



**NEWCREST**  
MINING LIMITED



**Hypersaline Evaporation Pond Cell 3**  
**Critical Containment Infrastructure Report**

**702-5440-EN-REP-0003**

This document must not be modified altered or changed unless authorised by the document owner.





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## 1. INTRODUCTION

Compliance reporting of critical containment infrastructure is required from the Government of Western Australia Department of Water and Environmental Regulation regarding Works Approval W6468/2020/1. This report follows completion of Hypersaline Water Cell 3 (Condition 1 Line 4)

	Infrastructure	Design and construction/ installation requirements	Infrastructure location	Timeframe
5	Hypersaline Water Cell 3	<ul style="list-style-type: none"> <li>• To be constructed to hold a maximum volume of 53,030m<sup>3</sup></li> <li>• Approximate External crest RL 247.03</li> <li>• Approximate Base RL 245.78</li> <li>• Approximate TWL RL 246.23 (with 1m freeboard) with maximum total height 1250mm</li> <li>• Spillway at TWL RL as required</li> </ul>	Schedule 3, Figures 3 and 4	-

### 1.1 COMPLIANCE REPORTING (CRITICAL CONTAINMENT INFRASTRUCTURE)

1. The works approval holder must within 30 calendar days of the Critical Containment Infrastructure identified by condition 1 being constructed:
  - a. undertake an audit of their compliance with the requirements of condition 1; and
  - b. prepare and submit to the CEO a Critical Containment Infrastructure Report on compliance.
  
2. The Critical Containment Infrastructure Report required by condition 7 (above) , must include as a minimum the following:
  - a. certification by a geotechnical engineer or civil engineer that the items of critical containment infrastructure or component(s) thereof, as specified in condition 1, have been constructed in accordance with the relevant requirements specified in condition 1;
  - b. as constructed plans and a detailed site plan showing the location and dimensions for each item of critical containment infrastructure or component thereof, as specified in condition 1; and
  - c. be signed by a person authorised to represent the works approval holder and contains the printed name and position of that person.

## 2. CERTIFICATION

The below people have certified the construction of the Hypersaline Water Cell 3;

[REDACTED]	<b>Company</b>	<b>Position</b>
	Newcrest Mining Limited	Mining and Site Manager – Havieron Project
	Newcrest Mining Limited	Execution Manager – Havieron Project
	Newcrest Mining Limited	Engineering Manager – Havieron Project
	Newcrest Mining Limited	Project Manager – Havieron Project
	Newcrest Mining Limited	Project Manager – Havieron Project
	Newcrest Mining Limited	Project Engineer – Havieron Project
	Newcrest Mining Limited	Project Engineer – Havieron Project
	Regroup	Project Manager – Regroup

The following Quality Assurance Construction Certification items have been attached as per the referenced appendix;

<b>Appendix</b>	<b>Title</b>
<b>Appendix A</b>	S1.T0013 - Hypersaline Water Cell 3
<b>Appendix B</b>	S1.T0015 - Evaporation Ponds General Requirements
<b>Appendix C</b>	Inspection And Test Plans
<b>Appendix D</b>	Spillway RL FIC
<b>Appendix E</b>	Construction Test Results

The above deliverables are compliant with that of condition 1 of *Works Approval W6468/2020/1*. The certifications provided have been audited and are correct.



\_\_\_\_\_  
 DATE

\_\_\_\_\_  
 SIGNATURE

Civil Engineer / Project Manager

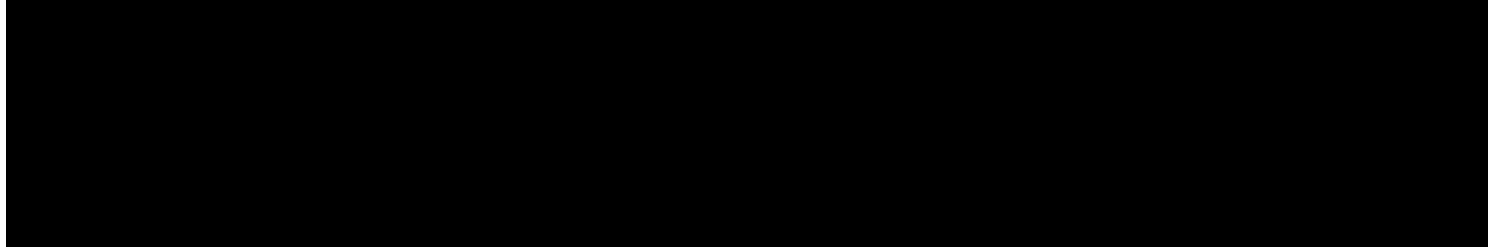
### 3. AS CONSTRUCTED AND SITE PLAN

The following have been attached as per the referenced appendix;

<b>Appendix</b>	<b>Title</b>
<b>Appendix F</b>	Site Map
<b>Appendix G</b>	As-Constructed Map
<b>Appendix H</b>	Design Drawings

#### 4. WORKS APPROVAL HOLDER CERTIFICATION

The above deliverables are compliant with that of condition 1 of Works Approval W6468/2020/1.  
The certifications provided have been audited and are correct.



**5. APPENDIX****A. APPENDIX A – S1.T0013 - HYPERSALINE WATER CELL 3**





**HAVERION EARLY WORKS PROJECT  
CIVIL DISCIPLINE  
HYPERHALINE WATER CELL 3**

**S1.T0013**

WBS:

5440

**CONTRACTOR RESPONSIBILITY:** Fill "INITIAL" column corresponding to each item with one of the following; Initial for yes, 'X' for no, 'N/A' if item not applicable. Responses other than your Initials (for yes) requires a referenced explanation in the 'Comments' section.  
**CLIENT RESPONSIBILITY:** Each item must be verified and initialled to confirm contractor's responses. ALL responses must be verified.

**1. REFERENCE DATA**

STRUCTURES INSPECTED:

EVAP POND 3

REFERENCE DOCUMENTS:

REV:

**2. CONSTRUCTION:**

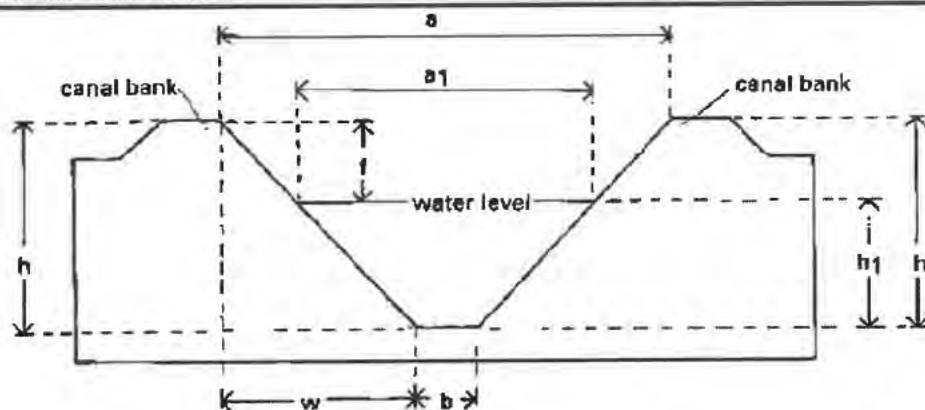
INITIAL

CHECK THE FOLLOWING:

- 2.1 TO BE CONSTRUCTED TO HOLD A MAXIMUM VOLUME OF 53,030M3
- 2.2 APPROXIMATE EXTERNAL CREST RL 247.03
- 2.3 APPROXIMATE BASE RL 245.78
- 2.4 APPROXIMATE TWL RL 246.23 (WITH 1M FREEBOARD) WITH MAXIMUM TOTAL HEIGHT 1250MM
- 2.5 SPILLWAY AT TWL RL AS REQUIRED

**2B. CONSTRUCTION: REFERENCE DOCUMENTATION**

2.8



- a = top width of the canal
- a<sub>1</sub> = top width of the water level
- h = height of the canal
- h<sub>1</sub> = height or depth of the water in the canal
- b = bottom width of the canal
- h:w = side slope of the canal
- f = free board (= h-h<sub>1</sub>)

**3. SIGN OFF**

3.1 (CLIENT)

NAME:



COMPANY:

SIGNATURE:

DATE:

NMV  
1/9/23

**B. APPENDIX B – S1.T0015 - EVAPORATION POND GENERAL REQUIREMENTS**



**Haverion Early Works Project**  
**Civil Discipline**  
**Evaporation Ponds – General Requirements**

**S1.T015**

WBS: *S110*

**CONTRACTOR RESPONSIBILITY:** Fill "INITIAL" column corresponding to each item with one of the following: *Initial* for yes, 'X' for no, 'N/A' if item not applicable. Responses other than your Initials (for yes) requires a referenced explanation in the 'Comments' section.  
**CLIENT RESPONSIBILITY:** Each item must be verified and initialled to confirm contractor's responses. ALL responses must be verified.

**1. REFERENCE DATA**

STRUCTURES INSPECTED:

*EVAP POND 3*

REFERENCE DOCUMENTS:

REV:

**2B. CONSTRUCTION:**

CHECK THE FOLLOWING:

- 2.1 CONSTRUCTED AS PER THE DESIGN DIMENSIONS (ATTACHED)
- 2.2 OVERFLOW SPILLWAYS TO BE CONSTRUCTED TO ALLOW A CASCADING DESIGN
- 2.3 CELLS TO BE LINED WITH 1.5MM THICKNESS HDPE WITH HYDRAULIC CONDUCTIVITY OF AT LEAST  $1 \times 10^{-9}$  M/S AND WITH A SANDY CLAY LINER CUSHION OF MINIMUM THICKNESS OF 150MM
- 2.4 TO BE CONSTRUCTED WITH A CONTAINMENT CAPACITY EQUIVALENT TO CAPTURE RUNOFF FROM 1% ANNUAL EXCEEDANCE PROBABILITY, 72 HOUR RAINFALL EVENT.
- 2.5 CREST OF EMBANKMENT TO BE GRADED INWARDS TO DRAIN WATER INTO POND
- 2.7 SIDE SLOPE OF THE EMBARKMENTS TO BE 1(V):3(H)

INITIAL

CLIENT

*[Handwritten initials for each item]*

**3. FINAL SIGN OFF**

3.1 REMEDIAL ACTION COMPLETION VERIFIED BY: (CLIENT)

NAME:

COMPANY:

SIGNATURE

DATE:

*NML*  
*17/9/23*

**C. APPENDIX C – INSPECTION AND TEST PLANS**

# INSPECTION AND TEST PLAN



CONTRACT: Havieron Evaporation Pond  
 CONTRACT NO: 702-0059-CN-CNP-0001  
 PROJECT REF: L230236

CLIENT: Newcrest Mining Limited

DATE:  
REV:

PROCESS: Clearing and Grubbing

OPEN DATE: 28/05/2023

Contract Specifications: 700-810-CV-SPE-2001

LOT: Pond 3 (P3.1 to P3.4) (P3.F1 to P3.F4)

ITEM NO.	RESP. PERSON	SEQUENCE OF ACTIVITIES	SPECIFICATION REFERENCE	ACCEPTANCE CRITERIA	VERIFICATION DOCUMENTS	TEST METHOD	TEST FREQUENCY	INSPECTION		Initial & Date		COMMENTS RECORDS DOCUMENTS
								Regroup	Newcrest	Regroup	Newcrest	
<b>1 Pre Commencement</b>												
1.1	SURV	Limit of Clearing Defined - Setout Survey	700-810-CV-SPE-2001 Clause 2.2.2 & 2.2.4 Issued For Construction Drawings 702-5440-CV-DDD-2305 ( Pond 1 & 2307 - Pond 3	Clearing area to be Setout as per IFC drawings, and approved boundary clearing lines.	Post Clearing Survey	Survey	X1	SU	R			
1.2	SUP	Underground Services Identification	N/A	Any existing services within clearing envelope to be surveyed and notified to the Newcrest Representative.	As Constructed Drawings	Survey	X1	SU	W			
<b>2 Construction Works</b>												
2.1	SUP	Clearing and Grubbing Activity	700-810-CV-SPE-2001 Clause 2.2 & 2.3 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	All trees, roots, stumps, rocks, and other organic or artificial obstructions not higher than 750mm above ground level and to a depth of 500mm below natural surface shall be removed to the most partible way. The resulting holes shall be backfilled using suitable fill material compacted to a density 95% or higher but in any case to a dry density ratio not less than 90% (Standard Compaction). Under embankments the backfill shall be compacted as specified for the earthworks above.	This ITP	Visual	X1	CHK	F			
2.2	SUP	Disposal of Waste Material	700-810-CV-SPE-2001 Clause 2.4 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Cleared vegetation and other waste material resulting from Clearing and Grubbing shall be disposed of by the Contractor at the location approved by the Newcrest Representative.	This ITP	Visual	X1	CHK	F			
<b>3 Complete Verification</b>												
3.1	SURV	Carry out final survey at post cleared areas.	700-810-CV-SPE-2001 Clause 2.2.2 & 2.2.4 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Post cleared area must be inside the original clearing polygon *	As-Built Survey	Survey	X1	F	R			
3.2	PE	Update quality records		Surveillance of Records	Quality Records included in MDR on completion of project	N/A	F	SU	N/A			

Key:	Newcrest Mining Limited Regroup	H Hold Point W Witness Point R Review CHK Check	SU Surveillance C Certificate	PE Project Engineer SURV Surveyor SUP Supervisor	F Full or 100% Inspection X1 Inspect or Test at a specified frequency X2 Random Inspection or Test
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Comments: \* Boundary survey picked up as per SDF-46

SIGNATORY REGISTER					
Name	Company	Position/ Title	Initials	Signature	Date
Chris Strange	NML	ENG	CS	[Redacted]	1/7/23
LAUREN PRESTON	NML	ENG	LP	[Redacted]	28/07/2023
Mark Casin	REGROUP	super	MC	[Redacted]	18 8 23
RICHARD COPE					

# INSPECTION AND TEST PLAN



CONTRACT: Havieron Evaporation Pond  
 CONTRACT NO: 702-0059-CN-CNP-0001  
 PROJECT REF: CW30236

CLIENT: Newcrest Mining Limited *[Signature]*

DATE:  
REV:

TURKEY'S NEST 18/6/2023

PROCESS: Topsoil Stripping

LOT: Pond 3 (P3.1 to P3.4) (P3.f1 to P3.f4)

2/3. OPEN DATE: 12/06/2023

Contract Specifications: 700-810-CV-SPE-0001

ITEM NO.	RESP. PERSON	SEQUENCE OF ACTIVITIES	SPECIFICATION REFERENCE	ACCEPTANCE CRITERIA	VERIFICATION DOCUMENTS	TEST METHOD	TEST FREQUENCY	INSPECTION		Initial & Date		COMMENTS RECORDS DOCUMENTS
								Regroup	Newcrest	Regroup	Newcrest	
<b>1 Pre Commencement</b>												
1.1	SURV	Limit of Completion of Clearing and Grubbing Defined Setout Survey	700-810-CV-SPE-0001 Clause 3.1 & 3.2 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Topsoil stripping area to be Setout as per IFC drawings, and approved boundary clearing lines.	Post Clearing Survey	Survey	X1	X2	X2			
<b>2 Construction Works</b>												
2.1	SUP	Topsoil Stripping Activity	700-810-CV-SPE-0001 Clause 3.6 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Topsoil shall follow the Clearing and Grubbing activities and to be performed at a nominal depth of 250mm unless otherwise directed by the Telfer Environment Department.	This ITP	Visual	X1	CHK	F			
2.2	SUP	Disposal of Material	700-810-CV-SPE-0001 Clause 3.6 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Topsoil shall be dumped at a site as designated on the conditions of the Surface Disturbance Permit, and to be stored at a maximum of 2.0m in height by following the Topsoil Management Procedure.	This ITP	Visual	X1	CHK	F			
<b>3 Complete Verification</b>												
3.1	SURV	Carry out final survey to foundation	700-810-CV-SPE-0001 Clause 3.1, 3.2 & 3.6 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	General Topsoil stripping shall be maintained at nominal thickness of 250mm	AS-Built Survey	Visual, Survey	X1	F	W			Quality records
3.2	PE	Update quality records		Surveillance of Records	Quality Records included in MDR on completion of project	N/A	F	SU	N/A			Lot Register

<b>Key:</b>	Newcrest Mining Limited Regroup	H Hold Point W Witness Point R Review CHK Check	SU Surveillance C Certificate	PE Project Engineer SURV Surveyor SUP Supervisor	F Full or 100% Inspection X1 Inspect or Test at a specified frequency X2 Random Inspection or Test
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Comments: \* Topsoil thickness 250mm  
 \* Pending Survey Records *[Signature]*

SIGNATORY REGISTER					
Name	Company	Position/ Title	Initials	Signature	Date
Chris Strange	REGROUP	CS	<i>[Signature]</i>	<i>[Signature]</i>	23-6-23
WES CASH	REGROUP	WC	<i>[Signature]</i>	<i>[Signature]</i>	15-7-23
Malek Yasin	NML	PE	M.Y	<i>[Signature]</i>	23-07-2023
RICHARD CAFE	<i>[Signature]</i>	SUPER	RC	<i>[Signature]</i>	18 8 23

# INSPECTION AND TEST PLAN



**CONTRACT:** Havieron Evaporation Pond **CLIENT:** Newcrest Mining Limited **DATE:**  
**CONTRACT NO:** 702-0059-CV-CMP-0001 **REV:**  
**PROJECT REF:** CW30236

**PROCESS:** Foundation Preparation **OPEN DATE:** 23/06/2023 **Contract Specifications:** 700-810-CV-SPE-0001  
**LOT:** Pond 3 (P3.F1 to P3.F4)

