Pelitic Schist, grey and light grey, highly deformed	47.3m - 47.4m: Fault offsetting foliation approx 45 degrees	47.4 708.5															
	Psammitic Schist, grey, moderately deformed gently inclined foliation	48.0 708.0																
	Pelitic Schist, greyish green and light grey, moderately deformed moderately inclined foliation	48.3 707.7																
	Crush zone, grey, polyhedral blocks within a matrix (can't estimate size in photo)	48.7 707.3																
	Pelitic Schist, dark grey and light grey, highly deformed	49.0 707.0											1.30	60				
	Pelitic Schist, grey and light grey, moderately deformed moderately inclined foliation	49.5 706.5																
	Pelitic Schist, grey and light grey, highly deformed																	
	Pelitic Schist, grey and light grey, moderately deformed moderately inclined foliation																	
	Pelitic Schist, grey and light grey, highly deformed																	
	Pelitic Schist, grey and light grey, moderately deformed moderately inclined foliation																	
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Pelitic Schist, grey and light grey, highly deformed																		
Pelitic Schist, grey and light grey, moderately deformed moderately inclined foliation																		

NOTES:

LOGGED: JF
CHECKED: PC

DRILLER:
DRILL TYPE:

EGL - SMI Rock Log - 25/06/2024 2:34:44 pm - Produced with Core-GS by Geroc



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SANTANA
MINERALS LIMITED

DRILLHOLE No.: MDD327

SHEET 6 OF 8

Job No.: 9702

PROJECT: BOGP RL GROUND: 756.0

LOCATION: Bendigo DATUM: NZVD 2016

COORDINATES: East 5015899.0 North 1319078.0

GRID: NZTM 2000

HOLE STARTED: 28/05/2024

HOLE FINISHED: 09/06/2024

HOLE DEPTH: 70.0m

INCLINATION: Vertical

ORIENTATION:

Core Description				Rock Defects				Drilling & Testing										
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY		WEATHERING	ROCK STRENGTH		CORE LOSS (%)	CORE LENGTH / TYPE		SAMPLES	WATER LEVEL	WATER LOSS (%)		FIELD TESTS
						2	5		10	20		50	PT LOAD / UCS (MPa)			25	50	
TZ3	Pelitic Schist, grey and light grey. highly deformed				joint, 80°, smooth, planar, clean,													
	Pelitic Schist, greenish grey and light grey. moderately deformed moderately inclined foliation		50.3 705.7		joint, 50°, smooth, planar, clay/gouge,							1.20	72					
					foliation, 50°, joint, 50°, smooth, undulating, clean,													
					joint, 60°, smooth, planar, clean,													
		51																
		52										1.50	85					
	Pelitic Schist, greenish grey and light grey. moderately deformed subhorizontal foliation		52.2 703.8		shear zone, rock fragments,							0.30	0					
					shear zone, rock fragments,													
		53			joint, 40°, smooth, planar, clean,							0.70	53					
					foliation, 60°,													
	Pelitic Schist, greenish grey and light grey. moderately deformed moderately inclined foliation		53.5 702.5		shear zone, rock fragments,							0.50	76					
		54			shear zone, clay/gouge, clay puggy							0.50	38					
					shear zone coming into the TGF													
Thomson Gorge Fault	sandy CLAY fault gouge, minor polyhedral schist fragments up to 10mm		54.0 702.0		fault, clay/gouge, TGF													
	sandy CLAY fault gouge, trace polyhedral schist fragments up to 10mm		54.5 701.5									0.40	0					
	sandy CLAY fault gouge, minor polyhedral schist fragments up to 10mm		54.9 701.1									0.30	0					
	sandy CLAY fault gouge, trace polyhedral schist fragments up to 10mm		55.2 700.8									0.50	0					
TZ4												0.30	100					
	Psammitic Schist, dark grey and light grey. moderately deformed moderately inclined foliation		55.7 700.8		joint, 70°, smooth, undulating, clay/gouge,							1.40	91					
	Pelitic Schist, dark grey and light grey. highly deformed moderatelyno foliation present		56.0 700.1		joint, 70°, smooth, undulating, rock fragments,													
	Psammitic Schist, dark grey and light grey. highly deformed foliation				shear zone, 40°, rock fragments,													
					joint, 40°, rough, planar, rock fragments,													
		57			joint, 50°, smooth, undulating, clean,													
					joint, 20°, smooth, planar, clay/gouge,													
					joint, 60°, smooth, planar, clean,													
	57.5m: Fold present in foliation																	
	Pelitic Schist, dark grey and light grey. highly deformed foliation		57.6 698.4		joint, 60°, smooth, planar, clean,							1.20	87					
					joint, 70°, smooth, planar, clean,													
	Pelitic Schist, dark grey and light grey. moderately deformed moderately to steeply inclined foliation		58.0 698.0		joint, 70°, smooth, irregular, clean,													
					joint, 60°, smooth, planar, clean,													
					joint, 50°, smooth, irregular, clean,													
					joint, 30°, stepped, planar, clean,							0.90	94					
					joint, 40°, smooth, planar, clean,													
	dark grey		59.7 696.8									1.00	51					
	Pelitic Schist, dark grey and light grey. highly		59.6 696.2															

NOTES:

LOGGED: JF

DRILLER:

CHECKED: PC

DRILL TYPE:

EGL - SWI Rock Log - 25/06/2024 2:34:44 pm - Produced with Core-GS by Geroc

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz SANTANA MINERALS LIMITED		DRILLHOLE No.: MDD327 SHEET 7 OF 8 Job No.: 9702														
PROJECT: BOGP		RL GROUND: 756.0		HOLE STARTED: 28/05/2024												
LOCATION: Bendigo		DATUM: NZVD 2016		HOLE FINISHED: 09/06/2024												
COORDINATES: East 5015899.0 North 1319078.0				HOLE DEPTH: 70.0m												
GRID: NZTM 2000				INCLINATION: Vertical												
				ORIENTATION:												
Core Description			Rock Defects		Drilling & Testing											
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS	
TZ4	deformed foliation															
	Pelitic Schist, dark grey and light grey, slightly deformed subhorizontally inclined foliation	60.4 695.6		joint shear, 60°, smooth, planar, clean,				S		1.00	51					
	Pelitic Schist, dark grey and light grey, moderately deformed very steeply inclined foliation	60.9 695.1		joint, stepped, planar, clean,					1.30	65						
	Crush zone, grey, polyhedral blocks up to 20mm within a matrix	61.2 694.8		shear zone, rock fragments,				MS								
	Pelitic Schist, dark grey and light grey, moderately deformed gently inclined foliation	61.2 694.7		joint, 20°, smooth, planar, clean,						1.40	99					
				joint, 50°, smooth, undulating, clean,												
				joint, 30°, smooth, planar, clean,												
	Pelitic Schist, dark grey and light grey, slightly deformed moderately inclined foliation	62.8 693.2		joint, 60°, smooth, undulating, clean,												
				foliation, 30°,												
				joint shear, 30°, smooth, planar, clean,												
				joint, 60°, smooth, planar, clean,												
				joint, 60°, smooth, planar, clean,												
	Pelitic Schist, dark grey and light grey, highly deformed foliation	63.8 692.2		joint, 60°, smooth, undulating, rock fragments,												
Pelitic Schist, dark grey and light grey, moderately deformed subvertically inclined foliation	64.3 691.7		joint, 30°, smooth, planar, clean,													
Pelitic Schist, dark grey and light grey, highly deformed foliation	64.5 691.5															
			joint, 80°, smooth, curved, clean,													
			foliation, 20°,													
			joint, 20°, smooth, undulating, clean,													
			joint shear, 60°, smooth, undulating, clean,													
			joint, 20°, smooth, planar, clean,													
Pelitic Schist, dark grey and light grey, moderately deformed moderately inclined foliation	66.3 689.7		joint, 60°, smooth, planar, clean,													
			joint, 20°, smooth, planar, clean,													
			joint, 40°, smooth, planar, clean,													
			joint, 50°, smooth, planar, clean,													
Psammitic Schist, grey and light grey, slightly deformed subhorizontally inclined foliation	67.2 688.8		joint, 60°, smooth, planar, clean,													
Pelitic Schist, dark grey and light grey, moderately deformed subhorizontally inclined foliation	67.4 688.6															
			joint, 50°, smooth, planar, rock fragments,													
			joint, 70°, smooth, planar, clean,													
Pelitic Schist, dark grey and light grey, moderately deformed subvertically inclined foliation	68.2 687.8															
Psammitic Schist, dark grey and light grey, moderately deformed gently inclined foliation	68.7 687.7		fracture zone, rock fragments,													
			joint, 70°, stepped, planar, clean,													
Pelitic Schist, dark grey and light grey, moderately deformed gently inclined foliation	69.2 686.8															
			joint shear, 40°, stepped, planar,													

NOTES:

LOGGED: JF

CHECKED: PC

DRILLER:

