

Our Ref: 213337\_REP\_014.docx

17 December 2015

The General Manager  
Oberon Council  
PO Box 84  
OBERON NSW 2787

**Attention: Mr Gary Wallace**

**ENVIRONMENTAL MONITORING – NOVEMBER 2015  
OBERON WASTE FACILITY (OWF) EPL 20289**

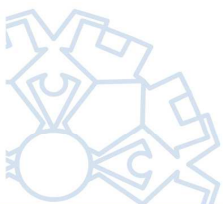
This letter summarises the results of the surface water discharge sample collected from monitoring point SW1 (EPL Point 1), and groundwater samples collected on 23 November 2015, as well as routine accumulated gas monitoring conducted during the monitoring round.

***Surface Water***

The 23 November 2015 sample was collected by Geolyse staff from the rising stage sampler and was then analysed for parameters as required by the EPL. The monitoring point was observed to still be wet at the point of overflow. The location of the surface water monitoring point is depicted on **Drawing 05C\_EVO2**, sampling is required to be undertaken monthly during discharge.

Observations were as follows:

- Laboratory measured pH was 7.62, having reduced from the elevated pH recorded in September 2015 of 8.13. pH remains within the EPL discharge limit range and is also considered suitable for livestock drinking water; being within 6.5 to 8.5 pH units (Markwick, 2007).
- Electrical conductivity (EC) was 184  $\mu\text{S}/\text{cm}$ , which was consistent with previous samples. The corresponding total dissolved solids (TDS) concentration was 123 mg/L and considered suitable for consumption by the most susceptible livestock category, poultry (<3000 mg/L, ANZECC & ARMCANZ, 2000).
- Total suspended solids were 12 mg/L, which is below the EPL limit of 50 mg/L. This result recorded an decrease from the elevated concentration of 85 mg/L previously recorded in September 2015.



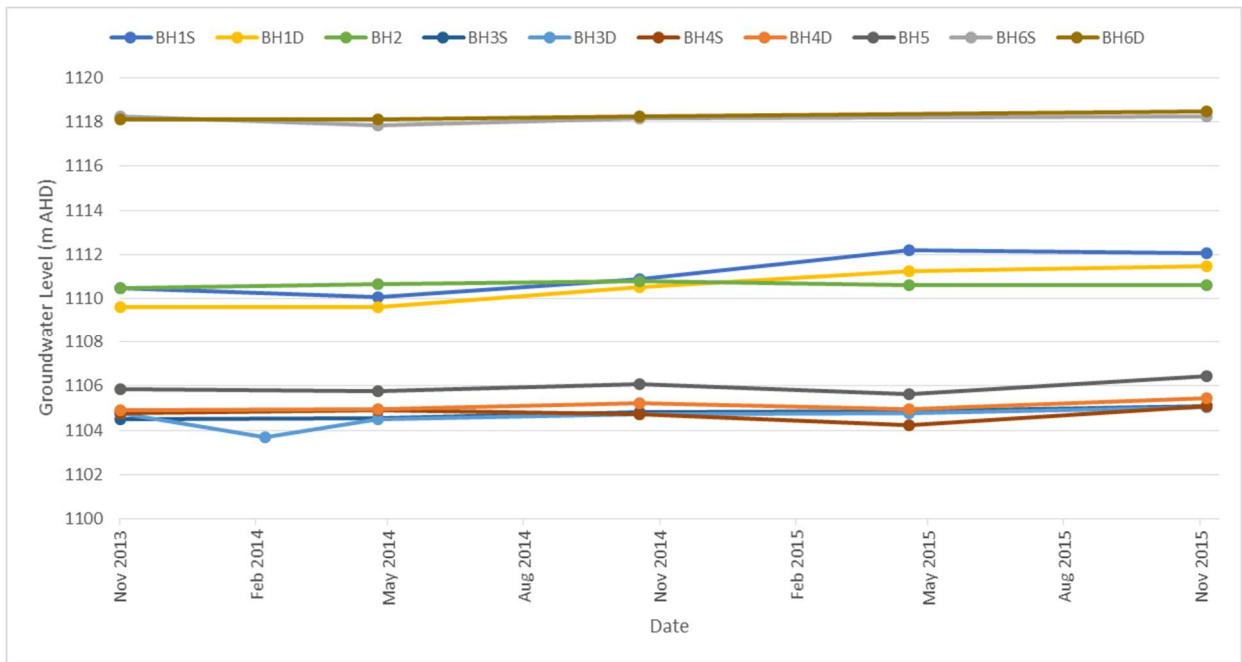
- Oil and grease was recorded at less than the laboratory limit of reporting (LOR) of 5 mg/L, below the EPL limit of 10 mg/L.

No surface water discharge events were recorded for October or December 2015.

**Groundwater Levels**

Groundwater levels were recorded at all monitoring stations, including BH6S and BH6D (EPL points 10 and 11, respectively) which had previously been blocked with root matter in September 2015 when gauging and sampling was not possible. The locations of groundwater monitoring stations are shown on attachment Drawing 05C\_EVO2. The groundwater level measurements are also provided as an attachment in **Table 1** and are illustrated below in **Chart 1**.

