



Geo-Logix
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29 July 2020

Mr Michal Rumble
Fabcot Pty Ltd
1 Woolworths Way
Bella Vista NSW 2153

SUBJECT: Groundwater Monitoring Event

SITE: 11-13 Percy Street, Auburn NSW

Dear Michael,

Geo-Logix Pty Ltd (Geo-Logix) was engaged by Fabcot Pty Ltd (Fabcot) to complete a program of monitoring, sampling, and analysis of groundwater at 11 – 13 Percy Street, Auburn, NSW 2144 (Figure 1) Fabcot intends to redevelop the site as a Customer Fulfilment Centre (CFC), comprising a single storey warehouse and distribution centre for online sales. Under the proposed development the western portion of the building would be constructed as slab on grade, and the eastern portion as suspended slab above the floodway area of the adjacent Haslams Creek.

Geo-Logix completed a Detailed Site Investigation of the site in mid 2019 to evaluate the suitability of the site for the proposed development. The investigation identified trichloroethene (TCE) and its degradant products cis-1,2-dichloroethene (DCE) and vinyl chloride (VC) in shallow groundwater across the eastern and northern portion of the site. The extent of impacted groundwater was defined laterally by wells on the neighbouring down gradient property 15 Percy Street, and vertically through deeper wells installed in the underlying bedrock groundwater unit.

Under the proposed development, TCE, DCE and VC impacted groundwater was not considered to present a condition requiring remediation. The objective of the groundwater monitoring event was to evaluate current groundwater contaminant conditions to confirm the findings of the Geo-Logix (2019) DSI Report.

SITE DESCRIPTION

The site comprises two rectangular shaped lots encompassing an area of approximately 3.25 hectares (Ha). The Lots are bound by Percy Street to the northwest, Haslams Creek to the southeast and commercial/ industrial on adjacent properties. At the time of the investigation (Geo-Logix 2019), the western half of the site (Lot 1) was occupied by Chameleon Touring Systems, a stage lighting and equipment supplier and the eastern half of the site (Lot 2) was occupied by a Holden vehicle accessories and auto detailing service centre.

The site is underlain by two groundwater bearing units: a shallow unconfined aquifer within the alluvial deposits of the former Haslams Creek and a deeper semi-confined aquifer within bedrock shale deposits. Groundwater flow within the alluvium is recorded as variable with an inferred flow direction to the north and northeast. The deeper aquifer is also inferred as flowing to the northeast and is not

considered to be in hydraulic connectivity with the overlying alluvial groundwater. Further discussion of the hydrochemical facies of each groundwater unit is discussed In Geol-Logix DSI Report (2019).

The monitoring well network is made up of a total of 28 wells: 20 alluvial groundwater monitoring wells (MW101 to MW121) and five bedrock groundwater monitoring wells (MW201 to MW205) installed as part of the recent works by Geo-Logix and three shallow groundwater wells (GW1, GW2 and GW04) installed as part of an investigation by WSP in 2012. A summary of the current groundwater monitoring network is presented in the table below and illustrated in Figure 2.

Area	Well ID	TOC elevation (mAHD)	Total well depth (mbgl)	Screened Interval (mbgl)	Comments
Alluvium water bearing unit					
Onsite wells (11-13 Percy Street)	MW101	6.772	7.7	4.7-7.7	
	MW102	5.836	5.2	2.2-5.2	
	MW103	4.532	4.0	1.0-4.0	
	MW104	4.372	4.0	1.0-4.0	
	MW106	4.602	4.0	1.0-4.0	
	MW107	7.173	4.0	1.0-4.0	
	MW108	7.070	4.0	1.0-4.0	
	MW109	6.964	4.0	1.0-4.0	
	MW110	7.230	4.5	1.5-4.5	
	MW111	5.853	5.0	2.0-5.0	
	MW112	5.130	5.0	1.0-4.0	
	MW113	7.240	5.8	2.8-5.8	
	MW114	7.250	5.8	2.8-5.8	
	MW115	4.400	3.5	0.5-3.5	
	MW116	4.300	3.5	0.5-3.5	
Offsite wells (13 Percy Street)	MW117	4.590	6.0	3.0-6.0	
	MW118	5.360	4.2	1.2-4.2	
	MW119	5.380	4.5	1.5-4.5	
	MW120	5.530	6.0	3.0-6.0	
	MW121	6.740	6.5	3.5-6.5	
WSP 2012	GW1	7.021	4.5	1.5-4.5	
	GW2	7.074	4.0	1.0-4.0	
	GW04	4.864	4.0	1.0-4.0	
Bedrock water bearing unit					
Onsite wells (11-13 Percy Street)	MW201	5.750	12.0	8.711-7	Paired with MW102
	MW202	4.950	14.0	11.0-14.0	Paired with GW04
	MW203	7.010	11.8	10.0-11.8	Paired with MW108
Offsite wells (13 Percy Street)	MW204	4.580	12.0	9.0-12.0	Paired with MW117
	MW205	5.370	13.5	10.5-13.5	Paired with MW119

SCOPE OF WORKS

Field sampling was completed by Geo-Logix between 27 and 29 May 2020 and comprised:

- Gauging and sampling of groundwater wells using low flow sampling methods;
- Analysis of groundwater sampled for identified contaminants of concern, including Total Recoverable Hydrocarbons (TRH) and Volatile Organic Carbons (VOCs) including TCE, cis-1,2-DCE and VC.

METHODOLOGY

Groundwater gauging and sampling

Groundwater wells were sampled over a period of three consecutive days by suitably experienced Geo-Logix personnel using calibrated water quality meter and peristaltic low-flow pump. Copies of calibration certificates are available in Attachment A.

Prior to purging and sampling an interface probe was used to measure the static water level (SWL) in each bore and any non-aqueous phase liquid (NAPL), including thickness.

Groundwater samples were collected by dedicating ¼" LDPE tubing into each well. The LDPE tubing was connected to disposable silicon tubing that runs through a peristaltic pump. The peristaltic pump was set to very low flow rates to reduce sample turbidity. During well purging water parameters including pH, dissolved oxygen, turbidity, conductivity, redox and temperature were measured. Groundwater samples were collected when water quality parameters and head elevation stabilised. Where the stabilisation of head elevation was unable to be achieved due to low groundwater recharge, groundwater samples were collected upon stabilisation of water quality parameters.

Field chemistry notes are included in Attachment B.

Groundwater samples were collected in HCL preserved 40 mL vials and 0.25 litre unpreserved amber glass bottles. Samples were labelled, placed on ice in an esky and transported under chain of custody to Eurofins, a NATA Accredited Laboratory.

Quality Control procedures included decontaminating sampling equipment with a solution of Decon 90 and deionised water and rinsing with water between each sampling location. Disposable gloves were changed between each sampling location.

Quality Assurance

Quality control (QC) sampling was undertaken in general accordance with specifications outlined in AS4482.1, *Guide to Sampling and Investigation of Potentially Contaminated Soil*. Field QC samples were collected and summarised below.

Sample Identification	Sample Type	Sample Matrix	Rate of Collection
D1	Field duplicate of MW203	Water	1 in 14 samples
T1	Field triplicate of MW203	Water	1 in 14 samples
D2	Field duplicate of MW205	Water	1 in 14 samples
T2	Field triplicate of MW205	Water	1 in 14 samples
R1	Equipment Rinsate	Water	1 per day of sampling
R2	Equipment Rinsate	Water	1 per day of sampling

The laboratory internal QC procedures are consistent with NEPM policy on laboratory analysis of contaminated waters.

GROUNDWATER ASSESSMENT CRITERIA

Groundwater assessment criteria was defined in the recent detailed site investigation. For continuity, analytical results have been compared against the same criteria, outlined below.

NEPM Health Screening Levels D (HSLs D)

HSLs are Tier 1 risk based generic groundwater assessment criteria used for the assessment of potential risks to human health from chronic inhalation exposure of petroleum vapours emanating from petroleum contaminated groundwater (vapour risk). They are intentionally conservative and based on a reasonable worst-case scenario for generic soil types, contamination depth and land use settings including Residential (HSLs A/B), Open Space/Recreational (HSLs C) and Commercial Industrial (HSLs D).

Groundwater HSLs D for sand geology and depths 2 - <4 m was conservatively adopted on the basis groundwater was encountered at a maximum depth of 3.3 metres below ground (mbg) in variable geology.

ANZG (2018) Guidelines for Fresh and Marine Quality

Trigger values are adopted from ANZECC 2000 Guidelines for Fresh and Marine Water Quality. They are not acceptance criteria they are used as trigger values for further consideration of groundwater contamination when exceeded. Where available, Freshwater and Marine water Quality trigger values for 95% level of species protection were applied given the nearest point of groundwater discharge was Haslams Creek which flows north along the southeast boundary of the site and discharges into Homebush Bay approximately 0.8 km northeast.

Australian Drinking Water Guidelines (ADWG)

While groundwater is not being accessed for domestic use in proximity to the site, the Australian Drinking Water Guidelines were conservatively considered.

US EPA Regional Screening Levels

The ADWG does not include criteria for TCE. The most appropriate criteria is the tap water guideline from US EPA RSLs (USEPA, 2018), which is a health-based guideline utilising current toxicity information on TCE. The RSL for the lowest of the threshold and non-threshold criteria for a 1×10^{-6} risk has been adopted.

RESULTS

Groundwater Flow Characteristics

Groundwater was recorded at depths of between 0.34 and 3.315 mBGL (TOC) within the alluvium and between 0.49 and 2.28 mBGL in bedrock groundwater. Figure 3 and Figure 4 illustrate static water level (SWL) and inferred groundwater flow direction for shallow (alluvium) and deep (bedrock) groundwater respectively. Groundwater flow is similar to that reported previously, flow is inferred towards the northeast within the shallow alluvial aquifer and to the north within the deeper bedrock aquifer.

Average groundwater field chemistry values recorded during the recent groundwater monitoring event are summarised in the table below **Error! Reference source not found..** A comprehensive summary of field chemistry (**Error! Reference source not found.**) along with field data sheets are included at the back of this report.

Average Water Quality Values	Shallow Groundwater (Alluvium)	Deep Groundwater (Bedrock)
Electrical Conductivity (mS/cm)	59.4	50.2
pH	6.6	6.4
Redox (mV)	58.5	12.1
Dissolved Oxygen (mg/L)	17.2	5.2
Temperature (oC)	21.1	21.0

Groundwater quality at the site does not meet Australian Drinking Water Guidelines (NHMRC, 2011) with respect to TDS and pH and is generally too saline for irrigation of crops and watering livestock (ANZECC, 2000). Water quality characteristics indicate groundwater at the site is of limited beneficial use. The results are consistent with previous findings.

Analytical Results

TRH C₆-C₁₀ was detected at concentrations greater than vapour intrusion assessment criteria in groundwater sample MW102. TRH was not detected at elevated concentrations in all other groundwater samples analysed (Table 1).

The triplicate sample T2 recorded a concentration of benzene of 2µg/L, above the drinking water criteria of 1µg/L, whilst the corresponding primary sample (MW205) recorded a concentration at the drinking water limit (1µg/L).

Very low concentration of ethylbenzene was recorded at MW107(1µg/L), MW13 (4µg/L) MW117 (1µg/L).

TCE was detected at concentrations above low reliability freshwater protection criteria in groundwater sample MW102 and at concentrations greater than USEPA tap water criteria groundwater samples MW102, MW111 and GW04 (Table 2).

cis-1,2-DCE was detected at concentrations above drinking water GILs in groundwater samples MW102, MW104 and GW04.

VC was detected at concentrations above drinking water GILs in groundwater samples MW102, MW104, and GW04 and above freshwater GILs in groundwater sample GW04.

TCE, cis-1,2-DCE and VC were not detected in groundwater samples collected from off-site groundwater wells or on and off-site bedrock groundwater wells.

Laboratory reports are included in Attachment C.

QA/QC Assessment

Water duplicate/ triplicate results are within the adopted acceptance criteria of 30-50% (AS4482.1) relative percent difference (RPD). Geo-Logix accepts the integrity of the analytical data.

VOCs were not detected in the rinsate samples, confirming decontamination measures were adequate to prevent cross contamination.

A summary of Laboratory QA/QC data is presented on the following table.

Report #	Analysis Within Holding Time	Surrogate Recovery	Lab. Duplicate RPD %	Lab. Matrix Spike Recovery	Lab. Control Sample	Lab. Method Blank
723066-W	✓	✓	✓	✓	✓	✓
723567-W	✓	✓	✓	✓	✓	✓
723067-W	✓	✓	✓	✓	✓	✓
724501-W	✓	✓	✓	✓	✓	✓
✓ = Pass X = Fail (See Below)						
Quality Assurance Criteria			Quality Control Criteria			
Holding Times			Accuracy			
VOCs 7 days water TRH 7 days, water			Matrix spike, control sample 70-130% and 30-130% Surrogate recovery 50-150%			
			Precision			
			Method Blank - Not detected Duplicate - No limit (<10xEQL), 0-50% (10-20xEQL), 0-200% (>20xEQL)			

DISCUSSION AND CONCLUSION

Comparison of groundwater contaminant concentrations from this sampling event have been compared against historical data to evaluate potential for worsening conditions or otherwise at the site. It should be noted that there is insufficient data to undertake formal trend analysis of contaminant concentrations.

Total Recoverable Hydrocarbons

Comparison of TRH (C₆-C₁₀) concentration in groundwater samples from the recent monitoring event against those from the 2019 investigation indicate comparable concentrations between the two events. A comparison is presented on the following table:

Analyte	Sample ID	Concentration (µg/L)	
		May 2020	05 and 06/06/2019
TRH (F1)	MW111	50	40
	GW01	ND	30
	MW102	12,000	13,000
	MW104	260	170
	GW02	70	80
	GW04	1,200	1,400

It is evident that TRH analysis is identifying chlorinated ethenes (TCE, DCE, VC) in groundwater.

Volatile Organic Compounds

TCE, cis-1,2-DCE and VC concentrations from the current investigation and various sampling events completed in 2019 is presented in the following table. With the exception of cis-1,2-DCE in sample MW102 collected during this investigation, there is no evidence of worsening groundwater contaminant conditions. The results are generally comparable and display variation typical of environmental contamination data.

Analyte	ID	Concentration (µg/L)					
		May 2020	27/09/2019	26/08/2019	20/08/2019	18/06/2019	5/06/2019
Trichloroethene (TCE)	GW04	240 ^d	170 ^d	-	-	280 ^d	310 ^d
	MW102	8,500 ^b	5,500 ^b	2,800 ^b	-	6,100 ^b	8,300 ^b
	MW104	ND	ND	-	ND	-	ND
	MW111	13 ^d	-	-	11 ^d	-	13 ^d
cis-1,2-dichloroethene (DCE)	GW04	530	380	-	-	910	1,300
	MW102	4,600	1,200	1,000	-	1,900	2,000
	MW104	170	-	-	160	-	170
	MW111	25	-	-	22	-	24
Vinyl Chloride (VC)	GW04	340 ^b	160 ^b	-	-	410 ^b	680 ^b
	MW102	72 ^a	33 ^a	ND	-	ND	ND
	MW104	29 ^a	-	-	22 ^a	-	26 ^a
	MW111	ND	-	-	7 ^a	-	9 ^a

Notes:

^aHSL-D, ^bFreshwater 95%, ^cMarine 95%, ^dDrinking water

ND = Non-detect.

"-" = no sample taken on this date.

A longer temporal dataset is available for well GW04 as it was sampled by WSP in 2012. Comparison of TCE, cis-1,2-DCE and VC in groundwater at GW04 from 2012, 2019 (maximum detected) and May 2020 is presented in the table below.

Analyte	GW04 Contaminant Concentration (ug/L)		
	WSP (2012)	Geo-Logix (2019)	Geo-Logix (2020)
TCE	1,200	310	240
DCE	1,200	1,300	530
VC	950	410	340
Total TCE / DCE / VC	3,350	2,020	1,110

The results show a decreasing concentration trend for all three analytes, continued breakdown of TCE to cis-1,2-DCE and VC and an overall reduction in contaminant mass.

With the exception of cis-1,2-DCE in groundwater sample MW102, the results of the groundwater investigation did not find any evidence of worsening groundwater contaminant conditions. The absence of increasing TCE concentrations in groundwater across the site suggests the cis-1,2-DCE increase is attributed to natural variation, and not from an increasing mass of contaminant in groundwater.

The absence of increasing TCE concentrations and the demonstration of continued degradation of TCE and its breakdown products in groundwater beneath the site confirms the findings of the DSI report. No remediation of groundwater or on-going groundwater monitoring is considered warranted under the proposed Fabcot development.

Please do not hesitate to contact Geo-Logix directly (02) 9979 1722 should you require further information.

Yours sincerely,



Elin Griffiths
BSc (Hons), MSc
Senior Hydrogeologist



Ben Pearce
BSc (Hons), CEnvP#321
Principal



FIGURES

Figure 1: Site Vicinity Map

Figure 2: Groundwater Well Locations

Figure 3: Static Water Levels and Inferred Groundwater Flow Direction, Shallow, May 2020

Figure 4: Static Water Levels and Inferred Groundwater Flow Direction, Deep, May 2020

TABLES

Table 1: Summary of Groundwater Analytical Data – Petroleum Hydrocarbons

Table 2: Summary of Groundwater Analytical Data – Volatile Organic Compounds

ATTACHMENTS

Attachment A: Calibration Certificates

Attachment B – Groundwater Sample Logs and Field Chemistry Results

Attachment C – Laboratory Certificates and Chain of Custody

REFERENCES

Australian Standard (2005) AS 4482.1-2005 Guide to the investigation and sampling of sites with potentially contaminated soil. Part 1: Volatile and Semi-volatile compounds. Standards Australia.

Australian Standard (2005) AS 4482.2-1999 Guide to the investigation and sampling of sites with potentially contaminated soil. Part 2: Volatile substances. Standards Australia.

Geo-Logix (2019), *Detailed Site Investigation, 11-13 Percy Street*, report 1901048Rpt01FinalV02_22Nov19.

NEPC (1999, Amended) National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013), National Environment Protection Council, April 2013.

US EPA, 2018, *Regional Screening Levels*, <https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>, last accessed 21 July 2020.

LIMITATIONS

This report sets out the findings of a groundwater investigation by Geo-Logix.

This report should be read in full, and no conclusion or other section of the report may be used or relied on in isolation, or taken as representative of the report as a whole. No responsibility is accepted by Geo-Logix, and any duty of care that may arise but for this statement is excluded, in relation to any use of any part of this report other than on this basis.

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Geo-Logix assumes no responsibility in respect of any changes in the condition of the Site which have occurred since the time when Geo-Logix gathered data and/or took samples from the Site on its groundwater investigations dated **27 to 29 May 2020**.

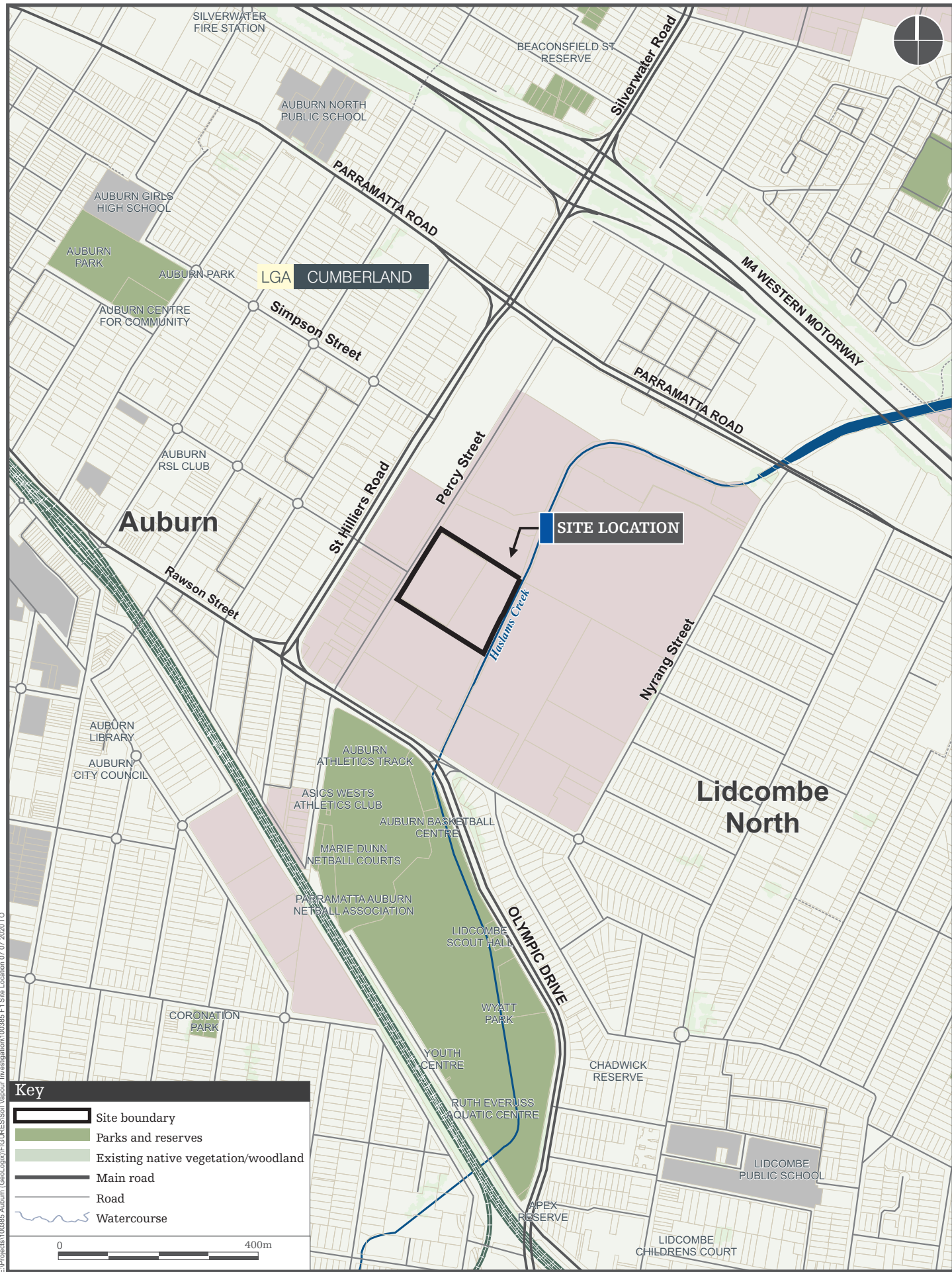
Where the Scope of Works does not include offsite investigations, Geo-Logix provides no warranty as to offsite conditions, including the extent if any to which substances in the Site may be emanating off site, and if so whether any adjoining sites have been or may be impacted by contamination originating from the Site.

Subsurface site conditions are typically heterogeneous, and may change with time. Samples taken from different points on the Site may not enable inferences to be drawn about the condition of areas of the Site significantly removed from the sample points, or about the condition of any part of the Site whatsoever, in particular where the proposed inferences are to be drawn a long time after the date of the report.

