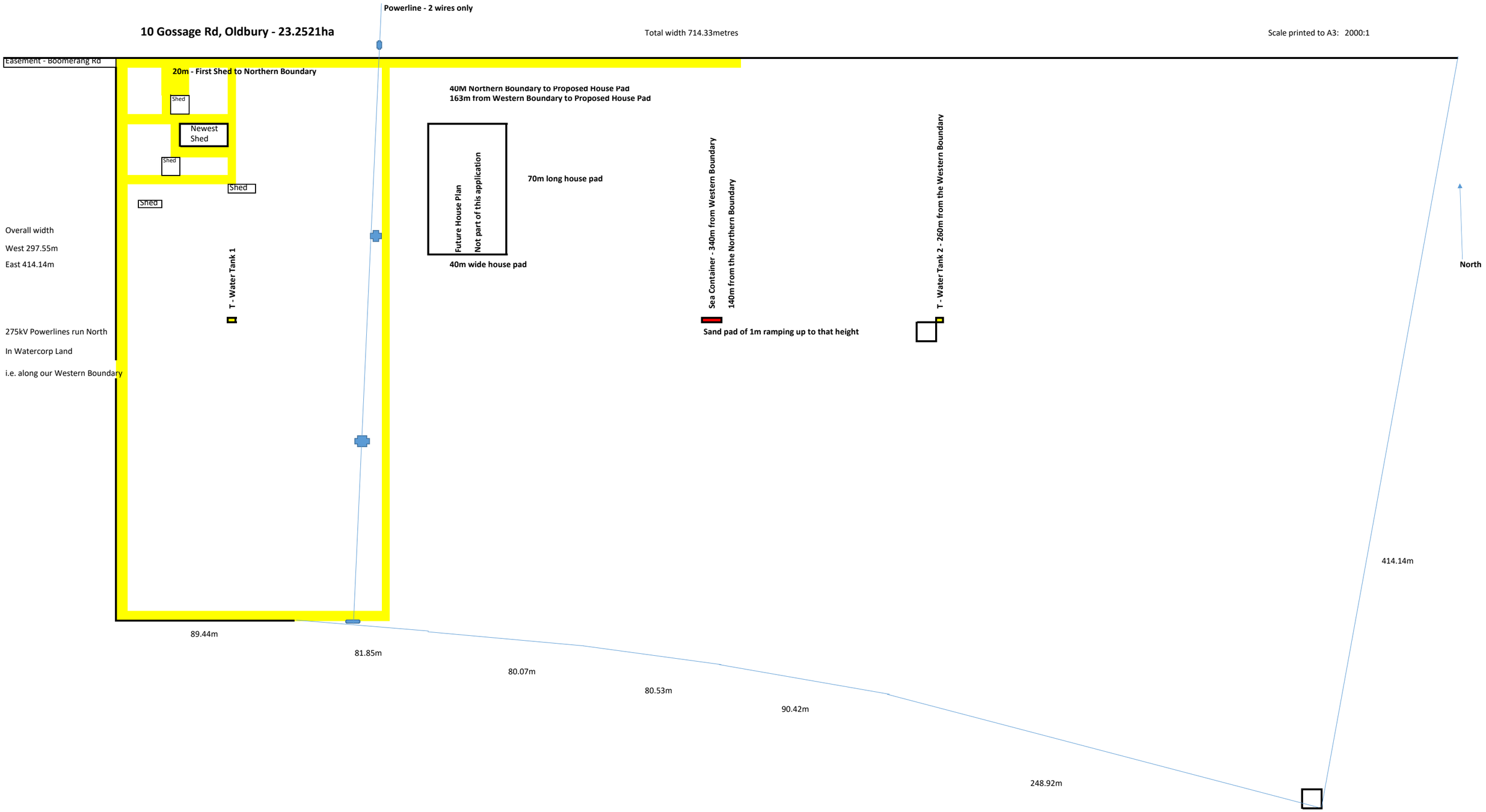
10 Gossage Rd, Oldbury - 23.2521ha

Total width 714.33metres

Scale printed to A3: 2000:1



EMISSION ASSESSMENTS
HAZARDOUS MATERIALS

U6 35 Sustainable Ave Bibra Lake WA 6163
p: 9494 2958 f: 9494 2959

Asbestos testing CERTIFICATE OF ANALYSIS
FIBRE IDENTIFICATION (Soils/Aggregate)

Job No.: HL2122-981 **Date of Report:** 28/10/2021 **Samples Taken by:** Client **Sample Received** 26/10/2021