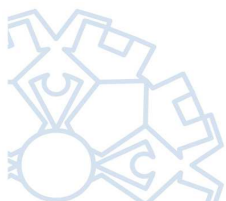
Historically, eastern monitoring points BH6S and BH6D have had the most elevated groundwater levels and the western monitoring points BH3S, BH3D, BH4S, BH4D and BH5 have had the lowest groundwater levels. Standing water levels were observed to have increased at the western piezometers and remained relatively level at the eastern and southern piezometers, compared to the previous monitoring round in September 2015. The average change in groundwater level was an increase of 0.34 m.



**Chart 1: Groundwater Levels, November 2013 to November 2015**

**Groundwater Quality**

As required by the EPL, biannual groundwater samples were obtained from monitoring stations BH1S, BH1D, BH2, BH3S, BH3D, BH4S, BH4D, BH5 and BH6D. Monitoring point BH6S provided insufficient

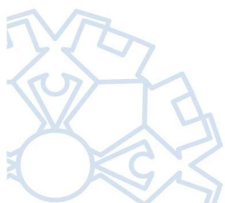




recharge following purging for sampling. Samples were analysed for the biannual suite of parameters. The groundwater quality results are summarised in the attached **Table 2**. Where possible, parameters are compared to available guideline values for informative purposes, as such, these guidelines should not be interpreted as provisional limits for the facility.

Observations are as follows:

- Laboratory measured pH ranged from 6.25 pH units at BH1S to 7.86 pH units at BH5 and was relatively stable since the previous groundwater monitoring round. The values of BH1S and BH1D were more acidic than what is considered suitable for livestock drinking water; other values were within the guideline range of 6.5 to 8.5 pH units (Markwick, 2007).
- Electrical conductivity ranged from 90  $\mu\text{S}/\text{cm}$  at BH1S to 1380  $\mu\text{S}/\text{cm}$  at BH5.
- Total dissolved solids were found to range from 58 mg/L at BH1S to 897 mg/L at BH5, and within previously recorded ranges. All values were considered suitable for consumption by the most susceptible livestock category, poultry (<3000 mg/L, ANZECC & ARMCANZ, 2000).
- Total alkalinity concentrations ranged from 12 mgCaCO<sub>3</sub>/L (BH1S) to 517 mgCaCO<sub>3</sub>/L (BH5). All values were consistent with historical results, however alkalinity recorded at BH5 exceeded the guideline hardness value for potential fouling of waters (350 mg/L, ANZECC & ARMCANZ, 2000).
- Chloride concentrations ranged from 5 mg/L at BH4D to 106 mg/L at BH4S. All concentrations were significantly lower than the guideline value for irrigation to moderately tolerant crops (700 mg/L, ANZECC & ARMCANZ, 2000).
- Sulfate concentrations ranged from below the LOR of 1 mg/L at BH2, to 172 mg/L at BH5. All concentrations were significantly lower than the 1000 mg/L guideline value for livestock drinking water (ANZECC & ARMCANZ, 2000).
- Calcium concentrations ranged from below the laboratory LOR of 1 mg/L at BH1S to 15 mg/L at BH4D. All concentrations were significantly lower than the livestock drinking water guideline value of 1000 mg/L (ANZECC & ARMCANZ, 2000).
- Magnesium concentrations ranged from below the laboratory LOR of 1 mg/L at BH1S to 87 mg/L at BH5.
- Potassium concentrations ranged from below the laboratory LOR of <1 mg/L at BH1S, BH2, BH4s and BH5, to 3 mg/L at BH1D, BH3D and BH6S.
- Sodium concentrations were recorded to be highest at BH5 (179 mg/L), and BH1D had the lowest sodium concentration at 11 mg/L. These values are below the guideline for irrigation of moderately tolerant crops (460 mg/L, ANZECC & ARMCANZ, 2000), and the conservative aesthetic guideline for human drinking water (180 mg/L, NHMRC & NRMMC, 2011).
- Ammonia was low across the facility, ranging from below the LOR of 0.01 mg/L at BH3D and BH4D, to 0.06 mgN/L at BH1, BH3S and BH4S. All values were below the conservative aesthetic guideline for ammonia in human drinking water (0.41 mgN/L, NHMRC & NRMMC, 2011).
- Nitrite was recorded at or below the laboratory LOR (<0.01 mg/L) in all groundwater samples. Results were significantly lower than the livestock drinking water guideline value of 9.12 mgN/L (ANZECC & ARMCANZ, 2000).