Geo-Logix has prepared this report with the diligence, care and skill which a reasonable person would expect from a reputable environmental consultancy and in accordance with environmental regulatory

authority and industry standards, guidelines and assessment criteria applicable as at the date of this report. Industry standards and environmental criteria change frequently, and may change at any time after the date of this report

FIGURES



E:\Projects\100385 Auburn (GeoLogix)\FIGURES\Soil Vapour Investigation\100385 F1 Site Location 07 07 2020.TD

Key

- Site boundary
- Parks and reserves
- Existing native vegetation/woodland
- Main road
- Road
- Watercourse

0 400m



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SITE VICINITY MAP

Soil Vapour Investigation
11-13 Percy Street, Auburn NSW

Project No. 2002029

Figure 1

- Site Features
- 1 Former radioactive store
 - 2 Decommissioned UST
 - 3 Former dangerous goods shed
 - 4 Former cooling towers
 - 5 Wash bay
 - 6 AST/fuel dispenser
 - 7 Waste oil tank
 - 8 Former AST
 - 9 Air compressor pump
 - 10 Wastewater tank/former lime dosing unit
 - 11 substation
 - 12 Decommissioned UST
 - 13 former grease trap & cooling towers



Key

- Site boundary
- Alluvial groundwater monitoring well location
- Bedrock groundwater monitoring well location
- X Hydropunch location

0 50m

GROUNDWATER WELL LOCATIONS

Groundwater Monitoring
11-13 Percy Street, Auburn NSW

Project No. 2001029

Figure 3





STATIC WATER LEVELS AND INFERRED GROUNDWATER
FLOW DIRECTION - DEEP GROUNDWATER MAY 2020

Groundwater Monitoring
11-13 Percy Street, Auburn NSW

Project No. 2001029

Figure 4



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TABLES

Table 1 : Summary of Groundwater Analytical Data - Petroleum Hydrocarbons

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	GW01	GW02	GW04	MW101	MW102
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	27/05/2020	27/05/2020	9/06/2020	27/05/2020
TRH C ₆ -C ₁₀	-	-	-	-	-		< 20	70	1,200	< 20	12,000
TRH C ₆ -C ₁₀ less BTEX (F1)	6,000	-	-	-	-		--	70	1,200	< 20	12,000
TRH >C ₁₀ -C ₁₆	-	-	-	-	-		< 50	< 50	< 50	< 50	120
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	NL	-	-	-	-		--	< 50	< 50	< 50	120
TRH >C ₁₆ -C ₃₄	-	-	-	-	-		< 100	< 100	< 100	300	200
TRH >C ₃₄ -C ₄₀	-	-	-	-	-		< 100	< 100	< 100	< 100	< 100
Benzene	5,000	950	700	1	-		< 1	< 1	< 10	< 1	< 1
Toluene	NL	-	-	800	-		< 1	< 1	< 10	< 1	< 1
Ethylbenzene	NL	-	-	300	-		< 1	< 1	< 10	< 1	< 1
m&p-Xylenes	-	-	-	-	-		< 2	< 2	< 20	< 2	< 2
o-Xylene	-	350	-	-	-		< 1	< 1	< 10	< 1	< 1
Xylenes - Total	NL	-	-	600	-		< 3	< 3	< 30	< 3	< 3
Naphthalene (MAH method)	NL	16	70	-	-		--	< 10	< 100	< 10	< 10

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

Criteria 2 = ANZG 2018 Guideline values, Freshwater, 95% species protection.

Criteria 3 = ANZG 2018 Guideline values, Marine water, 95% species protection.

Criteria 4 = NHMRC, Australian Drinking Water Guidelines, 2018.

Criteria 5 = US EPA (2019) Regional Screening Level (RSL), Generic Tables, Resident Tapwater (TR=1E-06, THQ=1.0).

Total concentrations in µg/L

- = assessment criteria not available

NL = not limiting

D1 = duplicate of MW203

T1 = triplicate of MW203

D2 = duplicate of MW205

T2 = triplicate of MW205

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

-- = sample not analysed

Bold/red indicates exceedance of assessment criteria

Table 1 : Summary of Groundwater Analytical Data - Petroleum Hydrocarbons

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW103	MW104	MW106	MW107	MW108
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	27/05/2020	27/05/2020	27/05/2020	27/05/2020
TRH C ₆ -C ₁₀	-	-	-	-	-		< 20	260	< 20	< 20	< 20
TRH C ₆ -C ₁₀ less BTEX (F1)	6,000	-	-	-	-		< 20	260	< 20	< 20	< 20
TRH >C ₁₀ -C ₁₆	-	-	-	-	-		< 50	< 50	140	< 50	120
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	NL	-	-	-	-		< 50	< 50	140	< 50	120
TRH >C ₁₆ -C ₃₄	-	-	-	-	-		400	400	600	< 100	400
TRH >C ₃₄ -C ₄₀	-	-	-	-	-		< 100	< 100	< 100	< 100	< 100
Benzene	5,000	950	700	1	-		< 1	< 5	< 1	< 1	< 1
Toluene	NL	-	-	800	-		< 1	< 5	< 1	< 1	< 1
Ethylbenzene	NL	-	-	300	-		< 1	< 5	< 1	1	< 1
m&p-Xylenes	-	-	-	-	-		< 2	< 10	< 2	< 2	< 2
o-Xylene	-	350	-	-	-		< 1	< 5	< 1	< 1	< 1
Xylenes - Total	NL	-	-	600	-		< 3	< 15	< 3	< 3	< 3
Naphthalene (MAH method)	NL	16	70	-	-		< 10	< 50	< 10	< 10	< 10

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

Criteria 2 = ANZG 2018 Guideline values, Freshwater, 95% species protection.

Criteria 3 = ANZG 2018 Guideline values, Marine water, 95% species protection.

Criteria 4 = NHMRC, Australian Drinking Water Guidelines, 2018.

Criteria 5 = US EPA (2019) Regional Screening Level (RSL), Generic Tables, Resident Tapwater (TR=1E-06, THQ=1.0).

Total concentrations in µg/L

- = assessment criteria not available

NL = not limiting

D1 = duplicate of MW203

T1 = triplicate of MW203

D2 = duplicate of MW205

T2 = triplicate of MW205

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

-- = sample not analysed

Bold/red indicates exceedance of assessment criteria

Table 1 : Summary of Groundwater Analytical Data - Petroleum Hydrocarbons

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW109	MW110	MW111	MW112	MW113
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	27/05/2020	27/05/2020	27/05/2020	27/05/2020
TRH C ₆ -C ₁₀	-	-	-	-	-		< 20	< 20	50	< 20	40
TRH C ₆ -C ₁₀ less BTEX (F1)	6,000	-	-	-	-		< 20	< 20	50	< 20	20
TRH >C ₁₀ -C ₁₆	-	-	-	-	-		< 50	< 50	50	100	< 50
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	NL	-	-	-	-		< 50	< 50	50	100	< 50
TRH >C ₁₆ -C ₃₄	-	-	-	-	-		200	< 100	600	200	< 100
TRH >C ₃₄ -C ₄₀	-	-	-	-	-		< 100	< 100	< 100	< 100	< 100
Benzene	5,000	950	700	1	-		< 1	< 1	< 1	< 1	< 1
Toluene	NL	-	-	800	-		< 1	< 1	< 1	< 1	< 1
Ethylbenzene	NL	-	-	300	-		< 1	< 1	< 1	< 1	4
m&p-Xylenes	-	-	-	-	-		< 2	< 2	< 2	< 2	9
o-Xylene	-	350	-	-	-		< 1	< 1	< 1	< 1	4
Xylenes - Total	NL	-	-	600	-		< 3	< 3	< 3	< 3	13
Naphthalene (MAH method)	NL	16	70	-	-		< 10	< 10	< 10	< 10	< 10

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

Criteria 2 = ANZG 2018 Guideline values, Freshwater, 95% species protection.

Criteria 3 = ANZG 2018 Guideline values, Marine water, 95% species protection.

Criteria 4 = NHMRC, Australian Drinking Water Guidelines, 2018.

Criteria 5 = US EPA (2019) Regional Screening Level (RSL), Generic Tables, Resident Tapwater (TR=1E-06, THQ=1.0).

Total concentrations in µg/L

- = assessment criteria not available

NL = not limiting

D1 = duplicate of MW203

T1 = triplicate of MW203

D2 = duplicate of MW205

T2 = triplicate of MW205

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

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Table 1 : Summary of Groundwater Analytical Data - Petroleum Hydrocarbons

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW114	MW115	MW116	MW117	MW118
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	27/05/2020	27/05/2020	27/05/2020	27/05/2020
TRH C ₆ -C ₁₀	-	-	-	-	-		< 20	< 20	< 20	< 20	< 20
TRH C ₆ -C ₁₀ less BTEX (F1)	6,000	-	-	-	-		< 20	< 20	< 20	< 20	< 20
TRH >C ₁₀ -C ₁₆	-	-	-	-	-		< 50	< 50	90	< 50	< 50
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	NL	-	-	-	-		< 50	< 50	90	< 50	< 50
TRH >C ₁₆ -C ₃₄	-	-	-	-	-		< 100	< 100	500	< 100	300
TRH >C ₃₄ -C ₄₀	-	-	-	-	-		< 100	< 100	< 100	< 100	< 100
Benzene	5,000	950	700	1	-		< 1	< 1	< 1	< 1	< 1
Toluene	NL	-	-	800	-		< 1	< 1	< 1	< 1	< 1
Ethylbenzene	NL	-	-	300	-		< 1	< 1	< 1	1	< 1
m&p-Xylenes	-	-	-	-	-		< 2	< 2	< 2	< 2	< 2
o-Xylene	-	350	-	-	-		< 1	< 1	< 1	< 1	< 1
Xylenes - Total	NL	-	-	600	-		< 3	< 3	< 3	< 3	< 3
Naphthalene (MAH method)	NL	16	70	-	-		< 10	< 10	< 10	< 10	< 10

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

Criteria 2 = ANZG 2018 Guideline values, Freshwater, 95% species protection.

Criteria 3 = ANZG 2018 Guideline values, Marine water, 95% species protection.

Criteria 4 = NHMRC, Australian Drinking Water Guidelines, 2018.

Criteria 5 = US EPA (2019) Regional Screening Level (RSL), Generic Tables, Resident Tapwater (TR=1E-06, THQ=1.0).

Total concentrations in µg/L

- = assessment criteria not available

NL = not limiting

D1 = duplicate of MW203

T1 = triplicate of MW203

D2 = duplicate of MW205

T2 = triplicate of MW205

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

-- = sample not analysed

Bold/red indicates exceedance of assessment criteria

Table 1 : Summary of Groundwater Analytical Data - Petroleum Hydrocarbons

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW119	MW120	MW121	MW201	MW202
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	27/05/2020	27/05/2020	29/05/2020	28/05/2020
TRH C ₆ -C ₁₀	-	-	-	-	-		< 20	< 20	< 20	< 20	< 20
TRH C ₆ -C ₁₀ less BTEX (F1)	6,000	-	-	-	-		< 20	< 20	< 20	< 20	< 20
TRH >C ₁₀ -C ₁₆	-	-	-	-	-		< 50	520	< 50	60	< 50
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	NL	-	-	-	-		< 50	520	< 50	60	< 50
TRH >C ₁₆ -C ₃₄	-	-	-	-	-		< 100	1,200	200	< 100	< 100
TRH >C ₃₄ -C ₄₀	-	-	-	-	-		< 100	< 100	< 100	< 100	< 100
Benzene	5,000	950	700	1	-		< 1	< 1	< 1	< 1	< 1
Toluene	NL	-	-	800	-		< 1	< 1	< 1	< 1	< 1
Ethylbenzene	NL	-	-	300	-		< 1	< 1	< 1	< 1	< 1
m&p-Xylenes	-	-	-	-	-		< 2	< 2	< 2	< 2	< 2
o-Xylene	-	350	-	-	-		< 1	< 1	< 1	< 1	< 1
Xylenes - Total	NL	-	-	600	-		< 3	< 3	< 3	< 3	< 3
Naphthalene (MAH method)	NL	16	70	-	-		< 10	< 10	< 10	< 10	< 10

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

Criteria 2 = ANZG 2018 Guideline values, Freshwater, 95% species protection.

Criteria 3 = ANZG 2018 Guideline values, Marine water, 95% species protection.

Criteria 4 = NHMRC, Australian Drinking Water Guidelines, 2018.

Criteria 5 = US EPA (2019) Regional Screening Level (RSL), Generic Tables, Resident Tapwater (TR=1E-06, THQ=1.0).

Total concentrations in µg/L

- = assessment criteria not available

NL = not limiting

D1 = duplicate of MW203

T1 = triplicate of MW203

D2 = duplicate of MW205

T2 = triplicate of MW205

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

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Bold/red indicates exceedance of assessment criteria

Table 1 : Summary of Groundwater Analytical Data - Petroleum Hydrocarbons

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW203	D1	RPD_D1	T1	RPD_T1
	2 to <4 m	95%	95%	Water	Tapwater	Date	29/05/2020	29/05/2020	-	29/05/2020	-
TRH C ₆ -C ₁₀	-	-	-	-	-		< 20	< 20	nc	< 20	nc
TRH C ₆ -C ₁₀ less BTEX (F1)	6,000	-	-	-	-		< 20	< 20	nc	< 20	nc
TRH >C ₁₀ -C ₁₆	-	-	-	-	-		< 50	80	nc	< 50	nc
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	NL	-	-	-	-		< 50	80	nc	< 50	nc
TRH >C ₁₆ -C ₃₄	-	-	-	-	-		< 100	< 100	nc	< 100	nc
TRH >C ₃₄ -C ₄₀	-	-	-	-	-		< 100	< 100	nc	< 100	nc
Benzene	5,000	950	700	1	-		< 1	< 1	nc	< 1	nc
Toluene	NL	-	-	800	-		< 1	< 1	nc	< 1	nc
Ethylbenzene	NL	-	-	300	-		< 1	< 1	nc	< 1	nc
m&p-Xylenes	-	-	-	-	-		< 2	< 2	nc	< 2	nc
o-Xylene	-	350	-	-	-		< 1	< 1	nc	< 1	nc
Xylenes - Total	NL	-	-	600	-		< 3	< 3	nc	< 3	nc
Naphthalene (MAH method)	NL	16	70	-	-		< 10	< 10	nc	< 10	nc

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

Criteria 2 = ANZG 2018 Guideline values, Freshwater, 95% species protection.

Criteria 3 = ANZG 2018 Guideline values, Marine water, 95% species protection.

Criteria 4 = NHMRC, Australian Drinking Water Guidelines, 2018.

Criteria 5 = US EPA (2019) Regional Screening Level (RSL), Generic Tables, Resident Tapwater (TR=1E-06, THQ=1.0).

Total concentrations in µg/L

- = assessment criteria not available

NL = not limiting

D1 = duplicate of MW203

T1 = triplicate of MW203

D2 = duplicate of MW205

T2 = triplicate of MW205

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

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Bold/red indicates exceedance of assessment criteria

Table 1 : Summary of Groundwater Analytical Data - Petroleum Hydrocarbons

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW204	MW205	D2	RPD_D2	T2
	2 to <4 m	95%	95%	Water	Tapwater	Date	29/05/2020	29/05/2020	29/05/2020	-	29/05/2020
TRH C ₆ -C ₁₀	-	-	-	-	-		< 20	< 20	< 20	nc	< 20
TRH C ₆ -C ₁₀ less BTEX (F1)	6,000	-	-	-	-		< 20	< 20	< 20	nc	< 20
TRH >C ₁₀ -C ₁₆	-	-	-	-	-		< 50	< 50	< 50	nc	< 50
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	NL	-	-	-	-		< 50	< 50	< 50	nc	< 50
TRH >C ₁₆ -C ₃₄	-	-	-	-	-		< 100	< 100	< 100	nc	< 100
TRH >C ₃₄ -C ₄₀	-	-	-	-	-		< 100	< 100	< 100	nc	< 100
Benzene	5,000	950	700	1	-		< 1	1	1	0%	2
Toluene	NL	-	-	800	-		< 1	< 1	< 1	nc	< 1
Ethylbenzene	NL	-	-	300	-		< 1	< 1	< 1	nc	< 1
m&p-Xylenes	-	-	-	-	-		< 2	< 2	< 2	nc	< 2
o-Xylene	-	350	-	-	-		< 1	< 1	< 1	nc	< 1
Xylenes - Total	NL	-	-	600	-		< 3	< 3	< 3	nc	< 3
Naphthalene (MAH method)	NL	16	70	-	-		< 10	< 10	< 10	nc	< 10

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

Criteria 2 = ANZG 2018 Guideline values, Freshwater, 95% species protection.

Criteria 3 = ANZG 2018 Guideline values, Marine water, 95% species protection.

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Criteria 5 = US EPA (2019) Regional Screening Level (RSL), Generic Tables, Resident Tapwater (TR=1E-06, THQ=1.0).

Total concentrations in µg/L

- = assessment criteria not available

NL = not limiting

D1 = duplicate of MW203

T1 = triplicate of MW203

D2 = duplicate of MW205

T2 = triplicate of MW205

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Table 1 : Summary of Groundwater Analytical Data - Petroleum Hydrocarbons

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	RPD_T2	VP6/0.5-0.6	VP10/0.3-0.4	VP16/0.3-0.5	R1
	2 to <4 m	95%	95%	Water	Tapwater	Date	-	26/05/2020	26/05/2020	26/05/2020	27/05/2020
TRH C ₆ -C ₁₀	-	-	-	-	-		<i>nc</i>	< 20,000	< 20,000	< 20,000	--
TRH C ₆ -C ₁₀ less BTEX (F1)	6,000	-	-	-	-		<i>nc</i>	< 20,000	< 20,000	< 20,000	--
TRH >C ₁₀ -C ₁₆	-	-	-	-	-		<i>nc</i>	< 50,000	< 50,000	< 50,000	--
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	NL	-	-	-	-		<i>nc</i>	< 50,000	< 50,000	< 50,000	--
TRH >C ₁₆ -C ₃₄	-	-	-	-	-		<i>nc</i>	< 100,000	< 100,000	< 100,000	--
TRH >C ₃₄ -C ₄₀	-	-	-	-	-		<i>nc</i>	< 100,000	< 100,000	< 100,000	--
Benzene	5,000	950	700	1	-		67%	< 100	< 100	< 100	< 1
Toluene	NL	-	-	800	-		<i>nc</i>	< 100	< 100	< 100	< 1
Ethylbenzene	NL	-	-	300	-		<i>nc</i>	< 100	< 100	< 100	< 1
m&p-Xylenes	-	-	-	-	-		<i>nc</i>	< 200	< 200	< 200	< 2
o-Xylene	-	350	-	-	-		<i>nc</i>	< 100	< 100	< 100	< 1
Xylenes - Total	NL	-	-	600	-		<i>nc</i>	< 300	< 300	< 300	< 3
Naphthalene (MAH method)	NL	16	70	-	-		<i>nc</i>	< 500	< 500	< 500	--

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

Criteria 2 = ANZG 2018 Guideline values, Freshwater, 95% species protection.

Criteria 3 = ANZG 2018 Guideline values, Marine water, 95% species protection.

Criteria 4 = NHMRC, Australian Drinking Water Guidelines, 2018.

Criteria 5 = US EPA (2019) Regional Screening Level (RSL), Generic Tables, Resident Tapwater (TR=1E-06, THQ=1.0).

Total concentrations in µg/L

- = assessment criteria not available

NL = not limiting

D1 = duplicate of MW203

T1 = triplicate of MW203

D2 = duplicate of MW205

T2 = triplicate of MW205

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nc = RPD not calculated, one or both samples below laboratory reporting limit

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Bold/red indicates exceedance of assessment criteria

Table 1 : Summary of Groundwater Analytical Data - Petroleum Hydrocarbons

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5			
	HSLs - D				RSL			
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	R2	GW01-
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	9/06/2020
TRH C ₆ -C ₁₀	-	-	-	-	-		--	--
TRH C ₆ -C ₁₀ less BTEX (F1)	6,000	-	-	-	-		--	--
TRH >C ₁₀ -C ₁₆	-	-	-	-	-		--	--
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	NL	-	-	-	-		--	--
TRH >C ₁₆ -C ₃₄	-	-	-	-	-		--	--
TRH >C ₃₄ -C ₄₀	-	-	-	-	-		--	--
Benzene	5,000	950	700	1	-		< 1	--
Toluene	NL	-	-	800	-		< 1	--
Ethylbenzene	NL	-	-	300	-		< 1	--
m&p-Xylenes	-	-	-	-	-		< 2	--
o-Xylene	-	350	-	-	-		< 1	--
Xylenes - Total	NL	-	-	600	-		< 3	--
Naphthalene (MAH method)	NL	16	70	-	-		--	--

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

Criteria 2 = ANZG 2018 Guideline values, Freshwater, 95% species protection.

Criteria 3 = ANZG 2018 Guideline values, Marine water, 95% species protection.

Criteria 4 = NHMRC, Australian Drinking Water Guidelines, 2018.

Criteria 5 = US EPA (2019) Regional Screening Level (RSL), Generic Tables, Resident Tapwater (TR=1E-06, THQ=1.0).

Total concentrations in µg/L

- = assessment criteria not available

NL = not limiting

D1 = duplicate of MW203

T1 = triplicate of MW203

D2 = duplicate of MW205

T2 = triplicate of MW205

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

-- = sample not analysed

Bold/red indicates exceedance of assessment criteria

Table 2 : Summary of Groundwater Analytical Data - Volatile Organic Compounds

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	GW01	GW02	GW04	MW101	MW102
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	27/05/2020	27/05/2020	9/06/2020	27/05/2020
1.1-Dichloroethane	-	-	-	-	-		< 1	< 1	480	< 1	3
1.1-Dichloroethene	-	700	-	30	-		< 1	< 1	130	< 1	31
1.1.1-Trichloroethane	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
1.1.1.2-Tetrachloroethane	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
1.1.2-Trichloroethane	-	6,500	1,900	-	-		< 1	< 1	< 10	< 1	110
1.1.2.2-Tetrachloroethane	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
1.2-Dibromoethane	-	-	-	1	-		< 1	< 1	< 10	< 1	< 1
1.2-Dichlorobenzene	-	160	-	1,500	-		< 1	< 1	< 10	< 1	< 1
1.2-Dichloroethane	-	-	-	3	-		< 1	< 1	< 10	< 1	2
1.2-Dichloroethene (Total)	-	-	-	60	-		ND	ND	542	ND	4,750
1.2-Dichloropropane	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
1.2.3-Trichloropropane	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
1.2.4-Trimethylbenzene	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
1.3-Dichlorobenzene	-	260	-	-	-		< 1	< 1	< 10	< 1	< 1
1.3-Dichloropropane	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
1.3.5-Trimethylbenzene	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
1.4-Dichlorobenzene	-	60	-	40	-		< 1	< 1	< 10	< 1	< 1
2-Butanone (MEK)	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
2-Propanone (Acetone)	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

Criteria 2 = ANZG 2018 Guideline values, Freshwater, 95% species protection.

Criteria 3 = ANZG 2018 Guideline values, Marine water, 95% species protection.

Criteria 4 = NHMRC, Australian Drinking Water Guidelines, 2018.

Criteria 5 = US EPA (2019) Regional Screening Level (RSL), Generic Tables, Resident Tapwater (TR=1E-06, THQ=1.0).

Total concentrations in µg/L

- = assessment criteria not available

NL = not limiting

D1 = duplicate of MW203

T1 = triplicate of MW203

D2 = duplicate of MW205

T2 = triplicate of MW205

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

-- = sample not analysed

Bold/red indicates exceedance of assessment criteria

Table 2 : Summary of Groundwater Analytical Data - Volatile Organic Compounds

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	GW01	GW02	GW04	MW101	MW102
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	27/05/2020	27/05/2020	9/06/2020	27/05/2020
4-Chlorotoluene	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
4-Methyl-2-pentanone (MIBK)	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
Allyl chloride	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
Benzene	5,000	950	700	1	-		< 1	< 1	< 10	< 1	< 1
Bromobenzene	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
Bromochloromethane	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
Bromodichloromethane	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
Bromoform	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
Bromomethane	-	-	-	1	-		< 1	< 1	< 10	< 1	< 1
Carbon disulfide	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
Carbon tetrachloride	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
Chlorobenzene	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
Chloroethane	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
Chloroform	-	-	-	-	-		< 5	< 5	< 50	< 5	< 5
Chloromethane	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
cis-1.2-Dichloroethene	-	-	-	-	-		< 1	< 1	530	< 1	4,600
cis-1.3-Dichloropropene	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
Dibromochloromethane	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
Dibromomethane	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

Criteria 2 = ANZG 2018 Guideline values, Freshwater, 95% species protection.