Client: Capital Recycling, 19 Felspar St, Welshpool WA 6106 **Attention:** Paul Marinelli **Email:** paul@capitalperth.com.au

Client Reference: Postans – Road Base Production

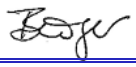
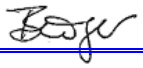
METHODOLOGY SUMMARY

Test Specification(s) Employed: In-House Test Procedure *LPH-01* based on *AS 4964-2004* and the analytical procedures and reporting recommendations in WA ***Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia - May 2009.*** Samples of material are examined to determine the presence of asbestos fibres using *AS4964 (2004)* & In-House Procedure *LPH-01* i.e. Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by **Polarised Light Microscopy** (**PLM**) in conjunction with **Dispersion Staining** (**DS**). Unequivocal identification of asbestos minerals present is made by assessing fibre properties to see whether the values are typical and consistent with published data. This provides a reasonable degree of certainty to determine whether a fibre under investigation is asbestiform or not. Careful application of the test procedure provides sufficient diagnostic clues to allow unequivocal identification of asbestos types, and so, to determine whether a sample contains asbestos or not. If sufficient diagnostic clues are absent, then positive identification of fibrous asbestos is not possible.

Sample No.	Sampling Date	Physical Structure	Sample Location	Asbestos Detected	Trace Analysis	Analysis of Fibrous Content	DoH Group	Est. Conc. (%)
P2728	23.10.2021	Road Base	Stockpile	No Asbestos found at LOR of 0.1g/kg	Respirable Fibres Not Detected	No Asbestos Detected	None	n/a
P2729	23.10.2021	Road Base	Stockpile	No Asbestos found at LOR of 0.1g/kg	Respirable Fibres Not Detected	No Asbestos Detected	None	n/a
P2730	23.10.2021	Road Base	Stockpile	No Asbestos found at LOR of 0.1g/kg	Respirable Fibres Not Detected	No Asbestos Detected	None	n/a
P2731	23.10.2021	Road Base	Stockpile	No Asbestos found at LOR of 0.1g/kg	Respirable Fibres Not Detected	No Asbestos Detected	None	n/a

Number of Samples: 4

Note: Reporting of concentrations *below* 0.01% w/w is outside the scope of our NATA Accreditation for Fibre Identification

Analyst Details	Name	Signature
Approved Identifier	Monika Bürger	
Approved Signatory	Monika Bürger	

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and national standards.

EMISSION ASSESSMENTS
HAZARDOUS MATERIALS

CERTIFICATE OF ANALYSIS
ASBESTOS FIBRE IDENTIFICATION
(Soils/Aggregate)

CLIENT SUPPLIED SAMPLES

EAPL is not responsible for the accuracy or competence of sampling carried by third parties. Sample location(s) and/or sample type(s) of third party samples delivered to the laboratory are given by the client at the time of delivery. Under these circumstances, EAPL cannot be held responsible for the interpretation of the results shown. EAPL takes responsibility of information reported only when an EAPL staff member takes the sample(s). Soil samples analysed by the requirements in ***Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia - May 2009*** must have a volume of 500ml or more.

REPORTING OF RESULTS

'Asbestos Detected': Asbestos detected by **Polarised Light Microscopy** (**PLM**), including **Dispersion Staining** (**DS**)

'No Asbestos Detected': No Asbestos detected by **PLM**, including **DS** reported as "**No Asbestos found at LOR of 0.1g/kg**"

'UMF Detected': Mineral fibres of unknown type detected by **PLM**, including **DS**. Confirmation by another independent analytical technique may be necessary

"Respirable Fibres Detected" or "**Respirable Fibres Not Detected**". **"Respirable Fibre"** or **"Free Asbestos Fibre"** is defined as a fibre that is >**5** µm long x <**3** µm wide

Limit of Detection (LOD) & Limit of Report (LOR)

Known limitations of the test procedure using **Polarised Light Microscopy** (**PLM**) are:

- **PLM** is a qualitative technique only;
- It does not cover identification of airborne or water-borne asbestos;
- The less encountered asbestos mineral fibres *actinolite*, *anthophyllite* and *tremolite* exhibit a wide range of optical properties that preclude unequivocal identification by **PLM** and **DS**. Thus, the method is used to positively identify the three major asbestos minerals: *amosite* ("brown"), *chrysotile* ("white") and *crocidolite* ("blue");
- Valid identification requires that the sample material contains a sufficient quantity of the unknown fibres in excess of the practical detection limit used (in this case, **PLM** and **DS**, which has a calculated practical detection limit of **0.01 - 0.1% w/w** equivalent to **0.1 - 1g/kg** (*AS4964-2004:App.A4*).
- **Limit of Reporting** (**LOR**) for ***asbestos-in-soil*** is **1,000 to 1 in 10,000** parts, *or* **0.1 to 0.01%,** *or* **1 to 0.1 g/kg** (*AS4964-2004:App.A4*).