ITEM NO.	RESP. PERSON	SEQUENCE OF ACTIVITIES	SPECIFICATION REFERENCE	ACCEPTANCE CRITERIA	VERIFICATION DOCUMENTS	TEST METHOD	TEST FREQUENCY	INSPECTION		Initial & Date		COMMENTS RECORDS DOCUMENTS
								Regroup	Newcrest	Regroup	Newcrest	
<b>1 Pre Commencement</b>												
1.1	PE	Design Drawings Supplied & Approved for Construction	Approved IFC Drawings	Approved IFC Drawings	Approved IFC Drawings	Prior to start	F	SU	W			
1.2	SURV	Define Lot areas	Scope of Works	Approved Lot Plans	Lots Register	Prior to start	F	SU	W			
1.3	PE	Construction Methodology Statement (CMS)	CMS no 702-5440-CV-VDA-0059-C07-0004.	- Comply with Project HSE requirements - Comply with Project QA/QC requirements	CMS no 702-5440-CV-VDA-0059-C07-0004.	CMS reviewed and accepted by NML	F	SU	R			
1.4	PE-SUP	Ensure previous clearing and topsoil strip ITP for lot has been signed off	Earthwork Spec: 700-810-CV-SPE-0001	Signed ITP	Signed ITP prior to start	Sign Off	X1	W	SU			
<b>2 Construction Works</b>												
2.1	SURV	Approval of Excavation Confirm existing surface for height and volume confirmation	700-810-CV-SPE-0001 Clause 4 & 6.2 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Survey, main control stations checked and agreed by client & contractor surveyors.	As-builts, Previous ITP signoff	Survey Pick-up	X1	W	W			
2.2	SUP	Ensure no material deemed as unsuitable is present in foundation lot	700-810-CV-SPE-0001 Clause 5.2, 6.2 & 6.7.1 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Deleterious material shall be excavated below the level of deleterious material to the Principal's approval.	Visual Confirmation/ Test Certificate	Visual area inspection	X1	W	W			
2.3	SUP	Compaction Requirement for embankment foundation preparation (preparation of ground surface) - Scarify, moisture condition and compact.	700-810-CV-SPE-0001 Clause 6.7.1 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	The ground shall be cleared, and then Scarified to a depth of 150mm the stripped and scarified surfaces shall be proof rolled and compacted to a minimum 95% Maximum Dry Density as determined using Standard Compaction Method. Using Correlated PSD test results on site. Cushion layer alternative confirm material in-situ reworked to ensure free of irregular shapes, sharp particles and particles greater than 10mm in size.	Test Certificates Visual Confirmation	Correlation MMDD with PSD Visual area inspection	X1	SU	X2-C			
<b>3 Complete Verification</b>												
3.1	SURV	Carry out final survey to foundation	700-810-CV-SPE-0001 Clause 2.2.2 & 6.7.1 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	General earthworks shall not vary more than 75 mm outside designed edges. Tolerances per 700-810-CV-SPE-0001 12.2. Specify tolerance as appropriate including +/- Level tolerance to base of excavations, general ± 50mm Level tolerance to base of excavations for footings -50mm, plus zero	As-Built Survey		X1	SU	HOLD POINT			
3.2	PE	Update quality records		Any defective works shall be detailed in punch list and rectification documented Produce accurate As-Built records and compliant with Drawing and Specification.	Quality Records included in MDR on completion of project	N/A	F	SU	N/A			

**Key:** Newcrest Mining Limited H Hold Point SU Surveillance PE Project Engineer F Full or 100% Inspection  
 Regroup W Witness Point C Certificate SURV Surveyor X1 Inspect or Test at a specified frequency  
R Review SUP Supervisor X2 Random Inspection or Test  
CHK Check

Comments	

SIGNATORY REGISTER					
Name	Company	Position/ Title	Initials		Date
WES GIBCK	REGROUP	PM	WC		4/7/23
Markus	Newcrest	P.E	M.Y		3/6/2023
RICHARD CAPE	REGROUP	SUP	RC		28/23

# INSPECTION AND TEST PLAN



CONTRACT: Havieron Evaporation Pond  
 CONTRACT NO: 702-0059-CN-CNP-0001  
 PROJECT REF: CW30236

CLIENT: Newcrest Mining Limited

DATE:  
REV:

PROCESS: Foundation Preparation

OPEN DATE: 23/06/2023

Contract Specifications: 700-810-CV-SPE-0001

LOT: Pond 3 (P3.1 to P3.4)

ITEM NO.	RESP. PERSON	SEQUENCE OF ACTIVITIES	SPECIFICATION REFERENCE	ACCEPTANCE CRITERIA	VERIFICATION DOCUMENTS	TEST METHOD	TEST FREQUENCY	INSPECTION		Initial & Date		COMMENTS RECORDS DOCUMENTS
								Regroup	Newcrest	Regroup	Newcrest	
<b>1 Pre Commencement</b>												
1.1	PE	Design Drawings Supplied & Approved for Construction	Approved IFC Drawings	Approved IFC Drawings	Approved IFC Drawings	Prior to start	F	SU	W			
1.2	SURV	Define Lot areas	Scope of Works	Approved Lot Plans	Lots Register	Prior to start	F	SU	W			
1.3	PE	Construction Methodology Statement (CMS)	CMS no 702-5440-CV-VDA-0059-C07-0004.	- Comply with Project HSE requirements - Comply with Project QA/QC requirements	CMS no 702-5440-CV-VDA-0059-C07-0004.	CMS reviewed and accepted by NML	F	SU	R			
1.4	PE-SUP	Ensure previous clearing and topsoil strip ITP for lot has been signed off	Earthwork Spec: 700-810-CV-SPE-0001	Signed ITP	Signed ITP prior to start	Sign Off	X1	W	SU			
<b>2 Construction Works</b>												
2.1	SURV	Approval of Excavation Confirm existing surface for height and volume confirmation	700-810-CV-SPE-0001 Clause 4 & 6.2 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Survey, main control stations checked and agreed by client & contractor surveyors.	As-builts, Previous ITP signoff	Survey Pick-up	X1	W	W			
2.2	SUP	Ensure no material deemed as unsuitable is present in foundation lot	700-810-CV-SPE-0001 Clause 5.2, 6.2 & 6.7.1 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Deleterious material shall be excavated below the level of deleterious material to the Principal's approval.	Visual Confirmation/ Test Certificate	Visual area inspection	X1	W	W			
2.3	SUP	Compaction Requirement for embankment foundation preparation (preparation of ground surface) - Scarify, moisture condition and compact.	700-810-CV-SPE-0001 Clause 6.7.1 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	The ground shall be cleared, and then Scarified to a depth of 150mm the stripped and scarified surfaces shall be proof rolled and compacted to a minimum 95% Maximum Dry Density as determined using Standard Compaction Method. Using Correlated PSD test results on site. Cushion layer alternative - confirm material in-situ reworked to ensure free of irregular shapes, sharp particles and particles greater than 10mm in size.	Test Certificates Visual Confirmation	Correlation MMDD with PSD Visual area inspection	X1	SU	X2-C			
<b>3 Complete Verification</b>												
3.1	SURV	Carry out final survey to foundation	700-810-CV-SPE-0001 Clause 2.2.2 & 6.7.1 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	General earthworks shall not vary more than 75 mm outside designed edges. Tolerances per 700-810-CV-SPE-0001 12.2. Specify tolerance as appropriate including +/- Level tolerance to base of excavations, general ± 50mm Level tolerance to base of excavations for footings -50mm, plus zero	As-Built Survey X		X1	SU	HOLD POINT			
3.2	PE	Update quality records		Any defective works shall be detailed in punch list and rectification documented Produce accurate As-Built records and compliant with Drawing and Specification.	Quality Records included in MDR on completion of project	N/A	F	SU	N/A			

Key:	Newcrest Mining Limited Regroup	H Hold Point W Witness Point R Review CHK Check	SU Surveillance C Certificate	PE Project Engineer SURV Surveyor SUP Supervisor	F Full or 100% Inspection X1 Inspect or Test at a specified frequency X2 Random Inspection or Test
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Comments	* pending survey Records
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SIGNATORY REGISTER					
Name	Company	Position/ Title	Initials		Date
Chris Strange	NML	ENG	CS		7/7/23
LAWSON PLESDY	NML	P.E	ML		23/07/2023
Malek Youssif	REGROUP	SUP	RC		18 8 23
RICHARD CAPE					



# INSPECTION AND TEST PLAN



CONTRACT: Havieron Evaporation Pond  
 CONTRACT NO: 702-0059-CN-CND-0001  
 PROJECT REF: CW30236

CLIENT: Newcrest Mining Limited

DATE:  
REV:

PROCESS: Embankments

OPEN DATE: 28/6/2022

Contract Specifications: 700-810-CV-SPE-0001

LOT: POND 3 PJ.1

ITEM NO.	RESP. PERSON	SEQUENCE OF ACTIVITIES	SPECIFICATION REFERENCE	ACCEPTANCE CRITERIA	VERIFICATION DOCUMENTS	TEST METHOD	TEST FREQUENCY	INSPECTION		Initial & Date		COMMENTS RECORDS DOCUMENTS
								Regroup	Newcrest	Regroup	Newcrest	
<b>1 Pre Commencement</b>												
1.1	PE	Design Drawings Supplied & Approved for Construction	Approved IFC Drawings	Approved IFC Drawings	Approved IFC Drawings	Prior to start	F	SU	W			
1.2	SURV	Define Lot areas	Scope of Works	Approved Lot Plans	Lots Register	Prior to start	F	SU	W			
1.3	PE	Construction Methodology Statement (CMS)	CMS no 702-5440-CV-VDA-0059-C07-0004.	- Comply with Project HSE requirements - Comply with Project QA/QC requirements	CMS no 702-5440-CV-VDA-0059-C07-0004.	CMS reviewed and accepted by NML	F	SU	R			
<b>2 Construction Works</b>												
2.1	SURV	Approval of Excavation Confirm existing surface for height and volume confirmation	700-810-CV-SPE-0001 Clause 4 & 6.2 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Survey, main control stations checked and agreed by client & contractor surveyors.	Survey	Survey Pick-up	X1	SU	W			
2.2	SUP	Ensure no material deemed as unsuitable is present in foundation lot	700-810-CV-SPE-0001 Clause 5.2, 6.2 & 6.7.2 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Deleterious material shall be excavated below the level of deleterious material to the Principal's approval.	Visual Confirmation/ Test Certificate	Visual area inspection	X1	SU	W			
2.3	SUP	Placement of Embankments	700-810-CV-SPE-0001 Clause 6.7.2 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Material shall be placed in successive level lifts not exceeding 200mm in loose thickness. The moisture content of each layer shall be such as to enable the specified compaction to be achieved.	Visual Confirmation Surveillance survey	Visual area inspection	X1	SU	W			
2.4	PE	Compaction and Moisture Requirements for Embankments material	700-810-CV-SPE-0001 Clause 6.7.2, 7 & 8	95% MMDD as defined by part 5.2.1 of AS 1289 Methods of Testing Soils for Engineering Purposes shall be achieved using a Penetrometer. The moisture content of the material to be compacted in any case shall not be more than a practical OMC and will be determined by a squeeze test method on site by the site engineer or supervisor. Approved Method Spec.	Test Certificates Proof Rolling Visual Confirmation	Correlation MMDD with PSD	X1	W	X2-C			
2.5	SUP	Final Trim and construction tolerances	700-810-CV-SPE-0001 Clause 12.1 & 12.2	The finished surfaces of earthworks, both excavation and fill, shall be trimmed and rolled as necessary to ensure that the finished surfaces, including batter slopes, are tight and uniform with maximum resistance to weathering and erosion. Tolerances must be as Clause 12.2 in the Earthwork Specification. Confirm material in-situ reworked to ensure free of irregular shapes, sharp particles and particles greater than 10mm in size.	Visual Confirmation, As-Built Survey	Visual area inspection	X1	SU	HOLD POINT			
<b>3 Complete Verification</b>												
3.1	SURV	Carry out final survey to embankment	700-810-CV-SPE-0001 Clause 2.2.2 & 6.7.2 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	General earthworks shall not vary more than 75 mm outside designed edges. Tolerances per 700-810-CV-SPE-0001 12.2. Specify tolerance as appropriate including +/- Level tolerance to base of excavations, general ± 50mm	As-Built Survey		X1	SU	W			
3.2	PE	Update quality records		Any defective works shall be detailed in punch list and rectification documented. Produce accurate As-Built records and compliant with Drawing and Specification.	Quality Records included in MDR on completion of project	N/A	F	SU	N/A			

Key:	Newcrest Mining Limited	H Hold Point	SU Surveillance	PE Project Engineer	F Full or 100% Inspection
	Regroup	W Witness Point	C Certificate	SURV Surveyor	X1 Inspect or Test at a specified frequency
		R Review		SUP Supervisor	X2 Random Inspection or Test
		CHK Check			

Comments

SIGNATORY REGISTER				Date
Name	Company	Position/ Title	Initials	
Richard Cofe	Newcrest Regroup	PE	M.Y	28-07-2022
		SUPERV	RC	18 8 23

# INSPECTION AND TEST PLAN



CONTRACT: Havieron Evaporation Pond  
 CONTRACT NO: 702-0059-CN-CNP-0001  
 PROJECT REF: CW30236

CLIENT: Newcrest Mining Limited

DATE:  
REV:

PROCESS: Embankments

OPEN DATE: 28/6/2023

Contract Specifications: 700-810-CV-SPE-0001

LOT: Pond 3 P2-2

ITEM NO.	RESP. PERSON	SEQUENCE OF ACTIVITIES	SPECIFICATION REFERENCE	ACCEPTANCE CRITERIA	VERIFICATION DOCUMENTS	TEST METHOD	TEST FREQUENCY	INSPECTION		Initial & Date		COMMENTS RECORDS DOCUMENTS
								Regroup	Newcrest	Regroup	Newcrest	
<b>1 Pre Commencement</b>												
1.1	PE	Design Drawings Supplied & Approved for Construction	Approved IFC Drawings	Approved IFC Drawings	Approved IFC Drawings	Prior to start	F	SU				
1.2	SURV	Define Lot areas	Scope of Works	Approved Lot Plans	Lots Register	Prior to start	F	SU				
1.3	PE	Construction Methodology Statement (CMS)	CMS no 702-5440-CV-VDA-0059-C07-0004.	- Comply with Project HSE requirements - Comply with Project QA/QC requirements	CMS no 702-5440-CV-VDA-0059-C07-0004.	CMS reviewed and accepted by NML	F	SU				
<b>2 Construction Works</b>												
2.1	SURV	Approval of Excavation Confirm existing surface for height and volume confirmation	700-810-CV-SPE-0001 Clause 4 & 6.2 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Survey, main control stations checked and agreed by client & contractor surveyors.	Survey	Survey Pick-up	X1	SU				
2.2	SUP	Ensure no material deemed as unsuitable is present in foundation lot	700-810-CV-SPE-0001 Clause 5.2, 6.2 & 6.7.2 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Deleterious material shall be excavated below the level of deleterious material to the Principal's approval.	Visual Confirmation/ Test Certificate	Visual area inspection	X1	SU				
2.3	SUP	Placement of Embankments	700-810-CV-SPE-0001 Clause 6.7.2 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Material shall be placed in successive level lifts not exceeding 200mm in loose thickness. The moisture content of each layer shall be such as to enable the specified compaction to be achieved.	Visual Confirmation Surveillance survey	Visual area inspection	X1	SU				
2.4	PE	Compaction and Moisture Requirements for Embankments material	700-810-CV-SPE-0001 Clause 6.7.2, 7 & 8	95% MMDD as defined by part 5.2.1 of AS 1289 Methods of Testing Soils for Engineering Purposes shall be achieved using a Penetrometer. The moisture content of the material to be compacted in any case shall not be more than a practical OMC and will be determined by a squeeze test method on site by the site engineer or supervisor. Approved Method Spec.	Test Certificates Proof Rolling Visual Confirmation	Correlation MMDD with PSD	X1	W			X2-C	
2.5	SUP	Final Trim and construction tolerances	700-810-CV-SPE-0001 Clause 12.1 & 12.2	The finished surfaces of earthworks, both excavation and fill, shall be trimmed and rolled as necessary to ensure that the finished surfaces, including batter slopes, are tight and uniform with maximum resistance to weathering and erosion. Tolerances must be as Clause 12.2 in the Earthwork Specification. Confirm material in-situ reworked to ensure free of irregular shapes, sharp particles and particles greater than 10mm in size.	Visual Confirmation, As-Built Survey	Visual area inspection	X1	SU			HOLD PO	
<b>3 Complete Verification</b>												
3.1	SURV	Carry out final survey to embankment	700-810-CV-SPE-0001 Clause 2.2.2 & 6.7.2 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	General earthworks shall not vary more than 75 mm outside designed edges. Tolerances per 700-810-CV-SPE-0001 12.2. Specify tolerance as appropriate including +/- Level tolerance to base of excavations, general ± 50mm	As-Built Survey		X1	SU			W	
3.2	PE	Update quality records		Any defective works shall be detailed in punch list and rectification documented Produce accurate As-Built records and compliant with Drawing and Specification.	Quality Records included in MDR on completion of project	N/A	F	SU			N/A	

Key:	Newcrest Mining Limited	H Hold Point	SU Surveillance	PE Project Engineer	F Full or 100% Inspection
	Regroup	W Witness Point	C Certificate	SURV Surveyor	X1 Inspect or Test at a specified frequency
		R Review		SUP Supervisor	X2 Random Inspection or Test
		CHK Check			

Comments

SIGNATORY REGISTER				Date
Name	Company	Position/ Title	Initials	
Malek Yasin	Newcrest	PE	M.Y	23/07/2023
Paul Tobin	Newcrest	Supervisor	PT	4/8/23
Richard CAFE	REGROUP	Supervisor	RC	19/8/23

# INSPECTION AND TEST PLAN



CONTRACT: Havieron Evaporation Pond  
 CONTRACT NO: 702-0059-CN-CMP-001  
 PROJECT REF: CW 30236

CLIENT: Newcrest Mining Limited

DATE:  
REV:

PROCESS: Embankments

OPEN DATE: 28/6/2023

Contract Specifications: 700-810-CV-SPE-0001

LOT: POND 3 P3-3

ITEM NO.	RESP. PERSON	SEQUENCE OF ACTIVITIES	SPECIFICATION REFERENCE	ACCEPTANCE CRITERIA	VERIFICATION DOCUMENTS	TEST METHOD	TEST FREQUENCY	INSPECTION		Initial & Date		COMMENTS RECORDS DOCUMENTS
								Regroup	Newcrest	Regroup	Newcrest	
<b>1 Pre Commencement</b>												
1.1	PE	Design Drawings Supplied & Approved for Construction	Approved IFC Drawings	Approved IFC Drawings	Approved IFC Drawings	Prior to start	F	SU	W			
1.2	SURV	Define Lot areas	Scope of Works	Approved Lot Plans	Lots Register	Prior to start	F	SU	W			
1.3	PE	Construction Methodology Statement (CMS)	CMS no 702-5440-CV-VDA-0059-C07-0004.	- Comply with Project HSE requirements - Comply with Project QA/QC requirements	CMS no 702-5440-CV-VDA-0059-C07-0004.	CMS reviewed and accepted by NML	F	SU	R			
<b>2 Construction Works</b>												
2.1	SURV	Approval of Excavation Confirm existing surface for height and volume confirmation	700-810-CV-SPE-0001 Clause 4 & 6.2 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Survey, main control stations checked and agreed by client & contractor surveyors.	Survey	Survey Pick-up	X1	SU	W			
2.2	SUP	Ensure no material deemed as unsuitable is present in foundation lot	700-810-CV-SPE-0001 Clause 5.2, 6.2 & 6.7.2 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Deleterious material shall be excavated below the level of deleterious material to the Principal's approval.	Visual Confirmation/ Test Certificate	Visual area inspection	X1	SU	W			
2.3	SUP	Placement of Embankments	700-810-CV-SPE-0001 Clause 6.7.2 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Material shall be placed in successive level lifts not exceeding 200mm in loose thickness. The moisture content of each layer shall be such as to enable the specified compaction to be achieved.	Visual Confirmation Surveillance survey	Visual area inspection	X1	SU	W			
2.4	PE	Compaction and Moisture Requirements for Embankments material	700-810-CV-SPE-0001 Clause 6.7.2, 7 & 8	95% MMDD as defined by part 5.2.1 of AS 1289 Methods of Testing Soils for Engineering Purposes shall be achieved using a Penetrometer. The moisture content of the material to be compacted in any case shall not be more than a practical OMC and will be determined by a squeeze test method on site by the site engineer or supervisor. Approved Method Spec.	Test Certificates Proof Rolling Visual Confirmation	Correlation MMDD with PSD	X1	W	X2-C			
2.5	SUP	Final Trim and construction tolerances	700-810-CV-SPE-0001 Clause 12.1 & 12.2	The finished surfaces of earthworks, both excavation and fill, shall be trimmed and rolled as necessary to ensure that the finished surfaces, including batter slopes, are tight and uniform with maximum resistance to weathering and erosion. Tolerances must be as Clause 12.2 in the Earthwork Specification. Confirm material in-situ reworked to ensure free of irregular shapes, sharp particles and particles greater than 10mm in size.	Visual Confirmation, As-Built Survey	Visual area inspection	X1	SU	HOLD POINT			
<b>3 Complete Verification</b>												
3.1	SURV	Carry out final survey to embankment	700-810-CV-SPE-0001 Clause 2.2.2 & 6.7.2 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	General earthworks shall not vary more than 75 mm outside designed edges. Tolerances per 700-810-CV-SPE-0001 12.2. Specify tolerance as appropriate including +/- Level tolerance to base of excavations, general $\pm 50$ mm	As-Built Survey		X1	SU	W			
3.2	PE	Update quality records		Any defective works shall be detailed in punch list and rectification documented Produce accurate As-Built records and compliant with Drawing and Specification.	Quality Records included in MDR on completion of project	N/A	F	SU	N/A			

Key:	Newcrest Mining Limited	H Hold Point	SU Surveillance	PE Project Engineer	F Full or 100% Inspection
	Regroup	W Witness Point	C Certificate	SURV Surveyor	X1 Inspect or Test at a specified frequency
		R Review		SUP Supervisor	X2 Random Inspection or Test
		CHK Check			

Comments

SIGNATORY REGISTER				Date
Name	Company	Position/ Title	Initials	
Malek Yasin	Newcrest	P.E	M.Y	23-07-2023
Paul Tobin	Newcrest	Supervisor	PT	04-08-2023
Richard Cape	REGROUP	SUPER	RC	18-8-23

# INSPECTION AND TEST PLAN



CONTRACT: Havieron Evaporation Pond  
 CONTRACT NO: 7020059-CN-CNP-001  
 PROJECT REF: CW-30236

CLIENT: Newcrest Mining Limited

DATE:  
REV:

PROCESS: Embankments  
 LOT: POND 3 B4

OPEN DATE: 28/6/2023

Contract Specifications: 700-810-CV-SPE-0001

ITEM NO.	RESP. PERSON	SEQUENCE OF ACTIVITIES	SPECIFICATION REFERENCE	ACCEPTANCE CRITERIA	VERIFICATION DOCUMENTS	TEST METHOD	TEST FREQUENCY	INSPECTION		Initial & Date		COMMENTS RECORDS DOCUMENTS
								Regroup	Newcrest	Regroup	Newcrest	
<b>1 Pre Commencement</b>												
1.1	PE	Design Drawings Supplied & Approved for Construction	Approved IFC Drawings	Approved IFC Drawings	Approved IFC Drawings	Prior to start	F	SU	W			
1.2	SURV	Define Lot areas	Scope of Works	Approved Lot Plans	Lots Register	Prior to start	F	SU	W			
1.3	PE	Construction Methodology Statement (CMS)	CMS no 702-5440-CV-VDA-0059-C07-0004.	- Comply with Project HSE requirements - Comply with Project QA/QC requirements	CMS no 702-5440-CV-VDA-0059-C07-0004.	CMS reviewed and accepted by NML	F	SU	R			
<b>2 Construction Works</b>												
2.1	SURV	Approval of Excavation Confirm existing surface for height and volume confirmation	700-810-CV-SPE-0001 Clause 4 & 6.2 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Survey, main control stations checked and agreed by client & contractor surveyors.	Survey	Survey Pick-up	X1	SU	W			
2.2	SUP	Ensure no material deemed as unsuitable is present in foundation lot	700-810-CV-SPE-0001 Clause 5.2, 6.2 & 6.7.2 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Deleterious material shall be excavated below the level of deleterious material to the Principal's approval.	Visual Confirmation/ Test Certificate	Visual area inspection	X1	SU	W			
2.3	SUP	Placement of Embankments	700-810-CV-SPE-0001 Clause 6.7.2 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Material shall be placed in successive level lifts not exceeding 200mm in loose thickness. The moisture content of each layer shall be such as to enable the specified compaction to be achieved.	Visual Confirmation Surveillance survey	Visual area inspection	X1	SU	W			
2.4	PE	Compaction and Moisture Requirements for Embankments material	700-810-CV-SPE-0001 Clause 6.7.2, 7 & 8	95% MMDD as defined by part 5.2.1 of AS 1289 Methods of Testing Soils for Engineering Purposes shall be achieved using a Penetrometer. The moisture content of the material to be compacted in any case shall not be more than a practical OMC and will be determined by a squeeze test method on site by the site engineer or supervisor. Approved Method Spec.	Test Certificates Proof Rolling Visual Confirmation	Correlation MMDD with PSD	X1	W	X2-C			
2.5	SUP	Final Trim and construction tolerances	700-810-CV-SPE-0001 Clause 12.1 & 12.2	The finished surfaces of earthworks, both excavation and fill, shall be trimmed and rolled as necessary to ensure that the finished surfaces, including batter slopes, are tight and uniform with maximum resistance to weathering and erosion. Tolerances must be as Clause 12.2 in the Earthwork Specification. Confirm material in-situ reworked to ensure free of irregular shapes, sharp particles and particles greater than 10mm in size.	Visual Confirmation, As-Built Survey	Visual area inspection	X1	SU	HOLD POINT			
<b>3 Complete Verification</b>												
3.1	SURV	Carry out final survey to embankment	700-810-CV-SPE-0001 Clause 2.2.2 & 6.7.2 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	General earthworks shall not vary more than 75 mm outside designed edges. Tolerances per 700-810-CV-SPE-0001 12.2. Specify tolerance as appropriate including +/- Level tolerance to base of excavations, general ± 50mm	As-Built Survey		X1	SU	W			
3.2	PE	Update quality records		Any defective works shall be detailed in punch list and rectification documented Produce accurate As-Built records and compliant with Drawing and Specification.	Quality Records included in MDR on completion of project	N/A	F	SU	N/A			

Key:	Newcrest Mining Limited Regroup	H Hold Point W Witness Point R Review CHK Check	SU Surveillance C Certificate	PE Project Engineer SURV Surveyor SUP Supervisor	F Full or 100% Inspection X1 Inspect or Test at a specified frequency X2 Random Inspection or Test
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Comments

SIGNATORY REGISTER				Date
Name	Company	Position/ Title	Initials	
WES CLACK	REGROUP	PM	WC	15-7-23
Markus Jasin	Newcrest	P.E	MY	23-07-23
RICHARDO CAPE	REGROUP	RE SUP	RC	18 8 23

# INSPECTION AND TEST PLAN



CONTRACT: Havieron Evaporation Pond  
 CONTRACT NO: 702-0059-CN CNP-0001  
 PROJECT REF: CW30236

CLIENT: Newcrest Mining Limited

DATE:  
 REV: 1

PROCESS: HDPE Liner

POND 3

OPEN DATE: 4-8-23

Contract Specifications: GRI - GM13 Standard

ITEM NO.	RESP. PERSON	SEQUENCE OF ACTIVITIES	SPECIFICATION REFERENCE	ACCEPTANCE CRITERIA	VERIFICATION DOCUMENTS	TEST METHOD	TEST FREQUENCY	INSPECTION		Initial & Date	COMMENTS RECORDS DOCUMENTS
								Regroup	Newcrest		
<b>1 Pre Commencement</b>											
1.1	PE	Design Drawings Supplied & Approved for Construction	Approved IFC Drawings	Approved IFC Drawings	Approved IFC Drawings	Prior to start	F	SU	W		
1.2	SURV	Define Lot areas	Scope of Works	Approved Lot Plans	Lots Register	Prior to start	F	SU	W		
1.3	PE	Construction Methodology Statement (CMS)	CMS no 702-5440-CV-VDA-0059-C07-0004.	- Comply with Project HSE requirements - Comply with Project QA/QC requirements	CMS no 702-5440-CV-VDA-0059-C07-0004.	CMS reviewed and accepted by Regroup	F	R	W		
1.4	PE	Ensure previous Embankment Construction Lot has been signed off	Embankments	Signed ITP prior to start	Signed ITP prior to start	Sign Off	X1	R	W		
1.5	SUP	Ensure surface has been maintained at standard prior to HDPE liner installation- Including Pond Base	700-810-CV-SPE-0001 Clause 18	Signed ITP prior to start	Visual Test Certificates	Visual Inspection	X1	SU	W		
1.6	PE	Ensure surface HDPE liner is compliant with Technical Specifications	GRI - GM13 Standard	* Comply with Project HSE requirements * Comply with Project QA/QC requirements * Confirm material in-situ reworked to ensure free of irregular shapes, sharp particles and particles greater than 10mm in size	HDPE liner QA certificates *Product datasheet required.	Certificates review	X1	R	W		
1.8	SUP	Designated area(s) for liner storage and away from traffic. Area for liner storage to be free of mud, rocks and sharp objects that may damage liner.	700-810-CV-SPE-0001 Clause 18 Site - Topo	Only geomembrane rolls that has passed can be used for the lining works.	manufacturer QA certificates	Certificates review	X1	SU	W		
1.9	SUP	Inspect geomembrane rolls for shipping and handling damage.	700-810-CV-SPE-0001 Clause 18	Damaged rolls to be put aside and assessed for suitability for use	manufacturer QA certificates	Visual Inspection	X1	SU	W		
1.1	PE	Supply of panel layout plan, Tensiometer calibration certificate	Panel Placement Form	Panel layout plan has liner panels and seams orientated as per technical specification requirements, i.e., no cross slope seams on batters, roof tile effect of seams, etc. Contractor to provide calibration certificates for tensiometers for site.	Panel layout plan, Tensiometer calibration certificates <12 months old.	Certificates review	F	R	W		
<b>2 Construction Works</b>											
2.1	SUP	Anchor Trench	700-810-CV-SPE-0001 Clause 4.4 & 6.4	Trench dug to IFC drawing dimensions, loose soil removed. Ensure trench is adequately drained to avoid ponding. Liner installed and trench backfilled when liner is at most contracted state (cool weather). Backfilled with 2 equal layers that are to be compacted as per spec requirement.	Survey, Visual Test Certificate	- Survey, Visual - Certificate	X2	SU	W		
2.2	PE	HDPE Liner Inspection	GRI - GM13 Standard Specification	Liner to be free from holes, blisters, undispersed raw materials or contamination. Joints to be generally at 90 degrees to the crest of the batter.	Upon unrolling and during installation	Visual Confirmation	X1	SU	W		
2.3	SUP	Pre weld checks	GRI - GM13 Standard Specification	Weld tests carried out twice daily, at prestart and again after breaks or weather condition changes. Records for destructive and extrusion welds completed.	Test sheets / twice per shift	Visual Confirmation	X1	H	W		
2.4	SUP	HDPE Liner installation	GRI - GM13 Standard Specification	Installation of the HDPE follows the Manufacturers guidelines. Liner to be installed in a relaxed condition and shall be free of tension or stress upon completion of installation. Liner weld zone shall be protected and free from contamination by mud and foreign matter. Weld seams run parallel to slope. No seams shall be left unwelded and no openings in the liner shall be left at the end of shift without Engineer's knowledge and acceptance. Ensure temporary and ballast devices which shall prevent uplift and not damage the geomembrane liner be available. Every weld to be completed by thermal methods Crew to mark each sheet with sheet number, number of source roll, time, date and length.	Visual	Visual Confirmation	X1	SU	W		
2.5	SUP	HDPE Liner - Seams	GRI - GM13 Standard Specification	Seam area shall be cleaned and prepared according to Installer and Manufacturer recommendation and standard procedures. Welding of seams shall be performed when temperatures are above 0°C avoiding dew and residual moisture otherwise follow GRI test method GM9 for welds Horizontal field seams on slopes to be kept to a minimum. Uphill material shall be lapped over the downhill material. Horizontal seams shall be staggered by a minimum of 1metre. No damage or fish mouths to be present within seam area	Visual	Visual Confirmation	X1	SU	W		

B. 2, 3 Wall  
 Look F1, F2, F3

2.6	PE	HDPE Liner Testing	GRI - GM13 Standard Specification	Destructive weld testing Non-destructive pressure testing Vacuum testing	Visual Confirmation/ Test Certificate	- Visual area inspection - Test Certificate	X1	SU	W
2.7	SUP	HDPE Repairs	GRI - GM13 Standard Specification	Pressure Test Location of failure is identified and isolated and leak/seam repaired to manufacturer guidelines and re-tested. Vacuum Test Repair area by grinding and re-welding Fish Mouths/Damage Damage material to be cut, overlapped and extrusion welded. Extrusion Weld Extend patches or caps at least 150mm beyond edge of defect and round corner of zone for patching. Edge Weld Extend patches or caps at least 100mm beyond edge of defect and round corner of zone for patching.	Visual Confirmation NDT report Repair log Repair Survey	Visual Confirmation NDT report Repair log Repair Survey	Per repair	SU	W
<b>3 Complete Verification</b>									
3.1	SURV	Carry out final survey	As Built Deployment layout	Final deployment layout	As-Built Survey	Survey pickup report	X1	SU	R
3.3	PE	Update quality records	MDR	- Any defective works shall be detailed in punch list and rectification documented - Produce accurate As-Built records and compliant with Drawing and Specification - Submit and mark and deviations from the drawings in red link with unchanged dimensions, locations and level underlined in red link - Certify As-Built Drawing after the Completion of the Works	Photos - As Built Report	N/A	F	SU	N/A

<b>Key:</b>	Newcrest Mining Limited Regroup	H Hold Point W Witness Point R Review CHK Check	SU Surveillance C Certificate	PE Project Engineer SURV Surveyor SUP Supervisor	F Full or 100% Inspection X1 Inspect or Test at a specified frequency X2 Random Inspection or Test
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<b>Comments</b>	
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SIGNATORY REGISTER					
Name	Company	Position/ Title	Initials	Signature	Date
WES CATER	REGROUP	PM	WC		4/8/23
Paul Tobin	Newcrest	Supervisor	P.T.		4/8/23
Malik Yasin	Newcrest	P.E	M.Y		20/08/2023
RICHARD CAPE	REGROUP	SUP	RC.		31/8/2023

# INSPECTION AND TEST PLAN



CONTRACT: Havieron Evaporation Pond  
 CONTRACT NO: 702-0059-CN-CNP-0001  
 PROJECT REF: CW 20236

CLIENT: Newcrest Mining Limited

DATE:  
REV:

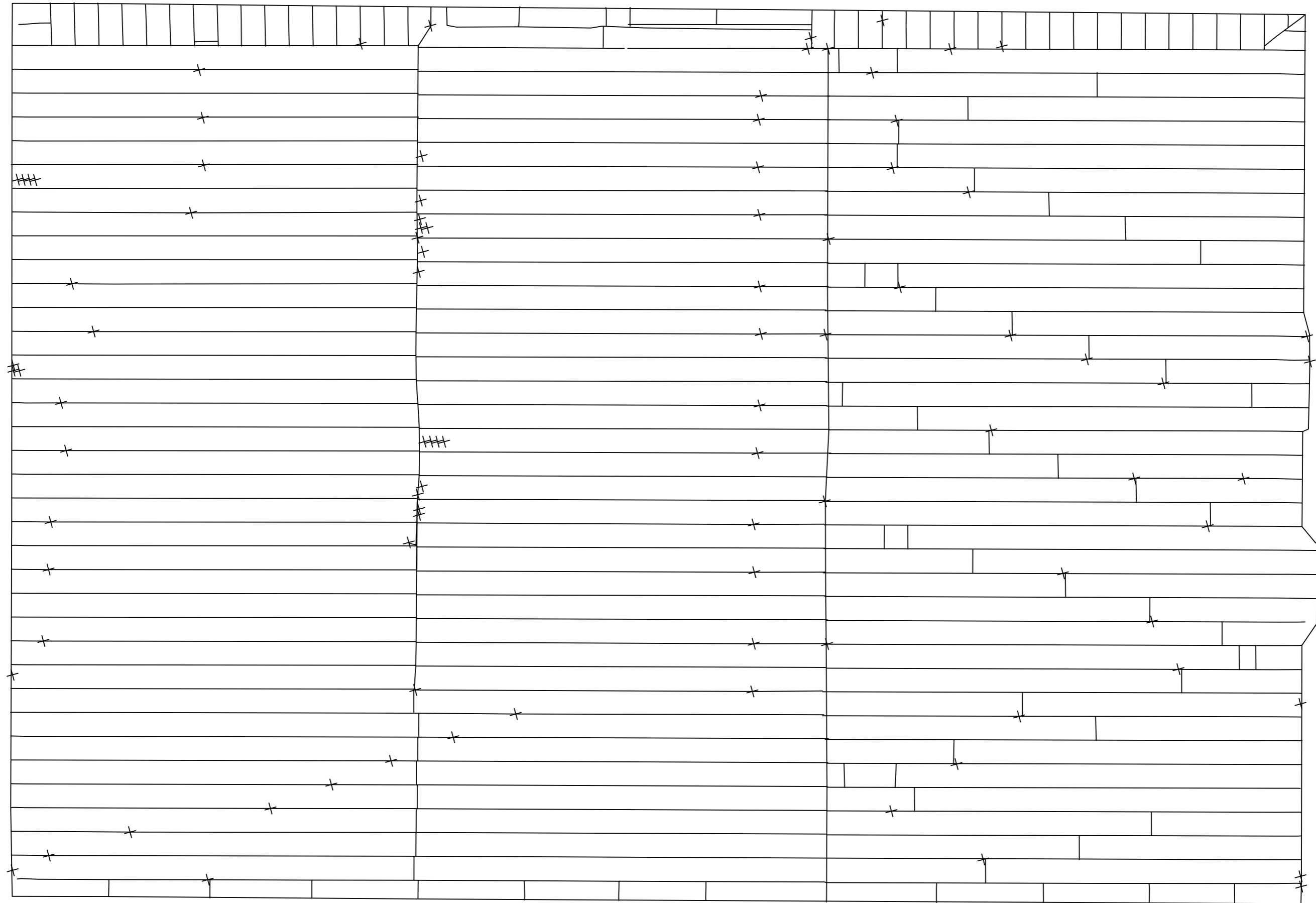
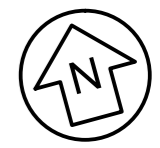
PROCESS: Wearing Course  
 LOT: Pond 3 (P3.1 to P3.4) (P3.A1 to P3.F4)      OPEN DATE: 20/08/2023      Contract Specifications: 700-810-CV-SPE-2002

ITEM NO.	RESP. PERSON	SEQUENCE OF ACTIVITIES	SPECIFICATION REFERENCE	ACCEPTANCE CRITERIA	VERIFICATION DOCUMENTS	TEST METHOD	TEST FREQUENCY	INSPECTION		Initial & Date		COMMENTS RECORDS DOCUMENTS
								Regroup	Newcrest	Regroup	Newcrest	
<b>1 Pre Commencement</b>												
1.1	PE	Design Drawings Supplied & Approved for Construction	Approved IFC Drawings	Approved IFC Drawings	Approved IFC Drawings	Prior to start	F	SU	W			
1.2	SURV	Define Lot areas	Scope of Works	Approved Lot Plans	Lots Register	Prior to start	F	SU	W			
1.3	PE	Construction Methodology Statement (CMS)	CMS no 702-5440-CV-VDA-0059-C07-0004.	- Comply with Project HSE requirements - Comply with Project QA/QC requirements	CMS no 702-5440-CV-VDA-0059-C07-0004.	CMS reviewed and accepted by NML	F	SU	R			
1.4	PE	Ensure previous Embankment Construction Lot has been signed off	Embankments	Signed ITP prior to start	Signed ITP prior to start	Sign Off	X1	R	W			
<b>2 Construction Works</b>												
2.1	SURV	Approval for placement of material. Confirm existing surface for height and volume confirmation	700-810-CV-SPE-2002 Clause 1 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Survey, main control stations checked and agreed by client & contractor surveyors.	Survey	Survey Pick-up	X1	SU	W			
2.2	PE	Ensure material is suitable as Wearing Course	Layer works: Issued For Construction Drawings 702-5440-CV-DDD-2302	Min CBR = 80%	Test Certificates	CBR	X1	W	W			
2.3	SUP	Placement of Wearing Course	700-810-CV-SPE-2002 Clause 1 Issued For Construction Drawings 702-5440-CV-DDD-2302	The batter surface of the embankment shall be ripped to a minimum of 100mm or been finished with padfoot compactor. Material shall be placed to achieve a minimum of 200mm thickness after compaction.	Visual Confirmation Surveillance survey	Visual area inspection	X1	SU	W			
2.4	PE	Compaction Requirements	Layer works: Issued For Construction Drawings 702-5440-CV-DDD-2302	material shall be compacted to Min 98% of MMDD Approved Method Spec.	Test Certificates Prof Rolling Visual Confirmation	Correlation MMDD with PSD	X1	W	X2-C			
2.5	SUP	Final Trim and construction tolerances	700-810-CV-SPE-0001 Clause 12.1 & 12.2	The finished surfaces of earthworks, both excavation and fill, shall be trimmed and rolled as necessary to ensure that the finished surfaces, including batter slopes, are tight and uniform with maximum resistance to weathering and erosion. Tolerances must be as Clause 12.2 in the Earthwork Specification.	Visual Confirmation, As-Built Survey	Visual area inspection Survey pickup	X1	SU	W			
<b>3 Complete Verification</b>												
3.1	SURV	Carry out final survey to Wearing Course	700-810-CV-SPE-0001 Clause 2.2.2 & 6.7.1 Issued For Construction Drawings 702-5440-CV-DDD-2304 & 2307	Wearing Course shall not vary more than 75 mm outside designed edges. Tolerances per 700-810-CV-SPE-0001 12.2. Specify tolerance as appropriate including +/- Level tolerance to base of excavations, general ± 50mm	As-Built Survey		X1	SU	W			
3.2	PE	Update quality records		Any defective works shall be detailed in punch list and rectification documented. Produce accurate As-Built records and compliant with Drawing and Specification.	Quality Records included in MDR on completion of project	N/A	F	SU	N/A			

<b>Key:</b>	Newcrest Mining Limited Regroup	H Hold Point W Witness Point R Review CHK Check	SU Surveillance C Certificate	PE Project Engineer SURV Surveyor SUP Supervisor	F Full or 100% Inspection X1 Inspect or Test at a specified frequency X2 Random Inspection or Test
-------------	------------------------------------	--	----------------------------------	--	--

<b>Comments</b>	
-----------------	--

SIGNATORY REGISTER					
Name	Company	Position/ Title	Initials	Signature	Date
U. Anderson	NML	PE	UA	[Redacted]	31/0/23
Richard Cafe	REGROUP	Sup	RC	[Redacted]	31/3/23




Rev	Description	Date	Drawn	Auth
1	WELD LOCATIONS	23/08/2023	CAR	CAR


Datum	HAV2020	
Surveyor	CAM RAGG	
Designer		
Design Check		
Drafter	CAM RAGG	24/08/2023
Drafting Check		
Engineering Certification	.....	


**12d Model**  

**12d Synergy**

Project	HAVIERON MINE PROJECT	
<b>NEWCREST MINING LIMITED EVAPORATION PONDS</b>		
Drawing Title	<b>EVAPORATION POND CELL 3 LINER WELD LOCATIONS</b>	

Scale	1250	ORIG SIZE	<b>A3</b>
			
Drawing Status	<b>ISSUED</b>		
Drawing Number	SU020	Rev	1



POND 3 LINER REPAIRS				POND 3 DESTRUCTIVE TESTS			
NORTHING	EASTING	ELEVATION	DESCRIPTION	NORTHING	EASTING	ELEVATION	DESCRIPTION
597157.792	461319.014	245.782	R1	597114.505	461446.486	245.78	DT1
597200.355	461193.277	247.074	R2	597140.686	461351.337	245.787	DT2
597172.76	461323.552	245.765	R3	597159.157	461283.914	245.777	DT3
597187.82	461298.328	245.772	R4	597168.072	461251.419	245.776	DT4
597187.966	461297.658	245.787	R5	597192.971	461190.537	247.092	DT5
597214.395	461201.015	245.798	R6	597189.421	461203.019	245.809	DT6
597215.43	461197.391	247.08	R7	597157.948	461318.429	245.823	DT7
597215.665	461196.663	247.081	R8	597150.319	461316.339	245.795	DT8
597223.192	461198.65	247.083	R9	597157.941	461318.424	245.784	DT9
597122.052	461448.681	245.776	R10	597124.791	461409.008	245.774	DT10
597129.48	461451.508	245.761	R11	597123.375	461408.636	245.773	DT11
597165.3	461321.154	245.771	R12	597119.693	461407.558	247.077	DT12
597165.322	461321.108	245.772	R13	597118.901	461407.388	247.116	DT13
597157.783	461319.013	245.778	R14	597124.778	461408.993	245.785	DT14
597165.33	461321.098	245.778	R15	597132.374	461381.419	245.779	DT15
597189.897	461230.865	245.781	R16	597130.995	461381.053	245.78	DT16
597190.05	461230.27	245.774	R17	597127.36	461379.943	247.059	DT17
597190.222	461229.698	245.786	R18	597126.221	461379.671	247.097	DT18
597199.353	461196.9	245.811	R19	597132.365	461381.397	245.779	DT19
597200.583	461192.5	247.091	R20	597139.3	461351.025	245.789	DT20
597208.103	461194.45	247.085	R21	597135.617	461350.119	247.088	DT21
597207.937	461195.334	247.063	R22	597134.532	461349.748	247.137	DT22
597206.851	461198.948	245.784	R23	597140.688	461351.323	245.787	DT23
597185.631	461276.361	245.77	R24	597149.937	461317.704	245.796	DT24
597185.472	461276.914	245.772	R25	597148.65	461317.329	245.781	DT25
597185.315	461277.491	245.772	R26	597145.002	461316.289	247.076	DT26
597172.882	461323.243	245.779	R27	597144.037	461316.007	247.093	DT27
597165.308	461321.151	245.765	R28	597149.944	461317.698	245.793	DT28
597172.885	461323.252	245.782	R29	597150.32	461316.342	245.781	DT29
597136.944	461453.646	245.755	R30	597157.991	461283.579	245.78	DT30
597144.513	461455.819	245.761	R31	597154.346	461282.593	247.042	DT31
597180.363	461325.622	245.778	R32	597153.385	461282.336	247.071	DT32
597172.769	461323.554	245.784	R33	597159.15	461283.91	245.775	DT33
597180.366	461325.611	245.794	R34	597168.028	461251.586	245.776	DT34
597180.421	461325.311	245.783	R35	597166.941	461251.249	245.758	DT35
597187.668	461298.847	245.779	R36	597163.301	461250.256	247.062	DT36
				597162.255	461249.991	247.092	DT37
				597168.231	461250.86	245.754	DT38
				597168.032	461251.561	245.769	DT39
				597168.376	461250.345	245.765	DT40
				597176.792	461219.435	245.762	DT41
				597175.826	461219.212	245.771	DT42
				597172.2	461218.139	247.073	DT43
				597171.434	461217.883	247.136	DT44

597176.799	461219.436	245.776	DT45
597182.988	461196.958	245.788	DT46
597184.655	461191.683	247.065	DT47
597184.856	461190.369	247.062	DT48
597188.029	461189.691	247.093	DT49
597192.775	461191.227	247.032	DT50
597191.761	461194.865	245.787	DT51
597189.772	461201.877	245.811	DT52
597189.583	461202.396	245.798	DT53

**D. APPENDIX D – SPILLWAY RL FIC**



# HAVIERON PROJECT

## CIVIL DISCIPLINE

### RL CHECK – WALL 4 SOUTH SPILLWAY – EVAP POND CELL 3

S1.T015

Sub Sys:	«CodeLevel5»	Sub Sys Desc:	«NameLevel5»
Equip No:	«ItemDescr»		

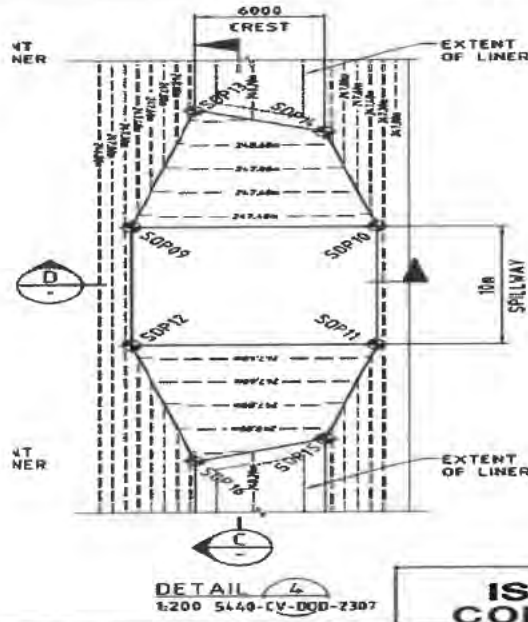
CONTRACTOR RESPONSIBILITY: Fill "INITIAL" column corresponding to each item with one of the following; Initial for yes, 'X' for no, 'N/A' if item not applicable. Responses other than your Initials (for yes) requires a referenced explanation in the 'Comments' section.  
 CLIENT RESPONSIBILITY: Each item must be verified and initialled to confirm contractor's responses. ALL responses must be verified.

#### 1. REFERENCE DATA

#### 2. INSTALLATION & EQUIPMENT CHECKS

CHECK THE FOLLOWING:

				INITIAL	
2.1	MARK	DESIGN RL	AS-CON RL	CONTRACTOR	CLIENT
2.6	SOP09	247.300	247.159	S.K	[Signature]
2.7	SOP10	247.300	247.235	S.K	[Signature]
2.8	SOP11	247.300	247.220	S.K	[Signature]
2.9	SOP12	247.300	247.163	S.K	[Signature]



ISS CON

#### 5. COMMENTS / REMEDIAL ACTION REQUIRED – IF DEFECT PREVENTS COMMISSIONING FTR IS NOT TO BE SUBMITTED

DESCRIPTION OF DEFECT/REMEDIAL ACTION REQUIRED:	CAT	REMEDIAL ACTION COMPLETED	CONTRACTOR SIGN OFF
5.1			
5.2			
5.3			
5.4			

Cat - A = Safety, Equipment or Operational Hazard. Must be completed before commissioning can commence.  
 Cat - B = Requires plant to be isolated to rectify, but will not impede commissioning

Cat - C = Minor items that can be completed with plant operating and will not impede commissioning  
 Cat - D = Out of scope. Requires approval through Newcrest Change Management Process

#### 6. REMEDIAL WORKS COMPLETE / FINAL SIGN OFF

6.1 REMEDIAL ACTION COMPLETION VERIFIED BY: (CONTRACTOR)			
NAME:	Josh Haynes	COMPANY:	Regroup
SIGNATURE:	[Signature]	DATE:	31/08/2023
6.2 REMEDIAL ACTION COMPLETION VERIFIED BY: (CLIENT)			
NAME:	[Redacted]	COMPANY:	NML
SIGNATURE:	[Redacted]	DATE:	1/9/23



# HAVIERON PROJECT

## S1.T015

### CIVIL DISCIPLINE RL CHECK - WALL 4 NORTH SPILLWAY - EVAP POND CELL 3

Sub Sys: «CodeLevel5» Sub Sys Desc: «NameLevel5»  
 Equip No: «ItemDescr»

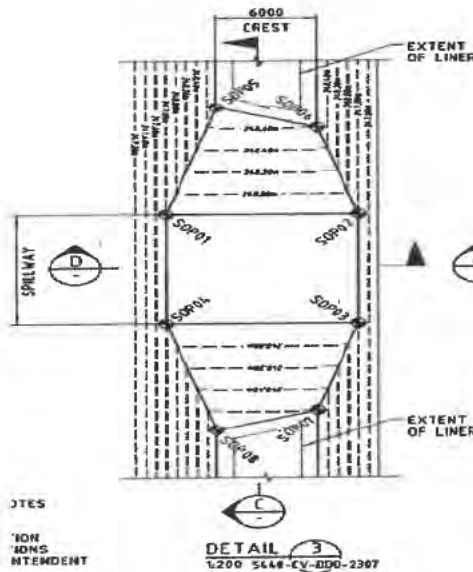
CONTRACTOR RESPONSIBILITY: Fill "INITIAL" column corresponding to each item with one of the following; Initial for yes, 'X' for no, 'N/A' if item not applicable. Responses other than your Initials (for yes) requires a referenced explanation in the 'Comments' section.  
 CLIENT RESPONSIBILITY: Each item must be verified and initialled to confirm contractor's responses. ALL responses must be verified.