Criteria 3 = ANZG 2018 Guideline values, Marine water, 95% species protection.

Criteria 4 = NHMRC, Australian Drinking Water Guidelines, 2018.

Criteria 5 = US EPA (2019) Regional Screening Level (RSL), Generic Tables, Resident Tapwater (TR=1E-06, THQ=1.0).

Total concentrations in µg/L

- = assessment criteria not available

NL = not limiting

D1 = duplicate of MW203

T1 = triplicate of MW203

D2 = duplicate of MW205

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RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

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Table 2 : Summary of Groundwater Analytical Data - Volatile Organic Compounds

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	GW01	GW02	GW04	MW101	MW102
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	27/05/2020	27/05/2020	9/06/2020	27/05/2020
Dichlorodifluoromethane	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
Ethylbenzene	NL	-	-	300	-		< 1	< 1	< 10	< 1	< 1
Iodomethane	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
Isopropyl benzene (Cumene)	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
m&p-Xylenes	-	-	-	-	-		< 2	< 2	< 20	< 2	< 2
Methylene chloride	-	-	-	4	-		< 1	< 1	< 100	< 1	< 1
o-Xylene	-	350	-	-	-		< 1	< 1	< 10	< 1	< 1
Styrene	-	-	-	30	-		< 1	< 1	< 10	< 1	< 1
Tetrachloroethene	-	-	-	50	-		< 1	< 1	< 10	< 1	2
Toluene	NL	-	-	800	-		< 1	< 1	< 10	< 1	< 1
trans-1.2-Dichloroethene	-	-	-	-	-		< 1	< 1	12	< 1	150
trans-1.3-Dichloropropene	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
Trichloroethene	-	330	-	-	2.8		< 1	< 1	240	< 1	8,500
Trichlorofluoromethane	-	-	-	-	-		< 1	< 1	< 10	< 1	< 1
Vinyl chloride	-	100	-	0.3	-		< 1	< 1	340	< 1	72
Xylenes - Total	NL	-	-	600	-		< 3	< 3	< 30	< 3	< 3

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

Criteria 2 = ANZG 2018 Guideline values, Freshwater, 95% species protection.

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Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW103	MW104	MW106	MW107	MW108
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	27/05/2020	27/05/2020	27/05/2020	27/05/2020
1.1-Dichloroethane	-	-	-	-	-		< 1	31	< 1	< 1	< 1
1.1-Dichloroethene	-	700	-	30	-		< 1	26	< 1	< 1	< 1
1.1.1-Trichloroethane	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
1.1.1.2-Tetrachloroethane	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
1.1.2-Trichloroethane	-	6,500	1,900	-	-		< 1	< 5	< 1	< 1	< 1
1.1.2.2-Tetrachloroethane	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
1.2-Dibromoethane	-	-	-	1	-		< 1	< 5	< 1	< 1	< 1
1.2-Dichlorobenzene	-	160	-	1,500	-		< 1	< 5	< 1	< 1	< 1
1.2-Dichloroethane	-	-	-	3	-		< 1	< 5	< 1	< 1	< 1
1.2-Dichloroethene (Total)	-	-	-	60	-		ND	170	ND	ND	ND
1.2-Dichloropropane	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
1.2.3-Trichloropropane	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
1.2.4-Trimethylbenzene	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
1.3-Dichlorobenzene	-	260	-	-	-		< 1	< 5	< 1	< 1	< 1
1.3-Dichloropropane	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
1.3.5-Trimethylbenzene	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
1.4-Dichlorobenzene	-	60	-	40	-		< 1	< 5	< 1	< 1	< 1
2-Butanone (MEK)	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
2-Propanone (Acetone)	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

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11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW103	MW104	MW106	MW107	MW108
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	27/05/2020	27/05/2020	27/05/2020	27/05/2020
4-Chlorotoluene	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
4-Methyl-2-pentanone (MIBK)	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
Allyl chloride	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
Benzene	5,000	950	700	1	-		< 1	< 5	< 1	< 1	< 1
Bromobenzene	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
Bromochloromethane	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
Bromodichloromethane	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
Bromoform	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
Bromomethane	-	-	-	1	-		< 1	< 5	< 1	< 1	< 1
Carbon disulfide	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
Carbon tetrachloride	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
Chlorobenzene	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
Chloroethane	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
Chloroform	-	-	-	-	-		< 5	< 25	< 5	< 5	< 5
Chloromethane	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
cis-1.2-Dichloroethene	-	-	-	-	-		< 1	170	< 1	< 1	< 1
cis-1.3-Dichloropropene	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
Dibromochloromethane	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
Dibromomethane	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

Criteria 2 = ANZG 2018 Guideline values, Freshwater, 95% species protection.

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D1 = duplicate of MW203

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Table 2 : Summary of Groundwater Analytical Data - Volatile Organic Compounds

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW103	MW104	MW106	MW107	MW108
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	27/05/2020	27/05/2020	27/05/2020	27/05/2020
Dichlorodifluoromethane	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
Ethylbenzene	NL	-	-	300	-		< 1	< 5	< 1	1	< 1
Iodomethane	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
Isopropyl benzene (Cumene)	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
m&p-Xylenes	-	-	-	-	-		< 2	< 10	< 2	< 2	< 2
Methylene chloride	-	-	-	4	-		< 1	< 50	< 1	< 1	< 1
o-Xylene	-	350	-	-	-		< 1	< 5	< 1	< 1	< 1
Styrene	-	-	-	30	-		< 1	< 5	< 1	< 1	< 1
Tetrachloroethene	-	-	-	50	-		< 1	< 5	< 1	< 1	< 1
Toluene	NL	-	-	800	-		< 1	< 5	< 1	< 1	< 1
trans-1.2-Dichloroethene	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
trans-1.3-Dichloropropene	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
Trichloroethene	-	330	-	-	2.8		< 1	< 5	< 1	< 1	< 1
Trichlorofluoromethane	-	-	-	-	-		< 1	< 5	< 1	< 1	< 1
Vinyl chloride	-	100	-	0.3	-		< 1	29	< 1	< 1	< 1
Xylenes - Total	NL	-	-	600	-		< 3	< 15	< 3	< 3	< 3

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

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Table 2 : Summary of Groundwater Analytical Data - Volatile Organic Compounds

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW109	MW110	MW111	MW112	MW113
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	27/05/2020	27/05/2020	27/05/2020	27/05/2020
1.1-Dichloroethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.1-Dichloroethene	-	700	-	30	-		< 1	< 1	< 1	< 1	< 1
1.1.1-Trichloroethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.1.1.2-Tetrachloroethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.1.2-Trichloroethane	-	6,500	1,900	-	-		< 1	< 1	< 1	< 1	< 1
1.1.2.2-Tetrachloroethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.2-Dibromoethane	-	-	-	1	-		< 1	< 1	< 1	< 1	< 1
1.2-Dichlorobenzene	-	160	-	1,500	-		< 1	< 1	< 1	< 1	< 1
1.2-Dichloroethane	-	-	-	3	-		< 1	< 1	< 1	< 1	< 1
1.2-Dichloroethene (Total)	-	-	-	60	-		ND	ND	27.	ND	ND
1.2-Dichloropropane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.2.3-Trichloropropane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.2.4-Trimethylbenzene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.3-Dichlorobenzene	-	260	-	-	-		< 1	< 1	< 1	< 1	< 1
1.3-Dichloropropane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.3.5-Trimethylbenzene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.4-Dichlorobenzene	-	60	-	40	-		< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
2-Propanone (Acetone)	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1

Notes:

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	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW109	MW110	MW111	MW112	MW113
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	27/05/2020	27/05/2020	27/05/2020	27/05/2020
4-Chlorotoluene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone (MIBK)	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Allyl chloride	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Benzene	5,000	950	700	1	-		< 1	< 1	< 1	< 1	< 1
Bromobenzene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Bromochloromethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Bromoform	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Bromomethane	-	-	-	1	-		< 1	< 1	< 1	< 1	< 1
Carbon disulfide	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Chlorobenzene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Chloroethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Chloroform	-	-	-	-	-		< 5	< 5	< 5	< 5	< 5
Chloromethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
cis-1.2-Dichloroethene	-	-	-	-	-		< 1	< 1	25	< 1	< 1
cis-1.3-Dichloropropene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Dibromomethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1

Notes:

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Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

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	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW109	MW110	MW111	MW112	MW113
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	27/05/2020	27/05/2020	27/05/2020	27/05/2020
Dichlorodifluoromethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Ethylbenzene	NL	-	-	300	-		< 1	< 1	< 1	< 1	4
Iodomethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Isopropyl benzene (Cumene)	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
m&p-Xylenes	-	-	-	-	-		< 2	< 2	< 2	< 2	9
Methylene chloride	-	-	-	4	-		< 1	< 1	< 1	< 1	< 1
o-Xylene	-	350	-	-	-		< 1	< 1	< 1	< 1	4
Styrene	-	-	-	30	-		< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	-	-	-	50	-		< 1	< 1	< 1	< 1	< 1
Toluene	NL	-	-	800	-		< 1	< 1	< 1	< 1	< 1
trans-1.2-Dichloroethene	-	-	-	-	-		< 1	< 1	2	< 1	< 1
trans-1.3-Dichloropropene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Trichloroethene	-	330	-	-	2.8		< 1	< 1	13	< 1	< 1
Trichlorofluoromethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Vinyl chloride	-	100	-	0.3	-		< 1	< 1	< 1	< 1	< 1
Xylenes - Total	NL	-	-	600	-		< 3	< 3	< 3	< 3	13

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

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T2 = triplicate of MW205

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nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

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Bold/red indicates exceedance of assessment criteria

Table 2 : Summary of Groundwater Analytical Data - Volatile Organic Compounds

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW114	MW115	MW116	MW117	MW118
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	27/05/2020	27/05/2020	27/05/2020	27/05/2020
1.1-Dichloroethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.1-Dichloroethene	-	700	-	30	-		< 1	< 1	< 1	< 1	< 1
1.1.1-Trichloroethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.1.1.2-Tetrachloroethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.1.2-Trichloroethane	-	6,500	1,900	-	-		< 1	< 1	< 1	< 1	< 1
1.1.2.2-Tetrachloroethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.2-Dibromoethane	-	-	-	1	-		< 1	< 1	< 1	< 1	< 1
1.2-Dichlorobenzene	-	160	-	1,500	-		< 1	< 1	< 1	< 1	< 1
1.2-Dichloroethane	-	-	-	3	-		< 1	< 1	< 1	< 1	< 1
1.2-Dichloroethene (Total)	-	-	-	60	-		ND	ND	ND	ND	ND
1.2-Dichloropropane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.2.3-Trichloropropane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.2.4-Trimethylbenzene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.3-Dichlorobenzene	-	260	-	-	-		< 1	< 1	< 1	< 1	< 1
1.3-Dichloropropane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.3.5-Trimethylbenzene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.4-Dichlorobenzene	-	60	-	40	-		< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
2-Propanone (Acetone)	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

Criteria 2 = ANZG 2018 Guideline values, Freshwater, 95% species protection.

Criteria 3 = ANZG 2018 Guideline values, Marine water, 95% species protection.

Criteria 4 = NHMRC, Australian Drinking Water Guidelines, 2018.

Criteria 5 = US EPA (2019) Regional Screening Level (RSL), Generic Tables, Resident Tapwater (TR=1E-06, THQ=1.0).

Total concentrations in µg/L

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NL = not limiting

D1 = duplicate of MW203

T1 = triplicate of MW203

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T2 = triplicate of MW205

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Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW114	MW115	MW116	MW117	MW118
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	27/05/2020	27/05/2020	27/05/2020	27/05/2020
4-Chlorotoluene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone (MIBK)	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Allyl chloride	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Benzene	5,000	950	700	1	-		< 1	< 1	< 1	< 1	< 1
Bromobenzene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Bromochloromethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Bromoform	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Bromomethane	-	-	-	1	-		< 1	< 1	< 1	< 1	< 1
Carbon disulfide	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Chlorobenzene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Chloroethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Chloroform	-	-	-	-	-		< 5	< 5	< 5	< 5	< 5
Chloromethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
cis-1.2-Dichloroethene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
cis-1.3-Dichloropropene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Dibromomethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

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Total concentrations in µg/L

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D1 = duplicate of MW203

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Table 2 : Summary of Groundwater Analytical Data - Volatile Organic Compounds

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW114	MW115	MW116	MW117	MW118
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	27/05/2020	27/05/2020	27/05/2020	27/05/2020
Dichlorodifluoromethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Ethylbenzene	NL	-	-	300	-		< 1	< 1	< 1	1	< 1
Iodomethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Isopropyl benzene (Cumene)	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
m&p-Xylenes	-	-	-	-	-		< 2	< 2	< 2	< 2	< 2
Methylene chloride	-	-	-	4	-		< 1	< 1	< 1	< 1	< 1
o-Xylene	-	350	-	-	-		< 1	< 1	< 1	< 1	< 1
Styrene	-	-	-	30	-		< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	-	-	-	50	-		< 1	< 1	< 1	< 1	< 1
Toluene	NL	-	-	800	-		< 1	< 1	< 1	< 1	< 1
trans-1.2-Dichloroethene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
trans-1.3-Dichloropropene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Trichloroethene	-	330	-	-	2.8		< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Vinyl chloride	-	100	-	0.3	-		< 1	< 1	< 1	< 1	< 1
Xylenes - Total	NL	-	-	600	-		< 3	< 3	< 3	< 3	< 3

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

Criteria 2 = ANZG 2018 Guideline values, Freshwater, 95% species protection.

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Table 2 : Summary of Groundwater Analytical Data - Volatile Organic Compounds

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW119	MW120	MW121	MW201	MW202
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	27/05/2020	27/05/2020	29/05/2020	28/05/2020
1.1-Dichloroethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.1-Dichloroethene	-	700	-	30	-		< 1	< 1	< 1	< 1	< 1
1.1.1-Trichloroethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.1.1.2-Tetrachloroethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.1.2-Trichloroethane	-	6,500	1,900	-	-		< 1	< 1	< 1	< 1	< 1
1.1.2.2-Tetrachloroethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.2-Dibromoethane	-	-	-	1	-		< 1	< 1	< 1	< 1	< 1
1.2-Dichlorobenzene	-	160	-	1,500	-		< 1	< 1	< 1	< 1	< 1
1.2-Dichloroethane	-	-	-	3	-		< 1	< 1	< 1	< 1	< 1
1.2-Dichloroethene (Total)	-	-	-	60	-		ND	ND	ND	ND	ND
1.2-Dichloropropane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.2.3-Trichloropropane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.2.4-Trimethylbenzene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.3-Dichlorobenzene	-	260	-	-	-		< 1	< 1	< 1	< 1	< 1
1.3-Dichloropropane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.3.5-Trimethylbenzene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
1.4-Dichlorobenzene	-	60	-	40	-		< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
2-Propanone (Acetone)	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1

Notes:

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	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	27/05/2020	27/05/2020	29/05/2020	28/05/2020
4-Chlorotoluene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone (MIBK)	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Allyl chloride	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Benzene	5,000	950	700	1	-		< 1	< 1	< 1	< 1	< 1
Bromobenzene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Bromochloromethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Bromoform	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Bromomethane	-	-	-	1	-		< 1	< 1	< 1	< 1	< 1
Carbon disulfide	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Chlorobenzene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Chloroethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Chloroform	-	-	-	-	-		< 5	< 5	< 5	< 5	< 5
Chloromethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
cis-1.2-Dichloroethene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
cis-1.3-Dichloropropene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Dibromomethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1

Notes:

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Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW119	MW120	MW121	MW201	MW202
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	27/05/2020	27/05/2020	29/05/2020	28/05/2020
Dichlorodifluoromethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Ethylbenzene	NL	-	-	300	-		< 1	< 1	< 1	< 1	< 1
Iodomethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Isopropyl benzene (Cumene)	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
m&p-Xylenes	-	-	-	-	-		< 2	< 2	< 2	< 2	< 2
Methylene chloride	-	-	-	4	-		< 1	< 1	< 1	< 1	< 1
o-Xylene	-	350	-	-	-		< 1	< 1	< 1	< 1	< 1
Styrene	-	-	-	30	-		< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	-	-	-	50	-		< 1	< 1	< 1	< 1	< 1
Toluene	NL	-	-	800	-		< 1	< 1	< 1	< 1	< 1
trans-1.2-Dichloroethene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
trans-1.3-Dichloropropene	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Trichloroethene	-	330	-	-	2.8		< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	-	-	-	-	-		< 1	< 1	< 1	< 1	< 1
Vinyl chloride	-	100	-	0.3	-		< 1	< 1	< 1	< 1	< 1
Xylenes - Total	NL	-	-	600	-		< 3	< 3	< 3	< 3	< 3

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

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Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5					
	HSLs - D				RSL					
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW203	D1	RPD_D1	T1
	2 to <4 m	95%	95%	Water	Tapwater	Date	29/05/2020	29/05/2020	-	29/05/2020
1.1-Dichloroethane	-	-	-	-	-		< 1	< 1	nc	< 1
1.1-Dichloroethene	-	700	-	30	-		< 1	< 1	nc	< 1
1.1.1-Trichloroethane	-	-	-	-	-		< 1	< 1	nc	< 1
1.1.1.2-Tetrachloroethane	-	-	-	-	-		< 1	< 1	nc	< 1
1.1.2-Trichloroethane	-	6,500	1,900	-	-		< 1	< 1	nc	< 1
1.1.2.2-Tetrachloroethane	-	-	-	-	-		< 1	< 1	nc	< 1
1.2-Dibromoethane	-	-	-	1	-		< 1	< 1	nc	< 1
1.2-Dichlorobenzene	-	160	-	1,500	-		< 1	< 1	nc	< 1
1.2-Dichloroethane	-	-	-	3	-		< 1	< 1	nc	< 1
1.2-Dichloroethene (Total)	-	-	-	60	-		ND	ND	nc	ND
1.2-Dichloropropane	-	-	-	-	-		< 1	< 1	nc	< 1
1.2.3-Trichloropropane	-	-	-	-	-		< 1	< 1	nc	< 1
1.2.4-Trimethylbenzene	-	-	-	-	-		< 1	< 1	nc	< 1
1.3-Dichlorobenzene	-	260	-	-	-		< 1	< 1	nc	< 1
1.3-Dichloropropane	-	-	-	-	-		< 1	< 1	nc	< 1
1.3.5-Trimethylbenzene	-	-	-	-	-		< 1	< 1	nc	< 1
1.4-Dichlorobenzene	-	60	-	40	-		< 1	< 1	nc	< 1
2-Butanone (MEK)	-	-	-	-	-		< 1	< 1	nc	< 1
2-Propanone (Acetone)	-	-	-	-	-		< 1	< 1	nc	< 1

Notes:

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Table 2 : Summary of Groundwater Analytical Data - Volatile Organic Compounds

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5					
	HSLs - D				RSL					
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW203	D1	RPD_D1	T1
	2 to <4 m	95%	95%	Water	Tapwater	Date	29/05/2020	29/05/2020	-	29/05/2020
4-Chlorotoluene	-	-	-	-	-		< 1	< 1	nc	< 1
4-Methyl-2-pentanone (MIBK)	-	-	-	-	-		< 1	< 1	nc	< 1
Allyl chloride	-	-	-	-	-		< 1	< 1	nc	< 1
Benzene	5,000	950	700	1	-		< 1	< 1	nc	< 1
Bromobenzene	-	-	-	-	-		< 1	< 1	nc	< 1
Bromochloromethane	-	-	-	-	-		< 1	< 1	nc	< 1
Bromodichloromethane	-	-	-	-	-		< 1	< 1	nc	< 1
Bromoform	-	-	-	-	-		< 1	< 1	nc	< 1
Bromomethane	-	-	-	1	-		< 1	< 1	nc	< 1
Carbon disulfide	-	-	-	-	-		< 1	< 1	nc	< 1
Carbon tetrachloride	-	-	-	-	-		< 1	< 1	nc	< 1
Chlorobenzene	-	-	-	-	-		< 1	< 1	nc	< 1
Chloroethane	-	-	-	-	-		< 1	< 1	nc	< 1
Chloroform	-	-	-	-	-		< 5	< 5	nc	< 5
Chloromethane	-	-	-	-	-		< 1	< 1	nc	< 1
cis-1.2-Dichloroethene	-	-	-	-	-		< 1	< 1	nc	< 1
cis-1.3-Dichloropropene	-	-	-	-	-		< 1	< 1	nc	< 1
Dibromochloromethane	-	-	-	-	-		< 1	< 1	nc	< 1
Dibromomethane	-	-	-	-	-		< 1	< 1	nc	< 1

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

Criteria 2 = ANZG 2018 Guideline values, Freshwater, 95% species protection.

Criteria 3 = ANZG 2018 Guideline values, Marine water, 95% species protection.

Criteria 4 = NHMRC, Australian Drinking Water Guidelines, 2018.

Criteria 5 = US EPA (2019) Regional Screening Level (RSL), Generic Tables, Resident Tapwater (TR=1E-06, THQ=1.0).