NB: reporting of concentrations *below* 0.01% w/w is outside the scope of our NATA Accreditation for Fibre Identification

Results relate only to the sample(s) submitted for testing. Test report must not be reproduced except in full. Test report is consistent with the analytical procedures and reporting recommendations in ***Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia - May 2009***

Samples were sieved and the **>2mm** fraction analysed, and the **<2mm** fraction sub-sampled and analysed: Sub-Sample size will be **50g** unless otherwise stated.

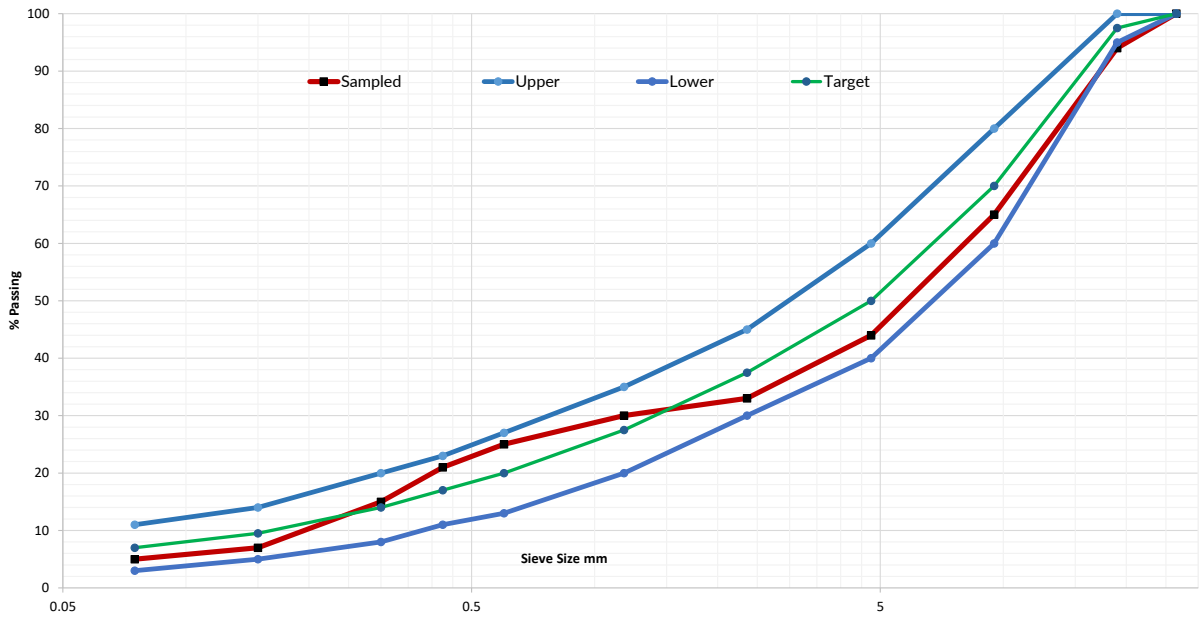
Estimated Asbestos Concentration is in relation to **0.001 %** weight for weight (w/w) asbestos for **Fibrous Asbestos** (**FA**) and **Asbestos Fines** (**AF**)

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and national standards.

Capital Recycling Roadbase Summary for October (Lot 2) 2021 - Sample LLS21/3683- Postans

LIQUIDLABSWA
CONSTRUCTION MATERIALS TESTING LABORATORY

Test	Sieve Size (mm)	Sampled	IPWEA/WALGA Specification for the supply of recycled road base.		
			Lower	Target	Upper
Particle Size Distribution - (WA 115.1)	37.50	100			
	26.50	100	100	100	100
	19.00	94	95	98	100
	9.50	65	60	70	80
	4.75	44	40	50	60
	2.36	33	30	38	45
	1.18	30	20	28	35
	0.600	25	13	20	27
	0.425	21	11	17	23
	0.300	15	8	14	20
	0.150	7	5	10	14
	0.075	5	3	7	11
	0.0135	3			