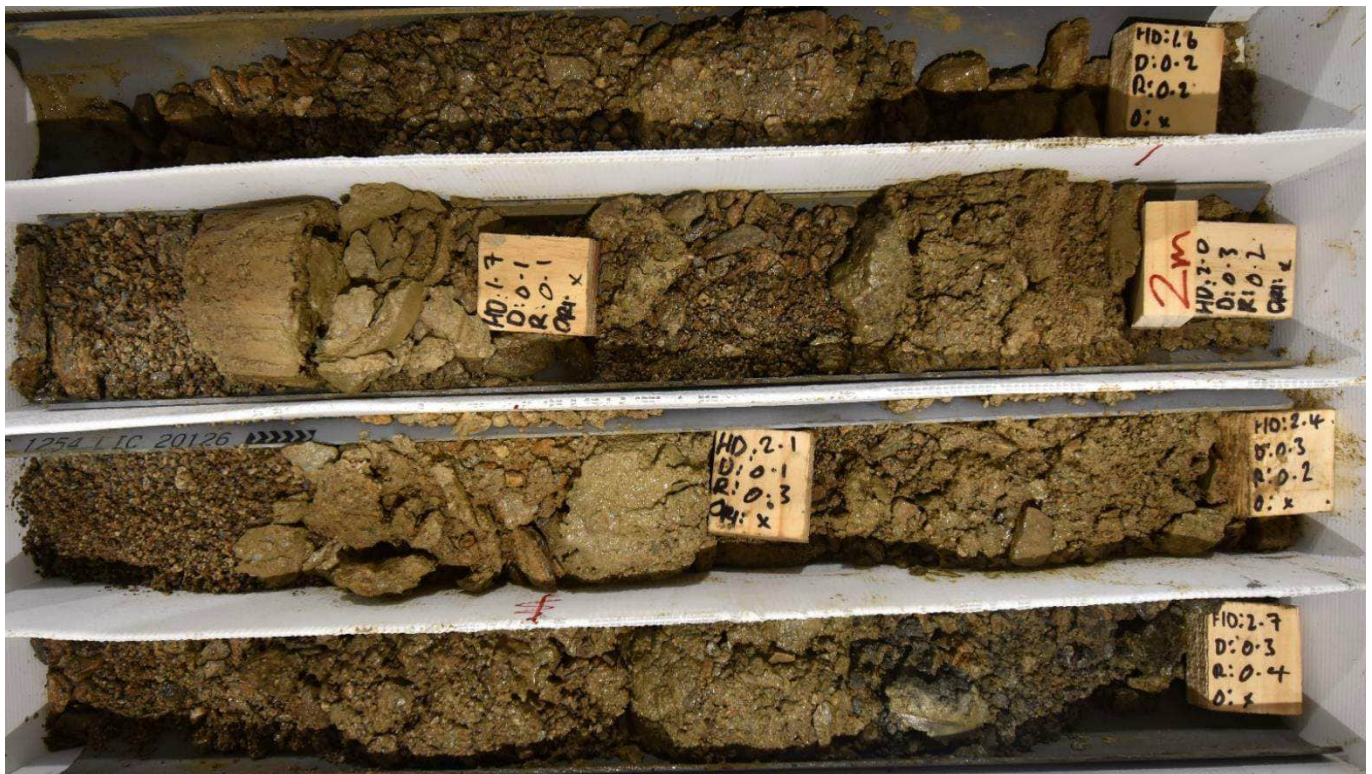
DRILL TYPE:

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz								DRILLHOLE No.: MDD327								
				SHEET 8 OF 8				Job No.: 9702								
PROJECT: BOGP				RL GROUND: 756.0				HOLE STARTED: 28/05/2024								
LOCATION: Bendigo				DATUM: NZVD 2016				HOLE FINISHED: 09/06/2024								
COORDINATES: East 5015899.0 North 1319078.0								HOLE DEPTH: 70.0m								
GRID: NZTM 2000								INCLINATION: Vertical								
								ORIENTATION:								
Core Description				Rock Defects				Drilling & Testing								
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
EOH: 70.00 m clean,																
NOTES:						LOGGED: JF				DRILLER:						
						CHECKED: PC				DRILL TYPE:						

Title:

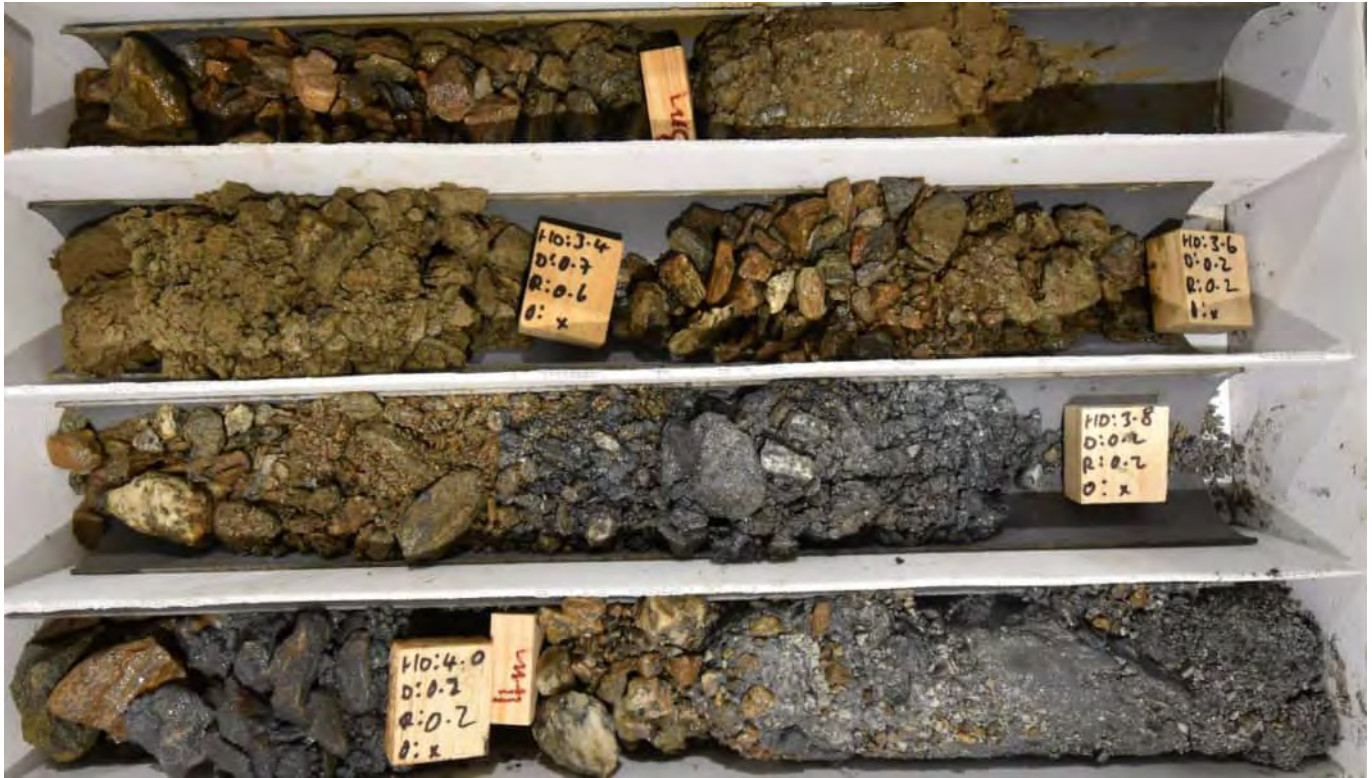
MDD327 - CORE PHOTOGRAPHS


Depth: 0m to 1.4m



Depth: 1.4m to 2.7 m

Title:

MDD327 - CORE PHOTOGRAPHS


Depth: 2.7m to 4.3m



Depth: 4.3m to 6.3m



EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

Start Date

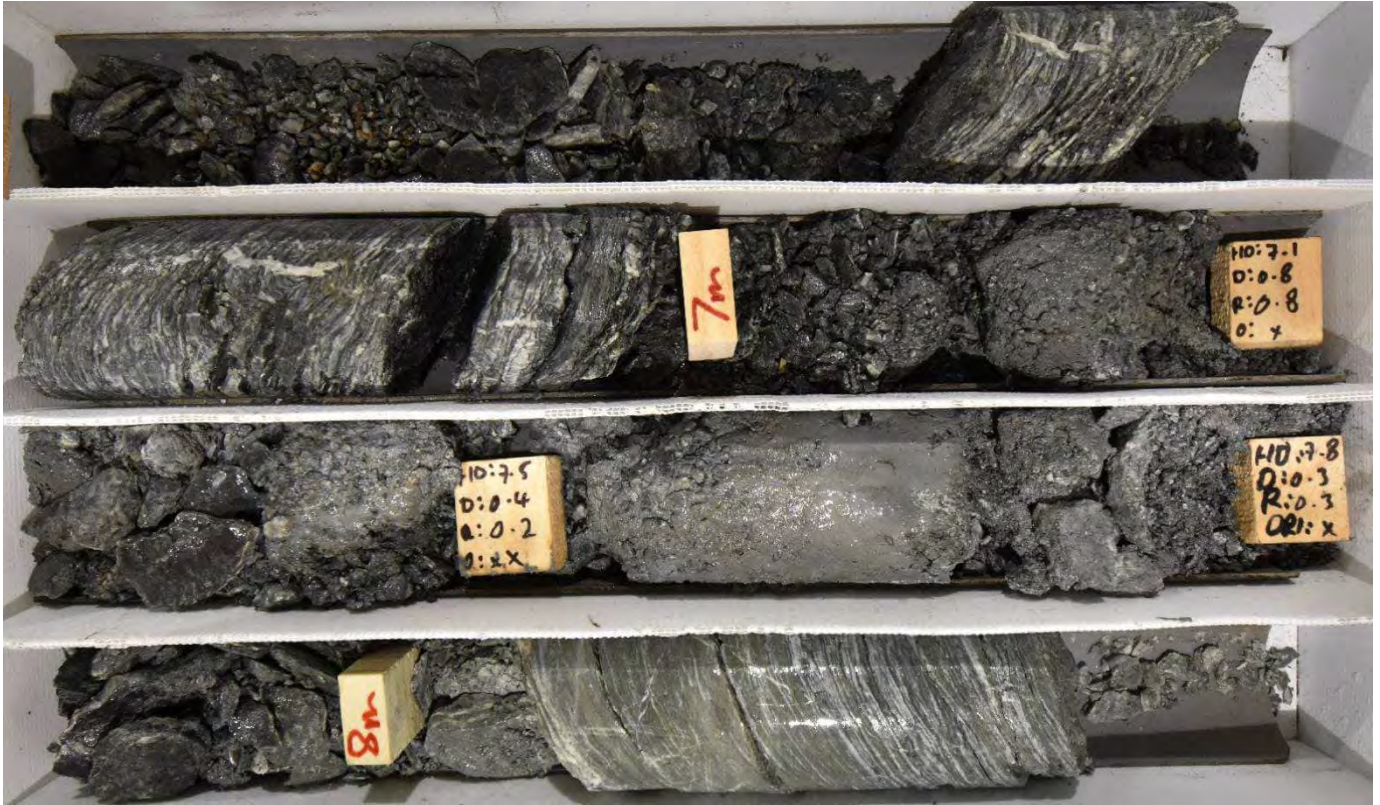
29 May 2024

End Date

8 June 2024

Title:

MDD327 - CORE PHOTOGRAPHS



Depth: 6.3m to 8.2m



Depth: 8.2m to 10.0m



EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

Start Date

29 May 2024

End Date

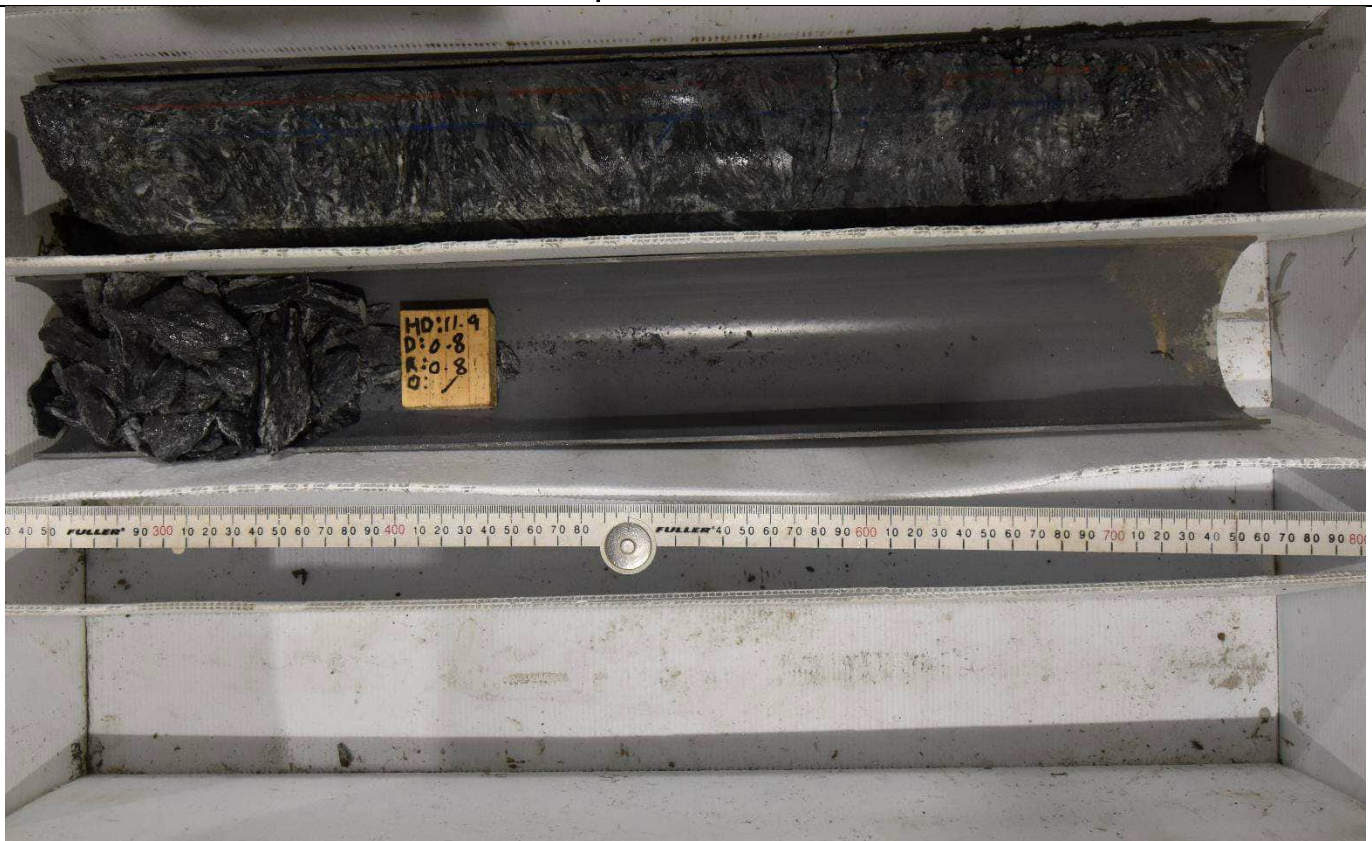
8 June 2024

Title:

MDD327 - CORE PHOTOGRAPHS



Depth: 10.0m to 11.2m



Depth: 11.2m to 11.9m

 	EGL Job No.		9702	
	Location:		Bendigo-Ophir Gold Project	
	Start Date	29 May 2024	End Date	8 June 2024

Title:	MDD327 - CORE PHOTOGRAPHS
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Depth: 11.9m to 14.3m



Depth: 14.3m to 16.4m



EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

Start Date

29 May 2024

End Date

8 June 2024

Title:

MDD327 - CORE PHOTOGRAPHS



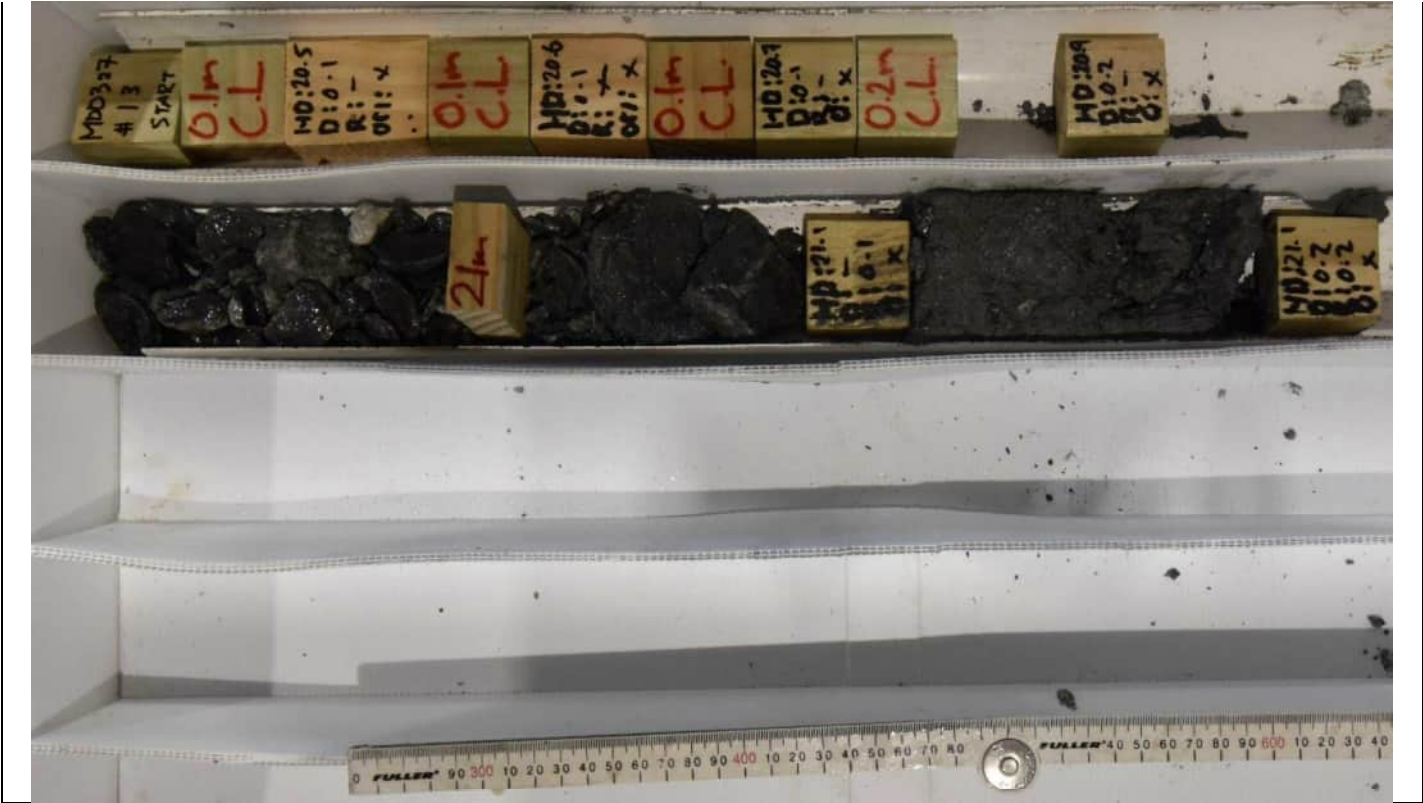
Depth: 16.4m to 18.7m



Depth: 18.7m to 20.4m

EGL Geotechnical, Earthquake and Dam Engineers SANTANA MINERALS LIMITED	EGL Job No.	9702	
	Location:	Bendigo-Ophir Gold Project	
	Start Date	29 May 2024	End Date 8 June 2024

Title:	MDD327 - CORE PHOTOGRAPHS
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Depth: 20.4m to 21.1m



Depth: 21.1m to 22.3m

Title:

MDD327 - CORE PHOTOGRAPHS



Depth: 22.3m to 23.8m



Depth: 23.8m to 24.8m



EGL Job No.

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Location:

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Start Date

29 May 2024

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MDD327 - CORE PHOTOGRAPHS



Depth: 24.8m to 26.3m



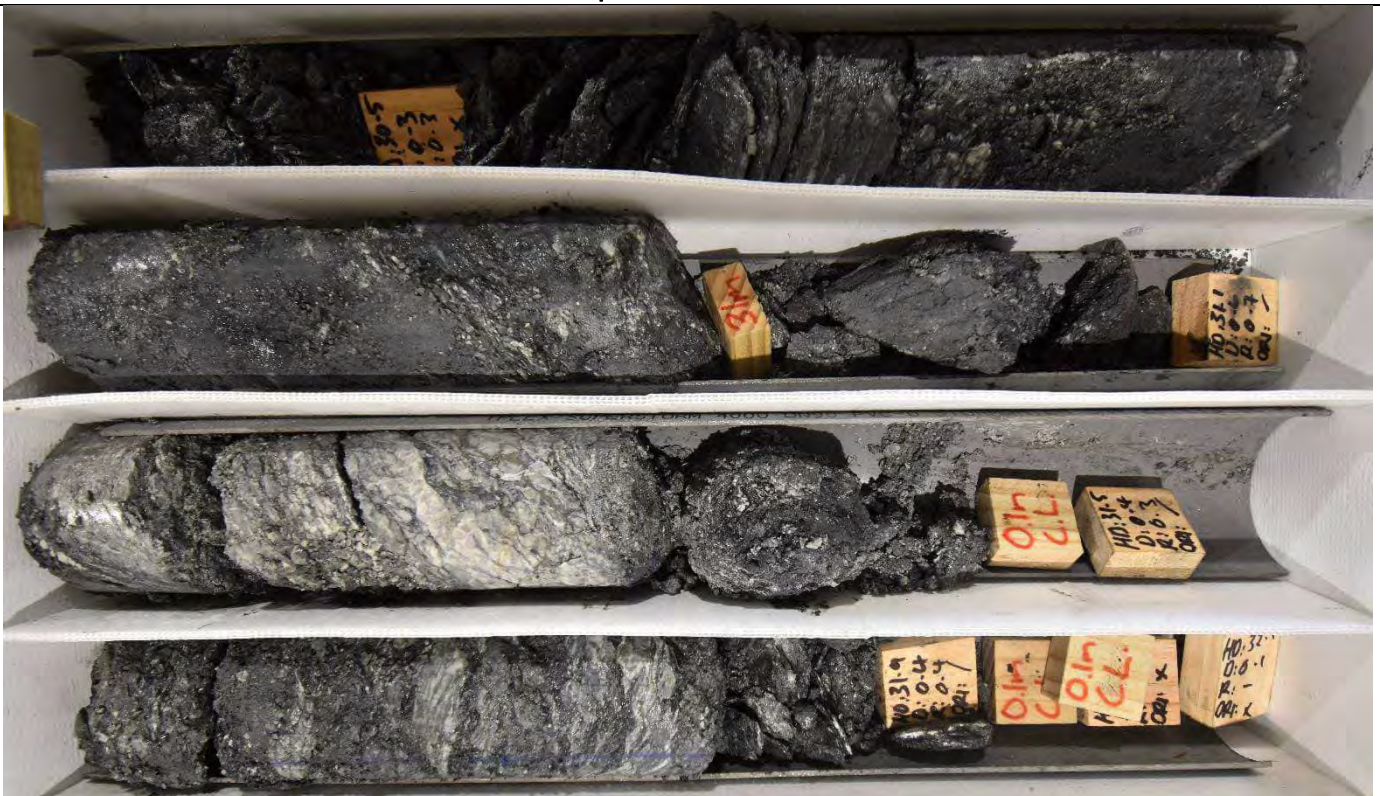
Depth: 26.3m to 28.4m

Title:

MDD327 - CORE PHOTOGRAPHS



Depth: 28.4m to 30.3m



Depth: 30.3m to 32.1m

EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

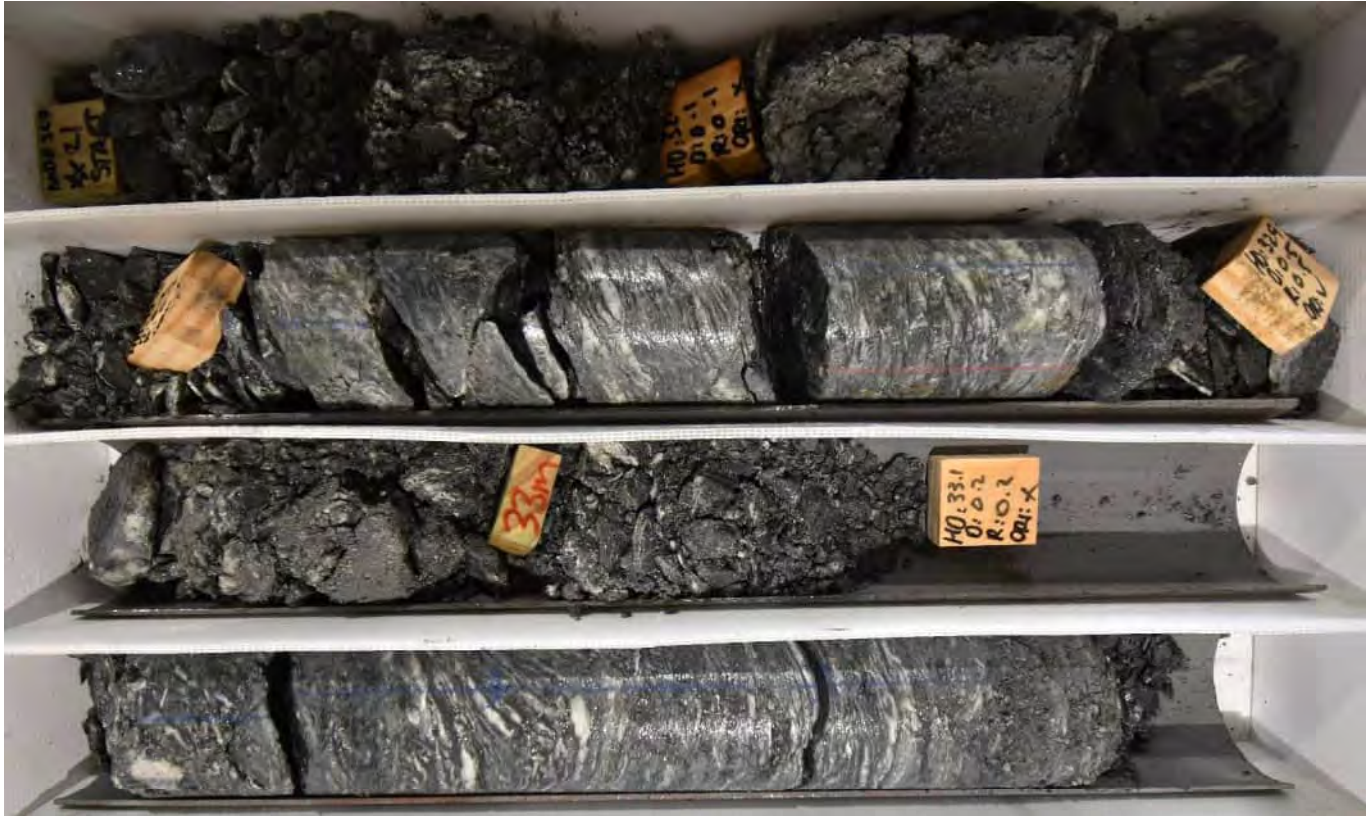
Start Date

29 May 2024

End Date

8 June 2024

Title:

MDD327 - CORE PHOTOGRAPHS

Depth: 32.1m to 33.5m

Depth: 33.5m to 34.4m

Title:

MDD327 - CORE PHOTOGRAPHS



Depth: 34.4m to 37.3m



Depth: 37.3m to 39.7m

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8 June 2024

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MDD327 - CORE PHOTOGRAPHS



Depth: 39.7m to 42.2m



Depth: 42.2m to 44.9m



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MDD327 - CORE PHOTOGRAPHS



Depth: 44.9m to 47.4m



Depth: 47.4m to 50.0m

Title:

MDD327 - CORE PHOTOGRAPHS



Depth: 50.0m to 52.5m



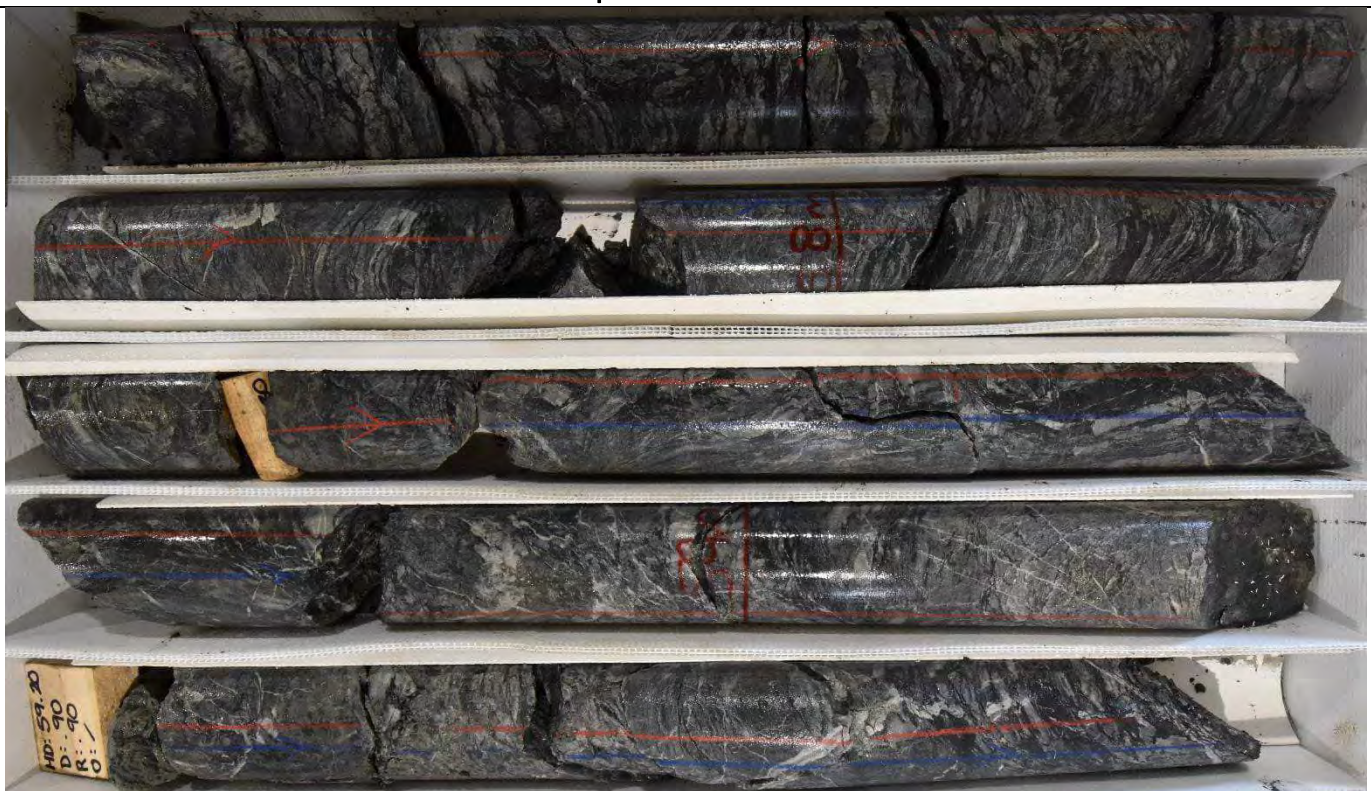
Depth: 52.5m to 54.9m

Title:

MDD327 - CORE PHOTOGRAPHS



Depth: 54.9m to 57.2m



Depth: 57.2m to 59.6m



EGL Job No.