Total concentrations in µg/L

- = assessment criteria not available

NL = not limiting

D1 = duplicate of MW203

T1 = triplicate of MW203

D2 = duplicate of MW205

T2 = triplicate of MW205

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

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Table 2 : Summary of Groundwater Analytical Data - Volatile Organic Compounds

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5					
	HSLs - D				RSL					
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW203	D1	RPD_D1	T1
	2 to <4 m	95%	95%	Water	Tapwater	Date	29/05/2020	29/05/2020	-	29/05/2020
Dichlorodifluoromethane	-	-	-	-	-		< 1	< 1	nc	< 1
Ethylbenzene	NL	-	-	300	-		< 1	< 1	nc	< 1
Iodomethane	-	-	-	-	-		< 1	< 1	nc	< 1
Isopropyl benzene (Cumene)	-	-	-	-	-		< 1	< 1	nc	< 1
m&p-Xylenes	-	-	-	-	-		< 2	< 2	nc	< 2
Methylene chloride	-	-	-	4	-		< 1	< 1	nc	< 1
o-Xylene	-	350	-	-	-		< 1	< 1	nc	< 1
Styrene	-	-	-	30	-		< 1	< 1	nc	< 1
Tetrachloroethene	-	-	-	50	-		< 1	< 1	nc	< 1
Toluene	NL	-	-	800	-		< 1	< 1	nc	< 1
trans-1.2-Dichloroethene	-	-	-	-	-		< 1	< 1	nc	< 1
trans-1.3-Dichloropropene	-	-	-	-	-		< 1	< 1	nc	< 1
Trichloroethene	-	330	-	-	2.8		< 1	< 1	nc	< 1
Trichlorofluoromethane	-	-	-	-	-		< 1	< 1	nc	< 1
Vinyl chloride	-	100	-	0.3	-		< 1	< 1	nc	< 1
Xylenes - Total	NL	-	-	600	-		< 3	< 3	nc	< 3

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

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Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW204	MW205	D2	RPD_D2	T2
	2 to <4 m	95%	95%	Water	Tapwater	Date	29/05/2020	29/05/2020	29/05/2020	-	29/05/2020
1.1-Dichloroethane	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
1.1-Dichloroethene	-	700	-	30	-		< 1	< 1	< 1	nc	< 1
1.1.1-Trichloroethane	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
1.1.1.2-Tetrachloroethane	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
1.1.2-Trichloroethane	-	6,500	1,900	-	-		< 1	< 1	< 1	nc	< 1
1.1.2.2-Tetrachloroethane	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
1.2-Dibromoethane	-	-	-	1	-		< 1	< 1	< 1	nc	< 1
1.2-Dichlorobenzene	-	160	-	1,500	-		< 1	< 1	< 1	nc	< 1
1.2-Dichloroethane	-	-	-	3	-		< 1	< 1	< 1	nc	< 1
1.2-Dichloroethene (Total)	-	-	-	60	-		ND	ND	ND	nc	ND
1.2-Dichloropropane	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
1.2.3-Trichloropropane	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
1.2.4-Trimethylbenzene	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
1.3-Dichlorobenzene	-	260	-	-	-		< 1	< 1	< 1	nc	< 1
1.3-Dichloropropane	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
1.3.5-Trimethylbenzene	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
1.4-Dichlorobenzene	-	60	-	40	-		< 1	< 1	< 1	nc	< 1
2-Butanone (MEK)	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
2-Propanone (Acetone)	-	-	-	-	-		< 1	< 1	< 1	nc	< 1

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

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Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW204	MW205	D2	RPD_D2	T2
	2 to <4 m	95%	95%	Water	Tapwater	Date	29/05/2020	29/05/2020	29/05/2020	-	29/05/2020
4-Chlorotoluene	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
4-Methyl-2-pentanone (MIBK)	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
Allyl chloride	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
Benzene	5,000	950	700	1	-		< 1	1	1	0%	2
Bromobenzene	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
Bromochloromethane	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
Bromodichloromethane	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
Bromoform	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
Bromomethane	-	-	-	1	-		< 1	< 1	< 1	nc	< 1
Carbon disulfide	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
Carbon tetrachloride	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
Chlorobenzene	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
Chloroethane	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
Chloroform	-	-	-	-	-		< 5	< 5	< 5	nc	< 5
Chloromethane	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
cis-1.2-Dichloroethene	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
cis-1.3-Dichloropropene	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
Dibromochloromethane	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
Dibromomethane	-	-	-	-	-		< 1	< 1	< 1	nc	< 1

Notes:

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Table 2 : Summary of Groundwater Analytical Data - Volatile Organic Compounds

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	MW204	MW205	D2	RPD_D2	T2
	2 to <4 m	95%	95%	Water	Tapwater	Date	29/05/2020	29/05/2020	29/05/2020	-	29/05/2020
Dichlorodifluoromethane	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
Ethylbenzene	NL	-	-	300	-		< 1	< 1	< 1	nc	< 1
Iodomethane	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
Isopropyl benzene (Cumene)	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
m&p-Xylenes	-	-	-	-	-		< 2	< 2	< 2	nc	< 2
Methylene chloride	-	-	-	4	-		< 1	< 1	< 1	nc	< 1
o-Xylene	-	350	-	-	-		< 1	< 1	< 1	nc	< 1
Styrene	-	-	-	30	-		< 1	< 1	< 1	nc	< 1
Tetrachloroethene	-	-	-	50	-		< 1	< 1	< 1	nc	< 1
Toluene	NL	-	-	800	-		< 1	< 1	< 1	nc	< 1
trans-1.2-Dichloroethene	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
trans-1.3-Dichloropropene	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
Trichloroethene	-	330	-	-	2.8		< 1	< 1	< 1	nc	< 1
Trichlorofluoromethane	-	-	-	-	-		< 1	< 1	< 1	nc	< 1
Vinyl chloride	-	100	-	0.3	-		< 1	< 1	< 1	nc	< 1
Xylenes - Total	NL	-	-	600	-		< 3	< 3	< 3	nc	< 3

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

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Table 2 : Summary of Groundwater Analytical Data - Volatile Organic Compounds

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	RPD_T2	VP6/0.5-0.6	VP10/0.3-0.4	VP16/0.3-0.5	R1
	2 to <4 m	95%	95%	Water	Tapwater	Date	-	26/05/2020	26/05/2020	26/05/2020	27/05/2020
1.1-Dichloroethane	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
1.1-Dichloroethene	-	700	-	30	-		<i>nc</i>	--	--	--	< 1
1.1.1-Trichloroethane	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
1.1.1.2-Tetrachloroethane	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
1.1.2-Trichloroethane	-	6,500	1,900	-	-		<i>nc</i>	--	--	--	< 1
1.1.2.2-Tetrachloroethane	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
1.2-Dibromoethane	-	-	-	1	-		<i>nc</i>	--	--	--	< 1
1.2-Dichlorobenzene	-	160	-	1,500	-		<i>nc</i>	--	--	--	< 1
1.2-Dichloroethane	-	-	-	3	-		<i>nc</i>	--	--	--	< 1
1.2-Dichloroethene (Total)	-	-	-	60	-		<i>nc</i>	--	--	--	ND
1.2-Dichloropropane	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
1.2.3-Trichloropropane	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
1.2.4-Trimethylbenzene	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
1.3-Dichlorobenzene	-	260	-	-	-		<i>nc</i>	--	--	--	< 1
1.3-Dichloropropane	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
1.3.5-Trimethylbenzene	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
1.4-Dichlorobenzene	-	60	-	40	-		<i>nc</i>	--	--	--	< 1
2-Butanone (MEK)	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
2-Propanone (Acetone)	-	-	-	-	-		<i>nc</i>	--	--	--	< 1

Notes:

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	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	RPD_T2	VP6/0.5-0.6	VP10/0.3-0.4	VP16/0.3-0.5	R1
	2 to <4 m	95%	95%	Water	Tapwater	Date	-	26/05/2020	26/05/2020	26/05/2020	27/05/2020
4-Chlorotoluene	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
4-Methyl-2-pentanone (MIBK)	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
Allyl chloride	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
Benzene	5,000	950	700	1	-		67%	< 100	< 100	< 100	< 1
Bromobenzene	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
Bromochloromethane	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
Bromodichloromethane	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
Bromoform	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
Bromomethane	-	-	-	1	-		<i>nc</i>	--	--	--	< 1
Carbon disulfide	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
Carbon tetrachloride	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
Chlorobenzene	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
Chloroethane	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
Chloroform	-	-	-	-	-		<i>nc</i>	--	--	--	< 5
Chloromethane	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
cis-1.2-Dichloroethene	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
cis-1.3-Dichloropropene	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
Dibromochloromethane	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
Dibromomethane	-	-	-	-	-		<i>nc</i>	--	--	--	< 1

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	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5						
	HSLs - D				RSL						
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	RPD_T2	VP6/0.5-0.6	VP10/0.3-0.4	VP16/0.3-0.5	R1
	2 to <4 m	95%	95%	Water	Tapwater	Date	-	26/05/2020	26/05/2020	26/05/2020	27/05/2020
Dichlorodifluoromethane	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
Ethylbenzene	NL	-	-	300	-		<i>nc</i>	< 100	< 100	< 100	< 1
Iodomethane	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
Isopropyl benzene (Cumene)	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
m&p-Xylenes	-	-	-	-	-		<i>nc</i>	< 200	< 200	< 200	< 2
Methylene chloride	-	-	-	4	-		<i>nc</i>	--	--	--	< 1
o-Xylene	-	350	-	-	-		<i>nc</i>	< 100	< 100	< 100	< 1
Styrene	-	-	-	30	-		<i>nc</i>	--	--	--	< 1
Tetrachloroethene	-	-	-	50	-		<i>nc</i>	--	--	--	< 1
Toluene	NL	-	-	800	-		<i>nc</i>	< 100	< 100	< 100	< 1
trans-1.2-Dichloroethene	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
trans-1.3-Dichloropropene	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
Trichloroethene	-	330	-	-	2.8		<i>nc</i>	--	--	--	< 1
Trichlorofluoromethane	-	-	-	-	-		<i>nc</i>	--	--	--	< 1
Vinyl chloride	-	100	-	0.3	-		<i>nc</i>	--	--	--	< 1
Xylenes - Total	NL	-	-	600	-		<i>nc</i>	< 300	< 300	< 300	< 3

Notes:

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Total concentrations in µg/L

- = assessment criteria not available

NL = not limiting

D1 = duplicate of MW203

T1 = triplicate of MW203

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RPD = relative percent difference of duplicate/triplicate

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Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5			
	HSLs - D				RSL			
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	R2	GW01-
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	9/06/2020
1.1-Dichloroethane	-	-	-	-	-		< 1	--
1.1-Dichloroethene	-	700	-	30	-		< 1	--
1.1.1-Trichloroethane	-	-	-	-	-		< 1	--
1.1.1.2-Tetrachloroethane	-	-	-	-	-		< 1	--
1.1.2-Trichloroethane	-	6,500	1,900	-	-		< 1	--
1.1.2.2-Tetrachloroethane	-	-	-	-	-		< 1	--
1.2-Dibromoethane	-	-	-	1	-		< 1	--
1.2-Dichlorobenzene	-	160	-	1,500	-		< 1	--
1.2-Dichloroethane	-	-	-	3	-		< 1	--
1.2-Dichloroethene (Total)	-	-	-	60	-		ND	--
1.2-Dichloropropane	-	-	-	-	-		< 1	--
1.2.3-Trichloropropane	-	-	-	-	-		< 1	--
1.2.4-Trimethylbenzene	-	-	-	-	-		< 1	--
1.3-Dichlorobenzene	-	260	-	-	-		< 1	--
1.3-Dichloropropane	-	-	-	-	-		< 1	--
1.3.5-Trimethylbenzene	-	-	-	-	-		< 1	--
1.4-Dichlorobenzene	-	60	-	40	-		< 1	--
2-Butanone (MEK)	-	-	-	-	-		< 1	--
2-Propanone (Acetone)	-	-	-	-	-		< 1	--

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

Criteria 2 = ANZG 2018 Guideline values, Freshwater, 95% species protection.

Criteria 3 = ANZG 2018 Guideline values, Marine water, 95% species protection.

Criteria 4 = NHMRC, Australian Drinking Water Guidelines, 2018.

Criteria 5 = US EPA (2019) Regional Screening Level (RSL), Generic Tables, Resident Tapwater (TR=1E-06, THQ=1.0).

Total concentrations in µg/L

- = assessment criteria not available

NL = not limiting

D1 = duplicate of MW203

T1 = triplicate of MW203

D2 = duplicate of MW205

T2 = triplicate of MW205

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

-- = sample not analysed

Bold/red indicates exceedance of assessment criteria

Table 2 : Summary of Groundwater Analytical Data - Volatile Organic Compounds

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5			
	HSLs - D				RSL			
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	R2	GW01-
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	9/06/2020
4-Chlorotoluene	-	-	-	-	-		< 1	--
4-Methyl-2-pentanone (MIBK)	-	-	-	-	-		< 1	--
Allyl chloride	-	-	-	-	-		< 1	--
Benzene	5,000	950	700	1	-		< 1	--
Bromobenzene	-	-	-	-	-		< 1	--
Bromochloromethane	-	-	-	-	-		< 1	--
Bromodichloromethane	-	-	-	-	-		< 1	--
Bromoform	-	-	-	-	-		< 1	--
Bromomethane	-	-	-	1	-		< 1	--
Carbon disulfide	-	-	-	-	-		< 1	--
Carbon tetrachloride	-	-	-	-	-		< 1	--
Chlorobenzene	-	-	-	-	-		< 1	--
Chloroethane	-	-	-	-	-		< 1	--
Chloroform	-	-	-	-	-		< 5	--
Chloromethane	-	-	-	-	-		< 1	--
cis-1.2-Dichloroethene	-	-	-	-	-		< 1	--
cis-1.3-Dichloropropene	-	-	-	-	-		< 1	--
Dibromochloromethane	-	-	-	-	-		< 1	--
Dibromomethane	-	-	-	-	-		< 1	--

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

Criteria 2 = ANZG 2018 Guideline values, Freshwater, 95% species protection.

Criteria 3 = ANZG 2018 Guideline values, Marine water, 95% species protection.

Criteria 4 = NHMRC, Australian Drinking Water Guidelines, 2018.

Criteria 5 = US EPA (2019) Regional Screening Level (RSL), Generic Tables, Resident Tapwater (TR=1E-06, THQ=1.0).

Total concentrations in µg/L

- = assessment criteria not available

NL = not limiting

D1 = duplicate of MW203

T1 = triplicate of MW203

D2 = duplicate of MW205

T2 = triplicate of MW205

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

-- = sample not analysed

Bold/red indicates exceedance of assessment criteria

Table 2 : Summary of Groundwater Analytical Data - Volatile Organic Compounds

Groundwater Monitoring Event

Project No.: 2001029

11-13 Percy Street

Auburn NSW

	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5			
	HSLs - D				RSL			
	Sand	Freshwater	Marine	Drinking	Resident	Sample ID	R2	GW01-
	2 to <4 m	95%	95%	Water	Tapwater	Date	27/05/2020	9/06/2020
Dichlorodifluoromethane	-	-	-	-	-		< 1	--
Ethylbenzene	NL	-	-	300	-		< 1	--
Iodomethane	-	-	-	-	-		< 1	--
Isopropyl benzene (Cumene)	-	-	-	-	-		< 1	--
m&p-Xylenes	-	-	-	-	-		< 2	--
Methylene chloride	-	-	-	4	-		< 1	--
o-Xylene	-	350	-	-	-		< 1	--
Styrene	-	-	-	30	-		< 1	--
Tetrachloroethene	-	-	-	50	-		< 1	--
Toluene	NL	-	-	800	-		< 1	--
trans-1,2-Dichloroethene	-	-	-	-	-		< 1	--
trans-1,3-Dichloropropene	-	-	-	-	-		< 1	--
Trichloroethene	-	330	-	-	2.8		< 1	--
Trichlorofluoromethane	-	-	-	-	-		< 1	--
Vinyl chloride	-	100	-	0.3	-		< 1	--
Xylenes - Total	NL	-	-	600	-		< 3	--

Notes:

Criteria 1 = NEPC (1999) Amended, 'D' Comm./ind. Groundwater Health Screening Levels for vapour intrusion, sand 2 to <4m.

Criteria 2 = ANZG 2018 Guideline values, Freshwater, 95% species protection.

Criteria 3 = ANZG 2018 Guideline values, Marine water, 95% species protection.

Criteria 4 = NHMRC, Australian Drinking Water Guidelines, 2018.

Criteria 5 = US EPA (2019) Regional Screening Level (RSL), Generic Tables, Resident Tapwater (TR=1E-06, THQ=1.0).

Total concentrations in µg/L

- = assessment criteria not available

NL = not limiting

D1 = duplicate of MW203

T1 = triplicate of MW203

D2 = duplicate of MW205

T2 = triplicate of MW205

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

-- = sample not analysed

Bold/red indicates exceedance of assessment criteria

ATTACHMENT A

Multi Parameter Water Meter

Instrument **YSI Quatro Pro Plus**
 Serial No. **18L102024**



Air-Met Scientific Pty Ltd
 1300 137 067

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
Switch/keypad	Operation	✓	
Display	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	1. pH	✓	
	2. mV	✓	
	3. EC	✓	
	4. D.O	✓	
	5. Temp	✓	
Alarms	Beeper		
	Settings		
Software	Version		
Data logger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
1. pH 7.00		pH 7.00		330737	pH 7.00
2. pH 4.00		pH 4.00		330734	pH 3.94
3. pH 10.00		pH 10.00		338775	pH 9.83
3. mV		229.6mV		346052/342074	230.1mV
4. EC		2.76mS		333787	2.74mS
5. D.O		0.00ppm		1904288592	0.04ppm
6. Temp		22.1°C		MultiTherm	21.8°C

Calibrated by: Sarah Lian

Calibration date: **21/05/2020**

Next calibration due: **20/06/2020**

Multi Parameter Water Meter

Instrument **YSI Quatro Pro Plus**
Serial No. **11C100764**



Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
Switch/keypad	Operation	✓	
Display	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	1. pH	✓	
	2. mV	✓	
	3. EC	✓	
	4. D.O	✓	
	5. Temp	✓	
Alarms	Beeper	✓	
	Settings	✓	
Software	Version	✓	
Data logger	Operation	✓	
Download	Operation	✓	
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
1. pH 10.00		pH 10.00		352607	pH 9.81
2. pH 7.00		pH 7.00		330737	pH 7.00
3. pH 4.00		pH 4.00		330734	pH 4.06
4. mV		236.2mV		346052/342074	235.9mV
5. EC		2.76mS		333787	2.76mS
6. D.O		0.00 ppm		1904288592	0.00ppm
7. Temp		19°C		MultiTherm	17.5°C

Calibrated by: Sarah Lian

Calibration date: **05/06/2020**

Next calibration due: **02/12/2020**

ATTACHMENT B

Summary of Field Chemistry – May 2020

ID	SWL (mAHD)	pH	EC (mS/cm)	ORP (mV)	DO (mg/L)	Temp (°C)	Colour	Odour	Comment
MW101	3.457	6.58	13000	2.7	0.34	20	moderately turbid	none	
MW102	3.209	7.15	104.4	9.3	5.51	20	cloudy	hydrocarbon odour	
MW103	2.847	5.17	40.6	51.3	2.35	22.8	minor sheen	none	
MW104	3.445	6.02	8.5	62.4	3.95	22.7	brown with faint sheen	none	
MW106	3.52	6.28	20	-42.2	3.61	20.9	cloudy, faint sheen	none	
MW107	4.974	8.05	12.2	-7	2.9	21.1	clear	faint sulphur odour	
MW108	5.346	6.63	4.9	24.2	2.13	21.4	cloudy brown, faint sheen		
MW109	5.813	6.81	24.2	-83.9	0.62	21	cloudy	strong sulphur odour	
MW110	5.041	6.72	104.7	-0.5	5.01	19.7	slightly cloudy	none	
MW111	4.308	6.43	501	13.7	6.07	21.5	cloudy brown, faint sheen	none	
MW112	4.475	6.69	67.1	57.2	1.14	NR	clear	none	
MW113	4.86	6.28	58.3	175.8	2.76	20.4	slightly cloudy brown	none	
MW114	4.281	6.99	95.6	404.2	4.15	19.3	clear	none	
MW115	4.056	6.24	52	31.5	2.71	18.8	yellow with faint sheen	metallic odour	
MW116	3.3	6.03	35.1	12.9	1.33	19.5	slightly cloudy with faint sheen	none	
MW117	2.692	6.17	23.8	160.1	1.19	21.1	clear	none	
MW118	2.256	6.75	80	11.8	0.67	NR	slightly brown at first	none	
MW119	3.074	6.57	4.5	-29.1	305	20.4	brown with faint sheen	metallic and sulphur odour	
MW120	3.852	7.73	77.9	5.7	2.87	20.9	cloudy	sulphur and hydrocarbon odour	
MW121	4.691	6.69	37.4	147.8	2.79	21.3	slightly cloudy	none	
GW1	5.272	6.65	10015	1.1	0.22	24.7	cloudy	none	
GW2	6.651	7.42	22.6	-8.1	6.41	20.7	slightly cloudy	none	

ID	SWL (mAHD)	pH	EC (mS/cm)	ORP (mV)	DO (mg/L)	Temp (°C)	Colour	Odour	Comment
GW04	4.207	6.78	42.2	239.2	4.71	22.5	clear	faint odour	
MW201	4.929	6.63	82.7	38.4	1.09	19.5	cloudy with faint sheen	none	
MW202	4.46	6.17	69.8	78.1	1.05	21.7	clear		water appeared carbonated?
MW203	4.89	6.53	6.4	9.6	20.01	21	clear	none	QAQC sample #1
MW204	3.7167	6.53	43.2	-68	0.82	20.9	clear	sulphur odour	
MW205	3.089	6.27	49.2	2.2	2.91	20.4	clear	faint sulphur odour	QAQC sample #2



Geo-Logix

GROUNDWATER SAMPLE LOG

WELL ID: MW101

PROJECT INFORMATION

PROJECT NUMBER:	2001024	INITIALS:	CP
DATE:	27/5	WEATHER:	Sunny
SAMPLING METHOD:	LOW FLOW: <input checked="" type="checkbox"/>	HYDRASLEEVE: <input type="checkbox"/>	BAILER: <input type="checkbox"/>

WELL GAUGING DETAILS

STANDING WATER LEVEL (mbTOC):	3.315	TOTAL DEPTH (mbTOC):	7.127	TIME:
DEPTH TO PSH (mbTOC):		THICKNESS OF PSH (m):		

FIELD PARAMETERS

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/- 10%	TEMP (°C)
8:35	3.872	4.5	6.52	13000	2.7	0.34	20.0
8:40	3.860	6L	6.88	116.5	-8.3	5.17	20.0
8:45	3.860	7.5L	6.66	83.1	21.8	5.73	19.9
8:50	3.858	9L	6.61	72.4	33.6	5.78	19.9
8:55	3.858	10.5L	6.58	67.8	39.1	4.98	19.9
9:00	3.857	12L	6.58	68.9	41.7	4.21	19.9
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

OBSERVATIONS DURING SAMPLING

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR)	Initial high sediment, moderately turbid once stabilised
RECHARGE BEHAVIOUR:	FAST RECHARGING <input checked="" type="checkbox"/> SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) <input type="checkbox"/>

WELL SAMPLING

DTW (mbTOC): (AT SAMPLING)	3.857	
ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: MW101	SAMPLE ID:	SAMPLE ID:
SAMPLE TIME: 9:05	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4x Vial 2x amber	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



GROUNDWATER SAMPLE LOG

WELL ID: MW102

PROJECT NUMBER: 2001029	INITIALS: CP
DATE: 2/8/5	WEATHER: Sunny
SAMPLING METHOD: <input type="checkbox"/> LOW FLOW: <input checked="" type="checkbox"/> HYDRASLEEVE: <input type="checkbox"/> BAILER: <input type="checkbox"/>	

STANDING WATER LEVEL (mBTC):	2.627	TOTAL DEPTH (mBTC):	3.947	TIME:
DEPTH TO PSH (mBTC):		THICKNESS OF PSH (m):		

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/- 10%	TEMP (°C)
9:20	3.575	2.8L	7.25	136.1	11.6	2.46	20.6
9:25	3.575	3.8L	7.60	118.1	9.1	3.41	20.0
9:30	3.575	4.8L	7.15	104.4	9.3	5.51	20.2
9:35	3.580						
29/5 samples taken without WQ as low water level							
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR) (Quite clear with some opaque suspended load 28/5) (Clear, with strong initial odour a sweet H

RECHARGE BEHAVIOUR: FAST RECHARGING ☒ SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☐

DTW (mbTOC): (AT SAMPLING) All samples taken on 29/5		
ORIGINAL	DUPLICATE Extra	TRIPLICATE
SAMPLE ID: MW102	SAMPLE ID: MW102	SAMPLE ID:
SAMPLE TIME: 10:00	SAMPLE TIME: 10:10	SAMPLE TIME:
NO. CONTAINERS: 4xV 2xA	NO. CONTAINERS 4xV 2xA	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



GROUNDWATER SAMPLE LOG

WELL ID: MW103

PROJECT NUMBER: 2001029	INITIALS: CP
DATE: 2715	WEATHER: Sunny
SAMPLING METHOD: LOW FLOW: <input checked="" type="checkbox"/>	HYDRASLEEVE: <input type="checkbox"/> BAILER: <input type="checkbox"/>

STANDING WATER LEVEL (mBTC):	1.685	TOTAL DEPTH (mBTC):	3.169	TIME:
DEPTH TO PSH (mBTC):	2.119	THICKNESS OF PSH (m):		