#### 1. REFERENCE DATA

REFERENCE DOCUMENTS **AS-CON**

#### 2. INSTALLATION & EQUIPMENT CHECKS

CHECK THE FOLLOWING:				INITIAL	
	MARK	DESIGN RL	AS-CON RL	CONTRACTOR	CLIENT
2.1					
2.6	SOP01	247.800	247.835	S.K	[Signature]
2.7	SOP02	247.800	247.889	S.K	[Signature]
2.8	SOP05	247.800	247.889	S.K	[Signature]
2.9	SOP06	247.800	247.869	S.K	[Signature]



#### 5. COMMENTS / REMEDIAL ACTION REQUIRED - IF DEFECT PREVENTS COMMISSIONING FTR IS NOT TO BE SUBMITTED

DESCRIPTION OF DEFECT/REMEDIAL ACTION REQUIRED:	CAT	REMEDIAL ACTION COMPLETED	CONTRACTOR SIGN OFF
5.1			
5.2			
5.3			
5.4			

Cat - A = Safety, Equipment or Operational Hazard. Must be completed before commissioning can commence.  
 Cat - B = Requires plant to be isolated to rectify, but will not impede commissioning  
 Cat - C = Minor items that can be completed with plant operating and will not impede commissioning  
 Cat - D = Out of scope. Requires approval through Newcrest Change Management Process

#### 6. REMEDIAL WORKS COMPLETE / FINAL SIGN OFF

6.1	REMEDIAL ACTION COMPLETION VERIFIED BY: (CONTRACTOR)		
NAME:	Josh Haynes	COMPANY:	Regroup
SIGNATURE:	[Signature]	DATE:	31/08/2023
6.2	REMEDIAL ACTION COMPLETION VERIFIED BY: (CLIENT)		
NAME:	[Redacted]	COMPANY:	NML
SIGNATURE:	[Redacted]	DATE:	31/9/23

**E. APPENDIX E – CONSTRUCTION TEST RESULTS**

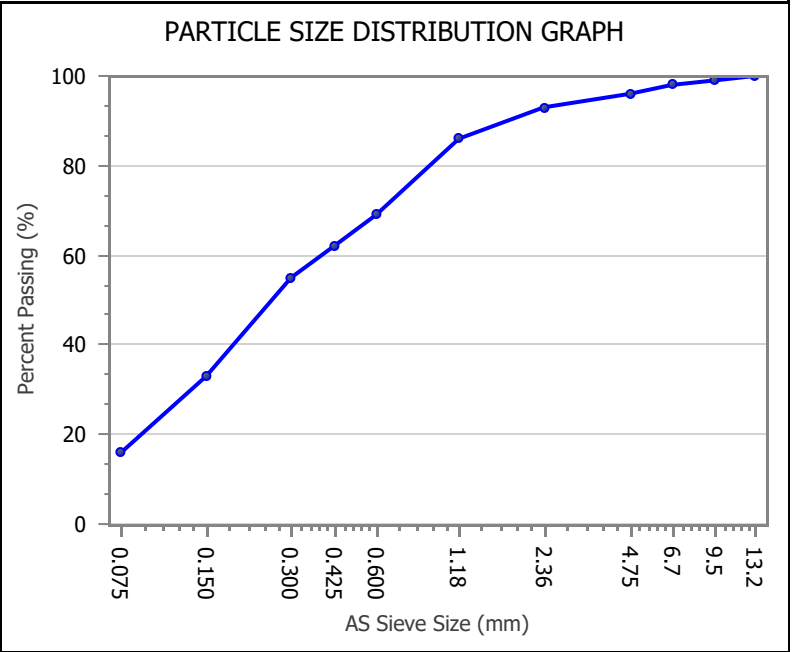
## QUALITY OF MATERIALS REPORT

Client: AK Evans Group Australia Pty Ltd Client Address: [REDACTED] Project: Havieron Project Location: Port Hedland Component: Material Properties Area Description: Pond 3 - Floor	Report Number: 22443/R/27279-1 Project Number: 22443/P/214 Lot Number: Pond 3 Internal Test Request: 22443/T/12805 Client Reference/s: Report Date / Page: 12/07/2023 <span style="float: right;">Page 1 of 2</span>
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Test Procedures: AS1289.3.6.1, AS1289.3.9.1, AS1289.3.2.1, AS1289.3.4.1, AS1289.2.1.1, AS 1289.3.3.2	Area: Pond Floor
Sample Number: 22443/S/56958 Sampling Method: AS1289.1.2.1 CI 6.4b Date Sampled: 19/06/2023 Sampled By: Hudson Hoskins Date Tested: 6/07/2023 PSD Preparation: Washed / Oven Atterberg Preparation: Dry Sieved / Air Dried	Material Source: Insitu Material Type: Clayey Silty Sandy Gravel Prep Material > 53.0mm (%):

Material Description: Brown Clayey Silty Sandy Gravel

AS Sieve (mm)	Specification Minimum (%)	Percent Passing (%)	Specification Maximum (%)
13.2		100	
9.5		99	
6.7		98	
4.75		96	
2.36		93	
1.18		86	
0.600		69	
0.425		62	
0.300		55	
0.150		33	
0.075		16	



Test Result	Specification Minimum (%)	Result	Specification Maximum (%)	Test Result	Specification Minimum (%)	Result	Specification Maximum (%)
Cone Liquid Limit (%)		19		0.075/0.425 Fines Ratio		0.25	
Plastic Limit (%)		12		PI x 0.425 Ratio (%)		431.3	
Cone Plasticity Index (%)		7		LS x 0.425 Ratio (%)		184.9	
Linear Shrinkage (%)		3.0		Shrinkage Observations		NIL	

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing



Accreditation Number: 1986  
 Corporate Site Number: 22443

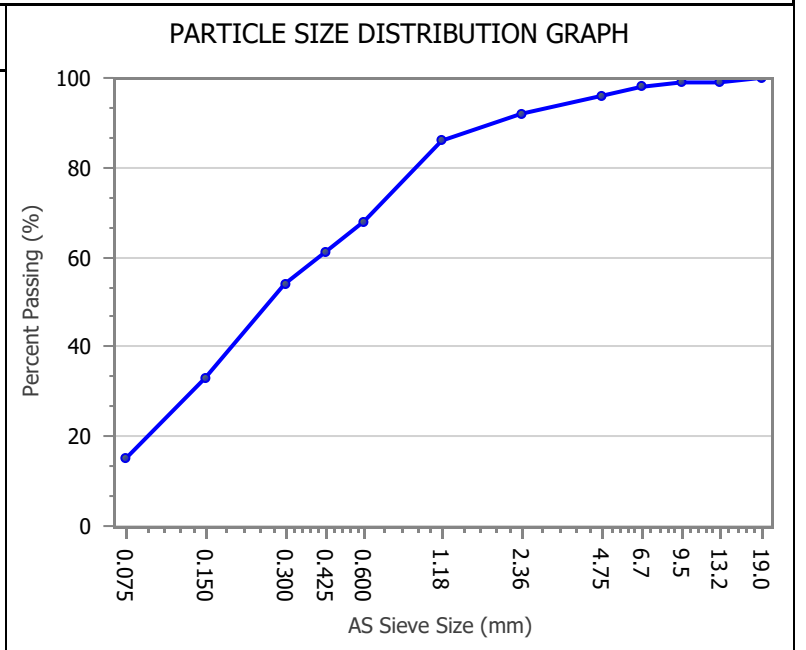
## QUALITY OF MATERIALS REPORT

Client: AK Evans Group Australia Pty Ltd Client Address: <span style="background-color: black; color: black;">XXXXXXXXXX</span> Project: Havieron Project Location: Port Hedland Component: Material Properties Area Description: Pond 3 - Floor	Report Number: 22443/R/27279-1 Project Number: 22443/P/214 Lot Number: Pond 3 Internal Test Request: 22443/T/12805 Client Reference/s: Report Date / Page: 12/07/2023 <span style="float: right;">Page 2 of 2</span>
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Test Procedures: AS1289.3.6.1, AS1289.3.9.1, AS1289.3.2.1, AS1289.3.4.1, AS1289.2.1.1, AS 1289.3.3.2	Area: Pond Floor
Sample Number: 22443/S/56959 Sampling Method: AS1289.1.2.1 CI 6.4b Date Sampled: 19/06/2023 Sampled By: Hudson Hoskins Date Tested: 8/07/2023 PSD Preparation: Washed / Oven Atterberg Preparation: Dry Sieved / Air Dried	Material Source: Insitu Material Type: Clayey Silty Sandy Gravel Prep Material > 53.0mm (%):

Material Description: Gravelly Silty Sand, Brown

AS Sieve (mm)	Specification Minimum (%)	Percent Passing (%)	Specification Maximum (%)
19.0		100	
13.2		99	
9.5		99	
6.7		98	
4.75		96	
2.36		92	
1.18		86	
0.600		68	
0.425		61	
0.300		54	
0.150		33	
0.075		15	



Test Result	Specification Minimum (%)	Result	Specification Maximum (%)	Test Result	Specification Minimum (%)	Result	Specification Maximum (%)
Cone Liquid Limit (%)		19		0.075/0.425 Fines Ratio		0.25	
Plastic Limit (%)		13		PI x 0.425 Ratio (%)		364.6	
Cone Plasticity Index (%)		6		LS x 0.425 Ratio (%)		182.3	
Linear Shrinkage (%)		3.0		Shrinkage Observations		NIL	

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing



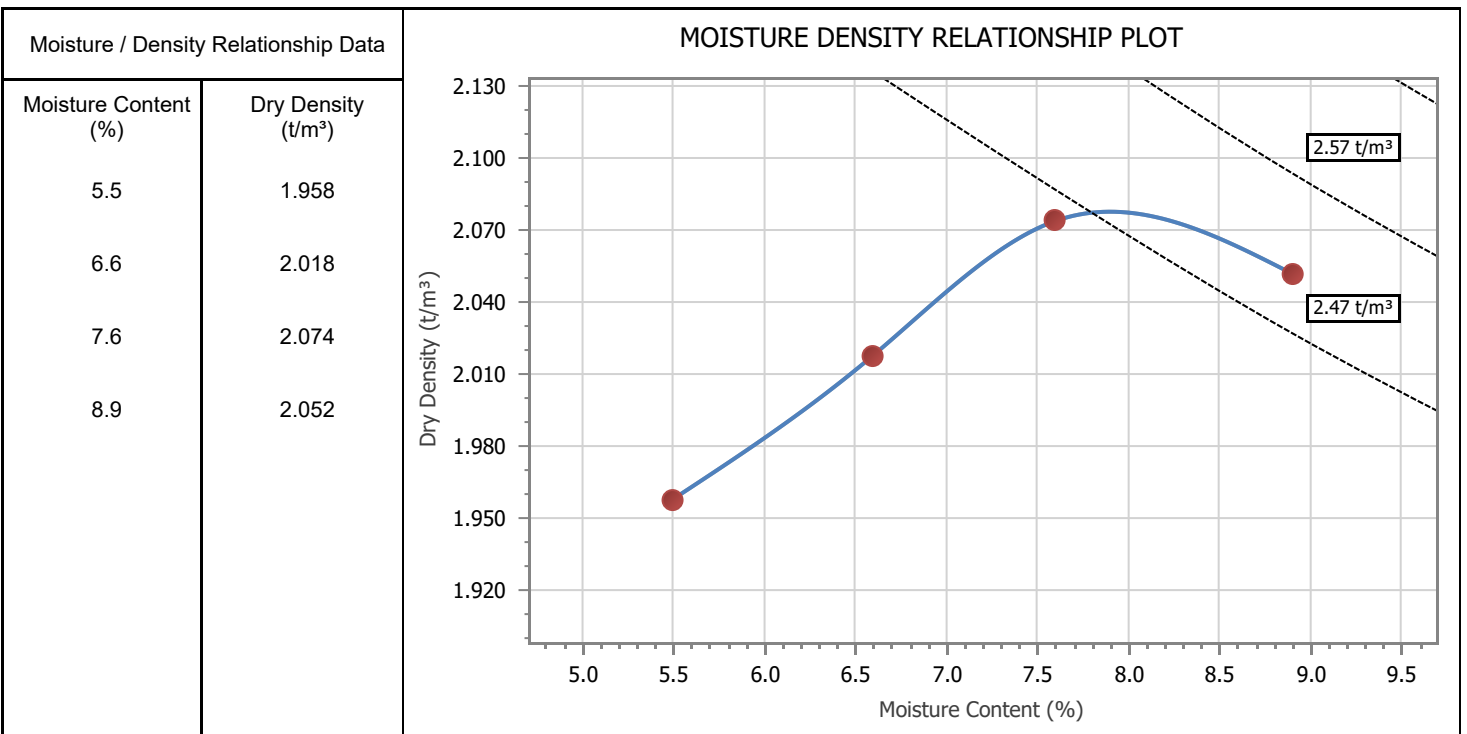
Accreditation Number: 1986  
 Corporate Site Number: 22443



## MOISTURE DENSITY RELATIONSHIP REPORT

Client: Construction Sciences Port Hedland Lab Client Address: <span style="background-color: black; color: black;">XXXXXXXXXX</span> Project: AK Evans Eathmoving - Pilbara Works Location: Port Hedland Supplied To: Fergal Area Description:	Report Number: 5022/R/63692-1 Project Number: 5022/P/2257 Lot Number: Pond 3 Internal Test Request: 5022/T/19154 Client Reference/s: Report Date / Page: 3/07/2023 <span style="float: right;">Page 1 of 1</span>
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<b>Test Procedures</b> AS1289.5.2.1, AS1289.2.1.1, AS1289.1.1 <b>Sample Number</b> 5022/S/103293 <b>Sampling Method</b> AS1289.1.2.1 CI 6.4b <b>Date Sampled</b> 19/06/2023 <b>Sampled By</b> Hudson Hoskins <b>Date Tested</b> 30/06/2023 <b>Material Source</b> <b>Material Type</b> <b>Liquid Limit Method</b> Estimation	<b>Location</b> 1 <b>Depth</b> m 500 <b>Prep Material &gt; 53mm (%)</b> - <b>Compactive Effort</b> Modified <b>Fraction Tested (mm)</b> < 19.0mm <b>Percent Oversize (%)</b> 0 <b>Total Curing Time (hrs)</b> 24.0
<b>Material Description</b> Red Brown Clay /Sand GRAVEL	



<b>Maximum Dry Density (t/m<sup>3</sup>):</b> <b>2.08</b>	<b>Optimum Moisture Content (%):</b> <b>8.0</b>
---	---

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing



Accreditation Number:	1986
Corporate Site Number:	5022



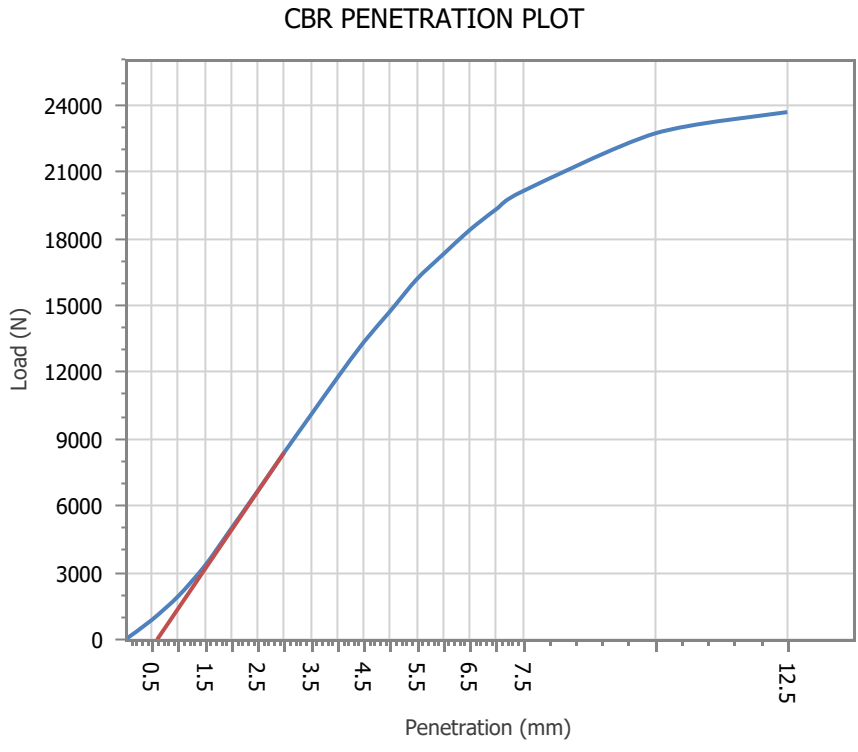
# CALIFORNIA BEARING RATIO REPORT

Client: AK Evans Group Australia Pty Ltd	Report Number: 22443/R/27299-1
Client Address: 2 [REDACTED]	Project Number: 22443/P/214
Project: Havieron Project	Lot Number: Pond 3
Location: Port Hedland	Internal Test Request: 22443/T/12805
Component: Material Properties	Client Reference/s:
Area Description: Pond 3 - Floor	Report Date / Page: 13/07/2023 <span style="float: right;">Page 1 of 1</span>

Test Procedures AS1289.6.1.1, AS1289.5.2.1, AS1289.2.1.1	
Sample Number 22443/S/56958	Area Pond Floor
Sampling Method AS1289.1.2.1 CI 6.4b	
Date Sampled 19/06/2023	
Sampled By Hudson Hoskins	
Date Tested 12/07/2023	Prep Material > 53mm (%) -
Material Source Insitu	Material Limit Start -
Material Type Clayey Silty Sandy Gravel	Material Limit End -
Client Reference -	Compactive Effort Modified


Material Description **Brown Clayey Silty Sandy Gravel**

Maximum Dry Density (t/m <sup>3</sup> ):	2.13
Optimum Moisture Content (%):	7.5
Field Moisture Content (%):	3.4
Sample Percent Oversize (%):	0.0
Oversize Included / Excluded	-
Target Density Ratio (%):	95
Target Moisture Ratio (%):	100
Placement Dry Density (t/m <sup>3</sup> ):	2.02
Placement Dry Density Ratio (%):	95.0
Placement Moisture Content (%):	7.3
Placement Moisture Ratio (%):	100.0
Test Condition / Soaking Period:	Soaked / 4 Days
CBR Surcharge (kg)	-
Dry Density After Soak (t/m <sup>3</sup> ):	2.02
Total Curing Time (hrs)	75
Liquid Limit Method	Estimation
Moisture (top 30mm) After Soak (%)	9.4
Moisture (remainder) After Soak (%)	10.0
CBR Swell (%):	0.0
Minimum CBR Specification (%):	-
<b>CBR Value @ 5.0mm (%):</b>	<b>80</b>



Remarks

Accredited for compliance with ISO/IEC 17025 – Testing



Accreditation Number:	1986
Corporate Site Number:	22443



PSP Record Sheet

Project:	HAVIERON	Lot No:	P3.1
Location:	POND 3	Client:	NEWCREST
Date	14/07/23	Client Rep:	[REDACTED]

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation no:

PSP Calibration no:

Blows/300 mm:

Calibration Date:

Blows/300 mm:

Calibration Due Date:


Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3.1	1	1	100	597462.025	461280.546	246.013	14
1	1	1	150				8
1	1	1	200				9
P3.1	1	2	100	597417.699	461432.789	246.582	13
1	1	2	150				8
1	1	2	200				8
P3.1	1	3	100	597368.508	461611.153	246.531	13
1	1	3	150				7
1	1	3	200				8