9702

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Start Date

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End Date

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Title:

MDD327 - CORE PHOTOGRAPHS



Depth: 59.6m to 62.2m



Depth: 62.2m to 64.6m



EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

Start Date

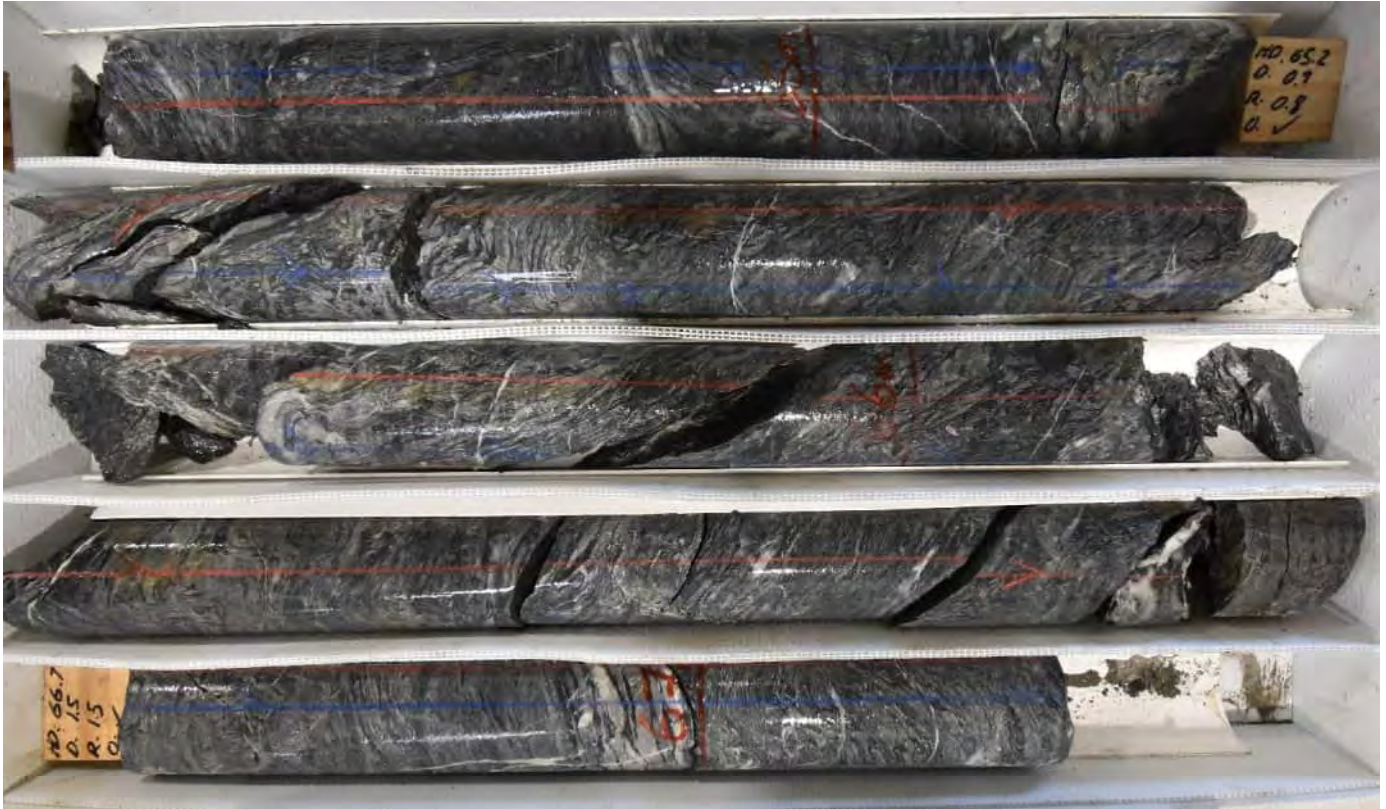
29 May 2024

End Date

8 June 2024

Title:

MDD327 - CORE PHOTOGRAPHS



Depth: 64.6m to 67.2m



Depth: 67.2m to 69.7m

 	EGL Job No.		9702	
	Location:		Bendigo-Ophir Gold Project	
	Start Date	29 May 2024	End Date	8 June 2024
Title:	MDD327 - CORE PHOTOGRAPHS			



Depth: 69.7m to 70.0m



DRILLHOLE No.:	MDD333
SHEET 1 OF 10	
Job No.:	9702

PROJECT:	BOGP	RL GROUND:	741.0	HOLE STARTED:	12/06/2024
LOCATION:	Bendigo	DATUM:	NZVD 2016	HOLE FINISHED:	14/06/2024
COORDINATES:	East 5016220.3 North 1318602.7			HOLE DEPTH:	45.0m
GRID:	NZTM 2000			INCLINATION:	Vertical
				ORIENTATION:	

Core Description				Rock Defects										Drilling & Testing												
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY					WEATHERING	ROCK STRENGTH		PT LOAD / UCS (MPa)		CORE LOSS (%)		CORE LENGTH / TYPE		RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)		FIELD TESTS	
						2	5	10	20	50						25	50	75					25	50	75	
TS	Topsoil		741.0 0.1 740.9																							
Colluvium	Gravelly sandy SILT, fine to coarse gravel, greyish brown mottled brownish grey and grey	1																								
	Silty sandy GRAVEL, fine to coarse gravel, greyish brown mottled brownish grey and grey	2	2.1 738.9																							
	Core loss		2.8 738.2																							
TZ3	Washed Pelitic Schist fragments, brown, polyhedral up to 20mm	3	3.0 738.0																							
	Washed Pelitic Schist fragments, grey, tabular up to 60mm by 20mm	4	3.7 737.3																							
	Washed Pelitic Schist fragments, brown, polyhedral up to 20mm		4.5 736.5																							
			5.0			foliation, 65°, smooth, planar, clean, foliation no ori line just captured dip																				

NOTES:	LOGGED: JF	DRILLER:
	CHECKED: PC	DRILL TYPE:



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DRILLHOLE No.: MDD333

SHEET 2 OF 10

Job No.: 9702

PROJECT: BOGP
LOCATION: Bendigo
COORDINATES: East 5016220.3 North 1318602.7
GRID: NZTM 2000

RL GROUND: 741.0
DATUM: NZVD 2016

HOLE STARTED: 12/06/2024
HOLE FINISHED: 14/06/2024
HOLE DEPTH: 45.0m
INCLINATION: Vertical
ORIENTATION:

GEOLOGICAL UNIT	Core Description				Rock Defects	Drilling & Testing												
	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH		CORE LOSS		CORE LENGTH / TYPE		SAMPLES	WATER LEVEL	WATER LOSS	FIELD TESTS	
								PT LOAD / UCS (MPa)		%		RQD (%)						%
TZ3	Washed Pelitic Schist fragments, grey, tabular up to 60mm by 20mm		736.0						MS				0.20					
	Pelitic Schist, grey and light grey. Moderately deformed gently inclined foliation		735.8															
	Washed Pelitic Schist fragments, tabular up to 60mm by 30mm		735.5		joint, 54°, defined ridges, irregular, clean, broken irregular face wavy texture, likely crenular texture		UW						0.60		67			
	Pelitic Schist, grey and dark grey. Highly deformed foliation, clay smear on core		735.3		shear zone, 78°, very rough, planar, clay/gouge, clay filled fault 2cm wide		S											
			735.3		shear zone, 58°, very rough, planar, clay/gouge, clay filled fault 2cm wide								0.60		75			
	Pelitic Schist fragments, grey, polyhedral up to 20mm		734.9															
	Pelitic Schist, grey and dark grey. Moderately deformed subhorizontal to gently inclined foliation		734.7															
	Pelitic Schist, grey and dark grey. Moderately deformed gently to moderately inclined foliation		734.5		foliation parting, 59°, rough, planar, clean, clean break foliation foliation parting, 77°, rough, planar, rock fragments, rock fragments on foliation surface.		S						0.80		80			
			734.0		joint, 59°, rough, irregular, rock fragments, irregular surface rock frayed face		UW											
	Pelitic Schist, grey and dark grey. Moderately deformed steeply inclined to subvertical foliation		734.0		fold axis, 60°, rough, stepped, rock fragments, measurement should be retaken on rocket launcher, dip taken of broken face likely be foliation, lineation needs to be taken at shed								0.40		73			
	7.3m: Fold present in foliation		733.7				VS											
	Pelitic Schist, grey and dark grey. Highly deformed foliation.		733.7															
					shear zone, 44°, rough, planar, clay/gouge, clay filled fault 25mm wide								0.70		0			
					foliation, 56°, smooth, undulating, clean, wavy surface crest of F2/F3 in measure surface good lineation of fold access. No ori line													
	8.1m - 8.1m: Fold present in foliation				fold axis, 40°, smooth, planar, clean, measurement inaccurate, F3 fold in tz3 strong kink		W											
			732.6		foliation parting, 70°, smooth, planar, clean, undulating surface strongly folded		S						0.40		80			
	Pelitic Schist, grey and dark grey. Moderately deformed subhorizontal to gently inclined foliation		732.6															
	Pelitic Schist fragments, grey, polyhedral up to 20mm		732.4															
	Core loss		732.4															
	Washed Pelitic Schist fragments, grey, polyhedral up to 20mm		732.2					W										
	Core loss		732.0															
			731.8															
	Pelitic Schist fragments, grey, polyhedral up to 20mm		731.8															
	9.3m - 9.4m: Clay present, unknown if on outside only		731.8															
	Pelitic Schist, grey and dark grey. Moderately deformed subhorizontal to gently inclined foliation		731.6															
	9.5m: Fold present in foliation		731.6															
			731.3		foliation parting, 70°, smooth, planar, clean, foliation shear, 80°, slickensided, planar, clean, measurement contacted on UHC of F3 fold surface, technically foliation shear?		MS						0.40		71			
	Pelitic Schist, grey and dark grey. Moderately deformed gently to moderately inclined foliation		731.3															
9.7m: Fold present in foliation		731.3											0.70		77			

NOTES:

LOGGED: JF

DRILLER:

CHECKED: PC

DRILL TYPE:



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DRILLHOLE No.: MDD333

SHEET 3 OF 10

Job No.: 9702

PROJECT: BOGP
LOCATION: Bendigo
COORDINATES: East 5016220.3 North 1318602.7
GRID: NZTM 2000
RL GROUND: 741.0
DATUM: NZVD 2016

HOLE STARTED: 12/06/2024
HOLE FINISHED: 14/06/2024
HOLE DEPTH: 45.0m
INCLINATION: Vertical
ORIENTATION:

Core Description				Rock Defects				Drilling & Testing																							
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY					WEATHERING	ROCK STRENGTH		CORE LOSS		CORE LENGTH / TYPE		SAMPLES	WATER LEVEL	WATER LOSS		FIELD TESTS									
						2	5	10	20	30		PT LOAD / UCS (MPa)	PT LOAD / UCS (MPa)	25	50	75	25			50	75		25	50	75						
TZ3	Pelitic Schist, grey and dark grey. Moderately deformed gently to moderately inclined foliation	11			joint, 86°, rough, irregular, clean, 3 joint fractures coinsidering together, splayed across core						MS					0.70	77														
	Pelitic Schist fragments, grey, tabular up to 60mm by 30mm		10.5	730.5	joint shear, 80°, slickensided, planar, clean, planar with slicken slide surface texture x cuts foliation																										
	Pelitic Schist, grey and dark grey. Moderately deformed subhorizontal to gently inclined foliation		10.7	730.3	joint, 20°, rough, stepped, clean, shallow dipping joint fracture																										
					joint, 70°, smooth, irregular, clay/gouge, residue of 1mm blue clay on surface, core very brittle, most pronounced fracture measured																										
					joint, 82°, rough, stepped, clay/gouge, residue of 1mm blue clay on surface, core very brittle, most pronounced fracture measured																										
		12			foliation parting, 70°, smooth, planar, clean,						UW					0.70	69														
				foliation, 80°, rough, irregular, clay/gouge, clay filled fracture/foliation, irregular surface																											
				joint shear, 15°, rough, planar, clay/gouge, shallow slickened joint fracture running up hole																											
				crush zone, 88°, very rough, planar, rock fragments, steeply dipping crush zone, cavity filled with rock fragments approx 10-30mm wide planar																											
				joint, 81°, very rough, irregular, rock fragments, fractured material x cutting core surface, carbanate infuix, vertical streaks of carb overlaying folation perpenticular																											
		13			joint, 50°, rough, planar, rock fragments, moderate dipjoint vein type 3, 85°, 0, planar, carbonate, dipping up hole						W					0.70	64														
				joint, 86°, smooth, planar, rock fragments, at least 4 fractures over space of 20mm terminanting into schist, fracture measeared at the top of fracturing zone																											
				foliation, 87°, rough, planar, clay/gouge, py specks over surface of qz band, 80mm thick with cholrite qz fill																											
				joint shear, 30°, very rough, planar, clay/gouge, 5mm wide shear x cutting foliation																											
				foliation parting, 79°, rough, planar, rock fragments, half a mm of clay residue on face but more fractured material																											
		14			foliation shear, 80°, slickensided, undulating, clean, wavy surface						MS					0.40	72														
				foliation shear, 85°, smooth, planar, clay/gouge, clay filled smooth surface																											
				foliation, 89°, stepped, planar, clean, stepped foliation looks like you couldclimb it																											
				joint, 78°, very rough, irregular, rock fragments, terminates across core																											
				shear zone, 65°, very rough, undulating, clay/gouge, clayfilled with veinlet of py 2mm wide following edge of micro fault 10mm wide. Contacts too joint																											
		14			joint shear, 82°, rough, planar, clay/gouge, faulted zone 30mm wide with fractures followfault plane,											0.40	92														
				joint, 86°, rough, irregular, clean, irregular surface rock fraged face																											

NOTES: LOGGED: JF DRILLER: CHECKED: PC DRILL TYPE:



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DRILLHOLE No.: MDD333

SHEET 4 OF 10

Job No.: 9702

PROJECT: BOGP
LOCATION: Bendigo
COORDINATES: East 5016220.3 North 1318602.7
GRID: NZTM 2000
RL GROUND: 741.0
DATUM: NZVD 2016

HOLE STARTED: 12/06/2024
HOLE FINISHED: 14/06/2024
HOLE DEPTH: 45.0m
INCLINATION: Vertical
ORIENTATION:

Core Description				Rock Defects				Drilling & Testing									
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	CORE LOSS			CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
									PT LOAD / UCS (MPa)	25	50						
TZ3	Pelitic Schist fragments, grey, tabular up to 60mm by 20mm	15.1	725.9		foliation parting, 88°, smooth, undulating, clean, steeply dipping and hammocky surface i.e wavy							0.20	75				
	Pelitic Schist, grey and dark grey. Moderately deformed subhorizontal to gently inclined foliation	15.4	725.6		foliation parting, 87°, rough, planar, clean, level laminated schist			MS				0.60	0				
	Pelitic Schist, grey and light grey. Highly deformed foliation	15.7	725.3		foliation parting, 87°, smooth, planar, clean, near vertical dip. Slight time up hole							0.70	71				
	Pelitic Schist fragments, grey, polyhedral up to 20mm	16.3	724.8					W				0.10	0				
	Core loss	16.6	724.4									0.10	0				
	Pelitic Schist, grey and dark grey. Moderately deformed moderately to steeply inclined foliation	17.3	723.7		foliation parting, 78°, smooth, undulating, clay/gouge, veneer of clay over black smoother surface. Was able to break with hand. Low strength			S				0.80	31				
	Pelitic Schist, grey and dark grey. Moderately deformed gently to moderately inclined foliation	17.8	723.2		joint, 80°, rough, planar, rock fragments, rough face			W				0.60	66				
	Pelitic Schist, grey and dark grey, highly deformed foliation, clay present on core	17.9	723.2		joint, 65°, rough, undulating, rock fragments, joint x cutting puggy core with rock fragmented face			S									
	17.9m: Clay seam 50mm wide, moderately inclined	18.0			foliation parting, 70°, rough, planar, clean, rough surface in puggy tz3 core			W				0.40	0				
	18.0m: Clay seam 50mm wide, moderately inclined				joint, 86°, rough, planar, clay/gouge, puggy tz3 with clay skin, rock inside shows irregular rock surface			W									
					joint, 89°, rough, irregular, rock fragments, vertical face slight dip up hole												
	Pelitic Schist, grey and dark grey. Moderately deformed moderately to steeply inclined foliation	19.0	723.0		foliation shear, 40°, slickensided, polished, clean, change in foliation less deformed steeper			W				1.00	0				
	19.8m - 19.8m: Crush seam, fragments up to 8mm within clay matrix; 50mm wide, gently inclined	19.8	721.2		foliation parting, 52°, smooth, planar, clean, undulating surface with semi smoother surface borderline rough						0.80	0					
	Pelitic Schist, grey and dark grey. Moderately deformed gently to moderately inclined foliation																

Groundwater Not Encountered

NOTES:

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DRILLHOLE No.: MDD333

SHEET 5 OF 10

Job No.: 9702

PROJECT: BOGP
LOCATION: Bendigo
COORDINATES: East 5016220.3 North 1318602.7
GRID: NZTM 2000
RL GROUND: 741.0
DATUM: NZVD 2016

HOLE STARTED: 12/06/2024
HOLE FINISHED: 14/06/2024
HOLE DEPTH: 45.0m
INCLINATION: Vertical
ORIENTATION:

GEOLOGICAL UNIT	Core Description			Rock Defects				Drilling & Testing									
	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH		CORE LOSS	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS	FIELD TESTS	
								PT LOAD / UCS (MPa)									
						2 5 10 20 30				25 50 75					25 50 75		
TZ3	Pelitic Schist, grey and dark grey. Moderately deformed subhorizontal to gently inclined foliation		721.0		shear zone, 40°, very rough, planar, clay/gouge, 60mm wide fault		UW	MS				0.90	0	Groundwater Not Encountered			
	Pelitic Schist fragments, grey, tabular up to 60mm by 20mm 20.3m: Clay seam 50mm wide, steeply inclined		20.3 720.7		crush zone, 88°, very rough, planar, rock fragments, crush zone at base of run, potentially driller inducedbut looks natural						0.20	0					
	Pelitic Schist, grey and dark grey. Moderately deformed gently to moderately inclined foliation		20.6 720.4		joint, 85°, very rough, irregular, rock fragments, jointed face dhc core above very broken joint, 85°, very rough, irregular, rock fragments, roughfracture x cutting rock					0.70	0						
		21			shear zone, 70°, rough, planar, clay/gouge, pug filled 70cm fault joint, 70°, very rough, planar, rock fragments, roughrock fraged break												
					joint, 78°, rough, planar, clean, rough steep dip												
	Pelitic Schist, grey and dark grey. Moderately deformed subhorizontal to gently inclined foliation		21.7 719.3		joint shear, 65°, smooth, planar, sulphides, smooth face with py semi polished across face				1.20	0							
		22			shear zone, 90°, rough, planar, rock fragments, diiping slightly up hole shear zone, 40°, rough, planar, clay/gouge, uh measurement		VS										
	Pelitic Schist, grey and dark grey. Slightly deformed subhorizontal to gently inclined foliation		22.7 718.3		joint shear, 70°, slickensided, planar, chlorite, chloritic slickenslide fill												
		23			foliation parting, 80°, smooth, undulating, clay/gouge, undulating surface with 1mm clay residue on surface foliation, 88°, polished, undulating, clean, mirror finish joint, 82°, very rough, irregular, rock fragments, rock frags in brocken bit foliation shear, 60°, polished, polished, sulphides, pyrite filled folation shear, mirrow polish joint shear, 70°, slickensided, planar, chlorite, chloritic slickenslide fill joint, 65°, rough, planar, rock fragments, rough joint DHC joint, 55°, smooth, planar, clean, joint downhole measurement				1.00	0							
	Pelitic Schist fragments, grey, polyhedral up to 50mm		24.0 717.0		foliation, 80°, smooth, planar, clean, uh measurement		W										
	Pelitic Schist, grey and dark grey. Slightly deformed subhorizontal to gently inclined foliation		24.2 716.8		joint, 86°, polished, planar, sulphides, pyrites surface with black veneer clay joint, 73°, polished, planar, sulphides, pyrites surface with black veneer clay joint, 80°, rough, irregular, rock fragments, rock fragmented surface joint, 88°, smooth, planar, clean, steeply dipping planar joint foliation, 82°, rough, stepped, clean, stepped foliation but near vertical					0.50	53						
	Crush zone, grey, polyhedral blocks up to 8mm within a matrix		24.8 716.2		joint shear, 70°, smooth, planar, clay/gouge, possible fault but put in					0.70	0						

NOTES:

LOGGED: JF

DRILLER:

CHECKED: PC

DRILL TYPE:

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz				DRILLHOLE No.: MDD333													
				SHEET 6 OF 10													
				Job No.: 9702													
PROJECT: BOGP		RL GROUND: 741.0		HOLE STARTED: 12/06/2024													
LOCATION: Bendigo		DATUM: NZVD 2016		HOLE FINISHED: 14/06/2024													
COORDINATES: East 5016220.3 North 1318602.7				HOLE DEPTH: 45.0m													
GRID: NZTM 2000				INCLINATION: Vertical													
				ORIENTATION:													
Core Description			Rock Defects		Drilling & Testing												
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY 2 5 10 20 30	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%) 25 50 75	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%) 25 50 75	FIELD TESTS	
TZ3	Crush zone, grey, polyhedral blocks up to 8mm within a matrix	25.1	716.0		as joint shear as it has been sheared												
	Pelitic Schist, grey and dark grey. Moderately deformed gently to moderately inclined foliation	25.2	715.8		foliation parting, 80°, smooth, polished, clean, clean foliation				MS			0.70	0				
	Pelitic Schist, grey and dark grey. Moderately deformed subhorizontal to gently inclined foliation							W									
					crush zone, 85°, rough, irregular, rock fragments, crush zone 30mm wide fragmented material fill			UW									
	Pelitic Schist, grey and dark grey. Moderately deformed moderately to steeply inclined foliation	25.6	715.4		joint, 75°, rough, irregular, rock fragments, softer material in joint, slight chloritic influx in foliation				S			1.00	0				
					foliation shear, 80°, very rough, planar, rock fragments, brittle host jointsome what following foliation												
					shear zone, 85°, very rough, planar, clay/gouge, puggy fault 10cm long			W									
	Pelitic Schist, grey and dark grey. Moderately deformed subhorizontal to gently inclined foliation	26.4	714.6		joint, 86°, rough, planar, clean, cleanface clean break no fill												
					joint, 70°, rough, planar, clean, clean face now fill												
	Pelitic Schist, grey and dark grey. Moderately deformed gently to moderately inclined foliation	27.0	714.0		joint shear, 71°, slickensided, planar, clean, slicken slide semi polished face							1.30	0				
					joint shear, 10°, polished, planar, rock fragments, shallow joint shear with black venear of clay 2mm wide clay layer												
					foliation parting, 80°, rough, planar, rock fragments, foliation break												
	Pelitic Schist, grey and dark grey. Moderately deformed subhorizontal to gently inclined foliation	27.8	713.2		joint shear, 50°, smooth, planar, clay/gouge, semi sheared joint with pug clay fill, more of the same up 10 cm				S								
	Pelitic Schist, grey and dark grey. Moderately deformed gently to moderately inclined foliation	28.2	712.8		joint, 65°, rough, planar, rock fragments, rock fragment fill fracture							0.80	75				
					foliation parting, 80°, rough, planar, rock fragments, rough surface clean break												
					foliation parting, 70°, rough, planar, rock fragments, rough foliatio break												
Pelitic Schist fragments, grey, polyhedral up to 50mm	29.1	711.9		joint shear, 40°, smooth, planar, clay/gouge, clay filled surface black clay				W									
				shear zone, 20°, smooth, planar, clay/gouge, clay filld surface pug and rock fragment fill zone													
Pelitic Schist, grey and dark grey. highly deformed foliation	29.5	711.6		joint shear, 5°, polished, planar, clay/gouge, clay slip surface				S									
				joint shear, 3°, slickensided, irregular, clay/gouge, very shallow dipping uh measurement							1.20	0					
				foliation parting, 70°, smooth, planar, clay/gouge, clay filled break													
Crush zone, grey, polyhedral blocks up to 15mm within a matrix	29.8	711.2		shear zone, 5°, rough, planar, rock fragments, rock fragment filled very													
Pelitic Schist, grey and dark grey. Moderately	29.9	711.1															
NOTES:						LOGGED: JF		DRILLER:									
						CHECKED: PC		DRILL TYPE:									

Groundwater Not Encountered

PROJECT: BOGP
LOCATION: Bendigo
COORDINATES: East 5016220.3 North 1318602.7
GRID: NZTM 2000

RL GROUND: 741.0
DATUM: NZVD 2016

HOLE STARTED: 12/06/2024
HOLE FINISHED: 14/06/2024
HOLE DEPTH: 45.0m
INCLINATION: Vertical
ORIENTATION:

GEOLOGICAL UNIT	Core Description	Rock Defects			Drilling & Testing												
		DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS	
TZ3	deformed gently to moderately inclined foliation				soft schist, crumbles in hand joint shear, 80°, rough, planar, clay/gouge, pug filled joint break joint shear, 75°, rough, planar, clay/gouge, steep dip joint shear zone, 65°, smooth, planar, clay/gouge, 20mm wide foliation, 72°, smooth, planar, clean, foliation break joint shear, 45°, slickensided, planar, clean, slicken slide semi polished face joint, 75°, rough, planar, clean, zone of 20cm of heavily fractured area at least 7 fractures							1.20	0				
	Pelitic Schist, grey and dark grey, slightly deformed steeply inclined foliation	30.9	710.7														
	31.1m - 31.2m: Crush seam, fragments up to 10mm no matrix; 50mm wide, triangular shape in core	31											1.10	0			
	Pelitic Schist, grey and dark grey, Moderately deformed gently to moderately inclined foliation	31.2	709.8		crush zone, 60°, very rough, planar, rock fragments, brittle broken joint, 2°, rough, planar, rock fragments, fracture heading uphole												
					joint, 65°, smooth, planar, clean, uhc												
					joint, 60°, very rough, irregular, rock fragments, rock fragmented surface foliation parting, 50°, rough, planar, clay/gouge, uhc measurement terminates into joint							0.50	0				
	Pelitic Schist fragments, grey, polyhedral bimodal distribution, approx 20mm and 50mm	32.0	709.0		shear zone, 80°, rough, planar, rock fragments, large brittle schist zone measured as large structure												
	Pelitic Schist, grey and dark grey, Highly deformed foliation	32.2	708.8										1.20	0			
	32.3m - 32.5m: Three Crush seams, fragments up to 8mm within clay matrix; 50mm wide, gently inclined, spaced 60mm apart				foliation, 80°, rough, planar, clay/gouge, clay filled foliation surface												
					joint, 45°, rough, planar, clay/gouge, roughish surface think layer 1mm of clay on joint surface												
TZ4	Pelitic Schist, grey and dark grey, Moderately deformed gently to moderately inclined foliation	33.0	708.0		foliation shear, 40°, smooth, planar, clay/gouge, smoothing face with some minor slicken surface												
	Pelitic Schist, grey and dark grey, Moderately deformed subhorizontal to gently inclined foliation	33.5	707.5		joint shear, 80°, smooth, planar, clay/gouge, smooth clay filled joint joint shear, 70°, smooth, planar, clay/gouge, shear zone, 30°, smooth, planar, clay/gouge, clay gouge filled with rock fragments 10mm wide approx							1.10	0				
	Pelitic Schist, grey and dark grey, Highly deformed foliation	33.8	707.2		joint shear, 75°, smooth, planar, clay/gouge, steeply dipping joint												
	Sandy CLAY fault gouge, trace polyhedral schist fragments up to 10mm	34.2	706.8		shear zone, 48°, smooth, undulating, clay/gouge, tgf tz3 contact, very rough measurement hard to gage contact												
	Psammitic Schist, grey and dark grey, Moderately deformed subhorizontal to gently inclined foliation	34.4	706.6														
	Pelitic Schist, grey and dark grey, Moderately deformed gently to moderately inclined foliation	34.6	706.4		joint, 70°, rough, irregular, clean, clean break							1.20	0				

Groundwater Not Encountered

NOTES:

LOGGED: JF

DRILLER:

CHECKED: PC

DRILL TYPE:



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SANTANA
MINERALS LIMITED

DRILLHOLE No.: MDD333

SHEET 8 OF 10

Job No.: 9702

PROJECT: BOGP
LOCATION: Bendigo
COORDINATES: East 5016220.3 North 1318602.7
GRID: NZTM 2000
RL GROUND: 741.0
DATUM: NZVD 2016

HOLE STARTED: 12/06/2024
HOLE FINISHED: 14/06/2024
HOLE DEPTH: 45.0m
INCLINATION: Vertical
ORIENTATION:

Core Description				Rock Defects				Drilling & Testing													
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY					WEATHERING	ROCK STRENGTH		CORE LOSS	CORE LENGTH / TYPE		SAMPLES	WATER LEVEL	WATER LOSS	FIELD TESTS	
						2	5	10	20	30		PT	UCS (MPa)		25	50					75
TZ4	Pelitic Schist, grey and dark grey. Moderately deformed gently to moderately inclined foliation	36	705.1		foliation, 50°, smooth, planar, clean, mostly very undulating in core hard to find clear measurement						UW		S			1.20	0				
	shear zone, 70°, rough, planar, rock fragments, brittle fault									UW		MS									
	foliation shear, 80°, smooth, planar, rock fragments, crumbly joint shear clay and rock fragments																				
	Psammitic Schist, grey and dark grey. Moderately deformed subhorizontal to gently inclined foliation	37	704.7		joint, 3°, rough, planar, rock fragments, fracture running up hole						UW					1.20	0				
	joint shear, 60°, slickensided, planar, clean, uh measurement clean											S									
	joint, 70°, rough, undulating, rock fragments, undulating joint has wavy surface texture																				
	Pelitic Schist, grey and dark grey. Moderately deformed subhorizontal to gently inclined foliation	38	704.3		foliation parting, 85°, rough, irregular, clean, steeply dipping foliation											0.80	0				
	foliation parting, 63°, rough, undulating, rock fragments, tapering out to shallow dip																				
	joint, 55°, rough, planar, clean, planar and rough surface																				
	37.4m: Crush seam, fragments up to 10mm within clay matrix; 50mm wide, gently inclined	39	703.7		shear zone, 60°, rough, planar, clay/gouge, clay pug filled fault 30mm wide						UW		MS								
	Crush zone, grey, polyhedral blocks up to 10mm within a sand matrix											W									
	joint, 89°, rough, irregular, rock fragments, near vertical aloha																				
	Pelitic Schist, grey and dark grey. Moderately deformed subhorizontal to gently inclined foliation	39	703.5		shear zone, 86°, rough, planar, rock fragments, slight uphole dip brittle pug and fracturing further up																
foliation, 85°, smooth, planar, clean, strong core lot of qz																					
	39	702.6		foliation parting, 84°, rough, stepped, rock fragments, stepped foliation parting						UW			VS			1.50	0				
Pelitic Schist, grey and dark grey. Moderately deformed gently to moderately inclined foliation																					
Pelitic Schist, grey and dark grey. Slightly deformed subhorizontal inclined foliation																					
	39	702.1		vein type 3, 5°, smooth, planar, carbonate, shallow dipping uh vein 3 8mm wide and 15cm long over core, intact not breaks																	
Pelitic Schist, grey and dark grey. Moderately deformed gently to moderately inclined foliation																					
foliation parting, 86°, defined ridges, planar, clean, defined ridges definitely not slickens																					
	39	701.9		shear zone, 60°, smooth, undulating, clay/gouge, undulating if fault clay been compacted on contact to tz4 host rock, appears smooth and wavy						UW		MS			1.30	0					
Pelitic Schist, grey and dark grey. Slightly deformed subhorizontal inclined foliation																					
Crush zone, grey, polyhedral blocks up to 10mm within a matrix																					
Psammitic Schist, grey and dark grey. Moderately deformed subhorizontal to gently inclined foliation		701.8		joint, 30°, very rough, planar, rock fragments, rock fragment filled joint approx 5mm wide						UW		S									
				joint, 60°, rough, planar, clean, rock fragmented but clean break																	
				joint shear, 80°, slickensided, planar,																	