Test	Limits on Source Material Composition - T276 (RMS)		
Material	Class 1	Class 2	
	Maximum % by weight		
Crushed Recycle Concrete (CCRB)	95	95	58.2
Recycled Asphalt Pavement (RAP)	10	15	7.0
High Density clay brick & tile	10	15	20.4
High Density aggregates from roads etc.	25	100	13.9
Low Density materials (plastic, plaster, etc.)	1	2	0.0
Organic Matter (Wood etc.)	1	1	0.0
Unacceptable High density material (metals, glass, ceramics > 4mm)	2	3	0.5

Linear Shrinkage (WA 123.1)			Unconfined Compressive Strength (WA 143.1)			
Linear Shrinkage	Class 1 & 2		Unconfined Compressive Strength		Class 1 & 2	
Base (%)	0.2 - 1.5	0.5	Base (kPa)		200 - 1000	NT
Subbase (%)	0.2 - 4.0		Subbase (kPa)		200 - 2000	
Los Angeles abrasion coarse aggregate (WA 220.1)			Los Angeles abrasion loss (%)		Class 1 / Class 2	
					<40 / <42	NT
California Bearing Ratio (WA 141.1)			Californian Bearing Ratio (CBR) (%)	Class 1 (98% MDD, 100% OMC)	Class 2 (98% MDD, 100% OMC)	150%
				>100	>100	

Comments: N/A - Not Applicable

LIQUIDLABSWA
CONSTRUCTION MATERIALS TESTING LABORATORY

Liquid Labs WA
ABN: 84 608 927 822
Carlisle Base Laboratory
16B/81 Briggs Street
Carlisle WA 6101
(08) 9472 3349
admin@liquidlabswa.com.au

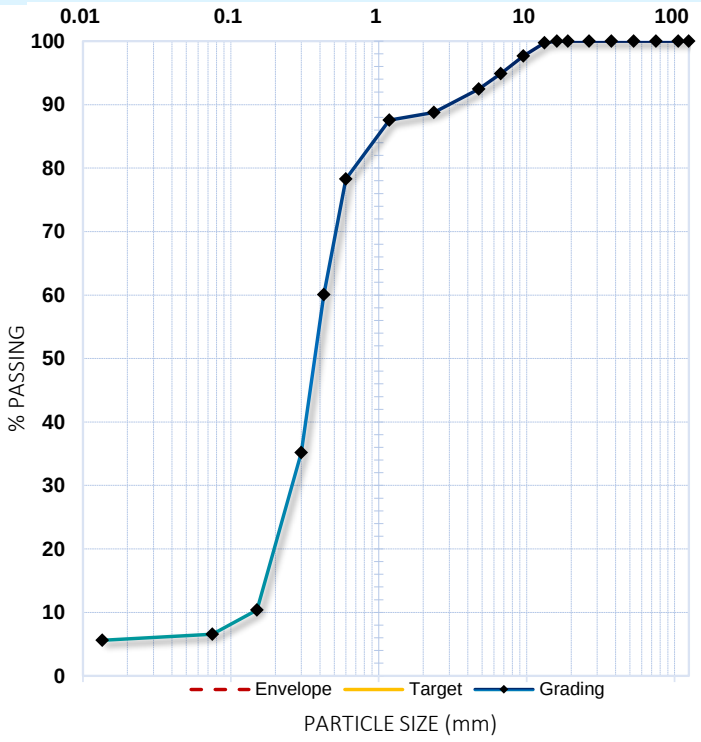
TEST REPORT

PARTICLE SIZE DISTRIBUTION & CONSISTENCY LIMITS

WA 115.1

Client	**Capital Recycling**	Report No.	**LLS21/3684_1_PSD-CL**
Client Address	**19 Felspar Street Welshpool, WA 6106**	Ticket No.	**S5059**
Project	**Monthly QA/QC - October 2021 - LOT 2 (Requested 08.10.2021)**	Sample No.	**LLS21/3684**
Project Location	**Postans, WA**	Client Reference	**OCT - LOT 2**
Sampling Location	**Postans Recycling Station**	Date Sampled	**12/10/2021**
Sample Identification	**Sample 2 - Postans Sand**	Sampled By	**HB**
Sampling Method	**WA 100.1-6.2: Stockpiled Materials**	Preparation Method	**WA 105.1**
Sample Description	**Sand**	Date Tested	**14/10/2021**
Notes	-	Tested By	**JB**