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/- 10%	TEMP (°C)
02:00	2.425	4.5	5.15	44.8	58.2	2.93	23.0
3:05	2.435	5L	5.14	43.2	54.8	2.59	22.9
3:10	2.441	5.4L	5.17	40.6	51.3	2.35	22.8
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR) Dark brown very minor sheen
very minor sheen

RECHARGE BEHAVIOUR: FAST RECHARGING ☐ SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☒

DTW (mbTOC): (AT SAMPLING) 2.447 m		
ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: MW103	SAMPLE ID:	SAMPLE ID:
SAMPLE TIME: 3:15	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4xV, 2x4	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



Geo-Logix

GROUNDWATER SAMPLE LOG

WELL ID: MW104

PROJECT INFORMATION

PROJECT NUMBER: 1001009

INITIALS: CP

DATE: 27/5

WEATHER: Sunny

SAMPLING METHOD: LOW FLOW: ☒

HYDRASLEEVE: ☐

BAILER: ☐

WELL GAUGING DETAILS

STANDING WATER LEVEL (mbTOC): 0.927

TOTAL DEPTH (mbTOC): 3.598

TIME: 12.00

DEPTH TO PSH (mbTOC):

THICKNESS OF PSH (m):

FIELD PARAMETERS

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/- 10%	TEMP (°C)
2:02	0.451	8	6.23	8.1	47.4	5.01	22.7
2:07	0.451	10	6.11	8.2	58.0	4.59	22.7
2:12	0.455	12	6.07	8.3	62.3	4.07	22.7
2:17	0.456	14	6.02	8.5	62.4	3.95	22.7
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

OBSERVATIONS DURING SAMPLING

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR)

Brown, with light sheen

RECHARGE BEHAVIOUR:

FAST RECHARGING ☒

SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☐

WELL SAMPLING

DTW (mbTOC): (AT SAMPLING)

0.956

ORIGINAL	DUPLICATE Extra	TRIPPLICATE
SAMPLE ID: MW104	SAMPLE ID: MW104	SAMPLE ID:
SAMPLE TIME: 0.956	SAMPLE TIME: 0.956	SAMPLE TIME:
NO. CONTAINERS: 4x V, 2x A	NO. CONTAINERS 4x V, 2x A	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



WELL ID: MW106

PROJECT NUMBER: 2001024	INITIALS: CP
DATE: 2/8/5	WEATHER: Sunny
SAMPLING METHOD: LOW FLOW: <input checked="" type="checkbox"/>	HYDRASLEEVE: <input type="checkbox"/> BAILER: <input type="checkbox"/>

STANDING WATER LEVEL (mBTC): 1.082	TOTAL DEPTH (mBTC): 3.770	TIME:
DEPTH TO PSH (mBTC):	THICKNESS OF PSH (m):	

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/-10%	TEMP (°C)
12:55	2.1.65	2.5	6.25	30.8	-46.1	3.59	20.9
13:00	1.671	2.9L	6.27	21.2	-44.9	3.74	20.8
13:00	1.692	3.3L	6.28	20.0	-42.2	3.61	20.4
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR) Cloudy, Spring water from casing, light sheen

RECHARGE BEHAVIOUR: FAST RECHARGING ☐ SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☒

DTW (mbTOC): (AT SAMPLING) 16700		
ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: 16700 MW106	SAMPLE ID:	SAMPLE ID:
SAMPLE TIME: 13:05	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4xV 2x A	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



GROUNDWATER SAMPLE LOG

WELL ID: MW107

PROJECT NUMBER: 2001029	INITIALS: CP
DATE: 2/15	WEATHER: Overcast
SAMPLING METHOD: LOW FLOW: <input checked="" type="checkbox"/>	HYDRASLEEVE: <input type="checkbox"/> BAILER: <input type="checkbox"/>

STANDING WATER LEVEL (mBTC):	1.354	TOTAL DEPTH (mBTC):	3.816	TIME:
DEPTH TO PSH (mBTC):		THICKNESS OF PSH (m):		

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/-10%	TEMP (°C)
08:50	2.942	2.4L	7.88	13.8	4.8	2.78	21.0
08:55	2.004	2.5L	7.98	12.7	0	3.24	21.1
09:00	2.101	2.6L	8.05	12.2	-4.0	2.91	21.2
09:05	2.192	2.7L	8.05	12.2	-7	2.90	21.1
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR) *Clear, Slight odour, weak sulphur smell*

RECHARGE BEHAVIOUR: FAST RECHARGING ☐ SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☒

DTW (mbTOC): (AT SAMPLING) 2. 199		
ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: MW 107	SAMPLE ID:	SAMPLE ID:
SAMPLE TIME: 09:10	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: Ux4, Ax2	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



GROUNDWATER SAMPLE LOG

WELL ID: MW108

PROJECT NUMBER: 2001029	INITIALS: CP
DATE: 28/5/20	WEATHER: Sunny
SAMPLING METHOD: LOW FLOW: <input checked="" type="checkbox"/>	HYDRASLEEVE: <input type="checkbox"/> BAILER: <input type="checkbox"/>

STANDING WATER LEVEL (mBTC):	1.724	TOTAL DEPTH (mBTC):	3.385	TIME:
DEPTH TO PSH (mBTC):		THICKNESS OF PSH (m):		

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/-10%	TEMP (°C)
4:18	1.876	2.2L	6.71	27.0	35.0	0.91	21.5
4:23	1.877	3.1L	6.63	26.2	26.2	1.32	21.3
4:28	1.887	4.1L	6.63	24.9	24.2	2.13	21.4
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR) *Quite brown, minor sheen*

RECHARGE BEHAVIOUR: FAST RECHARGING ☒ SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☐

DTW (mbTOC): (AT SAMPLING) 1.890		
ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: MW108	SAMPLE ID:	SAMPLE ID:
SAMPLE TIME: 4:30	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4xV, 2x4	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



Geo-Logix

GROUNDWATER SAMPLE LOG

WELL ID: Mw109

PROJECT INFORMATION

PROJECT NUMBER: 2001029	INITIALS: CP
DATE: 28/5	WEATHER: cloudy
SAMPLING METHOD:	LOW FLOW: <input checked="" type="checkbox"/> HYDRASLEEVE: <input type="checkbox"/> BAILER: <input type="checkbox"/>

WELL GAUGING DETAILS

STANDING WATER LEVEL (mbTOC): 1.151	TOTAL DEPTH (mbTOC): 3.897	TIME:
DEPTH TO PSH (mbTOC):	THICKNESS OF PSH (m):	

FIELD PARAMETERS

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/- 10%	TEMP (°C)
16:38	2.292	3.2L	6.82	25.1	-87.1	1.67	20.4
16:43	2.351	3.35L	6.80	24.5	-83.6	2.23	20.4
16:48	2.416	3.5L	6.81	24.2	-83.9	2.62	20.0
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

OBSERVATIONS DURING SAMPLING

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR) Very muddy, heavy sulphur smell

RECHARGE BEHAVIOUR: FAST RECHARGING ☐ SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☒

WELL SAMPLING

DTW (mbTOC): (AT SAMPLING) 2.497		
ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: Mw109	SAMPLE ID:	SAMPLE ID:
SAMPLE TIME: 16:50	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4xV, 2A	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



Geo-Logix

GROUNDWATER SAMPLE LOG

WELL ID: MW110

PROJECT INFORMATION

PROJECT NUMBER:	2001029	INITIALS:	CP
DATE:	22/5	WEATHER:	Indoors
SAMPLING METHOD:	LOW FLOW: <input checked="" type="checkbox"/>	HYDRASLEEVE: <input type="checkbox"/>	BAILER: <input type="checkbox"/>

WELL GAUGING DETAILS

STANDING WATER LEVEL (mbTOC):	2.189	TOTAL DEPTH (mbTOC):	4.285	TIME:
DEPTH TO PSH (mbTOC):		THICKNESS OF PSH (m):		

FIELD PARAMETERS

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/- 10%	TEMP (°C)
10:40	2.531	1.5L	6.71	132.4	-220	4.43	20.1
10:45	2.550	1.9L	6.7	116.7	-110.8	4.63	19.8
10:50	2.570	2.3L	6.71	108.7	-102	4.87	19.7
10:55	2.590	2.75L	6.72	104.7	-90.5	5.01	19.7
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

OBSERVATIONS DURING SAMPLING

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR)	Low flow, slightly cloudy sample
RECHARGE BEHAVIOUR:	FAST RECHARGING <input type="checkbox"/> SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) <input checked="" type="checkbox"/>

WELL SAMPLING

DTW (mbTOC): (AT SAMPLING)	2.600	
ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: MW110	SAMPLE ID:	SAMPLE ID:
SAMPLE TIME: 11:00	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4xV, 2x4	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



Geo-Logix

GROUNDWATER SAMPLE LOG

WELL ID: MW111

PROJECT INFORMATION

PROJECT NUMBER: 20001024	INITIALS: CP
DATE: 28/5	WEATHER: Sunny
SAMPLING METHOD: LOW FLOW: <input checked="" type="checkbox"/>	HYDRASLEEVE: <input type="checkbox"/> BAILER: <input type="checkbox"/>

WELL GAUGING DETAILS

STANDING WATER LEVEL (mbTOC): 1.545	TOTAL DEPTH (mbTOC): 4.775	TIME:
DEPTH TO PSH (mbTOC):	THICKNESS OF PSH (m):	

FIELD PARAMETERS

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/- 10%	TEMP (°C)
7:30	2.076	3	6.36	58.6	22.1	2.52	21.4
7:35	2.098	4.2	6.35	43.1	37.2	3.02	21.5
7:40	2.098	5.4	6.34	39.9	45.1	2.85	21.6
7:45	2.096	6.6	6.34	36.1	51.7	2.61	21.7
distinct colour change during sampling							
8:00	2.093	9L	6.43	50.1	13.7	6.07	21.5
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

OBSERVATIONS DURING SAMPLING

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR) Murky brown, no sheen
change to clear during sampling

RECHARGE BEHAVIOUR: FAST RECHARGING ☒ SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☐

WELL SAMPLING

DTW (mbTOC): (AT SAMPLING) 2.044		
ORIGINAL	DUPLICATE Extra	TRIPLICATE
SAMPLE ID: MW111	SAMPLE ID: 1	SAMPLE ID:
SAMPLE TIME: 8:05	SAMPLE TIME: 8:10	SAMPLE TIME:
NO. CONTAINERS: 4xV 2x4	NO. CONTAINERS: 4xV, 2x4	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



WELL ID: MW112

PROJECT NUMBER: 2001024	INITIALS: CP
DATE: 2/8/15	WEATHER: Cloudy
SAMPLING METHOD: LOW FLOW: <input checked="" type="checkbox"/>	HYDRASLEEVE: <input type="checkbox"/> BAILER: <input type="checkbox"/>

STANDING WATER LEVEL (mBTC):	0.655	TOTAL DEPTH (mBTC):	4.040	TIME:
DEPTH TO PSH (mBTC):		THICKNESS OF PSH (m):		

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/-10%	TEMP (°C)
4:00	1.074	2.6L	6.75	85.2	47.3	1.26	
4:05	1.074	3.8L	6.72	87.1	53.8	1.21	
4:16	1.077	5L	6.69	87.1	57.2	1.14	
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR) Clear

RECHARGE BEHAVIOUR: FAST RECHARGING ☒ SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☐

DTW (mbTOC): (AT SAMPLING) 1077		
ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: MW112	SAMPLE ID:	SAMPLE ID:
SAMPLE TIME: 4:15	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4V, 2A	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



Geo-Logix

GROUNDWATER SAMPLE LOG

WELL ID: MW113

PROJECT INFORMATION

PROJECT NUMBER: 2001029

INITIALS: CP

DATE: 28/5

WEATHER: Inclement

SAMPLING METHOD:

LOW FLOW: ☒

HYDRASLEEVE: ☐

BAILER: ☐

WELL GAUGING DETAILS

STANDING WATER LEVEL (mbTOC): 2380

TOTAL DEPTH (mbTOC): 8.75

TIME:

DEPTH TO PSH (mbTOC):

THICKNESS OF PSH (m):

FIELD PARAMETERS

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/- 10%	TEMP (°C)
12:10	20839	3L	6.35	59.1	180.5	1.88	20.1
12:15	20841	4L	6.30	58.2	178.2	2.79	20.3
12:20	20837	5L	6.28	58.3	175.8	2.76	20.4
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

OBSERVATIONS DURING SAMPLING

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR)

Very murky initial pump, mild/moderate

turbidity when samples taken

RECHARGE BEHAVIOUR:

FAST RECHARGING ☒

SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☐

WELL SAMPLING

DTW (mbTOC): (AT SAMPLING) 20839

ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: MW113	SAMPLE ID:	SAMPLE ID:
SAMPLE TIME: 12:22	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4xJ, 2x A	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



Geo-Logix

GROUNDWATER SAMPLE LOG

WELL ID: MW114

PROJECT INFORMATION

PROJECT NUMBER: 2001029

INITIALS: CP

DATE: 28/5

WEATHER: Indobors

SAMPLING METHOD: LOW FLOW: ☒

HYDRASLEEVE: ☐

BAILER: ☐

WELL GAUGING DETAILS

STANDING WATER LEVEL (mbTOC): 2.959

TOTAL DEPTH (mbTOC): 5.799

TIME:

DEPTH TO PSH (mbTOC):

THICKNESS OF PSH (m):

FIELD PARAMETERS

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/- 10%	TEMP (°C)
11:30	3.172	2	6.98	103.9	385.2	4.35	14.3
11:35	3.175	2.5L	6.98	97.2	400.1	4.23	14.2
11:40	3.172	3.4L	6.99	95.6	404.2	4.15	14.3
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

OBSERVATIONS DURING SAMPLING

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR)

Water mostly clear, light brown and odour

in bucket

RECHARGE BEHAVIOUR:

FAST RECHARGING ☐

SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☐

WELL SAMPLING

DTW (mbTOC): (AT SAMPLING) 3.171

ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: MW114	SAMPLE ID:	SAMPLE ID:
SAMPLE TIME: 11:42	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4.0, 2.4	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



Geo-Logix

GROUNDWATER SAMPLE LOG

WELL ID: Mw115

PROJECT INFORMATION

PROJECT NUMBER: 2001024

INITIALS: CP

DATE: 28/5

WEATHER: Sunny

SAMPLING METHOD:

LOW FLOW: ☒

HYDRASLEEVE: ☐

BAILER: ☐

WELL GAUGING DETAILS

STANDING WATER LEVEL (mbTOC): 0.344

TOTAL DEPTH (mbTOC): 3.300

TIME:

DEPTH TO PSH (mbTOC):

THICKNESS OF PSH (m):

FIELD PARAMETERS

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/- 10%	TEMP (°C)
14:15	0.517	5.0L	6.27	52.7	31.1	2.05	18.7
14:20	0.521	7.5L	6.24	56.7	31.6	2.48	18.8
14:25	0.529	9L	6.24	52.0	31.5	2.71	
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

OBSERVATIONS DURING SAMPLING

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR)

very shallow standing water, skin visible, water clear, but distinctly yellow with light sheen, metallic smell

RECHARGE BEHAVIOUR:

FAST RECHARGING ☒

SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☐

WELL SAMPLING

DTW (mbTOC): (AT SAMPLING)

ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: Mw115	SAMPLE ID:	SAMPLE ID:
SAMPLE TIME: 14:26	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4xV, 2xH	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



Geo-Logix

GROUNDWATER SAMPLE LOG

WELL ID: MW116

PROJECT INFORMATION

PROJECT NUMBER:	2001029	INITIALS:	ep
DATE:	28/5	WEATHER:	Indoors
SAMPLING METHOD:	LOW FLOW: <input type="checkbox"/>	HYDRASLEEVE: <input type="checkbox"/>	BAILER: <input type="checkbox"/>

WELL GAUGING DETAILS

STANDING WATER LEVEL (mbTOC):	1.000	TOTAL DEPTH (mbTOC):	3.538	TIME:
DEPTH TO PSH (mbTOC):		THICKNESS OF PSH (m):		

FIELD PARAMETERS

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/- 10%	TEMP (°C)
13:38	1.548	3.1L	6.08	34.7	11.0	1.54	19.5
13:43	1.611	3.3L	6.05	36.1	11.9	1.37	19.5
13:48	1.627	3.5L	6.03	35.1	12.9	1.33	19.5
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

OBSERVATIONS DURING SAMPLING

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR) Slightly cloudy with light sheen in bucket.

RECHARGE BEHAVIOUR: FAST RECHARGING ☐ SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☒

WELL SAMPLING

DTW (mbTOC): (AT SAMPLING) 1.631		
ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: MW116	SAMPLE ID:	SAMPLE ID:
SAMPLE TIME: 13:50	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4xV, 2xH	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



GROUNDWATER SAMPLE LOG

WELL ID: Mw117

PROJECT NUMBER:	2001029	INITIALS:	CP
DATE:	29/5	WEATHER:	Drizzle
SAMPLING METHOD:	LOW FLOW: <input checked="" type="checkbox"/>	HYDRASLEEVE: <input type="checkbox"/>	BAILER: <input type="checkbox"/>

STANDING WATER LEVEL (mBTC):	1.898	TOTAL DEPTH (mBTC):	6.202	TIME:
DEPTH TO PSH (mBTC):		THICKNESS OF PSH (m):		

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/-10%	TEMP (°C)
12:42	2.523	3.8	6.17	31.6	169.0	1.11	21.0
12:47	2.524	5L	6.18	31.7	164.4	1.00	21.1
12:53	2.528	6L	6.17	23.8	160.1	1.19	21.1
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR) Initial brown purge, mostly clear sample & WQ

RECHARGE BEHAVIOUR: FAST RECHARGING ☒ SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☐

DTW (mbTOC): (AT SAMPLING) 20529		
ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: MW117	SAMPLE ID:	SAMPLE ID:
SAMPLE TIME: 12:55	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4xV, 2x A	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



GROUNDWATER SAMPLE LOG

WELL ID: MW18

PROJECT NUMBER: 2001029	INITIALS: CP
DATE: 2001029 29/5	WEATHER: Overcast
SAMPLING METHOD: LOW FLOW: <input checked="" type="checkbox"/>	HYDRASLEEVE: <input type="checkbox"/> BAILER: <input type="checkbox"/>

STANDING WATER LEVEL (mBTC): 3.104	TOTAL DEPTH (mBTC): 4.209	TIME:
DEPTH TO PSH (mBTC):	THICKNESS OF PSH (m):	

[illegible]

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR)

light brown purge with moderately clear samples,

RECHARGE BEHAVIOUR: FAST RECHARGING ☐ SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☒

DTW (mbTOC): (AT SAMPLING) 3.178		
ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: MW118	SAMPLE ID:	SAMPLE ID:
SAMPLE TIME: 2:10	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4+V, 2+A	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



Geo-Logix

GROUNDWATER SAMPLE LOG

WELL ID: Mw119

PROJECT INFORMATION

PROJECT NUMBER: 2001029

INITIALS: CP

DATE: 29/5

WEATHER: overcast

SAMPLING METHOD:

LOW FLOW: ☒

HYDRASLEEVE: ☐

BAILER: ☐

WELL GAUGING DETAILS

STANDING WATER LEVEL (mbTOC): 2.306

TOTAL DEPTH (mbTOC): 4.47

TIME:

DEPTH TO PSH (mbTOC):

THICKNESS OF PSH (m):

FIELD PARAMETERS

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/- 10%	TEMP (°C)
14:47	2.498	3L	6.52	6.8	-43.4	4.82	20.4
14:52	2.498	4L	6.52	5.4	-33.9	3.51	20.5
14:58	2.502	4.4L	6.55	4.5	-29.2	3.17	20.3
13:02	2.503	4.7L	6.57	4.5	-29.1	3.05	20.4
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

OBSERVATIONS DURING SAMPLING

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR)

Muddy brown, Sheen, metallic & sulphur

odour

RECHARGE BEHAVIOUR:

FAST RECHARGING ☐

SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☒

WELL SAMPLING

DTW (mbTOC): (AT SAMPLING)

~~2.504~~ 2.504

ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: Mw119	SAMPLE ID:	SAMPLE ID:
SAMPLE TIME: 13:05	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4+V, 2+A	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



Geo-Logix

GROUNDWATER SAMPLE LOG

WELL ID: MW120

PROJECT INFORMATION

PROJECT NUMBER:	2001029	INITIALS:	CP
DATE:	29/5	WEATHER:	cloudy
SAMPLING METHOD:	LOW FLOW: <input checked="" type="checkbox"/>	HYDRASLEEVE: <input type="checkbox"/>	BAILER: <input type="checkbox"/>

WELL GAUGING DETAILS

STANDING WATER LEVEL (mbTOC):	1.678	TOTAL DEPTH (mbTOC):	5.931	TIME:
DEPTH TO PSH (mbTOC):		THICKNESS OF PSH (m):		

FIELD PARAMETERS

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/- 10%	TEMP (°C)
16:18	2.246	1.2L	7.54	100.2	-23.4	4.93	20.4
16:23	2.354	1.9L	7.57	88.9	-11.4	1.72	20.7
16:28	2.482	2.4L	7.63	87.3	-3.9	2.14	20.8
16:33	2.495	2.9L	7.70	84.4	0.8	2.63	20.9
16:37	2.517	3.3L	7.73	77.9	5.7	2.87	20.9
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

OBSERVATIONS DURING SAMPLING

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR)

moderate - poor clarity
some slight sulphur & oil odour

RECHARGE BEHAVIOUR: FAST RECHARGING ☐ SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☒

WELL SAMPLING

DTW (mbTOC): (AT SAMPLING) 2.527

ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: MW120	SAMPLE ID:	SAMPLE ID:
SAMPLE TIME: 16:39	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4xV, 2xH	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



GROUNDWATER SAMPLE LOG

WELL ID: Mw201

PROJECT NUMBER: 2001029

INITIALS: CP

DATE: 29/5

WEATHER: Overcast / drizzle

SAMPLING METHOD:

LOW FLOW:



HYDRASLEEVE:

5

BAILER:

☐

STANDING WATER LEVEL (mBTC): 0.821

TOTAL DEPTH (mBTOC): 11.78

TIME:

DEPTH TO PSH (mBTOC):

THICKNESS OF PSH (m):

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/-10%	TEMP (°C)
10:30	1.054	3L	6.64	74.4	44.7	1.08	19.5
10:35	1.058	5L	6.65	75.3	39.5	1.36	19.5
10:40	1.061	7L	6.63	82.7	38.4	1.09	19.5
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR)

Slightly cloudy with some light sheer

RECHARGE BEHAVIOUR:

FAST RECHARGING

☒

SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS)

☐

DTW (mbTOC): (AT SAMPLING)

1061

ORIGINAL

DUPLICATE

TRIPLICATE

SAMPLE ID: MW201

SAMPLE ID:

SAMPLE ID:

SAMPLE TIME: 10.47

SAMPLE TIME:

SAMPLE TIME:

NO. CONTAINERS: 4+V 2+A

NO. CONTAINERS

NO. CONTAINERS

ANALYSIS:

ANALYSIS:

ANALYSIS:

ORIGINAL FIELD RECORD



Geo-Logix

GROUNDWATER SAMPLE LOG

WELL ID: MW202

PROJECT INFORMATION

PROJECT NUMBER: 2001029	INITIALS: CP
DATE: 28/5	WEATHER: Sunny
SAMPLING METHOD: <input checked="" type="checkbox"/> LOW FLOW: <input checked="" type="checkbox"/>	HYDRASLEEVE: <input type="checkbox"/> BAILER: <input type="checkbox"/>