- Nitrate was lowest at BH4D and BH6D (0.02 mgN/L) and most elevated at BH2 (17.1 mgN/L). These results are lower than the livestock drinking water guideline value for nitrate (90.29 mg/L, ANZECC & ARMCANZ, 2000).
- Reactive phosphorus was only detected above the LOR at BH2 and BH3D (0.02 and 0.07 mg/L, respectively), at a concentration of 0.03 mgP/L. Total phosphorus was recorded up to 1.35 mg/L at BH3S. While all values were below the upper limit of the short-term crop irrigation range, only groundwater sampled from BH5 was considered suitable for long-term irrigation (ANZECC & ARMCANZ, 2000).
- Total organic carbon in groundwater was recorded to range from 2 mg/L at BH4D, to 7 mg/L at BH2.
- Heavy metals in groundwater were generally low with the following exceptions:
  - Aluminium, copper, lead and zinc were elevated at BH3S at 1.4 mg/L, however the recorded concentrations were below the long-term irrigation guidelines (ANZECC & ARMCANZ, 2000);
  - Manganese was elevated at BH3S, BH4S, BH4D and BH6D, exceeding the long-term irrigation guideline concentration (0.2 mg/L, ANZECC & ARMCANZ, 2000);
  - Iron was elevated at BH3S, BH4S and BH4D, exceeding the long-term irrigation guideline concentration (0.2 mg/L, ANZECC & ARMCANZ, 2000);
- No concentrations of total petroleum hydrocarbons (TPH), total recoverable hydrocarbons (TRH), benzene, toluene, ethylbenzene, xylene or naphthalene (BTEXN compounds), organochlorine pesticides (OCPs), organophosphorous pesticides (OPPs), polychlorinated biphenyls (PCBs), polynuclear aromatic hydrocarbons (PAHs) or phenolic compounds were recorded above the respective LORs.

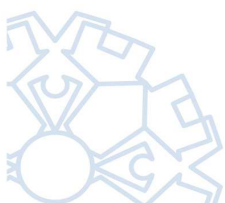
## **Landfill Gas**

No accumulated gas was detected during routine monitoring rounds conducted in October, November and December 2015.

## **Conclusions**

No exceedances of the surface water discharge limits were recorded for the November 2015 surface water sample. Groundwater monitoring generally indicated that concentrations of parameters were below relevant guideline values.

No accumulated landfill gas was detected.



The next round of routine surface water monitoring is scheduled for January 2016. Please do not hesitate to contact us with any questions or comments you may have regarding this report.

Yours faithfully  
**Geolyse Pty Ltd**



**BRENDAN STUART**  
**Environmental Scientist**

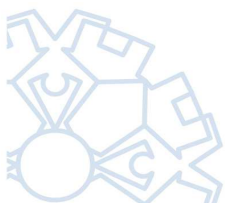
No. of Attachments – 3: Monitoring Locations  
Results of Laboratory Analysis – November 2015  
ALS Environmental Laboratory Report – November 2015

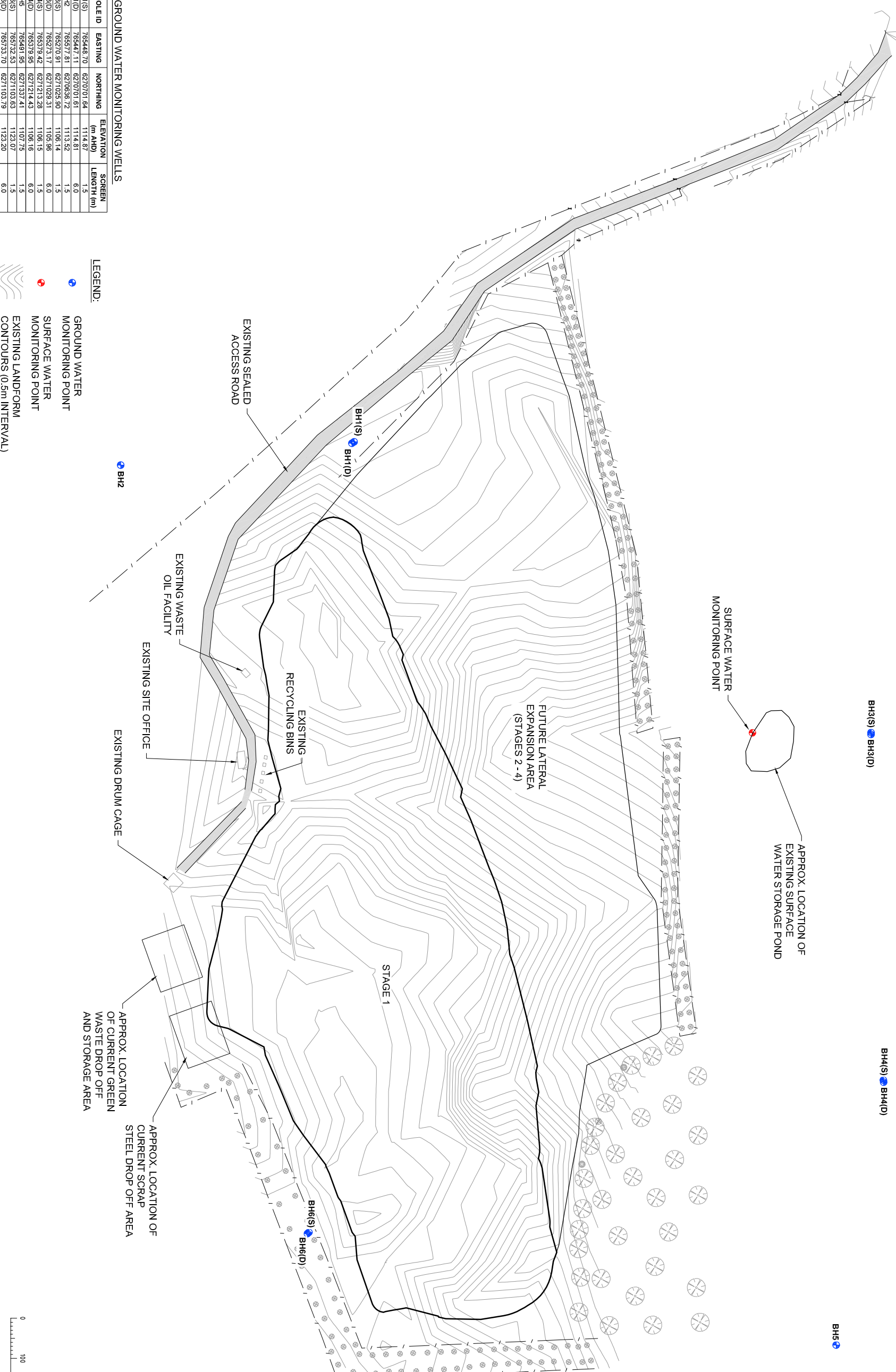
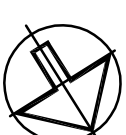
**References:**