PARTICLE SIZE DISTRIBUTION CHART



Specification Name

Sieve Size (mm)	Passing (%)	Minimum (%)	Maximum (%)
125.00	100	-	-
106.00	100	-	-
75.00	100	-	-
53.00	100	-	-
37.50	100	-	-
26.50	100	-	-
19.00	100	-	-
16.00	100	-	-
13.20	100	-	-
9.50	98	-	-
6.70	95	-	-
4.75	92	-	-
2.36	89	-	-
1.180	88	-	-
0.600	78	-	-
0.425	60	-	-
0.300	35	-	-
0.150	10	-	-
0.075	7	-	-
0.0135	6	-	-

CONSISTENCY LIMITS

WA 120.2	WA 121.1	WA 122.1	WA 123.1			
Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Linear Shrinkage (%)	Moisture Content (%)	Mould Length (mm)	Condition of Dried Specimen
			0.0	26.8	250	-

Comments: **NO - Not Obtainable; NP - Non-Plastic; NT - Not Tested**

NATA ACCREDITED FOR TECHNICAL COMPETENCE

Accredited for compliance with ISO/IEC 17025 - Testing

Accreditation No. 19872, Site No. 23230

Approved Signatory

Name Bryce Slinn
Function Laboratory Supervisor
Issue Date 21-October-2021

Liquid Labs WA
08 94723349
16B/81 Briggs Street
Carlisle, WA 6101

ORGANIC CONTENT - TEST REPORT

ASTM D 2974-14 - TEST METHOD C

Client	**Capital Recycling**	Ticket No.	**S5059**
Client Address	**19 Felspar Street Welshpool, WA 6106**	Report No.	**LLS21/3684_1_ORG**
Project	**Monthly QA/QC - October 2021 - LOT 2 (Requested 08.10.2021)**	Sample No.	**LLS21/3684**
Location	**Postans Recycling Station**	Sampled By	**LLWA**
Sample Identification	**Various - See Below.**	Date Tested	**14/10/2021**
Preparation Method	**ASTM D 2974-14**	Tested By	**KH**
Sampling Method:	**WA 100.1-6.2: Stockpiled Materials**	Furnance Temperature (°)	**460**

LOSS ON IGNITION METHOD

Sample Number	Sample ID	Ash Content (%)	Organic Content (%)
LLS21/3684	Sample 2 - Postans Sand	**99.1**	**0.9**

Comments:

NATA WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025 - Testing
Accreditation No. 19872

Approved Signatory
Name Bryce Slinn
Function Laboratory Superviso
Issue Date 21-October-2021