PSP Record Sheet

Project:	HAVIERAN	Lot No:	P3.1
Location:	POND 3	Client:	NEWCREST
Date	18/07/23	Client Rep:	

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation

PSP Calibration no:

Blows/300 mm:

Calibration Date:

Blows/300 mm:

Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3.1	2	1	100	597460.86	46182.49	246.383	12
1	2	1	150				17
1	2	1	200				21
P3.1	2	2	100	597449.98	461426.90	246.877	10
1	2	2	150				15
1	2	2	200				19
P3.1	2	3	100	597367.87	461613.50	246.879	13
1	2	3	150				19
1	2	3	200				24



PSP Record Sheet

Project:	HAVIERON	Lot No:	P3.1
Location:	POND 3	Client:	NEWCREST
Date	20/07/23	Client Rep:	MALCOLM/LANSON

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation no:

PSP Calibration no:

Blows/300 mm:

Calibration Date:

Blows/300 mm:

Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3.1	3	1	100	597488.30	461292.27	246.710	13
		1	150				18
		1	200				22
P3.1	3	2	100	597443.7	461340.0	247.1	13
			150				19
			200				24
P3.1	3	2	100	597429.24	461394.7	247.2	15
			150				20
			200				25





PSP Record Sheet

Project:	Haviceen	Lot No:	P3.1
Location:	Evap pond 3	Client:	NML
Date	23/07/23	Client Rep:	[REDACTED]

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation no:

PSP Calibration no:

Blows/300 mm:

Calibration Date:

Blows/300 mm:

Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3.1	4	1	100	597459.44612804	247.1	15	
			150			20	
			200			25	





PSP Record Sheet

Project:	HAV EVAP PONDS	Lot No:	WALL 2 (P3.2)
Location:	POND 3	Client:	NEWCREST
Date	10/07/23	Client Rep:	[REDACTED]

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation no:

PSP Calibration no:

Blows/300 mm:

Calibration Date:

Blows/300 mm:

Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3 2	1	1	100	597206.862	46193.562	245.306	10
P3 2	1	1	150				13
P3 2	1	1	200				14
P3 2	1	2	100	597314.572	46221.987	245.522	11
P3 2	1	2	150				13
P3 2	1	2	200				15
P3 2	1	3	100	597421.973	46250.852	246.109	10
P3 2	1	3	150				16
P3 2	1	3	200				20

Regroup Representative

Name CAM RAGG

Signature



PSP Record Sheet

Project:	Haveron	Lot No:	P3.2
Location:	Evap Pond 3	Client:	NML
Date	13/07/23	Client Rep:	Malek/Lawson

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation no:

PSP Calibration no:

Blows/300 mm:

Calibration Date:

Blows/300 mm:

Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3.2	2	1	100	527204.8	461193.8	245.6	11
			150				16
			200				21
P3.2	2	2	100	597282.1	461214.8	245.8	14
			150				20
			200				25
P3.2	2	3	100	597410.6	461249.4	246.4	11
			150				18
			200				24

Regroup Representative

Name

CAM RAGG

Signature





PSP Record Sheet

Project:	HAVIERON	Lot No:	P3.2
Location:	EVAP POND 3	Client:	NEWCREST
Date	16/07/23	Client Rep:	LAISON / MALCOLM

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation no:

PSP Calibration no:

Blows/300 mm:

Calibration Date:

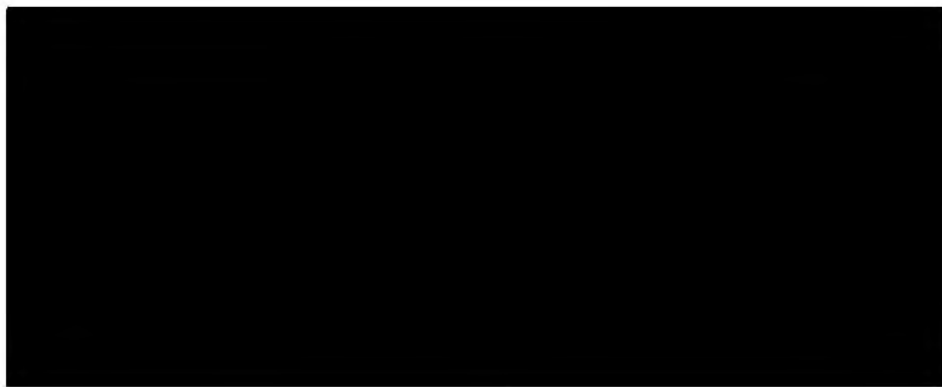
Blows/300 mm:

Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3.2	3	1	100	597185.945	461186.532	246.109	13+
2	3	1	150				8+
2	3	1	200				8
P3.2	3	2	100	597311.849	461221.072	246.298	14+
2	3	2	150				6+
2	3	2	200				7
P3.2	3	3	100	597437.977	461255.990	246.747	12+
2	3	3	150				7+
2	3	3	200				15





PSP Record Sheet

Project:	HAVIERON	Lot No:	P3.2
Location:	POND 3	Client:	NEWCREST
Date:	20/07/23	Client Rep:	[REDACTED]

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction C

PSP Calibration no:

Blows/300 mm:

Calibration Date:

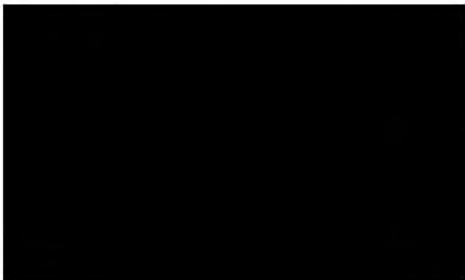
Blows/300 mm:

Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3.2	4	1	100	17202.94	461191.85	246.357	12
	4	1	150				17
	4	1	200				22
P3.2	4	2	100	17317.83	461222.91	246.609	13
	4	2	150				21
	4	2	200				26
P3.2	4	3	100	17431.79	461253.62	247.663	10
	4	3	150				16
	4	3	200				21





PSP Record Sheet

Project:	HAUIERON	Lot No:	P32
Location:	POND 3	Client:	NEWCREST
Date	21/07/23	Client Rep:	[REDACTED]

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation no:

PSP Calibration no:

Blows/300 mm:

Calibration Date:

Blows/300 mm:

Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P32	5	1	100	597199.32	461189.66	246.713	11
	5	1	150				17
	5	1	200				23
P32	5	2	100	597507.22	461220.05	246.927	10
	5	2	150				15
	5	2	200				21
P32	5	3	100	597165.39	461229.01	246.719	13
	5	3	150				18
	5	3	200				25





PSP Record Sheet

Project:	HAVERTON	Lot No:	P3.2
Location:	POND 3	Client:	NEWCREST
Date	21/07/23	Client Rep:	[REDACTED]

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation no:

PSP Calibration no:

Blows/300 mm:

Calibration Date:

Blows/300 mm:

Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3.2	6	1	100	917213.66	461142.7	247.175	13
	6	1	150				19
	6	1	200				27
P3.2	6	2	100	917355.17	461231.51	247.17	11
	6	2	150				16
	6	2	200				21

Regroup Representative

Name

Sukhinder Kaur

Signature



m

PSP Record Sheet

Project:	HAV EVAP POND	Lot No:	WALL 3 (P3.3)
Location:	POND 3	Client:	NEWCREST
Date:	13/07/23	Client Rep:	[REDACTED]

Test Method: Perth Sand Penetrometer      PSP – Sand Compact  
PSP Calibration no:      Blows/300 mm:  
Calibration Date:      Blows/300 mm:  
Calibration Due Date:      Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3.3	1	B	100	917168.532	461225.530	245.471	8
P3 3	1	3	150				20
P3 3	1	3	200				20
P3 3	1	2	100	917127.213	461380.455	245.717	7
P3 3	1	2	150				14
P3 3	1	2	200				31
P3 3	1	1	100	917092.187	461503.086	246.034	8
P3 3	1	1	150				15
P3 3	1	1	200				20





PSP Record Sheet

Project:	HAVIERON	Lot No:	P3.3
Location:	POND 3	Client:	NEWCREST
Date:	16/07/23	Client Rep:	[REDACTED]

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation no:

PSP Calibration no:

Blows/300 mm:

Calibration Date:

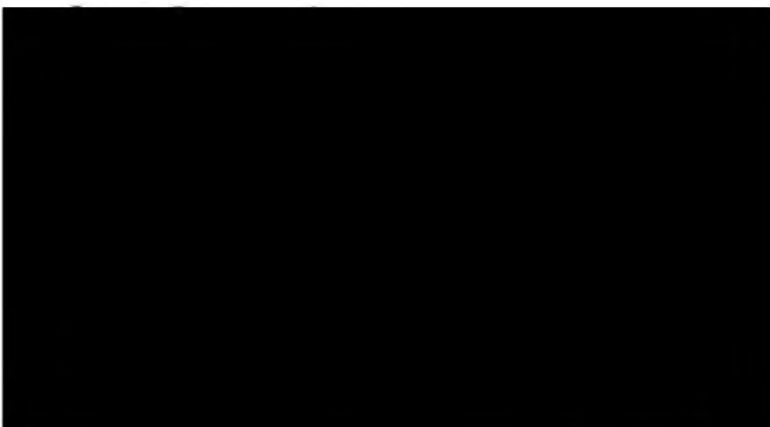
Blows/300 mm:

Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3.3	2	1	100	517204.89	461193.89	245.824	7
	2		150				15
	2		200				20
P3.3	2	2	100	517122.177	461377.248	246.046	8
	2		150				14
	2		200				18
P3.3	2	3	100	517162.401	461233.661	245.785	7
	2		150				12
	2		200				17





PSP Record Sheet

Project:	HAVERTON	Lot No:	P3.3
Location:	POND 3	Client:	NEWCREST
Date:	16/07/23	Client Rep:	MALELY/Dawson

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation no:

PSP Calibration no:

Blows/300 mm:

Calibration Date:

Blows/300 mm:

Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3.3	3	1	100	597093.40	461491.62	246.517	8
	3	1	150				13
	3	1	200				17
P3.3	3	2	100	597096.23	461376.43	246.351	6
	3	2	150				12
	3	<del>2</del>	200				19
P3.3	3	3	100	597168.54	461217.76	246.092	6
	3	3	150				11
	3	3	200				15



PSP Record Sheet

Project:	HAVIERAN	Lot No:	P3.3
Location:	POND 3	Client:	NEWCREST
Date:	20/07/23	Client Rep:	[REDACTED]

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction

PSP Calibration no:

Blows/300 mm:

Calibration Date:

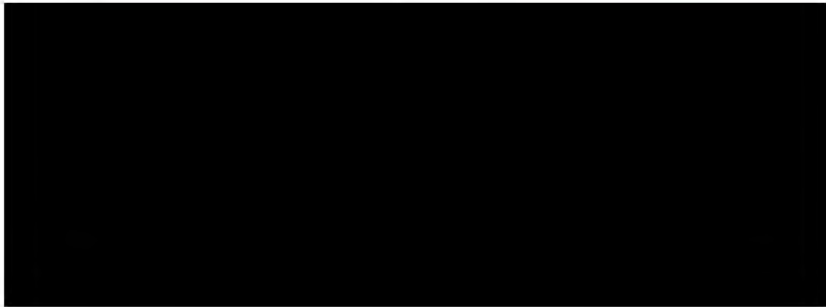
Blows/300 mm:

Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3.3	4	1	100	917086.92	461513.43	246.909	7
	4	1	150				14
	4	1	200				18
P3.3	4	2	100	917121.95	461388.08	246.66	6
	4	2	150				13
	4	2	200				20
P3.3	4	3	100	917171.54	461208.19	246.61	9
	4	3	150				14
	4	3	200				21







PSP Record Sheet

Project:	HAVIERON	Lot No:	P3.3
Location:	POND 3	Client:	NEWCREST
Date:	21/07/23	Client Rep:	CAUSON/MALEK

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation no:

PSP Calibration no:

Blows/300 mm:

Calibration Date:

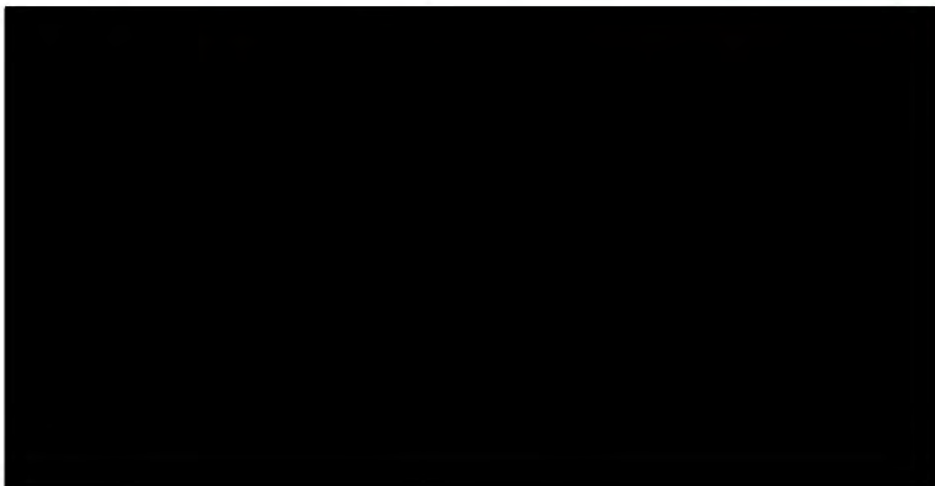
Blows/300 mm:

Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3.3	S	1	100	517080.086	461538.18	247.176	8
	S	1	150				13
	S	1	200				19
P3.3	S	2	100	517122.60	461383.54	246.565	10
	S	2	150				17
	S	2	200				23
P3.3	S	3	100	517165.39	461229.01	246.719	6
	S	3	150				14
	S	3	200				21





PSP Record Sheet

Project:	HAVERON	Lot No:	P3.3
Location:	POND 3	Client:	NEWCREST
Date	21/07/23	Client Rep:	MALEW/dawson

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation no:

PSP Calibration no:

Blows/300 mm:

Calibration Date:

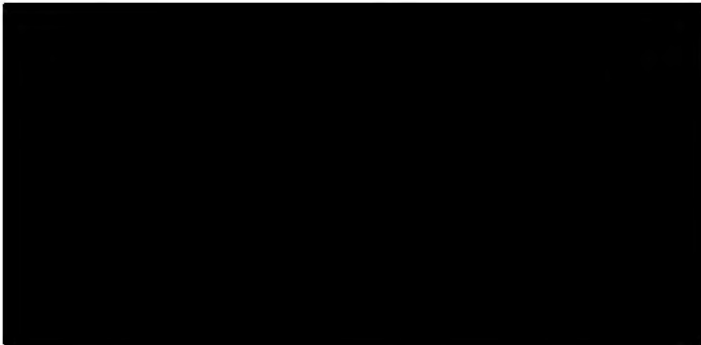
Blows/300 mm:

Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3.3	6	2	100	917129.71	461357.35	247.19	7
	6	2	150				11
	6	2	200				15
P3.3	6	3	100	917172.67	461202.64	247.177	9
	6	3	150				14
	6	3	200				18





PSP Record Sheet

Project:	HAVIERON	Lot No:	FLOOR 1 (P3 PB)
Location:	POND 3	Client:	NMC
Date:	17/07/23	Client Rep:	MALLEN/LAUSON

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation no:

PSP Calibration no:

Blows/300 mm:

Calibration Date:

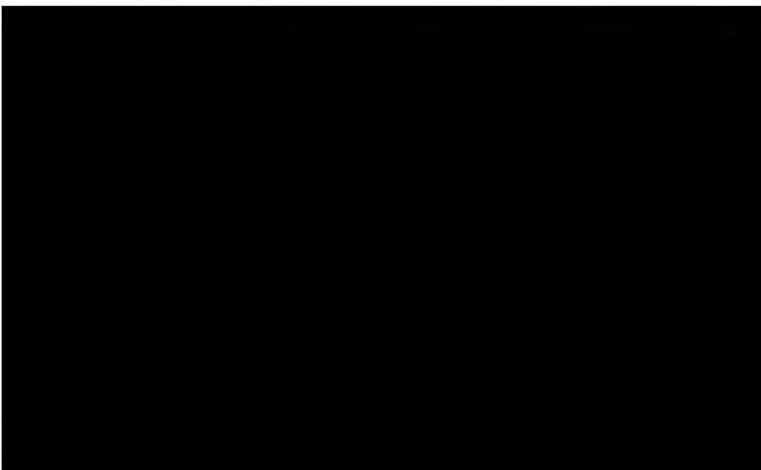
Blows/300 mm:

Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3.81	+300	1	100	997186.77	463216.92	244.876	6
	Lift 1		150				13
			200				17
P3.81	+300	2	100	997297.65	463274.5	244.891	6
	Lift 1		150				12
			200				17
P3.81	+300	3	100	9972196.27	461251.31	244.876	7
	Lift 1		150				14
			200				18





PSP Record Sheet

Project:	HAULERON	Lot No:	FLOOR 1 (SW CORNER) (P3-F1)
Location:	POND 3	Client:	NEWCREST
Date:	18/07/23	Client Rep:	LAWSON/MALLIK

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation no:

PSP Calibration no:

Blows/300 mm:

Calibration Date:

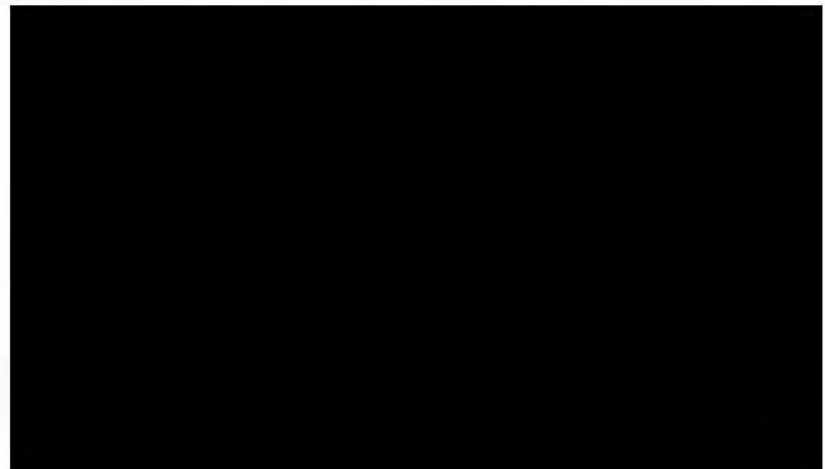
Blows/300 mm:

Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3-FLR	+600	1	100	597187.464	461214.513	245.154	13
	Lift 2		150				8
			200	597177.030	461254.856	245.168	7
P3-FLR	+600	2	100				12
	Lift 2		150				8
			200				8
P3-PLR	+600	3	100	597161.391	461319.986	245.143	12
	Lift 2		150				8
			200				9





PSP Record Sheet

Project:	Havivision	Lot No:	P3.F1
Location:	Pond 3	Client:	NML
Date:	23/07/23	Client Rep:	Malek/Dawson

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation no:

PSP Calibration no:

Blows/300 mm:

Calibration Date:

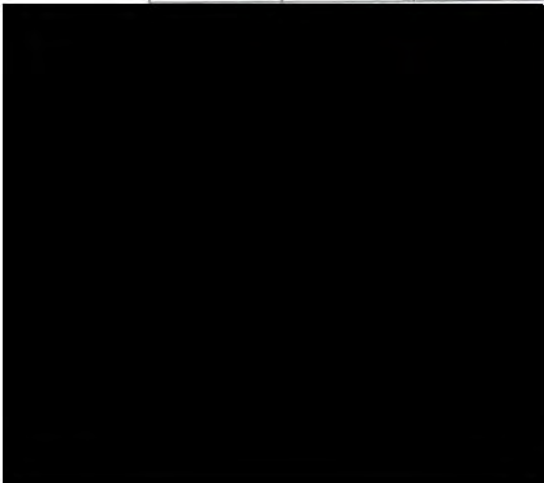
Blows/300 mm:

Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3.F1	3	1	100	597233.24612365		245.4	9
			150				15
			200				20
P3.F1	3	2	100	597236.3461272.1		245.4	7
			150				11
			200				14
P3.F1	3	3	100	597195.4461249.9		245.5	8
			150				13
			200				18





PSP Record Sheet

Project:	HAVIERON	Lot No:	FLOOR 1 (P3A1)
Location:	POND 3	Client:	NML
Date	6/08/23	Client Rep:	[REDACTED]

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation no:

PSP Calibration no:

Blows/300 mm:

Calibration Date:

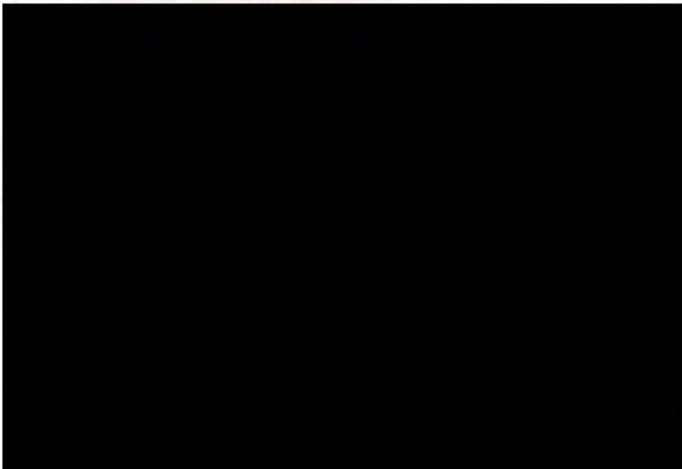
Blows/300 mm:

Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3 S1	4	1	100	97772.41	661333.99	245.77	9
			150				15
			200				21
P3 S1	4	2	100	597295.48	461333.69	245.79	9
			150				14
			200				19
P3 S1	4	3	100	977310.93	661394.36	245.78	9
			150				15
			200				20





PSP Record Sheet

Project:	HAVIERDON	Lot No:	FLOOR 2 (P3f2)
Location:	POND 3	Client:	NML
Date:	17/07/23	Client Rep:	MALCOLM LAUSON

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation no:

PSP Calibration no:

Blows/300 mm:

Calibration Date:

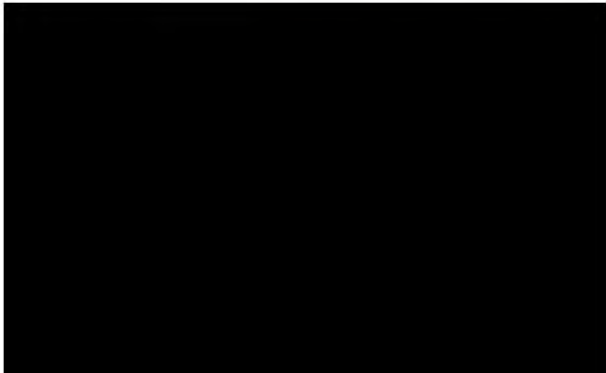
Blows/300 mm:

Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3.52	+300	1	100	517178.43	461315.6	244.899	7
	dift 1		150				12
			200				17
P3.52	+300	2	100	517200.28	461345.71	244.905	6
	dift 1		150				12
			200				16
P3.52	+300	3	200	517205.16	461369.61	244.913	7
	dift 1		150				12
			200				17





PSP Record Sheet

Project:	HAVIERON	Lot No:	FLOOR 2 (P3.f2)
Location:	POND 3	Client:	NEWCREST
Date:	180723	Client Rep:	MALEY/LANSON

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation no:

PSP Calibration no:

Blows/300 mm:

Calibration Date:

Blows/300 mm:

Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3.f2	+600	1	100	597185.52	461311.7	245.228	8
	Lift 2		150				14
			200				19
P3.f2	+600	2	100	597203.72	461343.3	245.209	7
	Lift 2		150				14
			200				18
P3.f2	+600	3	100	597209.87	461372.3	245.224	7
	Lift 2		150				13
			200				18





PSP Record Sheet

Project:	Havicron	Lot No:	P3.F2
Location:	Pond 3	Client:	NML
Date:	23/07/23	Client Rep:	Malek Dawson

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation no:

PSP Calibration no:

Blows/300 mm:

Calibration Date:

Blows/300 mm:

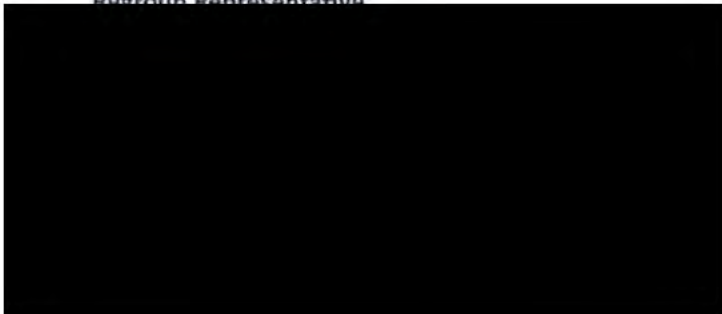
Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3.F2	Floor 3	1	100	597177.5	461313.8	245.5	7
			150				13
			200				19
P3.F2	3	2	100	597199.0	461344.4	245.4	9
			150				14
			200				18
P3.F2	3	3	100	597207.5	461371.5	245.5	8
			150				14
			200				22

Regroup Representative





PSP Record Sheet

Project:	HAVIERON	Lot No:	FLOOR 2 (P1-P2)
Location:	POND 3	Client:	NML
Date	08/08/23	Client Rep:	LAWSON/MALEK

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation no:

PSP Calibration no:

Blows/300 mm:

Calibration Date:

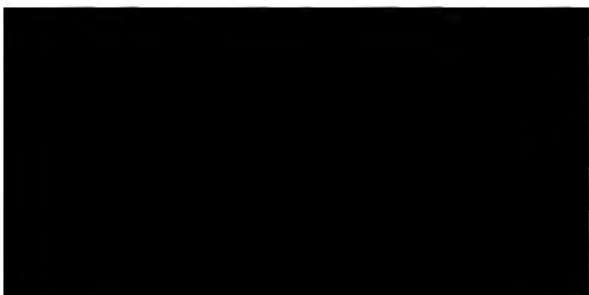
Blows/300 mm:

Calibration Due Date:

Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3 82	4	1	100	917207.81	461244.91	245.78	9
			150				15
			200				22
P3 82	4	2	100	917315.54	461277.07	245.77	10
			150				16
			200				22
P3 82	4	3	100	917226.55	461298.52	245.78	9
			150				15
			200				20





PSP Record Sheet

FLOOR/3

Project:	HAVIERON	Lot No:	P3 LOT 3 (P3.3)
Location:	EVAP POND 3	Client:	NML
Date	06/08/23	Client Rep:	[REDACTED]

Test Method: Perth Sand Penetrometer      PSP – Sand Compaction C

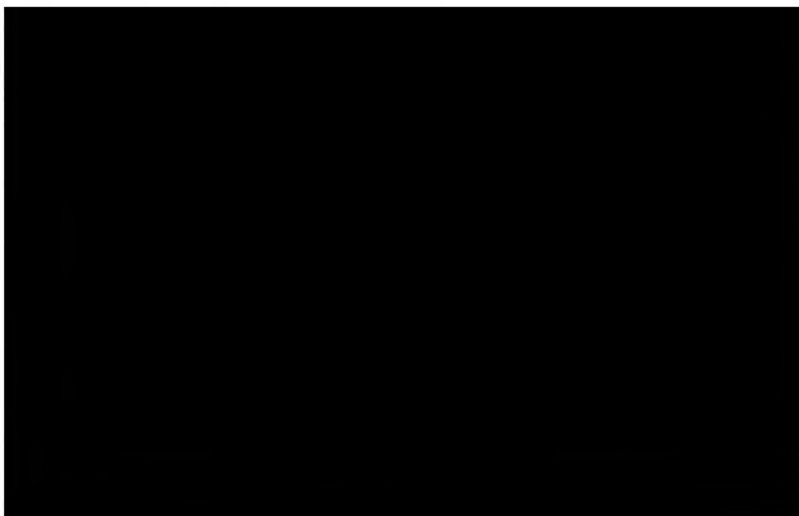
PSP Calibration no:      Blows/300 mm:

Calibration Date:      Blows/300 mm:

Calibration Due Date:      Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3.3	1	1	100	597135.55	661409.93	245.62	8
			150				15
			200				21
P3.3	1	2	100	597178	47246146.6	245.62	8
			150				14
			200				20
P3.3	1	3	100	597171.69	661401.7	245.55	8
			150				14
			200				20





PSP Record Sheet

Project:	Hawtemon	Lot No:	P3-F4
Location:	Evap pond	Client:	NML
Date:	12/08/23	Client Rep:	malek/Lawson

Test Method: Perth Sand Penetrometer

PSP – Sand Compaction Correlation no:

PSP Calibration no:

Blows/300 mm:

Calibration Date:

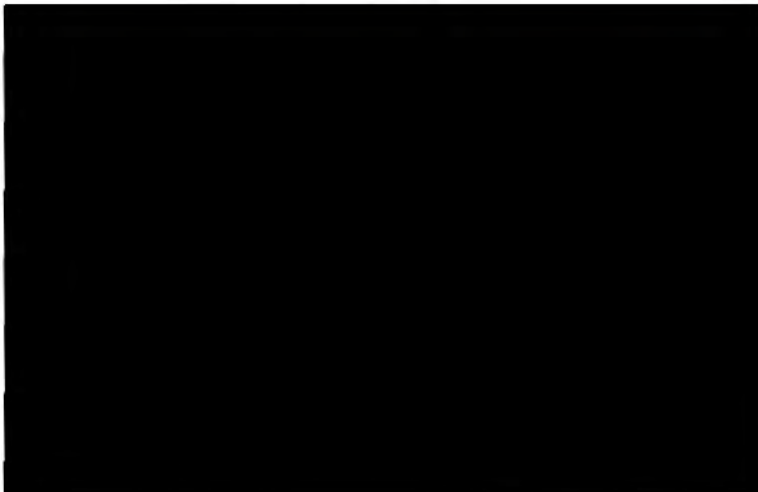
Blows/300 mm:

Calibration Due Date:

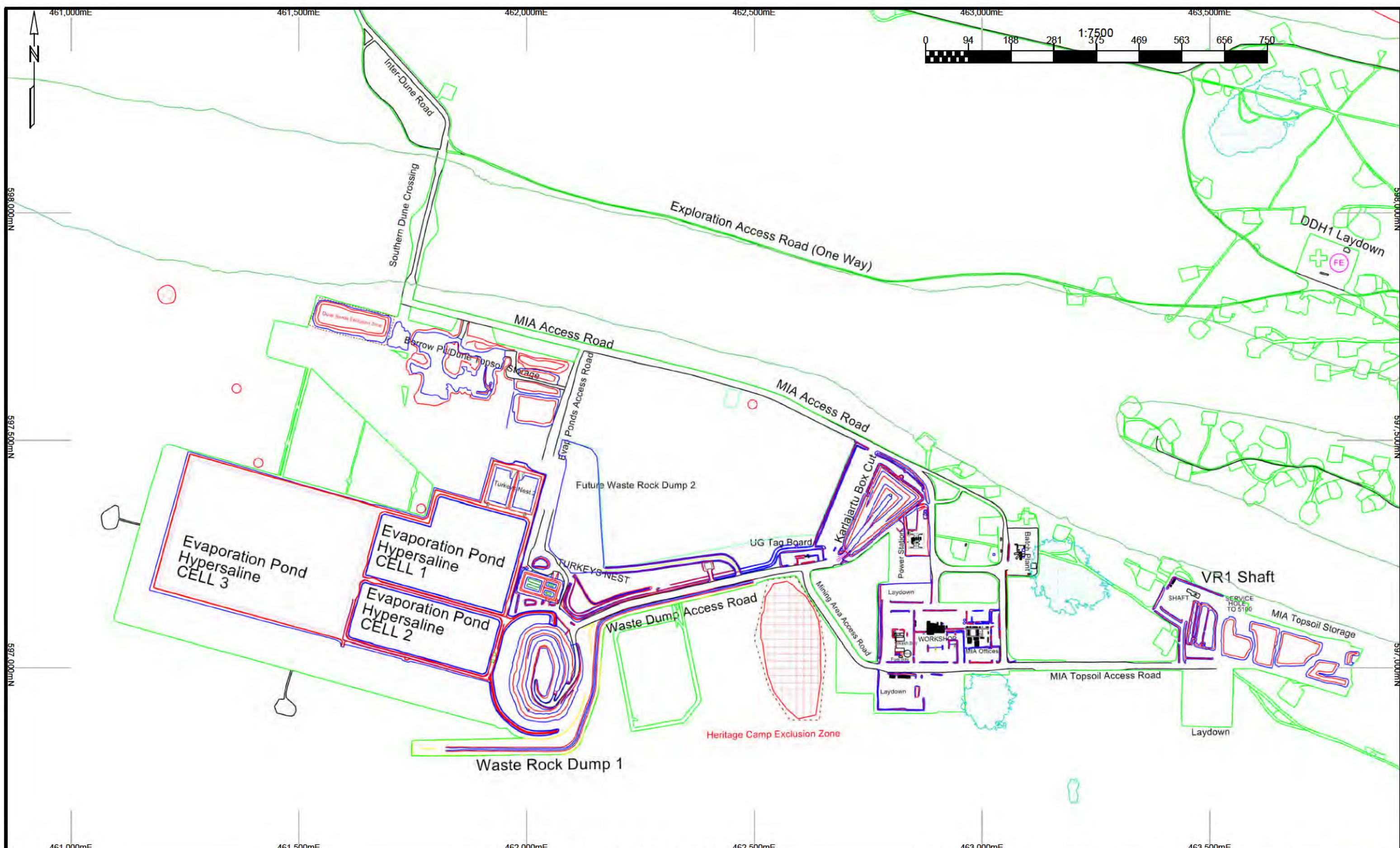
Blows/300 mm:

Recorded by:

Lot No	Lift No	Test No	Depth in mm	Northing	Easting	RL	Blows
P3-F4	1	1	100	597210.04615732		245.75	14
			150				19
			200				25
P3-F4	1	2	100	597180.04615760		245.79	7
			150				12
			200				18
P3-F4	1	3	100	597151.14615758		245.78	11
			150				19
			200				24