**Australian and New Zealand Environment and Conservation Council and the Agriculture and Resource Management Council of Australia and New Zealand (ANZECC & ARMCANZ), 2000, 'Australian and New Zealand Guidelines for Fresh and Marine Water Quality'.**

**Markwick, G 2007, 'Water requirements for sheep and cattle', Primefact 326, New South Wales Department of Primary Industries, Australia.**

**National Health and Medical Research Council and the Natural Resource Management Ministerial Council (NHMRC & NRMCC), 2011, 'National Water Quality Management Strategy: Australian Drinking Water Guidelines', Australia. (updated 2015)**

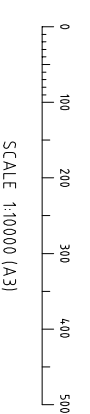




**GROUND WATER MONITORING WELLS**

BOREHOLE ID	EASTING	NORTHING	ELEVATION (m AHD)	SCREEN LENGTH (m)
BH1(S)	705448.70	6270701.84	1114.87	1.5
BH1(D)	705447.11	6270701.81	1114.81	6.0
BH2	705577.81	6270636.72	1113.52	1.5
BH3(S)	705270.91	6271023.90	1106.14	1.5
BH3(D)	705273.17	6271023.31	1105.96	6.0
BH4(S)	705379.42	6271213.28	1106.15	1.5
BH4(D)	705379.95	6271214.43	1106.16	6.0
BH5	705491.95	6271337.41	1107.75	1.5
BH6(S)	705732.53	6271103.83	1123.07	1.5
BH6(D)	705733.70	6271103.79	1123.20	6.0

- LEGEND:**
- + GROUND WATER MONITORING POINT
  - + SURFACE WATER MONITORING POINT
  - EXISTING LANDFORM CONTOURS (0.5m INTERVAL)



**ORANGE**  
 154 PERSEY STREET  
 P.O. BOX 7683  
 ORANGE, NSW 2800  
 Ph. (02) 6393 5000  
 Fx. (02) 6393 5950  
 orange@geolyse.com  
 www.geolyse.com

No	DATE	DRAWING CHECK	APPROVED BY	DETAILS
A	02/05/13	LP	KH	DRAFT
B	16/05/13	LP	KH	ISSUED
C	01/10/14	MY	MH	UPDATE PIEZO BH3(D) DATA

**PROJECT**

**OBERON LANDFILL EXTENSION  
 LANDFILL ENVIRONMENTAL MANAGEMENT PLAN**

FILE REFERENCE: 211129\_AOC\_EV02\_EV02.dwg

**APPROVAL AUTHORITY**

**OBERON COUNCIL  
 ENVIRONMENT PROTECTION AUTHORITY**

**CLIENT**

**OBERON COUNCIL**

**DRAWING**

**EXPANSION STAGES AND  
 MONITORING POINTS**

PROJECT NUMBER: 211129  
 DRAWING NUMBER: 05C\_EV02  
 SOURCE: INTERNAL  
 REV: C











**TABLE 2 - EPL 20289 OBERON WASTE FACILITY - RESULTS OF LABORATORY ANALYSIS  
NOVEMBER 2015**

Sample ID			SW1	BH1S	BH1D	BH2	BH3S	BH3D	BH4S	BH4D	BH5	BH6D	W9001	W9003
Sample Date			23/11/2015	23/11/2015	23/11/2015	23/11/2015	23/11/2015	23/11/2015	23/11/2015	23/11/2015	23/11/2015	23/11/2015	23/11/2015	23/11/2015
Analyte	LOR	Units	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	RB	FD (BH3D)
Phenol	1	µg/L	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorophenol	1	µg/L	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Methylphenol	1	µg/L	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
3- & 4-Methylphenol	2	µg/L	-	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Nitrophenol	1	µg/L	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2.4-Dimethylphenol	1	µg/L	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2.4-Dichlorophenol	1	µg/L	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2.6-Dichlorophenol	1	µg/L	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Chloro-3-methylphenol	1	µg/L	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2.4.6-Trichlorophenol	1	µg/L	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2.4.5-Trichlorophenol	1	µg/L	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Pentachlorophenol	2	µg/L	-	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2