Liquid Labs WA
08 94723349
16B/81 Briggs Street
Carlisle, WA 6101

DRY DENSITY & MOISTURE CONTENT RELATION OF SOIL TEST REPORT

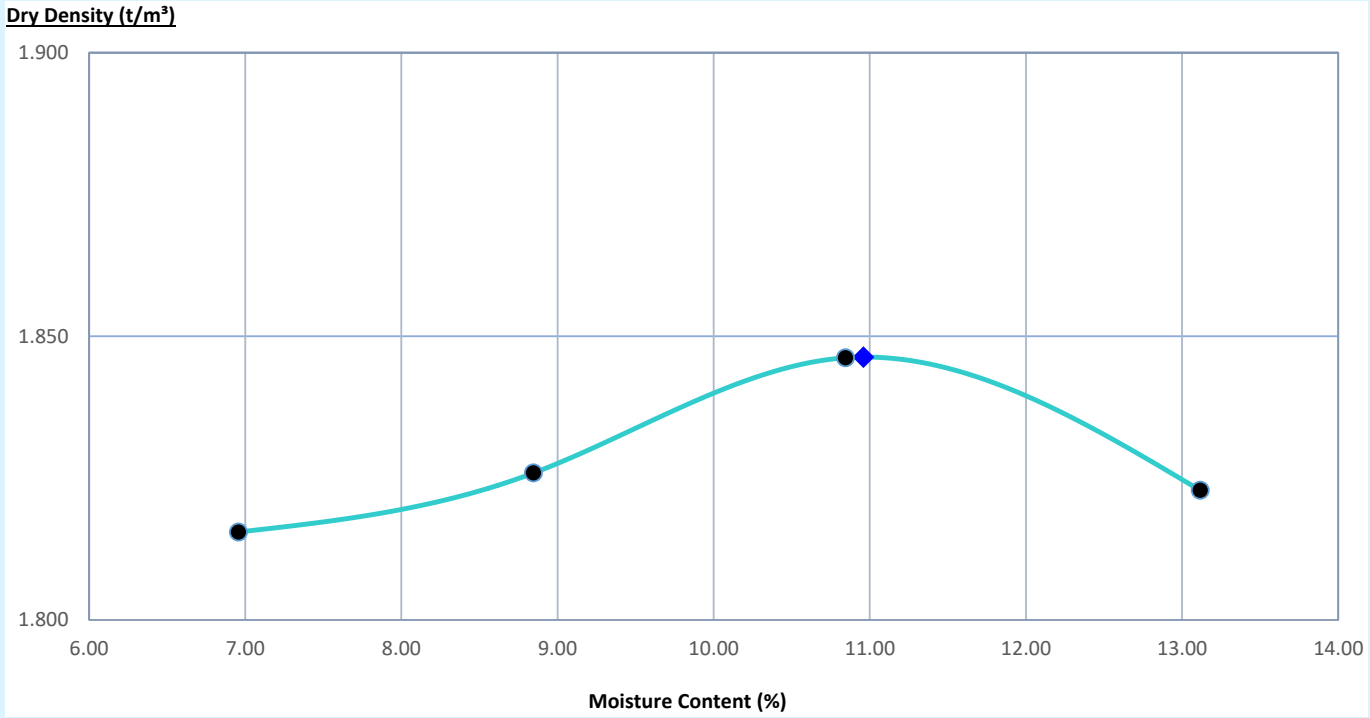
WA 115.2, 133.1

Client	**Capital Recycling**	Ticket No.	**S5059**
Client Address	**19 Felspar Street Welshpool, WA 6106**	Report No.	**LLS21/3684_1_MMDD**
Project	**Monthly QA/QC - October 2021 - LOT 2 (Requested 08.10.2021)**	Sample No.	**LLS21/3684**
Sampling Location	**Postans Recycling Station**	Date Sampled	**12/10/2021**
Sample Identification	**Sample 2 - Postans Sand**	Date Tested	**13/10/2021**
Sampling Method	**WA 100.1-6.2: Stockpiled Materials**	Preparation Method	**WA 105.1**
		Sample Curing Time	**2**

WA 115.2	**Oversize Material**
Retained 19.0mm (%)	**0**
Retained 37.5mm (%)	**0**

WA 133.1, 110.1	**Laboratory Moisture & Density Results**				
Moisture Content (%)	**7.0**	**8.8**	**10.8**	**13.1**	
Dry Density (t/m³)	**1.816**	**1.826**	**1.846**	**1.823**	

Plot: Dry Density vs. Moisture Content



Modified Maximum Dry Density (t/m³)	**1.846**
Modified Optimum Moisture Content (%	**11.0**

Comments:

Approved Signatory:

Name: Bryce Slinn
Function: Laboratory Supervisor
Date: 14-October-2021

NATA WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025 - Testing

Accreditation No. 19872

LIQUIDLABSWA
CONSTRUCTION MATERIALS TESTING LABORATORY

Liquid Labs WA
08 94723349
16B/81 Briggs Street
Carlisle, WA 6101

CALIFORNIA BEARING RATIO TEST REPORT

WA 110.1, WA 141.1

Client	**Capital Recycling**	Ticket No.	**S5059**
Client Address	**19 Felspar Street Welshpool, WA 6106**	Report No.	**LLS21/3684_1_SCBR**
Project	**Monthly QA/QC - October 2021 - LOT 2 (Requested 08.10.2021)**	Sample No.	**LLS21/3684**
Sampling Location	**Postans Recycling Station**	Sampled By	**HB**
Sample Identification	**Sample 2 - Postans Sand**	Sample Description	**Sand**
Date Sampled	**12/10/2021**	Date Tested	**19/10/2021**
Sampling Method:	**WA 100.1-6.2: Stockpiled Materials‡**	Preparation Method	**WA 105.1**

Compaction Details

Compaction Method	**WA 133.1**	Rammer Type	**Modified**
Number of Layers	**5**	Mass of Rammer (kg)	**4.9**
% Retained 19.0mm	**0**	Blows per Layer	**9**
Liquid Limit Determined by:	**Estimated**	Curing Time (Hrs)	**2.5**
Maximum Dry Density (t/m^3)	**1.846**	Optimum Moisture (%)	**11.0**
Desired Dry Density Ratio (%)	**95.0**	Desired Moisture Ratio (%)	**100.0**

Specimen Conditions At Compaction

Dry Density (t/m3)	**1.755**	Moisture Content (%)	**10.9**
Density Ratio (%)	**95.1**	Moisture Ratio (%)	**98.9**