WELL GAUGING DETAILS

STANDING WATER LEVEL (mbTOC): 0.490	TOTAL DEPTH (mbTOC): 14.102	TIME:
DEPTH TO PSH (mbTOC):	THICKNESS OF PSH (m):	

FIELD PARAMETERS

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/- 10%	TEMP (°C)
3:05	0.529	4.7L	6.31	78.1	54.7	3.82	20.8
3:10	0.540	6.6L	6.22	70.5	72.3	2.77	21.7
3:15	0.549	8.5L	6.19	79.2	77.3	1.25	21.7
3:20	0.549	10.8L	6.17	69.8	78.1	1.05	21.7
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

OBSERVATIONS DURING SAMPLING

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR)	Very clear, water appears carbonated.
RECHARGE BEHAVIOUR:	FAST RECHARGING <input checked="" type="checkbox"/> SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) <input type="checkbox"/>

WELL SAMPLING

DTW (mbTOC): (AT SAMPLING) 14.102 0.549		
ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: MW202	SAMPLE ID:	SAMPLE ID:
SAMPLE TIME: 3:22	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4.5, 2A	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



Geo-Logix

GROUNDWATER SAMPLE LOG

WELL ID: MW203

PROJECT INFORMATION

PROJECT NUMBER: 2001029

INITIALS: CP

DATE: 29/5

WEATHER: Cloudy

SAMPLING METHOD:

LOW FLOW: ☒

HYDRASLEEVE: ☐

BAILER: ☐

WELL GAUGING DETAILS

STANDING WATER LEVEL (mbTOC): 2120

TOTAL DEPTH (mbTOC): 11.732

TIME:

DEPTH TO PSH (mbTOC):

THICKNESS OF PSH (m):

FIELD PARAMETERS

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/- 10%	TEMP (°C)
09:28	2.135	3L	6.53	7.5	18.4	1.38	20.4
09:33	2.135	48L	6.53	6.7	13.8	1.44	20.8
09:38	2.135	8.9L	6.53	6.4	9.6	2.01	21.0
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

OBSERVATIONS DURING SAMPLING

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR)

Clear

RECHARGE BEHAVIOUR:

FAST RECHARGING ☒

SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☐

WELL SAMPLING

DTW (mbTOC): (AT SAMPLING) 2.135

ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: MW203	SAMPLE ID: D1	SAMPLE ID: T1
SAMPLE TIME: 09:40	SAMPLE TIME: 9:43	SAMPLE TIME: 9:46
NO. CONTAINERS: V+4, A+2	NO. CONTAINERS V+4, A+2	NO. CONTAINERS V+4, A+2
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



Geo-Logix

GROUNDWATER SAMPLE LOG

WELL ID: MW204

PROJECT INFORMATION

PROJECT NUMBER: 2001029	INITIALS: CP
DATE: 29/5	WEATHER: drizzle
SAMPLING METHOD:	LOW FLOW: <input checked="" type="checkbox"/> HYDRASLEEVE: <input type="checkbox"/> BAILER: <input type="checkbox"/>

WELL GAUGING DETAILS

STANDING WATER LEVEL (mbTOC): 0.863	TOTAL DEPTH (mbTOC): 10.88/12.175	TIME:
DEPTH TO PSH (mbTOC):	THICKNESS OF PSH (m):	

FIELD PARAMETERS

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/- 10%	TEMP (°C)
13:21	1.351	5L	6.53	49.4	-62.5	0.88	20.9
13:26	1.354	5.8L	6.53	47.7	-67.3	0.82	20.9
13:31	1.357	6.5L	6.53	43.2	-68.0	0.82	20.9
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

OBSERVATIONS DURING SAMPLING

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR) Clear with moderate ~~slur~~ sulphur ~~odor~~ odor.

RECHARGE BEHAVIOUR: FAST RECHARGING ☒ SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☐

WELL SAMPLING

ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: MW204	SAMPLE ID:	SAMPLE ID:
SAMPLE TIME: 13:32	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4xV, 2x4	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



Geo-Logix

GROUNDWATER SAMPLE LOG

WELL ID: MW205

PROJECT INFORMATION

PROJECT NUMBER:

2001029

INITIALS:

CP

DATE:

29/5

WEATHER:

Drizzle

SAMPLING METHOD:

LOW FLOW:



HYDRASLEEVE:



BAILER:



WELL GAUGING DETAILS

STANDING WATER LEVEL (mbTOC):

2.281

TOTAL DEPTH (mbTOC):

13.496

TIME:

DEPTH TO PSH (mbTOC):

THICKNESS OF PSH (m):

FIELD PARAMETERS

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/- 10%	TEMP (°C)
15:24	2.683	2L	6.14	54.1	-6.5	3.80	20.4
15:29	2.683	2.9	6.25	50.2	0.7	3.11	20.4
15:34	2.683	3.7	6.26	49.0	2.4	3.03	20.4
15:34	2.689	4.5L	6.27	49.2	2.2	2.91	20.4
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

OBSERVATIONS DURING SAMPLING

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR)

Clear, slight sulphur odour

RECHARGE BEHAVIOUR:

FAST RECHARGING



SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS)



WELL SAMPLING

DTW (mbTOC): (AT SAMPLING)

2.689

ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: MW205	SAMPLE ID: D2	SAMPLE ID: T2
SAMPLE TIME: 15:35	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4xV, 2xH	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



Geo-Logix

GROUNDWATER SAMPLE LOG

WELL ID: MW121

PROJECT INFORMATION

PROJECT NUMBER: 2001029

INITIALS: CP

DATE: 29/5

WEATHER: Sunny

SAMPLING METHOD:

LOW FLOW: ☒

HYDRASLEEVE: ☐

BAILER: ☐

WELL GAUGING DETAILS

STANDING WATER LEVEL (mbTOC): 2.049

TOTAL DEPTH (mbTOC): 4.700

TIME:

DEPTH TO PSH (mbTOC):

THICKNESS OF PSH (m):

FIELD PARAMETERS

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/- 10%	TEMP (°C)
17:05	3.006	2.2L	6.77	33.4	150.8	3.45	21.3
17:10	3.007	4L	6.7	43.2	155.6	3.21	21.3
17:15	3.007	5.8L	6.69	37.4	147.8	2.79	21.3
TOTAL PURGE VOLUME (L):			APPROX. SAMPLE PURGE RATE (LPM):				

OBSERVATIONS DURING SAMPLING

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR)

Some turbidity

RECHARGE BEHAVIOUR:

FAST RECHARGING ☒

SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☐

WELL SAMPLING

DTW (mbTOC): (AT SAMPLING)

17:16

ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: MW121	SAMPLE ID:	SAMPLE ID:
SAMPLE TIME: 17:16	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4AV, 2A	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



Geo-Logix

GROUNDWATER SAMPLE LOG

WELL ID: Gw01

PROJECT INFORMATION

PROJECT NUMBER: 2001029

INITIALS: CP

DATE: 2/15

WEATHER: Sunny

SAMPLING METHOD:

LOW FLOW: ☒

HYDRASLEEVE: ☐

BAILER: ☐

WELL GAUGING DETAILS

STANDING WATER LEVEL (mbTOC): 1.749

TOTAL DEPTH (mbTOC): 4.274

TIME:

DEPTH TO PSH (mbTOC):

THICKNESS OF PSH (m):

FIELD PARAMETERS

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/- 10%	TEMP (°C)
7:30	1.952	5	6.64	9973	4.9	0.33	24.6
7:35	1.954	7.1L	6.65	9969	13.3	0.27	24.7
7:40	1.955	9L	6.65	10015	14.1	0.22	24.7
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

OBSERVATIONS DURING SAMPLING

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR)

Well very murky on initial pump, some very sediment rich water before eventually stabilising

RECHARGE BEHAVIOUR:

FAST RECHARGING ☒

SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☐

WELL SAMPLING

DTW (mbTOC): (AT SAMPLING) 1.955

ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: Gw01	SAMPLE ID: GW01	SAMPLE ID: GW01
SAMPLE TIME: 7:42	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4+V, 2+A	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



Geo-Logix

GROUNDWATER SAMPLE LOG

WELL ID: Cw02

PROJECT INFORMATION

PROJECT NUMBER: 2001029	INITIALS: CP
DATE: 29/5	WEATHER: Sunny
SAMPLING METHOD: LOW FLOW: <input checked="" type="checkbox"/>	HYDRASLEEVE: <input type="checkbox"/> BAILER: <input type="checkbox"/>

WELL GAUGING DETAILS

STANDING WATER LEVEL (mbTOC): 0.423	TOTAL DEPTH (mbTOC): 3.581	TIME:
DEPTH TO PSH (mbTOC):	THICKNESS OF PSH (m):	

FIELD PARAMETERS

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/- 10%	TEMP (°C)
8:05	0.844	2.2L	7.44	25.0	62.0	2.86	20.8
8:09	0.843	4.1L	7.41	22.9	48.1	2.87	20.8
8:13	0.844	6.1L	7.39	23.1	10.0	5.2	20.7
8:18	0.846	8.1L	7.40	22.7	-4.9	5.18	20.7
8:23	0.843	10L	7.42	22.6	-8.1	6.41	20.7
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

OBSERVATIONS DURING SAMPLING

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR)	Slightly cloudy
RECHARGE BEHAVIOUR: FAST RECHARGING <input checked="" type="checkbox"/>	SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) <input type="checkbox"/>

WELL SAMPLING

DTW (mbTOC): (AT SAMPLING) 0.844		
ORIGINAL	DUPLICATE	TRIPLICATE
SAMPLE ID: Cw02	SAMPLE ID:	SAMPLE ID:
SAMPLE TIME: 8:25	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4x1, 2A	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD



Geo-Logix

GROUNDWATER SAMPLE LOG

WELL ID: GWO4

PROJECT INFORMATION

PROJECT NUMBER: 2001029

INITIALS: CP

DATE: 29/5

WEATHER: drizzle

SAMPLING METHOD:

LOW FLOW: ☒

HYDRASLEEVE: ☐

BAILER: ☐

WELL GAUGING DETAILS

STANDING WATER LEVEL (mbTOC): 0.657

TOTAL DEPTH (mbTOC): 3.654

TIME:

DEPTH TO PSH (mbTOC):

THICKNESS OF PSH (m):

FIELD PARAMETERS

TIME	DTW (mbTOC)	TOTAL DISCHARGE (L)	PH +/- 0.1	CONDUCTIVITY (MS/CM) +/- 3%	REDOX (MV) +/- 10MV	DO (MG/L) +/- 10%	TEMP (°C)
11:22	1.135	3L	6.91	51.1	284.1	4.67	21.9
11:27	1.138	4.2L	6.88	49.2	257.1	4.45	22.1
11:22	1.129	5.2L	6.83	47.2	229.2	4.55	22.3
11:27	1.1321	6.2L	6.80	46.8	221.1	4.41	22.3
11:32	1.1362	7.4L	6.78	42.2	239.2	4.71	22.5
TOTAL PURGE VOLUME (L):		APPROX. SAMPLE PURGE RATE (LPM):					

OBSERVATIONS DURING SAMPLING

NOTES: (WELL CONDITION, COLOUR, CLARITY, ODOUR)

mostly clear with slight odour

RECHARGE BEHAVIOUR:

FAST RECHARGING ☒

SLOW RECHARGING (<80% RECHARGE AFTER 2 HRS) ☐

WELL SAMPLING

DTW (mbTOC): (AT SAMPLING)

1.1362

ORIGINAL	DUPLICATE Extra	TRIPLICATE
SAMPLE ID: GWO4	SAMPLE ID: GWO4	SAMPLE ID:
SAMPLE TIME: 11:33	SAMPLE TIME:	SAMPLE TIME:
NO. CONTAINERS: 4xV, 2xH	NO. CONTAINERS	NO. CONTAINERS
ANALYSIS:	ANALYSIS:	ANALYSIS:

ORIGINAL FIELD RECORD

ATTACHMENT C

Geo-Logix P/L
Bld Q2 Level 3, 2309/4 Daydream St
Warriewood
NSW 2102



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: Ben Pearce

Report 723066-W-V2

Project name AUBURN

Project ID 2001029

Received Date Jun 01, 2020

Client Sample ID			MW101	MW102	MW103	R16 MW104
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Jn02363	S20-Jn02364	S20-Jn02365	S20-Jn02366
Date Sampled			May 27, 2020	May 27, 2020	May 27, 2020	May 27, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C10-C14	0.05	mg/L	< 0.05	0.12	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	0.2	0.3	0.3
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	0.32	0.4	0.3
TRH C6-C9	0.02	mg/L	-	12	< 0.02	0.24
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.01	mg/L	-	< 0.01	< 0.01	< 0.05
TRH C6-C10	0.02	mg/L	-	12	< 0.02	0.26
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	-	12	< 0.02	0.26
TRH >C10-C16	0.05	mg/L	< 0.05	0.12	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	-	0.12	< 0.05	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1	0.2	0.4	0.4
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	0.32	0.4	0.4
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	-	0.003	< 0.001	0.031
1.1-Dichloroethene	0.001	mg/L	-	0.031	< 0.001	0.026
1.1.1-Trichloroethane	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
1.1.1.2-Tetrachloroethane	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
1.1.2-Trichloroethane	0.001	mg/L	-	0.11	< 0.001	< 0.005
1.1.2.2-Tetrachloroethane	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
1.2-Dibromoethane	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
1.2-Dichlorobenzene	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
1.2-Dichloroethane	0.001	mg/L	-	0.002	< 0.001	< 0.005
1.2-Dichloropropane	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
1.2.3-Trichloropropane	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
1.2.4-Trimethylbenzene	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
1.3-Dichlorobenzene	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
1.3-Dichloropropane	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
1.3.5-Trimethylbenzene	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
1.4-Dichlorobenzene	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
2-Butanone (MEK)	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
2-Propanone (Acetone)	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
4-Chlorotoluene	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	-	< 0.001	< 0.001	< 0.005

Client Sample ID			MW101	MW102	MW103	R16 MW104
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Jn02363	S20-Jn02364	S20-Jn02365	S20-Jn02366
Date Sampled			May 27, 2020	May 27, 2020	May 27, 2020	May 27, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Allyl chloride	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
Benzene	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
Bromobenzene	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
Bromochloromethane	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
Bromodichloromethane	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
Bromoform	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
Bromomethane	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
Carbon disulfide	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
Carbon Tetrachloride	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
Chlorobenzene	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
Chloroethane	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
Chloroform	0.005	mg/L	-	< 0.005	< 0.005	< 0.025
Chloromethane	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
cis-1,2-Dichloroethene	0.001	mg/L	-	4.6	< 0.001	0.17
cis-1,3-Dichloropropene	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
Dibromochloromethane	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
Dibromomethane	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
Dichlorodifluoromethane	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
Ethylbenzene	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
Iodomethane	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
Isopropyl benzene (Cumene)	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
m&p-Xylenes	0.002	mg/L	-	< 0.002	< 0.002	< 0.01
Methylene Chloride	0.001	mg/L	-	< 0.001	< 0.001	< 0.05
o-Xylene	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
Styrene	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
Tetrachloroethene	0.001	mg/L	-	0.002	< 0.001	< 0.005
Toluene	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
trans-1,2-Dichloroethene	0.001	mg/L	-	0.15	< 0.001	< 0.005
trans-1,3-Dichloropropene	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
Trichloroethene	0.001	mg/L	-	8.5	< 0.001	< 0.005
Trichlorofluoromethane	0.001	mg/L	-	< 0.001	< 0.001	< 0.005
Vinyl chloride	0.001	mg/L	-	0.072	< 0.001	0.029
Xylenes - Total*	0.003	mg/L	-	< 0.003	< 0.003	< 0.015
Total MAH*	0.003	mg/L	-	< 0.003	< 0.003	< 0.01
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	-	13.467	< 0.005	0.225
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	-	13.395	< 0.005	0.196
4-Bromofluorobenzene (surr.)	1	%	-	68	95	69
Toluene-d8 (surr.)	1	%	-	88	96	68

Client Sample ID			MW106 Water S20-Jn02367 May 27, 2020	MW107 Water S20-Jn02368 May 27, 2020	MW108 Water S20-Jn02369 May 27, 2020	MW109 Water S20-Jn02370 May 27, 2020
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C10-C14	0.05	mg/L	0.10	< 0.05	0.11	< 0.05
TRH C15-C28	0.1	mg/L	0.5	< 0.1	0.4	0.2
TRH C29-C36	0.1	mg/L	0.2	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	0.8	< 0.1	0.51	0.2
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	0.14	< 0.05	0.12	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	0.14	< 0.05	0.12	< 0.05
TRH >C16-C34	0.1	mg/L	0.6	< 0.1	0.4	0.2
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	0.74	< 0.1	0.52	0.2
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			MW106 Water S20-Jn02367 May 27, 2020	MW107 Water S20-Jn02368 May 27, 2020	MW108 Water S20-Jn02369 May 27, 2020	MW109 Water S20-Jn02370 May 27, 2020
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	0.001	< 0.001	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	93	87	94	92
Toluene-d8 (surr.)	1	%	93	92	91	95

Client Sample ID			MW110 Water S20-Jn02371 May 27, 2020	MW111 Water S20-Jn02372 May 27, 2020	MW112 Water S20-Jn02373 May 27, 2020	MW113 Water S20-Jn02374 May 27, 2020
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	0.10	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	0.6	0.2	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	0.6	0.3	< 0.1
TRH C6-C9	0.02	mg/L	< 0.02	0.05	< 0.02	0.03
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	0.05	< 0.02	0.04
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	0.05	< 0.02	0.02
TRH >C10-C16	0.05	mg/L	< 0.05	0.05	0.10	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	0.05	0.1	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1	0.6	0.2	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	0.65	0.3	< 0.1

Client Sample ID			MW110 Water S20-Jn02371 May 27, 2020	MW111 Water S20-Jn02372 May 27, 2020	MW112 Water S20-Jn02373 May 27, 2020	MW113 Water S20-Jn02374 May 27, 2020
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	0.025	< 0.001	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	0.004
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	0.009
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	0.004
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	0.002	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			MW110 Water S20-Jn02371 May 27, 2020	MW111 Water S20-Jn02372 May 27, 2020	MW112 Water S20-Jn02373 May 27, 2020	MW113 Water S20-Jn02374 May 27, 2020
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.001	mg/L	< 0.001	0.013	< 0.001	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	0.013
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	0.017
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	0.04	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	0.04	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	85	99	95	96
Toluene-d8 (surr.)	1	%	88	102	98	99

Client Sample ID			MW114 Water S20-Jn02375 May 27, 2020	MW115 Water S20-Jn02376 May 27, 2020	MW116 Water S20-Jn02377 May 27, 2020	MW117 Water S20-Jn02378 May 27, 2020
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C10-C14	0.05	mg/L	0.08	< 0.05	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	0.4	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	0.5	< 0.1
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	0.09	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	< 0.05	0.09	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	0.5	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	0.59	< 0.1
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			MW114 Water	MW115 Water	MW116 Water	MW117 Water
Sample Matrix			S20-Jn02375	S20-Jn02376	S20-Jn02377	S20-Jn02378
Eurofins Sample No.			May 27, 2020	May 27, 2020	May 27, 2020	May 27, 2020
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	86	90	100	97
Toluene-d8 (surr.)	1	%	80	93	95	98

Client Sample ID			MW118 Water S20-Jn02379 May 27, 2020	MW119 Water S20-Jn02380 May 27, 2020	MW120 Water S20-Jn02381 May 27, 2020	MW121 Water S20-Jn02382 May 27, 2020
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	0.24	< 0.05
TRH C15-C28	0.1	mg/L	0.3	< 0.1	1.4	0.2
TRH C29-C36	0.1	mg/L	0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	0.4	< 0.1	1.64	0.2
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	0.52	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	< 0.05	0.52	< 0.05
TRH >C16-C34	0.1	mg/L	0.3	< 0.1	1.2	0.2
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	0.3	< 0.1	1.72	0.2
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			MW118 Water S20-Jn02379 May 27, 2020	MW119 Water S20-Jn02380 May 27, 2020	MW120 Water S20-Jn02381 May 27, 2020	MW121 Water S20-Jn02382 May 27, 2020
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	98	97	96	95
Toluene-d8 (surr.)	1	%	101	105	93	98

Client Sample ID			GW01 Water S20-Jn02383 May 27, 2020	GW02 Water S20-Jn02384 May 27, 2020	^{R16} GW04 Water S20-Jn02385 May 27, 2020	MW201 Water S20-Jn02386 May 29, 2020
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C10-C14	0.05	mg/L	-	< 0.05	< 0.05	0.08
TRH C15-C28	0.1	mg/L	-	< 0.1	< 0.1	< 0.1
TRH C29-C36	0.1	mg/L	-	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	-	< 0.1	< 0.1	< 0.1
TRH C6-C9	0.02	mg/L	< 0.02	0.06	1.1	< 0.02
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.01	mg/L	-	< 0.01	< 0.1	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	0.07	1.2	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	-	0.07	1.2	< 0.02
TRH >C10-C16	0.05	mg/L	-	< 0.05	< 0.05	0.06
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	-	< 0.05	< 0.05	0.06
TRH >C16-C34	0.1	mg/L	-	< 0.1	< 0.1	< 0.1
TRH >C34-C40	0.1	mg/L	-	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	-	< 0.1	< 0.1	< 0.1

Client Sample ID			GW01 Water S20-Jn02383 May 27, 2020	GW02 Water S20-Jn02384 May 27, 2020	R16GW04 Water S20-Jn02385 May 27, 2020	MW201 Water S20-Jn02386 May 29, 2020
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	0.48	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	0.13	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.05	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	0.53	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.02	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.1	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	0.012	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001

Client Sample ID			GW01 Water S20-Jn02383 May 27, 2020	GW02 Water S20-Jn02384 May 27, 2020	^{R16} GW04 Water S20-Jn02385 May 27, 2020	MW201 Water S20-Jn02386 May 29, 2020
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	0.24	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.01	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	0.34	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.03	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.02	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	1.252	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	0.912	< 0.005
4-Bromofluorobenzene (surr.)	1	%	92	94	81	87
Toluene-d8 (surr.)	1	%	100	100	74	90

Client Sample ID			MW202 Water S20-Jn02387 May 28, 2020	MW203 Water S20-Jn02388 May 29, 2020	MW204 Water S20-Jn02389 May 29, 2020	MW205 Water S20-Jn02390 May 29, 2020
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			MW202 Water S20-Jn02387 May 28, 2020	MW203 Water S20-Jn02388 May 29, 2020	MW204 Water S20-Jn02389 May 29, 2020	MW205 Water S20-Jn02390 May 29, 2020
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	86	90	90	84
Toluene-d8 (surr.)	1	%	87	92	89	85

Client Sample ID			D1 Water S20-Jn02391 May 29, 2020	D2 Water S20-Jn02392 May 29, 2020
Sample Matrix				
Eurofins Sample No.				
Date Sampled				
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C10-C14	0.05	mg/L	0.10	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	0.1	< 0.1
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	0.08	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	0.08	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1
Volatile Organics				
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001

Client Sample ID			D1	D2
Sample Matrix			Water	Water
Eurofins Sample No.			S20-Jn02391	S20-Jn02392
Date Sampled			May 29, 2020	May 29, 2020
Test/Reference	LOR	Unit		
Volatile Organics				
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	78	84
Toluene-d8 (surr.)	1	%	81	86

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B9			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jun 02, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jun 02, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jun 02, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons	Sydney	Jun 02, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Volatile Organics	Sydney	Jul 22, 2020	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			

Company Name: Geo-Logix P/L
Address: Bld Q2 Level 3, 2309/4 Daydream St
Warriewood
NSW 2102