µS/cm      microsiemens per centimetre  
 mg/L        milligrams per litre  
 meq/L       milliequivalents per litre  
 µg/L        micrograms per litre  
 LOR         limit of reporting  
 PS          primary sample  
 RB          rinsate blank  
 FD          field duplicate

## CERTIFICATE OF ANALYSIS

<b>Work Order</b>	<b>: ES1537259</b>	<b>Page</b>	: 1 of 20
<b>Client</b>	<b>: OBERON COUNCIL</b>	<b>Laboratory</b>	: Environmental Division Sydney
<b>Contact</b>	<b>: BRENDON STUART</b>	<b>Contact</b>	:
<b>Address</b>	<b>: 137-139 OBERON STREET OBERON NSW, AUSTRALIA 2787</b>	<b>Address</b>	<b>: 277-289 Woodpark Road Smithfield NSW Australia 2164</b>
<b>E-mail</b>	<b>: bstuart@geolyse.com</b>	<b>E-mail</b>	:
<b>Telephone</b>	<b>: +61 02 6393 5000</b>	<b>Telephone</b>	<b>: +61-2-8784 8555</b>
<b>Facsimile</b>	<b>: +61 02 6393 5050</b>	<b>Facsimile</b>	<b>: +61-2-8784 8500</b>
<b>Project</b>	<b>: 213337</b>	<b>QC Level</b>	<b>: NEPM 2013 B3 &amp; ALS QC Standard</b>
<b>Order number</b>	<b>: ----</b>	<b>Date Samples Received</b>	<b>: 26-Nov-2015 08:45</b>
<b>C-O-C number</b>	<b>: ----</b>	<b>Date Analysis Commenced</b>	<b>: 27-Nov-2015</b>
<b>Sampler</b>	<b>: ----</b>	<b>Issue Date</b>	<b>: 03-Dec-2015 12:52</b>
<b>Site</b>	<b>: ----</b>		
<b>Quote number</b>	<b>: ----</b>	<b>No. of samples received</b>	<b>: 12</b>
		<b>No. of samples analysed</b>	<b>: 12</b>

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results



NATA Accredited Laboratory 825

Accredited for compliance with  
ISO/IEC 17025.

### Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Ankit Joshi	Inorganic Chemist	Sydney Inorganics
Pabi Subba	Senior Organic Chemist	Sydney Organics
Shobhna Chandra	Metals Coordinator	Sydney Inorganics



## General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.  
LOR = Limit of reporting  
^ = This result is computed from individual analyte detections at or above the level of reporting  
∅ = ALS is not NATA accredited for these tests.