**F. APPENDIX F – SITE MAP**



LEGEND

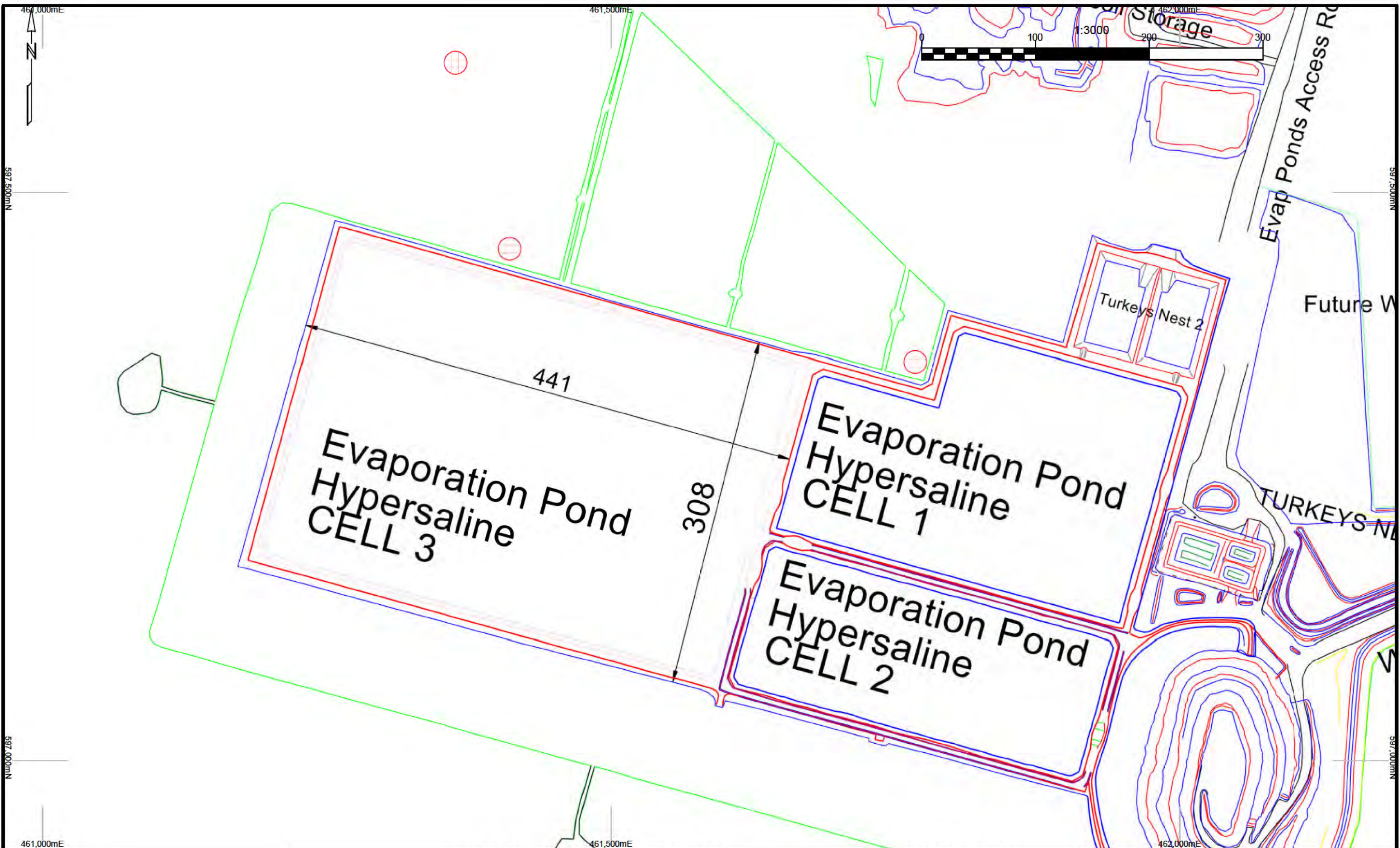
# HAVIERON PROJECT SITE LAYOUT PLAN EVAPORATION POND CELL 3

DRAWN:	SC
DATE:	01 Sep 2023
SCALE:	1:7500
PAGE SIZE:	A3
COORD:	HAV2020

NEWCREST OPERATIONS LIMITED  
A.B.N. 80 009 221 505  
LEVEL 8, 600 St KILDA ROAD,  
MELBOURNE VIC 3004. PO BOX 6213,  
St KILDA ROAD, MELBOURNE VIC 3004  
T+61 3 9522 5333 F+61 3 9525 2996



**G. APPENDIX G – AS-CONSTRUCTED DRAWINGS**



LEGEND

**HAVIERON PROJECT  
ASCON PLAN  
EVAPORATION POND CELL 3**

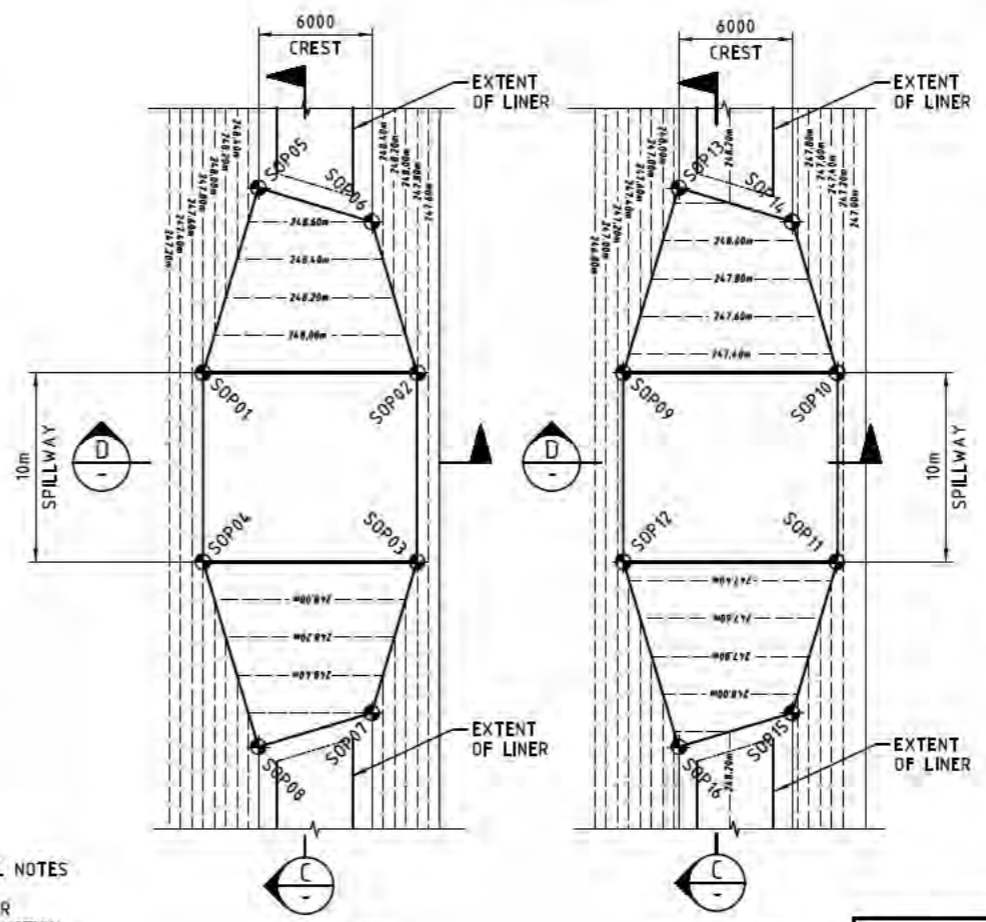
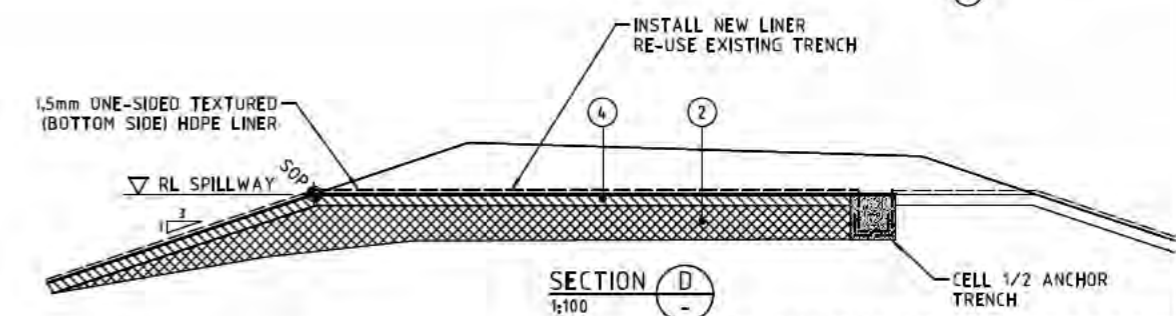
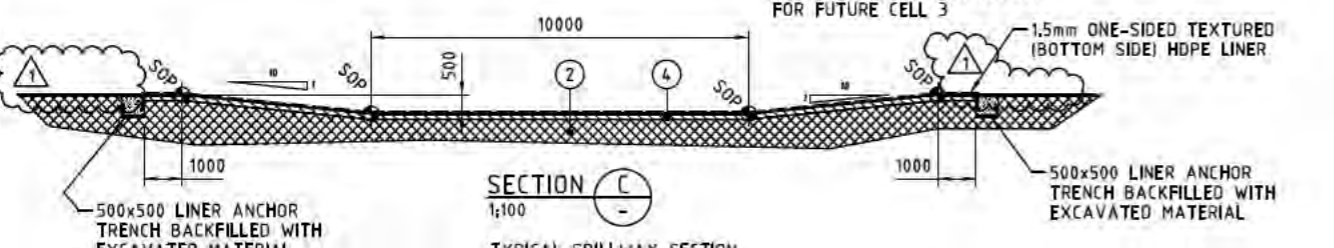
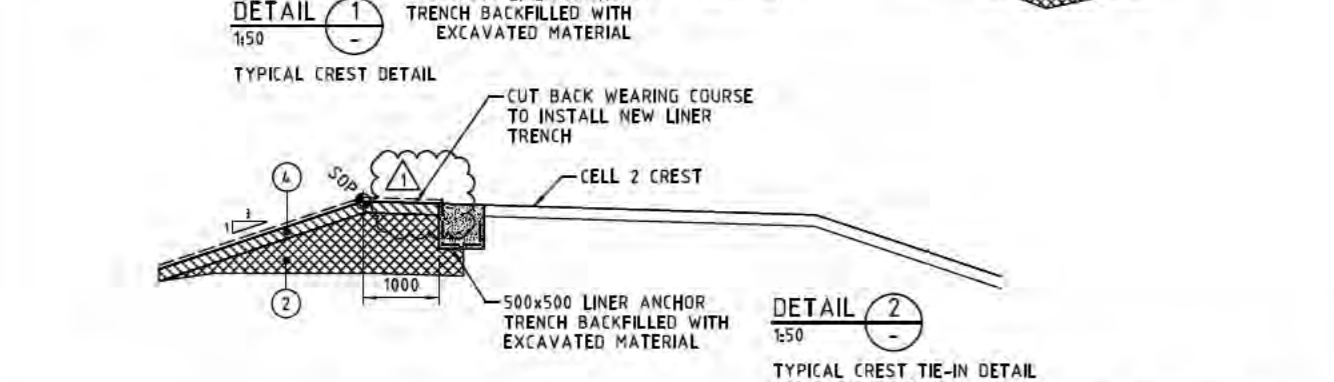
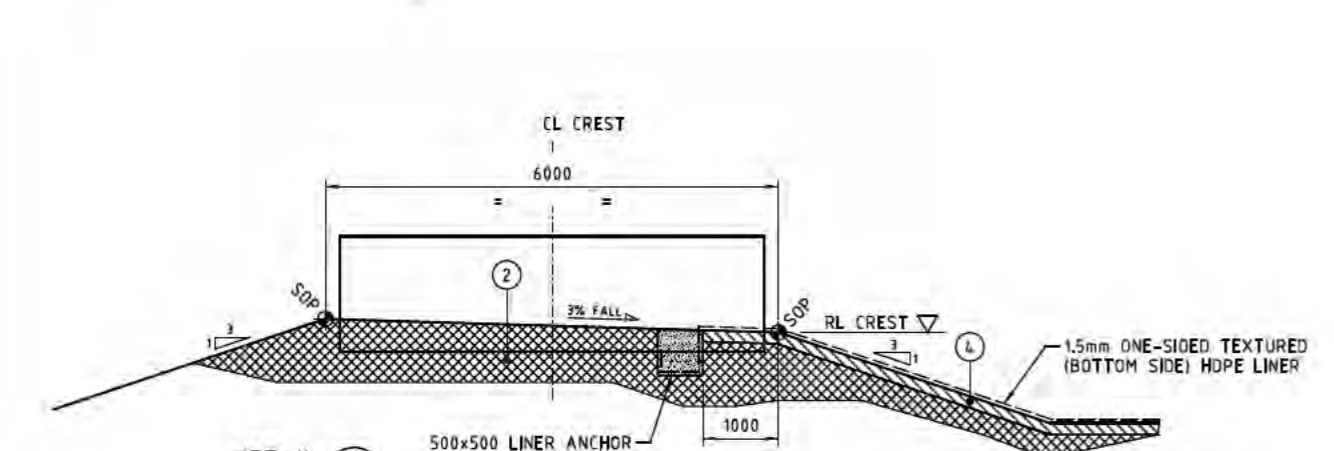
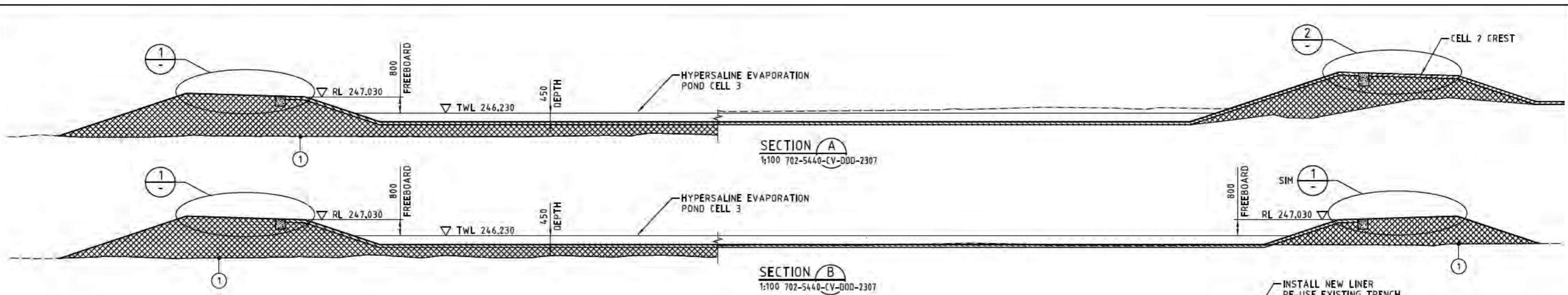
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**H. APPENDIX H – DESIGN DRAWINGS**

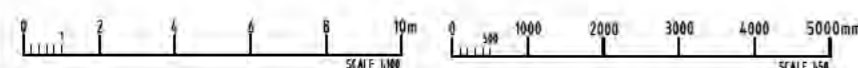


SETOUT			
POINT	EASTING (mE)	NORTHING (mN)	LEVEL (m)
SOP01	461,639.650	597,237.550	RL 5,247.800
SOP02	461,650.570	597,234.530	RL 5,247.800
SOP03	461,647.910	597,224.890	RL 5,247.800
SOP04	461,636.980	597,227.920	RL 5,247.800
SOP05	461,645.100	597,246.210	RL 5,248.780
SOP06	461,650.400	597,242.880	RL 5,248.600
SOP07	461,643.460	597,217.820	RL 5,248.600
SOP08	461,637.190	597,217.690	RL 5,248.780
SOP09	461,621.980	597,173.780	RL 5,247.300
SOP10	461,632.910	597,170.750	RL 5,247.300
SOP11	461,630.240	597,161.110	RL 5,247.300
SOP12	461,619.310	597,164.140	RL 5,247.300
SOP13	461,627.430	597,182.440	RL 5,248.280
SOP14	461,632.730	597,179.100	RL 5,248.100
SOP15	461,625.790	597,154.840	RL 5,248.100
SOP16	461,619.530	597,153.910	RL 5,248.280

- LAYERWORKS**
- 1 - CLEAR AND GRUB REMOVE 100mm (NOM) TOPSOIL. PLACE TOPSOIL TO STOCKPILE, LOCATION TO BE NOMINATED ON SITE. MOISTURE CONDITION AND PROOF COMPACT THE SURFACE TO MIN 95%MMDD TO 500mm BELOW GROUND (REFER NOTE 2)
  - 2 - FILL AND COMPACT FROM THE LOCALLY CUT MATERIAL TO A MINIMUM 95% MMDD IN LAYERS OF 300mm THK MAX
  - 4 - 150mm LINER CUSHION LAYER MAX 10mm DIA PARTICLE COMPACTED TO 95% MMDD. LINER CUSHION TO BE FREE OF LOOSE SHARP PARTICLES

**NOTES**

1. REFER TO 702-5440-CV-DDD-2307 FOR GENERAL NOTES
2. A METHOD SPECIFICATION CAN BE PREPARED FOR COMPACTION CONTROL, WHICH INVOLVES CONSTRUCTION OF TRIAL PADS TO ACCOMMODATE SURFACE CONDITIONS AND MATERIALS, TO BE APPROVED BY THE SUPERINTENDENT ON SITE.



**ISSUED FOR CONSTRUCTION**

**wood.**  
WOOD Drawing No. 653580-0000-DD10-DTL-0009

DOC No.	TITLE	NO	DATE	AUTH	BY	CHK	DES	D.M.	P.R.	REVISION
702-5440-CV-DDD-2308	PONDS GENERAL ARRANGEMENT									
702-5440-CV-DDD-2304	RAW WATER POND CELL 1 GENERAL ARRANGEMENT									
702-5440-CV-DDD-2300	RAW WATER POND CELL 1 SECTIONS & DETAILS 1									
702-5440-CV-DDD-2301	RAW WATER POND CELL 1 SECTIONS & DETAILS 2									
702-5440-CV-DDD-2307	HS CELL 3 GENERAL ARRANGEMENT									
702-5440-CV-DDD-2305	HS CELLS 1 AND 2 GENERAL ARRANGEMENT									
702-5440-CV-DDD-2302	HS CELLS 1 AND 2 SECTIONS AND DETAILS SHT 1	1	03.01.23	KC						HOLD CLOUD H-001 REMOVED, LAYERWORK NO. 3 DELETED
702-5440-CV-DDD-2303	HS CELLS 1 AND 2 SECTIONS AND DETAILS SHT 2	0	04.06.21	KC						ISSUED FOR CONSTRUCTION

PROJECT APPROVAL	S. KLOSE	PREPARED BY	
DESIGN APPROVAL	S. KLOSE		
DESIGNED	K. CHANDRA		
CHECKED	K. CHANDRA		
DRAWN	S. CURRIE		

<b>HAVIERON PROJECT</b>		<input type="checkbox"/> C1 PROCEED, NO EXCEPTION TAKEN
LEVEL 11, 600 ST KILDA ROAD, MELBOURNE VIC 3004		<input type="checkbox"/> C2 PROCEED, WITH EXCEPTIONS AS NOTED AND RE-SUBMIT
PO BOX 6213, ST KILDA ROAD, MELBOURNE VIC 3004		<input type="checkbox"/> C3 DO NOT PROCEED; REVISE AS NOTED AND RE-SUBMIT
T+61 3 9522 5333 F+61 3 9525 2995		<input type="checkbox"/> C4 INFORMATION ONLY, ACCEPTED AS SUBMITTED.
NEWCREST OPERATIONS LIMITED		
MEMBER REPRESENTATIVES APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE CONTRACTORS ERRORS OR OMISSIONS OR COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT		
SIGNED	DATE	
AT/REV		

HAVIERON EVAPORATION PONDS HYPERSALINE PONDS CELL 3 SECTIONS AND DETAILS		NORTH
SCALE	A1 DWG No. 702-5440-CV-DDD-2306	
REV 1		