Specimen Conditions After Soak

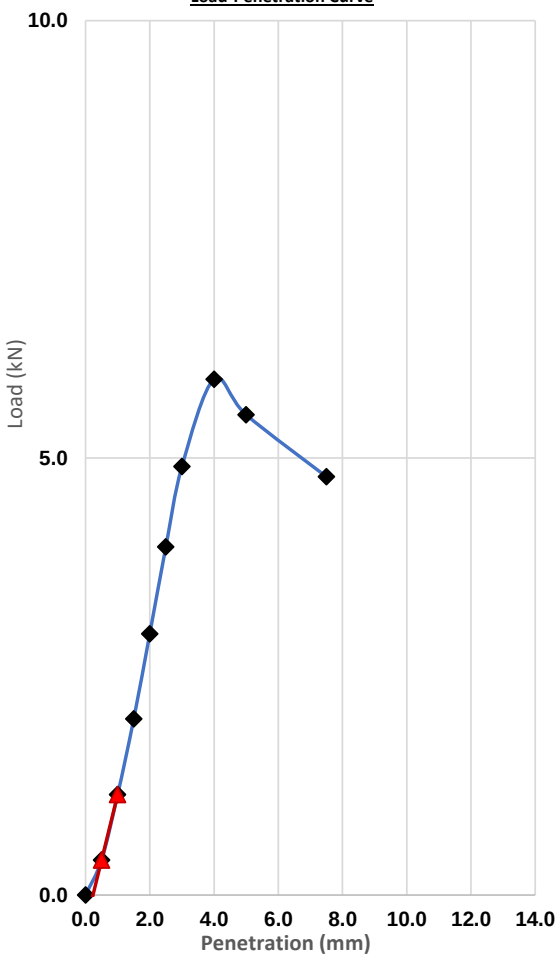
Soaked or Unsoaked	**Soaked**	Soaking Period (days)	**4**
Surcharges Applied (kg)	**4.50**	Measured Swell (%)	**0.0**
Dry Density (t/m³)	**1.756**	Dry Density Ratio (%)	**95.1**
Moisture Content (%)	**17.0**	Moisture Ratio (%)	**154.8**

Specimen Conditions After Test

Top 30mm Moisture (%)	**14.6**	Moisture Ratio (%)	**132.4**
Remaining Depth (%)	**15.4**	Moisture Ratio (%)	**140.2**

California Bearing Ratio (CBR)	**35%**
Determined at a Penetration of	**2.5mm**
Correction applied to Penetration	**0.2mm**

Load-Penetration Curve



Comments:

NATA
WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025 - Testing

Accreditation No. 19872

Approved Signatory

Name Bryce Slinn

Function Laboratory Supervisor

Issue Date 21-October-2021

‡ NATA Accreditation does not cover the performance of this service

ENVIRONNIVATE

5 October 2022

Malcolm Field
Lot 10 Gossage Rd
OLDBURY WA 6121

Our ref: C0123_Gossage Rd_R01v01

Dear Malcolm,

Lot 10 Gossage Rd, Oldbury: Review of Surface Water Management for Upgraded Firebreak

A site inspection of the property was completed on Friday 30 September 2022, focused on the surface water flow regime along the western boundary of Lot 10, in particular the two locations marked on Figure 1 attached, namely:

1. The northern dam
2. The southern drain crossing.

The following observations were made:

Southern drain crossing

- The southern drain was quite full with similar water levels observed either side of the firebreak crossing. Due to a lack of hydraulic head flow was relatively low.

Northern dam

- The finished level of the firebreak adjacent to the northern dam ties in with the ground level of the existing boundary fence, with only a minor lip of approximately 100 mm (see Plate 2 attached).
- The ground slopes up from the western boundary through the Water Corporation reserve and is at least 1m higher on the other side of the reserve (see Plate 3 attached).
- The Water Corporation reserve is dry, with only a very minor area of standing water on the fence line.
- Any water flowing from west to east will flow over the firebreak. The fire break is lower than the land to the west and the firebreak will not cause any more than 100 mm of ponding at the fence line before water will flow over the firebreak.
- The dam fills from a drain connection to the east. The firebreak at its current level helps to contain the water and prevent it from overtopping into the Water Corporation reserve.

Recommendations

Based on my observations I recommend that no further work is required to the firebreak for surface water management. The basis of this recommendation is that:

- The southern drain provides more of a storage function than a water conveyance function. Once the drain fills up flow is relatively low, and the culvert crossing at the firebreak acts as a balance pipe. The two 375 mm diameter pipes installed have sufficient capacity for this function.
- The northern dam is contained by the firebreak and there is no risk of the land west of the firebreak flooding due to the elevation of the land. Any flow emanating from the western property can flow over the firebreak.