- ED093F: Sodium adsorption ratio could not be calculated as Calcium and Magnesium results in sample ES1537259-001 were less than the limit of reporting for the method.
- EA016: Calculated TDS is determined from Electrical conductivity using a conversion factor of 0.65.
- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	BH1S	BH1D	BH2	BH3S	BH3D
Client sampling date / time				[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	
Compound	CAS Number	LOR	Unit	ES1537259-001	ES1537259-002	ES1537259-003	ES1537259-004	ES1537259-005	
				Result	Result	Result	Result	Result	
<b>EA005P: pH by PC Titrator</b>									
pH Value	----	0.01	pH Unit	6.25	6.44	6.52	7.10	6.88	
<b>EA006: Sodium Adsorption Ratio (SAR)</b>									
Sodium Adsorption Ratio	----	0.01	-	----	0.93	0.57	4.33	0.75	
<b>EA010P: Conductivity by PC Titrator</b>									
Electrical Conductivity @ 25°C	----	1	µS/cm	90	126	460	552	191	
<b>EA016: Calculated TDS (from Electrical Conductivity)</b>									
Total Dissolved Solids (Calc.)	----	1	mg/L	58	82	299	359	124	
<b>EA025: Total Suspended Solids dried at 104 ± 2°C</b>									
Suspended Solids (SS)	----	5	mg/L	----	----	----	----	----	
<b>EA065: Total Hardness as CaCO3</b>									
Total Hardness as CaCO3	----	1	mg/L	<1	26	170	99	66	
<b>ED037P: Alkalinity by PC Titrator</b>									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	<1	<1	<1	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	<1	<1	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	12	29	59	211	67	
Total Alkalinity as CaCO3	----	1	mg/L	12	29	59	211	67	
<b>ED041G: Sulfate (Turbidimetric) as SO4 2- by DA</b>									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	13	10	<1	8	6	
<b>ED045G: Chloride by Discrete Analyser</b>									
Chloride	16887-00-6	1	mg/L	5	14	53	42	12	
<b>ED093F: Dissolved Major Cations</b>									
Calcium	7440-70-2	1	mg/L	<1	4	2	10	5	
Magnesium	7439-95-4	1	mg/L	<1	4	40	18	13	
Sodium	7440-23-5	1	mg/L	16	11	17	99	14	
Potassium	7440-09-7	1	mg/L	<1	3	<1	3	1	
<b>EG020F: Dissolved Metals by ICP-MS</b>									
Aluminium	7429-90-5	0.01	mg/L	<0.01	0.02	0.02	1.40	<0.01	
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	<0.001	0.005	<0.001	
Barium	7440-39-3	0.001	mg/L	0.005	0.128	0.305	0.157	0.046	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0001	0.0005	<0.0001	
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	0.004	<0.001	
Copper	7440-50-8	0.001	mg/L	<0.001	0.003	<0.001	0.124	<0.001	
Cobalt	7440-48-4	0.001	mg/L	<0.001	0.002	0.001	0.017	<0.001	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	BH1S	BH1D	BH2	BH3S	BH3D
Client sampling date / time				[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	
Compound	CAS Number	LOR	Unit	ES1537259-001	ES1537259-002	ES1537259-003	ES1537259-004	ES1537259-005	
				Result	Result	Result	Result	Result	
<b>EG020F: Dissolved Metals by ICP-MS - Continued</b>									
Nickel	7440-02-0	0.001	mg/L	<0.001	0.006	0.014	0.017	0.003	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	0.164	<0.001	
Zinc	7440-66-6	0.005	mg/L	<0.005	0.033	0.014	0.196	0.005	
Manganese	7439-96-5	0.001	mg/L	0.002	0.025	0.058	0.675	0.016	
Iron	7439-89-6	0.05	mg/L	<0.05	<0.05	<0.05	0.92	<0.05	
<b>EG035F: Dissolved Mercury by FIMS</b>									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
<b>EK040P: Fluoride by PC Titrator</b>									
Fluoride	16984-48-8	0.1	mg/L	<0.1	<0.1	<0.1	0.8	0.2	
<b>EK055G: Ammonia as N by Discrete Analyser</b>									
Ammonia as N	7664-41-7	0.01	mg/L	0.03	0.02	0.06	0.06	<0.01	
<b>EK057G: Nitrite as N by Discrete Analyser</b>									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
<b>EK058G: Nitrate as N by Discrete Analyser</b>									
Nitrate as N	14797-55-8	0.01	mg/L	1.44	0.13	17.1	0.02	0.08	
<b>EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser</b>									
Nitrite + Nitrate as N	----	0.01	mg/L	1.44	0.13	17.1	0.02	0.08	
<b>EK061G: Total Kjeldahl Nitrogen By Discrete Analyser</b>									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.2	0.2	2.3	1.9	<0.1	
<b>EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser</b>									
^ Total Nitrogen as N	----	0.1	mg/L	1.6	0.3	19.4	1.9	<0.1	
<b>EK067G: Total Phosphorus as P by Discrete Analyser</b>									
Total Phosphorus as P	----	0.01	mg/L	0.16	0.02	0.91	1.35	0.11	
<b>EK071G: Reactive Phosphorus as P by discrete analyser</b>									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	0.02	<0.01	0.07	
<b>EN055: Ionic Balance</b>									
Total Anions	----	0.01	meq/L	----	----	3.89	5.75	----	
Total Anions	----	0.01	meq/L	0.65	1.18	----	----	1.80	
Total Cations	----	0.01	meq/L	0.70	1.08	4.13	6.36	1.95	
Ionic Balance	----	0.01	%	----	----	2.95	5.06	----	
Ionic Balance	----	0.01	%	----	----	----	----	----	
<b>EP005: Total Organic Carbon (TOC)</b>									
Total Organic Carbon	----	1	mg/L	6	5	7	5	6	





## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	BH1S	BH1D	BH2	BH3S	BH3D
Client sampling date / time				[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	
Compound	CAS Number	LOR	Unit	ES1537259-001	ES1537259-002	ES1537259-003	ES1537259-004	ES1537259-005	
				Result	Result	Result	Result	Result	
<b>EP020: Oil and Grease (O&amp;G)</b>									
Oil & Grease	----	5	mg/L	----	----	----	----	----	
<b>EP066: Polychlorinated Biphenyls (PCB)</b>									
Total Polychlorinated biphenyls	----	1	µg/L	<1	<1	<1	<1	<1	
<b>EP068A: Organochlorine Pesticides (OC)</b>									
alpha-BHC	319-84-6	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
beta-BHC	319-85-7	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
gamma-BHC	58-89-9	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
delta-BHC	319-86-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Heptachlor	76-44-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Aldrin	309-00-2	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Heptachlor epoxide	1024-57-3	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
trans-Chlordane	5103-74-2	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
alpha-Endosulfan	959-98-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Dieldrin	60-57-1	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
4,4'-DDE	72-55-9	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Endrin	72-20-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
beta-Endosulfan	33213-65-9	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
4,4'-DDD	72-54-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Endrin aldehyde	7421-93-4	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Endosulfan sulfate	1031-07-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
4,4'-DDT	50-29-3	2	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	
Endrin ketone	53494-70-5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Methoxychlor	72-43-5	2	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	
^ Total Chlordane (sum)	----	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-3	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
<b>EP068B: Organophosphorus Pesticides (OP)</b>									
Dichlorvos	62-73-7	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Demeton-S-methyl	919-86-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Monocrotophos	6923-22-4	2	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	
Dimethoate	60-51-5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	BH1S	BH1D	BH2	BH3S	BH3D
Client sampling date / time				[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	
Compound	CAS Number	LOR	Unit	ES1537259-001	ES1537259-002	ES1537259-003	ES1537259-004	ES1537259-005	
				Result	Result	Result	Result	Result	
<b>EP068B: Organophosphorus Pesticides (OP) - Continued</b>									
Diazinon	333-41-5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Chlorpyrifos-methyl	5598-13-0	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Parathion-methyl	298-00-0	2	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	
Malathion	121-75-5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Fenthion	55-38-9	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Chlorpyrifos	2921-88-2	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Parathion	56-38-2	2	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	
Pirimphos-ethyl	23505-41-1	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Chlorfenvinphos	470-90-6	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Bromophos-ethyl	4824-78-6	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Fenamiphos	22224-92-6	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Prothiofos	34643-46-4	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Ethion	563-12-2	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Carbophenothion	786-19-6	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Azinphos Methyl	86-50-0	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
<b>EP075(SIM)A: Phenolic Compounds</b>									
Phenol	108-95-2	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
2-Chlorophenol	95-57-8	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
2-Methylphenol	95-48-7	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
3- & 4-Methylphenol	1319-77-3	2	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	
2-Nitrophenol	88-75-5	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
2,4-Dimethylphenol	105-67-9	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
2,4-Dichlorophenol	120-83-2	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
2,6-Dichlorophenol	87-65-0	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
4-Chloro-3-methylphenol	59-50-7	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
2,4,6-Trichlorophenol	88-06-2	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
2,4,5-Trichlorophenol	95-95-4	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Pentachlorophenol	87-86-5	2	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>									
Naphthalene	91-20-3	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Acenaphthylene	208-96-8	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Acenaphthene	83-32-9	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Fluorene	86-73-7	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Phenanthrene	85-01-8	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	BH1S	BH1D	BH2	BH3S	BH3D
Client sampling date / time				[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	
Compound	CAS Number	LOR	Unit	ES1537259-001	ES1537259-002	ES1537259-003	ES1537259-004	ES1537259-005	
				Result	Result	Result	Result	Result	
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>									
Anthracene	120-12-7	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Fluoranthene	206-44-0	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Pyrene	129-00-0	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Benz(a)anthracene	56-55-3	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Chrysene	218-01-9	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