Project Name: AUBURN
Project ID: 2001029

Order No.: 3826
Report #: 723066
Phone: 02 9979 1722
Fax: 02 9979 1222

Received: Jun 1, 2020 2:50 PM
Due: Jun 9, 2020
Priority: 5 Day
Contact Name: Ben Pearce

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						HOLD	TRH C6-C10	TRH C6-C9	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	Eurofins mgt Suite B9
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
Perth Laboratory - NATA Site # 23736														
External Laboratory														
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID									
1	MW101	May 27, 2020		Water	S20-Jn02363				X	X				
2	MW102	May 27, 2020		Water	S20-Jn02364						X		X	
3	MW103	May 27, 2020		Water	S20-Jn02365						X		X	
4	MW104	May 27, 2020		Water	S20-Jn02366						X		X	
5	MW106	May 27, 2020		Water	S20-Jn02367						X		X	
6	MW107	May 27, 2020		Water	S20-Jn02368						X		X	
7	MW108	May 27, 2020		Water	S20-Jn02369						X		X	
8	MW109	May 27, 2020		Water	S20-Jn02370						X		X	
9	MW110	May 27, 2020		Water	S20-Jn02371						X		X	
10	MW111	May 27, 2020		Water	S20-Jn02372						X		X	

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Sample Detail						HOLD	TRH C6-C10	TRH C6-C9	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	Eurofins mgt Suite B9
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
Perth Laboratory - NATA Site # 23736														
11	MW112	May 27, 2020		Water	S20-Jn02373						X		X	
12	MW113	May 27, 2020		Water	S20-Jn02374						X		X	
13	MW114	May 27, 2020		Water	S20-Jn02375						X		X	
14	MW115	May 27, 2020		Water	S20-Jn02376						X		X	
15	MW116	May 27, 2020		Water	S20-Jn02377						X		X	
16	MW117	May 27, 2020		Water	S20-Jn02378						X		X	
17	MW118	May 27, 2020		Water	S20-Jn02379						X		X	
18	MW119	May 27, 2020		Water	S20-Jn02380						X		X	
19	MW120	May 27, 2020		Water	S20-Jn02381						X		X	
20	MW121	May 27, 2020		Water	S20-Jn02382						X		X	
21	GW01	May 27, 2020		Water	S20-Jn02383		X	X			X			
22	GW02	May 27, 2020		Water	S20-Jn02384						X		X	
23	GW04	May 27, 2020		Water	S20-Jn02385						X		X	

Australia

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Warriewood
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Priority: 5 Day
Contact Name: Ben Pearce

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						HOLD	TRH C6-C10	TRH C6-C9	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	Eurofins mgt Suite B9
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
Perth Laboratory - NATA Site # 23736														
24	MW201	May 29, 2020		Water	S20-Jn02386						X		X	
25	MW202	May 28, 2020		Water	S20-Jn02387						X		X	
26	MW203	May 29, 2020		Water	S20-Jn02388						X		X	
27	MW204	May 29, 2020		Water	S20-Jn02389						X		X	
28	MW205	May 29, 2020		Water	S20-Jn02390						X		X	
29	D1	May 29, 2020		Water	S20-Jn02391						X		X	
30	D2	May 29, 2020		Water	S20-Jn02392						X		X	
31	R1	May 29, 2020		Water	S20-Jn02393	X								
32	R2	May 29, 2020		Water	S20-Jn02394	X								
33	VP6/0.5-0.6	May 26, 2020		Soil	S20-Jn02395							X		X
34	VP10/0.3-0.4	May 26, 2020		Soil	S20-Jn02396							X		X
35	VP16/0.3-0.5	May 26, 2020		Soil	S20-Jn02397							X		X
Test Counts						2	1	1	1	1	29	3	28	3

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NC	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Benzene	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibromomethane			mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane			mg/L	< 0.001			0.001	Pass	
Ethylbenzene			mg/L	< 0.001			0.001	Pass	
Iodomethane			mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)			mg/L	< 0.001			0.001	Pass	
m&p-Xylenes			mg/L	< 0.002			0.002	Pass	
Methylene Chloride			mg/L	< 0.001			0.001	Pass	
o-Xylene			mg/L	< 0.001			0.001	Pass	
Styrene			mg/L	< 0.001			0.001	Pass	
Tetrachloroethene			mg/L	< 0.001			0.001	Pass	
Toluene			mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene			mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene			mg/L	< 0.001			0.001	Pass	
Trichloroethene			mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane			mg/L	< 0.001			0.001	Pass	
Vinyl chloride			mg/L	< 0.001			0.001	Pass	
Xylenes - Total*			mg/L	< 0.003			0.003	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions									
TRH C10-C14			%	123			70-130	Pass	
TRH C6-C9			%	85			70-130	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions									
Naphthalene			%	100			70-130	Pass	
TRH C6-C10			%	86			70-130	Pass	
TRH >C10-C16			%	127			70-130	Pass	
LCS - % Recovery									
Volatile Organics									
1.1-Dichloroethene			%	126			70-130	Pass	
1.1.1-Trichloroethane			%	106			70-130	Pass	
1.2-Dichlorobenzene			%	118			70-130	Pass	
1.2-Dichloroethane			%	109			70-130	Pass	
Benzene			%	110			70-130	Pass	
Ethylbenzene			%	116			70-130	Pass	
m&p-Xylenes			%	126			70-130	Pass	
o-Xylene			%	120			70-130	Pass	
Toluene			%	119			70-130	Pass	
Trichloroethene			%	114			70-130	Pass	
Xylenes - Total*			%	124			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14		S20-Jn02345	NCP	%	77		70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16		S20-Jn02345	NCP	%	75		70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14		S20-Jn02363	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass
TRH C15-C28		S20-Jn02363	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass
TRH C29-C36		S20-Jn02363	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass

Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	S20-Jn02363	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass
TRH >C16-C34	S20-Jn02363	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass
TRH >C34-C40	S20-Jn02363	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	S20-Jn00030	NCP	mg/L	0.17	0.18	6.0	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S20-Jn00030	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass
TRH C6-C10	S20-Jn00030	NCP	mg/L	0.18	0.19	6.0	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.1-Dichloroethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.1-Dichloroethene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.1.1-Trichloroethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.1.1.2-Tetrachloroethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.1.2-Trichloroethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.1.2.2-Tetrachloroethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2-Dibromoethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2-Dichlorobenzene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2-Dichloroethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2-Dichloropropane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2.3-Trichloropropane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2.4-Trimethylbenzene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.3-Dichlorobenzene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.3-Dichloropropane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.3.5-Trimethylbenzene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.4-Dichlorobenzene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
2-Butanone (MEK)	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
2-Propanone (Acetone)	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
4-Chlorotoluene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Allyl chloride	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Benzene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromobenzene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromochloromethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromodichloromethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromoform	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromomethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Carbon disulfide	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Carbon Tetrachloride	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chlorobenzene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chloroethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chloroform	S20-Jn00030	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass
Chloromethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
cis-1.2-Dichloroethene	S20-Jn00030	NCP	mg/L	0.007	0.006	9.0	30%	Pass
cis-1.3-Dichloropropene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibromochloromethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibromomethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dichlorodifluoromethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Ethylbenzene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Iodomethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Isopropyl benzene (Cumene)	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
m&p-Xylenes	S20-Jn00030	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
Methylene Chloride	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
o-Xylene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Styrene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Tetrachloroethene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Toluene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
trans-1,2-Dichloroethene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
trans-1,3-Dichloropropene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Trichloroethene	S20-Jn00030	NCP	mg/L	0.11	0.10	2.0	30%	Pass
Trichlorofluoromethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Vinyl chloride	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Xylenes - Total*	S20-Jn00030	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass

Comments

This report has been revised (V2) to amend VOC results for S20-Jn02364.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
R16	The LORs have been raised due to the high concentration of one or more analytes

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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Sample Receipt Advice

Company name: **Geo-Logix P/L**
Contact name: **Ben Pearce**
Project name: **AUBURN**
Project ID: **2001029**
COC number: **Not provided**
Turn around time: **5 Day**
Date/Time received: **Jun 1, 2020 2:50 PM**
Eurofins reference: **723066**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 6.2 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Appropriate sample containers have been used.
- ☒ Sample containers for volatile analysis received with zero headspace.
- ☒ Split sample sent to requested external lab.
- ☒ Some samples have been subcontracted.

Notes N/A Custody Seals intact (if used).

Semi volatile TRH analysis on GW01 cancelled. Vials not received for sample MW101, volatile analysis cancelled. Amber for sample GW04 to be received.

Contact notes

If you have any questions with respect to these samples please contact:

Ursula Long on Phone : or by e.mail: UrsulaLong@eurofins.com

Results will be delivered electronically via e.mail to Ben Pearce - bpearce@geo-logix.com.au.

CHAIN OF CUSTODY

Project Manager:

Ben Pearce

Page 1 of 2

Purchase Order No: 2826

Contact email:

bpearce@geo-logix.com.au

Quote Reference:

Project Name:

Auburn

Send Invoice to:

accounts@geo-logix.com.au

P: (02) 9979 1722

Project Number:

2001029

Date Submitted:

1/6/2020

TAT required:

F: (02) 9979 1222

ANALYSIS REQUIRED

Lab ID		Sample ID	Date	Matrix				Comments	COMPOSITE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
				soil	water	air	paint, filters		other	TRH - C6 - C10	TRH - C10 - C40	VOCs	BTEXN	PAHs	PCBs	OCPs	OPPs	Phenols	Metals - M8	Metals - Lead	Metals - Specify **	TCLP	Asbestos (ID only)	Asbestos (WA DOH)	Foreign Materials	Conductivity (EC)	pH	Hold	SUITE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Metals*(circle) As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Cr⁶⁺, Cr³⁺, Fe²⁺, Fe³⁺, Be, B, Al, V, Mn, Fe, Co, Se, Sr, Sn, Mo, Ag, Ba, Ti, Bi, Sb

Chain of Custody

Relinquished by:

Caden Pengelly

Date/Time:

1/6/20

Signature:

Pengelly

Received by:

Bennett

Date/Time:

1.6.20

Signature:

Bennett

Date/Time:

12.95.14

Signature:

Bennett

Eurofins MGT Suite
Codes

B1	TRH/TEXN
B1A	TRH/MAH
B2	TRH/TEXN/Pb
B2A	TRH/MAH/Pb
B3	PAH/Phenols
B4	TRH/TEXN/PAH
B4A	TRH/TEXN/PAH/Phenols
B5	TRH/TEXN/M7
B6	TRH/TEXN/M8
B7	TRH/TEXN/PAH/M8
B7A	TRH/TEXN/PAH/Phenols/M8
B8	TRH/VOC/PAH/M8
B9	TRH/TEXN/PAH/OCP/M8
B10	TRH/TEXN/PAH/OCP/PP/M8
B11	Na/K/Ca/Mg/Cl/SO ₄ /CO ₂ /HCO ₃ /NH ₄ /NO ₃
B11A	B11/Alkalinity
B11B	B11/EC/TDS
B12	TRH/TEXN/Oxygenates/Ethanol
B12A	TRH/TEXN/Oxygenates
B13	OCP/PCB
B14	OCP/OPP
B15	OCP/OPP/PCB
B16	TDS/ISO ₂ /CH ₄ /MIBOD/COD/HPC/CUB
B17	SO ₄ /NO ₃ /Fe ⁺⁺ /HPC/CUB
B18	CH ₄ /SO ₄ /pH
B19	NPK
B20	CEC/%ESP/Ca/Mg/Na/K

Building Q2, Level 3

Project Manager:

Ben Pearce

Purchase Order No:

2309/4 Daydream St

Warriewood, NSW 2102

Contact email:

Project Name:

bpearce@geo-logix.com.au
Auburn

Quote Reference:

Send Invoice to:

accounts@geo-logix.com.au

ABN: 86 116 892 936

P: (02) 9979 1722

Project Number:

2001029

Date Submitted:

1/6/20

TAT required:

F: (02) 9979 1222

ANALYSIS REQUIRED

Lab ID		Sample ID	Date	Matrix				Comments	COMPOSITE																				Hold	SUITE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Chain of Custody

Relinquished by:

Caden Penally

Date/Time:

1/6/20

Signature:

Received by:

Ben

Date/Time:

16.20

Signature:

#723066

Eurofins MGT Suite
Codes

B1	TRH/BTEXN
B1A	TRH/MAH
B2	TRH/BTEXN/Pb
B2A	TRH/MAH/Pb
B3	PAH/Phenols
B4	TRH/BTEXN/PAH
B4A	TRH/BTEXN/PAH/Phenols
B5	TRH/BTEXN/M7
B6	TRH/BTEXN/M8
B7	TRH/BTEXN/PAH/M8
B7A	TRH/BTEXN/PAH/Phenols/M8
B8	TRH/VOC/PAH/M8
B9	TRH/BTEXN/PAH/OCP/M8
B10	TRH/BTEXN/PAH/OCP/OPP/M8
B11	Na/K/Ca/Mg/Cl/NO ₃ /CO ₂ /HCO ₃ /NH ₄ /NO ₂
B11A	B11/Alkalinity
B11B	B11/EC/TDS
B12	TRH/BTEXN/Oxygenates/Ethanol
B12A	TRH/BTEXN/Oxygenates
B13	OCP/PCB
B14	OCP/OPP
B16	OCP/OPP/PCB
B16	TDS/SO ₄ /CH ₄ /K/BOD/COD/HFC/CUB
B17	SO ₄ /NO ₃ /Fe ⁺⁺ /HFC/CUB
B18	CH ₄ /SO ₄ /pH
B19	N/P/K
B20	CEC/%ESP/Ca/Mg/Na/K

#AU04_Enviro_Sample_NSW

To: Ben Pearce
Subject: RE: 723066

From: Ben Pearce [<mailto:bpearce@geo-logix.com.au>]
Sent: Tuesday, 2 June 2020 1:19 PM
To: #AU04_Enviro_Sample_NSW
Subject: RE: 723066

Hi Luca,

No, I need the TRH C10 – C40 cancelled for GW01 as we don't know which bottles are actually GW01 and not GW04.

I'll send in new bottles for GW04.

We will need to resample MW101.

Thanks

Ben

Website: www.eurofins.com.au/environmental-testing

From: Ben Pearce [<mailto:bpearce@geo-logix.com.au>]
Sent: Tuesday, 2 June 2020 12:49 PM
To: #AU04_Enviro_Sample_NSW
Subject: RE: 723066

Hi Luca,

Can you please cancel semi volatile TRH analysis on GW01. We have more ambers for GW04 we will send to the lab today.

Thanks,

Ben

From: EnviroSampleNSW@eurofins.com <EnviroSampleNSW@eurofins.com>
Sent: Tuesday, 2 June 2020 12:43 PM
To: Ben Pearce <bpearce@geo-logix.com.au>
Subject: RE: 723066

Correct Ben

Kind Regards,

Luca Dominici
Enviro Sample NSW
Sample Receipt NSW

Eurofins | Environment Testing
Unit F3, Parkview Building
16 Mars Road
LANE COVE WEST NSW 2066
AUSTRALIA

Phone : +61 2 9900 8421

Email : EnviroSampleNSW@Eurofins.com

Website: www.eurofins.com.au/environmental-testing

From: Ben Pearce [<mailto:bpearce@geo-logix.com.au>]

Sent: Tuesday, 2 June 2020 12:40 PM

To: #AU04_Enviro_Sample_NSW

Subject: RE: 723066

OK thanks Luca,

So you didn't receive any vials for MW101 or ambers for GW04, is that correct?

Regards,

Ben

From: EnviroSampleNSW@eurofins.com <EnviroSampleNSW@eurofins.com>

Sent: Tuesday, 2 June 2020 12:36 PM

To: Ben Pearce <bpearce@geo-logix.com.au>

Subject: RE: 723066

Hi Ben,

My bad, please see amendments below

Kind Regards,

Luca Dominici
Enviro Sample NSW
Sample Receipt NSW

Eurofins | Environment Testing

Unit F3, Parkview Building
16 Mars Road
LANE COVE WEST NSW 2066
AUSTRALIA
Phone : +61 2 9900 8421

Email : EnviroSampleNSW@Eurofins.com

Website: www.eurofins.com.au/environmental-testing

From: Ben Pearce [<mailto:bpearce@geo-logix.com.au>]

Sent: Tuesday, 2 June 2020 12:30 PM

To: #AU04_Enviro_Sample_NSW

Cc: Ursula Long; Caden Pengelly

Subject: RE: 723066

Hi Luca,

Sorry I don't follow – you received 4 x ambers labelled MW101 and no ambers for MW104, and no vials for MW101?

The photos are of GW01.

Thanks,

Ben

From: EnviroSampleNSW@eurofins.com <EnviroSampleNSW@eurofins.com>
Sent: Tuesday, 2 June 2020 11:23 AM
To: Ben Pearce <bpearce@geo-logix.com.au>
Cc: UrsulaLong@eurofins.com
Subject: 723066

Hi Ben,

We are processing samples logged under report #723066.

Please note that we received 4 ambers labelled as GW01, while 2 of them should be GW04. Are you able to advise which is which going by the picture attached?

Also vials for MW101 were not received.

Please let me know if I can give you further details

Kind Regards,

Luca Dominici
Enviro Sample NSW
Sample Receipt NSW

Eurofins | Environment Testing
Unit F3, Parkview Building
16 Mars Road
LANE COVE WEST NSW 2066
AUSTRALIA
Phone : +61 2 9900 8421

Email : EnviroSampleNSW@Eurofins.com
Website: www.eurofins.com.au/environmental-testing

Click [here](#) to report this email as spam.

ScannedByWebsenseForEurofins

Geo-Logix P/L
Bld Q2 Level 3, 2309/4 Daydream St
Warriewood
NSW 2102



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: **Ben Pearce**

Report **723567-W**
Project name **AUBURN**
Project ID **2001029**
Received Date **Jun 03, 2020**

Client Sample ID			GW04
Sample Matrix			Water
Eurofins Sample No.			S20-Jn06201
Date Sampled			May 29, 2020
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C10-C14	0.05	mg/L	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
TRH >C10-C16	0.05	mg/L	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description

Total Recoverable Hydrocarbons - 1999 NEPM Fractions

- Method: LTM-ORG-2010 TRH C6-C40

Total Recoverable Hydrocarbons - 2013 NEPM Fractions

- Method: LTM-ORG-2010 TRH C6-C40

Testing Site

Sydney

Sydney

Extracted

Jun 03, 2020

Jun 03, 2020

Holding Time

7 Days

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

ABN – 50 005 085 521

web : www.eurofins.com.au

e.mail : EnviroSales@eurofins.com

Company Name: Geo-Logix P/L
Address: Bld Q2 Level 3, 2309/4 Daydream St
Warriewood
NSW 2102

Project Name: AUBURN
Project ID: 2001029

Order No.: PO3826
Report #: 723567
Phone: 02 9979 1722
Fax: 02 9979 1222

Received: Jun 3, 2020 3:03 PM
Due: Jun 11, 2020
Priority: 5 Day
Contact Name: Ben Pearce

Eurofins Analytical Services Manager : Ursula Long

Sample Detail

Total Recoverable Hydrocarbons - 2013
NEPM Fractions
Total Recoverable Hydrocarbons - 1999
NEPM Fractions

Melbourne Laboratory - NATA Site # 1254 & 14271

Sydney Laboratory - NATA Site # 18217

Brisbane Laboratory - NATA Site # 20794

Perth Laboratory - NATA Site # 23736

External Laboratory

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	GW04	May 29, 2020		Water	S20-Jn06201	X	X

Test Counts

1 1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
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Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
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TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank										
Total Recoverable Hydrocarbons - 1999 NEPM Fractions										
TRH C10-C14				mg/L	< 0.05			0.05	Pass	
TRH C15-C28				mg/L	< 0.1			0.1	Pass	
TRH C29-C36				mg/L	< 0.1			0.1	Pass	
Method Blank										
Total Recoverable Hydrocarbons - 2013 NEPM Fractions										
TRH >C10-C16				mg/L	< 0.05			0.05	Pass	
TRH >C16-C34				mg/L	< 0.1			0.1	Pass	
TRH >C34-C40				mg/L	< 0.1			0.1	Pass	
LCS - % Recovery										
Total Recoverable Hydrocarbons - 1999 NEPM Fractions										
TRH C10-C14				%	83			70-130	Pass	
LCS - % Recovery										
Total Recoverable Hydrocarbons - 2013 NEPM Fractions										
TRH >C10-C16				%	81			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery										
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					Result 1					
TRH C10-C14	S20-Jn04500	NCP	%	74				70-130	Pass	
Spike - % Recovery										
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					Result 1					
TRH >C10-C16	S20-Jn04500	NCP	%	72				70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Duplicate										
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					Result 1	Result 2	RPD			
TRH C10-C14	S20-Jn04894	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass		
TRH C15-C28	S20-Jn04894	NCP	mg/L	0.2	< 0.1	60	30%	Fail		Q15
TRH C29-C36	S20-Jn04894	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass		
Duplicate										
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					Result 1	Result 2	RPD			
TRH >C10-C16	S20-Jn04894	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass		
TRH >C16-C34	S20-Jn04894	NCP	mg/L	0.1	< 0.1	81	30%	Fail		Q15
TRH >C34-C40	S20-Jn04894	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass		

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Sample Receipt Advice

Company name: **Geo-Logix P/L**
Contact name: **Ben Pearce**
Project name: **AUBURN**
Project ID: **2001029**
COC number: **Not provided**
Turn around time: **5 Day**
Date/Time received: **Jun 3, 2020 3:03 PM**
Eurofins reference: **723567**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 11.7 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Appropriate sample containers have been used.
- ☒ Sample containers for volatile analysis received with zero headspace.
- ☒ Split sample sent to requested external lab.
- ☒ Some samples have been subcontracted.

Notes N/A Custody Seals intact (if used).

Only unpreserved amber bottle received. Sample logged for semi-vol TRH fraction.

Contact notes

If you have any questions with respect to these samples please contact:

Ursula Long on Phone : or by e.mail: UrsulaLong@eurofins.com

Results will be delivered electronically via e.mail to Ben Pearce - bpearce@geo-logix.com.au.