NOTES:

LOGGED: JF

DRILLER:

CHECKED: PC

DRILL TYPE:



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MINERALS LIMITED

DRILLHOLE No.: MDD333

SHEET 9 OF 10

Job No.: 9702

PROJECT: BOGP
LOCATION: Bendigo
COORDINATES: East 5016220.3 North 1318602.7
GRID: NZTM 2000
RL GROUND: 741.0
DATUM: NZVD 2016

HOLE STARTED: 12/06/2024
HOLE FINISHED: 14/06/2024
HOLE DEPTH: 45.0m
INCLINATION: Vertical
ORIENTATION:

Core Description				Rock Defects				Drilling & Testing															
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY					WEATHERING	ROCK STRENGTH		CORE LOSS			CORE LENGTH / TYPE		SAMPLES	WATER LEVEL	WATER LOSS		FIELD TESTS
						2	5	10	20	50		PT LOAD / UCS (MPa)	25	90	75	25	90	75			25	90	
TZ4	Psammitic Schist, grey and dark grey. Moderately deformed subhorizontal to gently inclined foliation				clean, slicken slide surface cleanly been pulled apart vein type 3, 11°, smooth, planar, carbonate, carb vein approx 5mm wide heading up hole foliation parting, 65°, rough, planar, clean, rough face						UW		S				1.30	0					
	Pelitic Schist, grey and dark grey.Highly deformed foliation	41	41.0 700.0		foliation parting, 70°, smooth, planar, clean, flat smooth surface						UW	VS				1.60	0						
	Pelitic Schist, grey and dark grey. Moderately deformed subhorizontal to gently inclined foliation		41.2 699.8		shear zone, 70°, smooth, planar, clay/gouge, large zone of heavley folded schisosity with pugclay 30mm at base foliation parting, 80°, rough, irregular, clean, rock face fracture																		
					joint, 58°, rough, planar, clean, fracture shallower dip foliation parting, 60°, smooth, planar, sulphides, pyriates specked in blebsacross surface joint, 80°, rough, irregular, clean, crosscuts foliation shear zone, 70°, rough, planar, clay/gouge, 20mm widepug fault shear zone, 84°, very rough, planar, clay/gouge, clay gouge filled fault with some platey rock fragemtns					UW				0.90	0								
		42			foliation shear, 70°, very rough, irregular, rock fragments, crush zone/ sheare jointunsure?																		
					foliation parting, 80°, rough, planar, clean, fol joint, 80°, defined ridges, planar, clean, dipping down hole joint, 9°, very rough, irregular, clean, fla lyingfracturedownholemeasurement					S				0.70	0								
					foliation parting, 80°, smooth, planar, clean, planar dip foliation parting, 88°, smooth, planar, clay/gouge, thin layer of black clay on surface										0.50	0							
		44			foliation shear, 70°, rough, planar, clay/gouge, 20-30mm wide foliation shear some pugfill, py blebs on foliation planes 2mm wide round foliation parting, 75°, smooth, planar, clean, clean folition break																		
			45.0																				

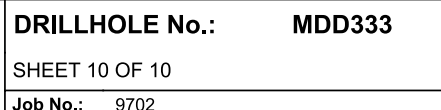
NOTES:

LOGGED: JF

DRILLER:

CHECKED: PC

DRILL TYPE:



PROJECT:	BOGP	RL GROUND:	741.0	HOLE STARTED:	12/06/2024
LOCATION:	Bendigo	DATUM:	NZVD 2016	HOLE FINISHED:	14/06/2024
COORDINATES:	East 5016220.3 North 1318602.7			HOLE DEPTH:	45.0m
GRID:	NZTM 2000			INCLINATION:	Vertical
				ORIENTATION:	

[illegible]

EOH: 45.00 m

NOTES:

LOGGED: JF

DRILLER:

CHECKED: PC

DRILL TYPE:

Title:

MDD333 - CORE PHOTOGRAPHS



Depth: 0.0m to 2.1m



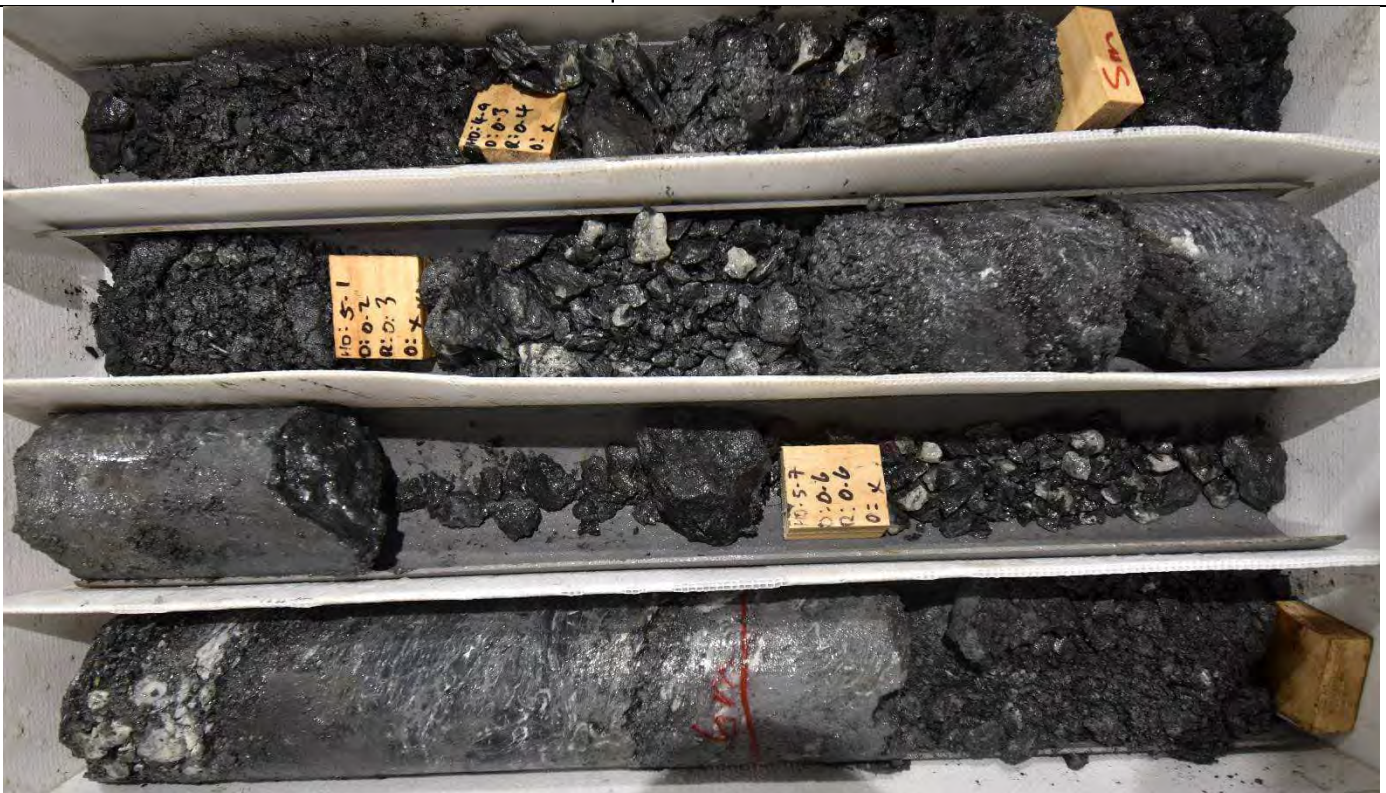
Depth: 2.1m to 3.5m

Title:

MDD333 - CORE PHOTOGRAPHS



Depth: 3.5m to 4.8m



Depth: 4.8m to 6.3m

EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

Start Date

12 June 2024

End Date

14 June 2024

Title:

MDD333 - CORE PHOTOGRAPHS



Depth: 6.3m to 8.0m



Depth: 8.0m to 9.0m



EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

Start Date

12 June 2024

End Date

14 June 2024

Title:

MDD333 - CORE PHOTOGRAPHS



Depth: 9.0m to 10.7m



Depth: 10.7m to 12.7m

 Geotechnical, Earthquake and Dam Engineers 	EGL Job No.		9702	
	Location:		Bendigo-Ophir Gold Project	
	Start Date	12 June 2024	End Date	14 June 2024

Title:	MDD333 - CORE PHOTOGRAPHS
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Depth: 12.7m to 15.1m



Depth: 15.1m to 17.0m

EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

Start Date

12 June 2024

End Date

14 June 2024

Title:

MDD333 - CORE PHOTOGRAPHS



Depth: 17.0m to 19.0m



Depth: 19.0m to 20.6m

EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

Start Date

12 June 2024

End Date

14 June 2024

Title:

MDD333 - CORE PHOTOGRAPHS



Depth: 20.6m to 22.5m



Depth: 22.5m to 24.2m

EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

Start Date

12 June 2024

End Date

14 June 2024

Title:

MDD333 - CORE PHOTOGRAPHS



Depth: 24.2m to 25.8m



Depth: 25.8m to 27.7m



EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

Start Date

12 June 2024

End Date

14 June 2024

Title:

MDD333 - CORE PHOTOGRAPHS



Depth: 27.7m to 29.45m



Depth: 29.45m to 31.5m