Yours sincerely,

Scott Wills
Principal Hydrologist
ENVIRONNIVATE

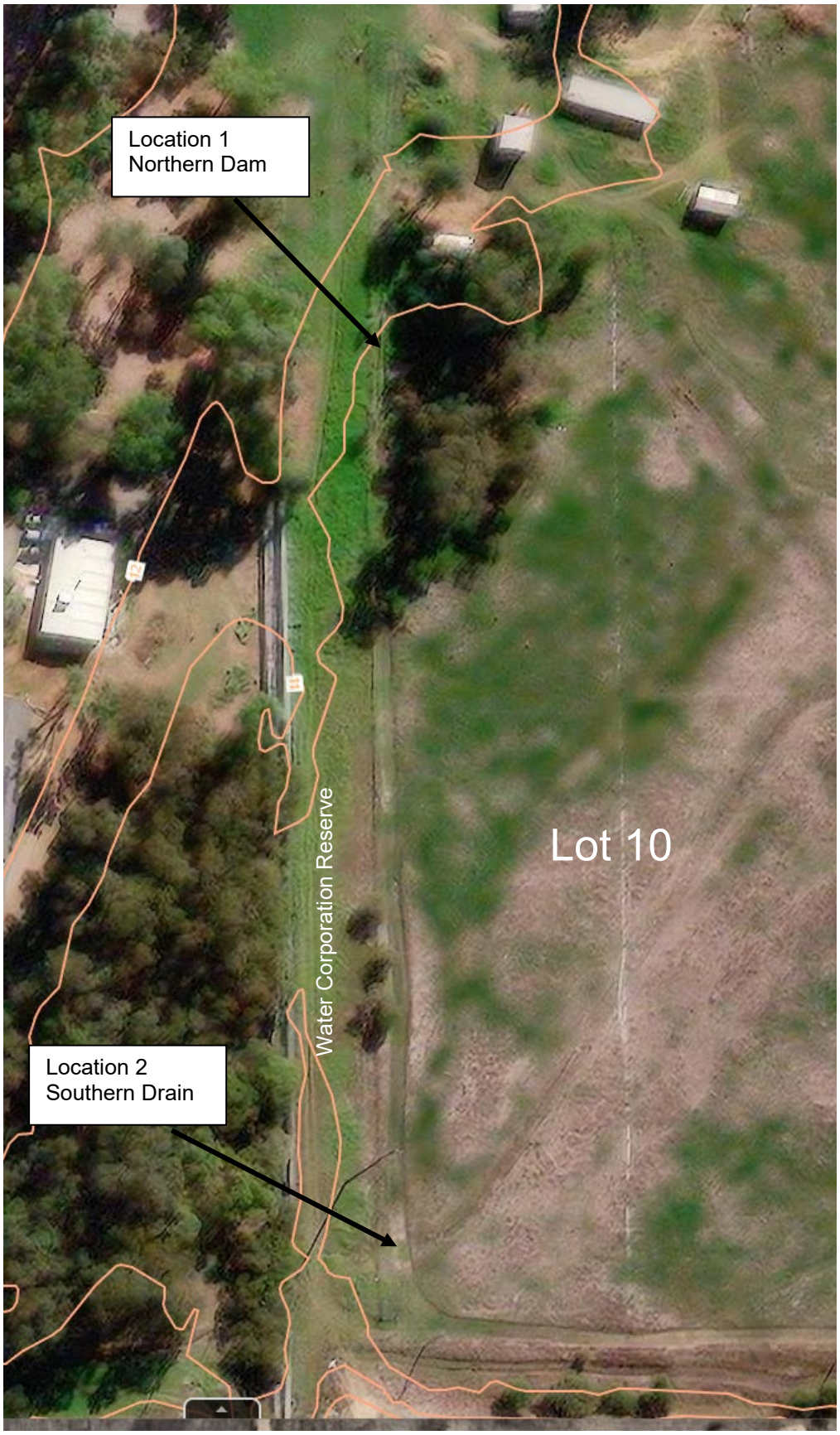


FIGURE 1. INSPECTION LOCATIONS

PLATES

Plate 1. Looking east towards northern dam from Water Corporation reserve.

Plate 2. Firebreak finish level relative to existing fence line.

Plate 3. Looking south-east across Water Corporation reserve towards northern dam. Ground is falling towards dam.