CHAIN OF CUSTODY

Ben Pearce

Warriewood, NSW 2102

pearcegeo-logic.com.au

At-b-c

Date Submitted: 3/6/20

PO3826

accounts@geo-logix.com.au

5 down

ANALYSIS REQUIRED

[illegible]

Chain of Custody

Metals (circle)** As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Cr⁶⁺, Cr³⁺, Fe²⁺, Fe³⁺, Be, B, Al, V, Mn, Fe, Co, Se, Sr, Sn, Mo, Ag, Ba, Tl, Bi, Sb

Signature _____

Q3.2.1 QF_034 Chain of Custody

Graveyard

Version: V1
Date Issued: April 2019
Review Date: April 2021

723567

Geo-Logix P/L
Bld Q2 Level 3, 2309/4 Daydream St
Warriewood
NSW 2102



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: **Ben Pearce**

Report **724501-W**
Project name **ADDITIONAL - AUBURN**
Project ID **2001029**
Received Date **Jun 09, 2020**

Client Sample ID			R1	R2
Sample Matrix			Water	Water
Eurofins Sample No.			S20-Jn13533	S20-Jn13534
Date Sampled			May 27, 2020	May 27, 2020
Test/Reference	LOR	Unit		
Volatile Organics				
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001

Client Sample ID			R1	R2
Sample Matrix			Water	Water
Eurofins Sample No.			S20-Jn13533	S20-Jn13534
Date Sampled			May 27, 2020	May 27, 2020
Test/Reference	LOR	Unit		
Volatile Organics				
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	82	84
Toluene-d8 (surr.)	1	%	86	83

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description

Volatile Organics

Testing Site

Sydney

Extracted

Jun 10, 2020

Holding Time

7 Days

- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices

Company Name: Geo-Logix P/L
Address: Bld Q2 Level 3, 2309/4 Daydream St
Warriewood
NSW 2102

Project Name: ADDITIONAL - AUBURN
Project ID: 2001029

Order No.: 3826
Report #: 724501
Phone: 02 9979 1722
Fax: 02 9979 1222

Received: Jun 9, 2020 5:27 PM
Due: Jun 16, 2020
Priority: 5 Day
Contact Name: Ben Pearce

Eurofins Analytical Services Manager : Ursula Long

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Sydney Laboratory - NATA Site # 18217						X
Brisbane Laboratory - NATA Site # 20794						
Perth Laboratory - NATA Site # 23736						
External Laboratory						
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	
1	R1	May 27, 2020		Water	S20-Jn13533	X
2	R2	May 27, 2020		Water	S20-Jn13534	X
Test Counts						2

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Benzene	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
Methylene Chloride	mg/L	< 0.001			0.001	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Trichlorofluoromethane			mg/L	< 0.001			0.001	Pass	
Vinyl chloride			mg/L	< 0.001			0.001	Pass	
Xylenes - Total*			mg/L	< 0.003			0.003	Pass	
LCS - % Recovery									
Volatile Organics									
1.1-Dichloroethene			%	126			70-130	Pass	
1.1.1-Trichloroethane			%	106			70-130	Pass	
1.2-Dichlorobenzene			%	118			70-130	Pass	
1.2-Dichloroethane			%	109			70-130	Pass	
Benzene			%	110			70-130	Pass	
Ethylbenzene			%	116			70-130	Pass	
m&p-Xylenes			%	126			70-130	Pass	
o-Xylene			%	120			70-130	Pass	
Toluene			%	119			70-130	Pass	
Trichloroethene			%	114			70-130	Pass	
Xylenes - Total*			%	124			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1-Dichloroethene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1-Trichloroethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2-Trichloroethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dibromoethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichlorobenzene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloroethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloropropane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.3-Trichloropropane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.4-Trimethylbenzene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichlorobenzene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichloropropane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3.5-Trimethylbenzene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.4-Dichlorobenzene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Butanone (MEK)	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Propanone (Acetone)	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Chlorotoluene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Allyl chloride	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromobenzene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromochloromethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromodichloromethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromoform	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromomethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Carbon disulfide	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Carbon Tetrachloride	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chlorobenzene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloroethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloroform	S20-Jn00030	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloromethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
cis-1.2-Dichloroethene	S20-Jn00030	NCP	mg/L	0.007	0.006	9.0	30%	Pass	
cis-1.3-Dichloropropene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Dibromochloromethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromomethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dichlorodifluoromethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Iodomethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Isopropyl benzene (Cumene)	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S20-Jn00030	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Methylene Chloride	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
o-Xylene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Styrene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Tetrachloroethene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.2-Dichloroethene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.3-Dichloropropene	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichloroethene	S20-Jn00030	NCP	mg/L	0.11	0.10	2.0	30%	Pass	
Trichlorofluoromethane	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Vinyl chloride	S20-Jn00030	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S20-Jn00030	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised By

Ursula Long

Analytical Services Manager



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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NATA # 1261 Site # 23736

ABN – 50 005 085 521

e.mail : EnviroSales@eurofins.com

web : www.eurofins.com.au

Sample Receipt Advice

Company name: **Geo-Logix P/L**
Contact name: Ben Pearce
Project name: ADDITIONAL - AUBURN
Project ID: 2001029
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jun 9, 2020 5:27 PM
Eurofins reference: **724501**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 6.2 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Appropriate sample containers have been used.
- ☒ Sample containers for volatile analysis received with zero headspace.
- ☒ Split sample sent to requested external lab.
- ☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Ursula Long on Phone : or by e.mail: UrsulaLong@eurofins.com

Results will be delivered electronically via e.mail to Ben Pearce - bpearce@geo-logix.com.au.

#AU04_Enviro_Sample_NSW

To: Asim Khan
Subject: RE: 5 DAY TAT ADDITIONAL ANALYSIS FW: Eurofins Test Results - Report 723066 : Site AUBURN (2001029)

From: Ben Pearce <bpearce@geo-logix.com.au>
Sent: Tuesday, 9 June 2020 5:16 PM
To: Asim Khan <AsimKhan@eurofins.com>
Cc: Ursula Long <UrsulaLong@eurofins.com>
Subject: RE: Eurofins Test Results - Report 723066 : Site AUBURN (2001029)

EXTERNAL EMAIL*

Hi Asim,

Can you please run samples R1 and R2 for VOCs please.

Thanks,

Ben

Geo-Logix P/L
Bld Q2 Level 3, 2309/4 Daydream St
Warriewood
NSW 2102



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: **Ben Pearce**

Report **723067-W**
Project name **AUBURN**
Project ID **2001029**
Received Date **Jun 01, 2020**

Client Sample ID			T1	T2
Sample Matrix			Water	Water
Eurofins Sample No.			S20-Jn02422	S20-Jn02423
Date Sampled			May 29, 2020	May 29, 2020
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1
Volatile Organics				
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	0.002
Bromobenzene	0.001	mg/L	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001

Client Sample ID			T1	T2
Sample Matrix			Water	Water
Eurofins Sample No.			S20-Jn02422	S20-Jn02423
Date Sampled			May 29, 2020	May 29, 2020
Test/Reference	LOR	Unit		
Volatile Organics				
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	98	107
Toluene-d8 (surr.)	1	%	88	103
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Jun 03, 2020	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Jun 03, 2020	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Jun 03, 2020	
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)	Melbourne	Jun 03, 2020	7 Days

Australia

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Site # 1254 & 14271

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NATA # 1261 Site # 18217

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NATA # 1261 Site # 20794

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IANZ # 1290

ABN – 50 005 085 521

web : www.eurofins.com.au

e.mail : EnviroSales@eurofins.com

Company Name: Geo-Logix P/L
Address: Bld Q2 Level 3, 2309/4 Daydream St
Warriewood
NSW 2102

Project Name: AUBURN
Project ID: 2001029

Order No.: 3826
Report #: 723067
Phone: 02 9979 1722
Fax: 02 9979 1222

Received: Jun 1, 2020 2:25 PM
Due: Jun 9, 2020
Priority: 5 Day
Contact Name: Ben Pearce

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Volatile Organics	Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X
Sydney Laboratory - NATA Site # 18217							
Brisbane Laboratory - NATA Site # 20794							
Perth Laboratory - NATA Site # 23736							
External Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	T1	May 29, 2020		Water	S20-Jn02422	X	X
2	T2	May 29, 2020		Water	S20-Jn02423	X	X
Test Counts						2	2

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NC	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Benzene	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
Methylene Chloride	mg/L	< 0.001			0.001	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	

Test		Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Styrene		mg/L	< 0.001			0.001	Pass	
Tetrachloroethene		mg/L	< 0.001			0.001	Pass	
Toluene		mg/L	< 0.001			0.001	Pass	
trans-1,2-Dichloroethene		mg/L	< 0.001			0.001	Pass	
trans-1,3-Dichloropropene		mg/L	< 0.001			0.001	Pass	
Trichloroethene		mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane		mg/L	< 0.001			0.001	Pass	
Vinyl chloride		mg/L	< 0.001			0.001	Pass	
Xylenes - Total*		mg/L	< 0.003			0.003	Pass	
Method Blank								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions								
Naphthalene		mg/L	< 0.01			0.01	Pass	
TRH C6-C10		mg/L	< 0.02			0.02	Pass	
TRH >C10-C16		mg/L	< 0.05			0.05	Pass	
TRH >C16-C34		mg/L	< 0.1			0.1	Pass	
TRH >C34-C40		mg/L	< 0.1			0.1	Pass	
LCS - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions								
TRH C6-C9		%	111			70-130	Pass	
TRH C10-C14		%	97			70-130	Pass	
LCS - % Recovery								
Volatile Organics								
1,1-Dichloroethene		%	94			70-130	Pass	
1,1,1-Trichloroethane		%	85			70-130	Pass	
1,2-Dichlorobenzene		%	98			70-130	Pass	
1,2-Dichloroethane		%	92			70-130	Pass	
Benzene		%	101			70-130	Pass	
Ethylbenzene		%	110			70-130	Pass	
m&p-Xylenes		%	109			70-130	Pass	
Toluene		%	90			70-130	Pass	
Trichloroethene		%	90			70-130	Pass	
Xylenes - Total*		%	109			70-130	Pass	
LCS - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions								
Naphthalene		%	96			70-130	Pass	
TRH C6-C10		%	105			70-130	Pass	
TRH >C10-C16		%	91			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C10-C14	M20-Jn04754	NCP	%	73		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
TRH >C10-C16	M20-Jn04754	NCP	%	73		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	M20-My42570	NCP	%	86		70-130	Pass	
Spike - % Recovery								
Volatile Organics				Result 1				
Benzene	M20-My42570	NCP	%	100		70-130	Pass	
Ethylbenzene	M20-My42570	NCP	%	90		70-130	Pass	
m&p-Xylenes	M20-My42570	NCP	%	90		70-130	Pass	
o-Xylene	M20-My42570	NCP	%	89		70-130	Pass	
Toluene	M20-My42570	NCP	%	98		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Xylenes - Total*	M20-My42570	NCP	%	90			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M20-My42570	NCP	%	83			70-130	Pass	
TRH C6-C10	M20-My42570	NCP	%	82			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	M20-Jn05918	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	M20-Jn05918	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	M20-Jn05918	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	M20-Jn05918	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	M20-Jn05918	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	M20-Jn05918	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	M20-My42568	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Benzene	M20-My42568	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	M20-My42568	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	M20-My42568	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	M20-My42568	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	M20-My42568	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	M20-My42568	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M20-My42568	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	M20-My42568	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.

Authorised By

Ursula Long	Analytical Services Manager
Harry Bacalis	Senior Analyst-Volatile (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)



Glenn Jackson General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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Sample Receipt Advice

Company name: **Geo-Logix P/L**
Contact name: **Ben Pearce**
Project name: **AUBURN**
Project ID: **2001029**
COC number: **Not provided**
Turn around time: **5 Day**
Date/Time received: **Jun 1, 2020 2:25 PM**
Eurofins reference: **723067**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by Eurofins
Sample Receipt : 13 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Appropriate sample containers have been used.
- ☒ Sample containers for volatile analysis received with zero headspace.
- ☒ Split sample sent to requested external lab.
- ☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Ursula Long on Phone : or by e.mail: UrsulaLong@eurofins.com

Results will be delivered electronically via e.mail to Ben Pearce - bpearce@geo-logix.com.au.

Geo-Logix P/L
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Warriewood
NSW 2102



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: **Ben Pearce**

Report **724784-W**
Project name **AUBURN**
Project ID **2001029**
Received Date **Jun 10, 2020**

Client Sample ID			MW101	GW01
Sample Matrix			Water	Water
Eurofins Sample No.			S20-Jn16998	S20-Jn16999
Date Sampled			Jun 09, 2020	Jun 09, 2020
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	0.02	mg/L	< 0.02	-
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1
Volatile Organics				
1.1-Dichloroethane	0.001	mg/L	< 0.001	-
1.1-Dichloroethene	0.001	mg/L	< 0.001	-
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	-
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	-
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	-
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	-
1.2-Dibromoethane	0.001	mg/L	< 0.001	-
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	-
1.2-Dichloroethane	0.001	mg/L	< 0.001	-
1.2-Dichloropropane	0.001	mg/L	< 0.001	-
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	-
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	-
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	-
1.3-Dichloropropane	0.001	mg/L	< 0.001	-
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	-
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	-
2-Butanone (MEK)	0.001	mg/L	< 0.001	-
2-Propanone (Acetone)	0.001	mg/L	< 0.001	-
4-Chlorotoluene	0.001	mg/L	< 0.001	-
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	-
Allyl chloride	0.001	mg/L	< 0.001	-
Benzene	0.001	mg/L	< 0.001	-
Bromobenzene	0.001	mg/L	< 0.001	-
Bromochloromethane	0.001	mg/L	< 0.001	-
Bromodichloromethane	0.001	mg/L	< 0.001	-
Bromoform	0.001	mg/L	< 0.001	-
Bromomethane	0.001	mg/L	< 0.001	-
Carbon disulfide	0.001	mg/L	< 0.001	-
Carbon Tetrachloride	0.001	mg/L	< 0.001	-

Client Sample ID			MW101	GW01
Sample Matrix			Water	Water
Eurofins Sample No.			S20-Jn16998	S20-Jn16999
Date Sampled			Jun 09, 2020	Jun 09, 2020
Test/Reference	LOR	Unit		
Volatile Organics				
Chlorobenzene	0.001	mg/L	< 0.001	-
Chloroethane	0.001	mg/L	< 0.001	-
Chloroform	0.005	mg/L	< 0.005	-
Chloromethane	0.001	mg/L	< 0.001	-
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	-
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	-
Dibromochloromethane	0.001	mg/L	< 0.001	-
Dibromomethane	0.001	mg/L	< 0.001	-
Dichlorodifluoromethane	0.001	mg/L	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	-
Iodomethane	0.001	mg/L	< 0.001	-
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	-
Methylene Chloride	0.001	mg/L	< 0.001	-
o-Xylene	0.001	mg/L	< 0.001	-
Styrene	0.001	mg/L	< 0.001	-
Tetrachloroethene	0.001	mg/L	< 0.001	-
Toluene	0.001	mg/L	< 0.001	-
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	-
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	-
Trichloroethene	0.001	mg/L	< 0.001	-
Trichlorofluoromethane	0.001	mg/L	< 0.001	-
Vinyl chloride	0.001	mg/L	< 0.001	-
Xylenes - Total*	0.003	mg/L	< 0.003	-
Total MAH*	0.003	mg/L	< 0.003	-
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	-
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	-
4-Bromofluorobenzene (surr.)	1	%	79	-
Toluene-d8 (surr.)	1	%	80	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene ^{N02}	0.01	mg/L	< 0.01	-
TRH C6-C10	0.02	mg/L	< 0.02	-
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	-
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	-
TRH >C16-C34	0.1	mg/L	0.3	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	0.3	< 0.1

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Jun 11, 2020	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Jun 11, 2020	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Jun 11, 2020	
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices	Sydney	Jun 11, 2020	7 Days

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Project Name: AUBURN
Project ID: 2001029

Order No.: 3868
Report #: 724784
Phone: 02 9979 1722
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Received: Jun 10, 2020 1:40 PM
Due: Jun 17, 2020
Priority: 5 Day
Contact Name: Ben Pearce

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Volatile Organics	Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217						X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
Perth Laboratory - NATA Site # 23736									
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	MW101	Jun 09, 2020		Water	S20-Jn16998			X	X
2	GW01	Jun 09, 2020		Water	S20-Jn16999	X	X		
Test Counts						1	1	1	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NC	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Benzene	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
Methylene Chloride	mg/L	< 0.001			0.001	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Styrene				mg/L	< 0.001			0.001	Pass	
Tetrachloroethene				mg/L	< 0.001			0.001	Pass	
Toluene				mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene				mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene				mg/L	< 0.001			0.001	Pass	
Trichloroethene				mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane				mg/L	< 0.001			0.001	Pass	
Vinyl chloride				mg/L	< 0.001			0.001	Pass	
Xylenes - Total*				mg/L	< 0.003			0.003	Pass	
Method Blank										
Total Recoverable Hydrocarbons - 2013 NEPM Fractions										
Naphthalene				mg/L	< 0.01			0.01	Pass	
TRH C6-C10				mg/L	< 0.02			0.02	Pass	
TRH >C10-C16				mg/L	< 0.05			0.05	Pass	
TRH >C16-C34				mg/L	< 0.1			0.1	Pass	
TRH >C34-C40				mg/L	< 0.1			0.1	Pass	
LCS - % Recovery										
Total Recoverable Hydrocarbons - 1999 NEPM Fractions										
TRH C6-C9				%	84			70-130	Pass	
TRH C10-C14				%	77			70-130	Pass	
LCS - % Recovery										
Volatile Organics										
1.1-Dichloroethene				%	103			70-130	Pass	
1.1.1-Trichloroethane				%	91			70-130	Pass	
1.2-Dichlorobenzene				%	100			70-130	Pass	
1.2-Dichloroethane				%	101			70-130	Pass	
Benzene				%	100			70-130	Pass	
Ethylbenzene				%	97			70-130	Pass	
m&p-Xylenes				%	98			70-130	Pass	
o-Xylene				%	96			70-130	Pass	
Toluene				%	102			70-130	Pass	
Trichloroethene				%	95			70-130	Pass	
Xylenes - Total*				%	97			70-130	Pass	
LCS - % Recovery										
Total Recoverable Hydrocarbons - 2013 NEPM Fractions										
Naphthalene				%	106			70-130	Pass	
TRH C6-C10				%	84			70-130	Pass	
TRH >C10-C16				%	77			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
Spike - % Recovery										
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					Result 1					
TRH C6-C9		S20-Jn16383	NCP	%	83		70-130	Pass		
Spike - % Recovery										
Volatile Organics					Result 1					
1.1-Dichloroethene		S20-Jn16383	NCP	%	92		70-130	Pass		
1.1.1-Trichloroethane		S20-Jn16383	NCP	%	84		70-130	Pass		
1.2-Dichlorobenzene		S20-Jn16383	NCP	%	86		70-130	Pass		
1.2-Dichloroethane		S20-Jn16383	NCP	%	95		70-130	Pass		
Benzene		S20-Jn16383	NCP	%	89		70-130	Pass		
Ethylbenzene		S20-Jn16383	NCP	%	91		70-130	Pass		
m&p-Xylenes		S20-Jn16383	NCP	%	91		70-130	Pass		
o-Xylene		S20-Jn16383	NCP	%	90		70-130	Pass		
Toluene		S20-Jn16383	NCP	%	89		70-130	Pass		
Trichloroethene		S20-Jn16383	NCP	%	84		70-130	Pass		

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Xylenes - Total*	S20-Jn16383	NCP	%	91			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-Jn16383	NCP	%	87			70-130	Pass	
TRH C6-C10	S20-Jn16383	NCP	%	81			70-130	Pass	
TRH >C10-C16	S20-Jn13246	NCP	%	77			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S20-Jn18584	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	S20-Jn12435	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	S20-Jn12435	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	S20-Jn12435	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1-Dichloroethene	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1-Trichloroethane	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2-Trichloroethane	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dibromoethane	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichlorobenzene	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloroethane	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloropropane	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.3-Trichloropropane	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.4-Trimethylbenzene	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichlorobenzene	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichloropropane	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3.5-Trimethylbenzene	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.4-Dichlorobenzene	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Butanone (MEK)	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Propanone (Acetone)	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Chlorotoluene	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Allyl chloride	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzene	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromobenzene	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromochloromethane	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromodichloromethane	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromoform	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromomethane	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Carbon disulfide	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Carbon Tetrachloride	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chlorobenzene	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloroethane	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloroform	S20-Jn18584	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloromethane	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
cis-1.2-Dichloroethene	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
cis-1.3-Dichloropropene	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromochloromethane	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromomethane	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dichlorodifluoromethane	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
Iodomethane	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Isopropyl benzene (Cumene)	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
m&p-Xylenes	S20-Jn18584	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Methylene Chloride	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
o-Xylene	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Styrene	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Tetrachloroethene	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Toluene	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
trans-1,2-Dichloroethene	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
trans-1,3-Dichloropropene	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Trichloroethene	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Trichlorofluoromethane	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Vinyl chloride	S20-Jn18584	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Xylenes - Total*	S20-Jn18584	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S20-Jn18584	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass
TRH C6-C10	S20-Jn18584	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass
TRH >C10-C16	S20-Jn12435	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass
TRH >C16-C34	S20-Jn12435	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass
TRH >C34-C40	S20-Jn12435	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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Site # 1254 & 14271

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Sample Receipt Advice

Company name: **Geo-Logix P/L**
Contact name: Ben Pearce
Project name: AUBURN
Project ID: 2001029
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jun 10, 2020 1:40 PM
Eurofins reference: **724784**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by Eurofins
Sample Receipt : 8 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Appropriate sample containers have been used.
- ☒ Sample containers for volatile analysis received with zero headspace.
- ☒ Split sample sent to requested external lab.
- ☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Ursula Long on Phone : or by e.mail: UrsulaLong@eurofins.com

Results will be delivered electronically via e.mail to Ben Pearce - bpearce@geo-logix.com.au.

CHAIN OF CUSTODY

Project Manager: Ben Pearce

Contact email: bpearce@geo-logix.com.au

Project Name: Auburn

Project Number: 2001029 Date Submitted: 10/6/20

Page 1 of 1

Purchase Order No: 3868

Quote Reference: _____

Send Invoice to: accounts@geo-logix.com.au

TAT required: Standard

ANALYSIS REQUIRED

Lab ID	Sample ID	Date	Matrix					Comments	COMPOSITE	TRH - C6 - C10	TRH - C10 - C40	VOCs	BTEXN	PAHs	PCBs	OCPs	OPP's	Phenols	Metals - M8	Metals - Lead	Metals - Specify **	TCLP	Asbestos (ID only)	Asbestos (WA DOH)	Foreign Materials	Conductivity (EC)	pH	Hold	SUITE	Eurofins MGT Suite Codes
			soil	water	air	paint, filters	other																							
	MW101	9/6		✓						X	X	X																		B1 TRH/BTEXN
	GW01	9/6		✓				Hold vials, test ampers			X																			B1A TRH/MAH
																														B2 TRH/BTEXN/Pb
																														B2A TRH/MAH/Pb
																														B3 PAH/Phenols
																														B4 TRH/BTEXN/PAH
																														B4A TRH/BTEXN/PAH/Phenols
																														B5 TRH/BTEXN/M7
																														B6 TRH/BTEXN/M8
																														B7 TRH/BTEXN/PAH/M8
																														B7A TRH/BTEXN/PAH/Phenols/M8
																														B8 TRH/VOC/PAH/M8
																														B9 TRH/BTEXN/PAH/OCP/M8
																														B10 TRH/BTEXN/PAH/OCP/OPP/M8
																														B11 Na/K/Ca/Mg/Cl/SO ₄ /CO ₂ /HCO ₃ /NH ₄ /NO ₃
																														B11A B11/Alkalinity
																														B11B B11/EC/TDS
																														B12 TRH/BTEXN/Oxygenates/Ethanol
																														B12A TRH/BTEXN/Oxygenates
																														B13 OCP/PCB
																														B14 OCP/OPP
																														B15 OCP/OPP/PCB
																														B16 TDS/SO ₄ /CH ₄ /Alk/BOD/COD/HPC/CUB
																														B17 SO ₄ /NO ₃ /Fe ²⁺ /HPC/CUB
																														B18 Cl-/SO ₄ /pH
																														B19 N/P/K
																														B20 CEC/%ESP/Ca/Ma/Na/K

Metals**(circle) As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Cr⁶⁺, Cr³⁺, Fe²⁺, Fe³⁺, Be, B, Al, V, Mn, Fe, Co, Se, Sr, Sn, Mo, Ag, Ba, Tl, Bi, Sb

Chain of Custody

Relinquished by: Caden Pengelly Date/Time: 10/6/20 Signature: [Signature] Received by: [Signature] Date/Time: 10/6/20 Signature: [Signature]

R: Melissa Burkett (Eurofins) 10.06.20 1:40pm 8.03°C

#724784