<b>EP080/071: Total Petroleum Hydrocarbons</b>									
C6 - C9 Fraction	----	20	µg/L	<20	<20	<20	<20	<20	
C10 - C14 Fraction	----	50	µg/L	<50	<50	<50	<50	<50	
C15 - C28 Fraction	----	100	µg/L	<100	<100	<100	<100	<100	
C29 - C36 Fraction	----	50	µg/L	<50	<50	<50	<50	<50	
^ C10 - C36 Fraction (sum)	----	50	µg/L	<50	<50	<50	<50	<50	
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>									
C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	<20	<20	<20	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	<20	<20	<20	<20	
>C10 - C16 Fraction	----	100	µg/L	<100	<100	<100	<100	<100	
>C16 - C34 Fraction	----	100	µg/L	<100	<100	<100	<100	<100	
>C34 - C40 Fraction	----	100	µg/L	<100	<100	<100	<100	<100	
^ >C10 - C40 Fraction (sum)	----	100	µg/L	<100	<100	<100	<100	<100	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	<100	<100	<100	<100	<100	
<b>EP080: BTEXN</b>									
Benzene	71-43-2	1	µg/L	<1	<1	<1	<1	<1	
Toluene	108-88-3	2	µg/L	<2	<2	<2	<2	<2	
Ethylbenzene	100-41-4	2	µg/L	<2	<2	<2	<2	<2	
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	<2	<2	<2	
ortho-Xylene	95-47-6	2	µg/L	<2	<2	<2	<2	<2	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	BH1S	BH1D	BH2	BH3S	BH3D
Client sampling date / time				[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	
Compound	CAS Number	LOR	Unit	ES1537259-001	ES1537259-002	ES1537259-003	ES1537259-004	ES1537259-005	
				Result	Result	Result	Result	Result	
<b>EP080: BTEXN - Continued</b>									
^ Total Xylenes	1330-20-7	2	µg/L	<2	<2	<2	<2	<2	
^ Sum of BTEX	----	1	µg/L	<1	<1	<1	<1	<1	
Naphthalene	91-20-3	5	µg/L	<5	<5	<5	<5	<5	
<b>EP066S: PCB Surrogate</b>									
Decachlorobiphenyl	2051-24-3	1	%	72.0	78.0	74.0	69.0	79.0	
<b>EP068S: Organochlorine Pesticide Surrogate</b>									
Dibromo-DDE	21655-73-2	0.5	%	66.4	78.3	71.2	64.2	72.6	
<b>EP068T: Organophosphorus Pesticide Surrogate</b>									
DEF	78-48-8	0.5	%	66.6	78.8	69.5	60.9	71.8	
<b>EP075(SIM)S: Phenolic Compound Surrogates</b>									
Phenol-d6	13127-88-3	1	%	25.1	28.2	26.0	22.6	22.6	
2-Chlorophenol-D4	93951-73-6	1	%	51.6	55.7	55.3	43.0	44.4	
2,4,6-Tribromophenol	118-79-6	1	%	51.3	43.4	53.3	39.3	40.0	
<b>EP075(SIM)T: PAH Surrogates</b>									
2-Fluorobiphenyl	321-60-8	1	%	65.0	69.1	72.1	62.0	60.5	
Anthracene-d10	1719-06-8	1	%	91.3	93.7	65.3	67.2	65.9	
4-Terphenyl-d14	1718-51-0	1	%	67.4	75.1	71.8	64.6	71.2	
<b>EP080S: TPH(V)/BTEX Surrogates</b>									
1,2-Dichloroethane-D4	17060-07-0	2	%	116	118	111	106	107	
Toluene-D8	2037-26-5	2	%	106	104	102	106	96.9	
4-Bromofluorobenzene	460-00-4	2	%	98.1	97.1	97.2	98.2	94.0	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)		Client sample ID			BH4S	BH4D	BH5	BH6D	W9001
Client sampling date / time		[23-Nov-2015]			[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]
Compound	CAS Number	LOR	Unit	ES1537259-006	ES1537259-007	ES1537259-008	ES1537259-009	ES1537259-010	
				Result	Result	Result	Result	Result	
<b>EA005P: pH by PC Titrator</b>									
pH Value	----	0.01	pH Unit	7.21	7.32	7.86	7.50	8.07	
<b>EA006: Sodium Adsorption Ratio (SAR)</b>									
Sodium Adsorption Ratio	----	0.01	-	3.06	0.74	3.94	0.60	0.56	
<b>EA010P: Conductivity by PC Titrator</b>									
Electrical Conductivity @ 25°C	----	1	µS/cm	773	260	1380	246	224	
<b>EA016: Calculated TDS (from Electrical Conductivity)</b>									
Total Dissolved Solids (Calc.)	----	1	mg/L	502	169	897	160	146	
<b>EA025: Total Suspended Solids dried at 104 ± 2°C</b>									
Suspended Solids (SS)	----	5	mg/L	----	----	----	----	----	
<b>EA065: Total Hardness as CaCO3</b>									
Total Hardness as CaCO3	----	1	mg/L	183	99	391	101	85	
<b>ED037P: Alkalinity by PC Titrator</b>									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	<1	<1	<1	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	<1	<1	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	221	127	517	123	82	
Total Alkalinity as CaCO3	----	1	mg/L	221	127	517	123	82	
<b>ED041G: Sulfate (Turbidimetric) as SO4 2- by DA</b>									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	7	5	172	3	5	
<b>ED045G: Chloride by Discrete Analyser</b>									
Chloride	16887-00-6	1	mg/L	106	5	37	5	13	
<b>ED093F: Dissolved Major Cations</b>									
Calcium	7440-70-2	1	mg/L	4	15	13	6	16	
Magnesium	7439-95-4	1	mg/L	42	15	87	21	11	
Sodium	7440-23-5	1	mg/L	95	17	179	14	12	
Potassium	7440-09-7	1	mg/L	<1	1	<1	3	4	
<b>EG020F: Dissolved Metals by ICP-MS</b>									
Aluminium	7429-90-5	0.01	mg/L	<0.01	<0.01	<0.01	0.02	0.11	
Arsenic	7440-38-2	0.001	mg/L	<0.001	0.010	<0.001	0.001	<0.001	
Barium	7440-39-3	0.001	mg/L	0.101	0.022	0.034	0.009	0.025	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	0.044	
Cobalt	7440-48-4	0.001	mg/L	0.011	<0.001	<0.001	<0.001	<0.001	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	BH4S	BH4D	BH5	BH6D	W9001
Client sampling date / time				[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	
Compound	CAS Number	LOR	Unit	ES1537259-006	ES1537259-007	ES1537259-008	ES1537259-009	ES1537259-010	
				Result	Result	Result	Result	Result	
<b>EG020F: Dissolved Metals by ICP-MS - Continued</b>									
Nickel	7440-02-0	0.001	mg/L	0.005	0.002	<0.001	<0.001	<0.001	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	0.002	
Zinc	7440-66-6	0.005	mg/L	<0.005	0.009	0.005	<0.005	0.023	
Manganese	7439-96-5	0.001	mg/L	2.66	0.484	0.005	0.527	0.008	
Iron	7439-89-6	0.05	mg/L	0.33	2.47	<0.05	<0.05	0.06	
<b>EG035F: Dissolved Mercury by FIMS</b>									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
<b>EK040P: Fluoride by PC Titrator</b>									
Fluoride	16984-48-8	0.1	mg/L	0.4	0.3	1.5	0.1	1.1	
<b>EK055G: Ammonia as N by Discrete Analyser</b>									
Ammonia as N	7664-41-7	0.01	mg/L	0.06	<0.01	0.01	0.01	0.05	
<b>EK057G: Nitrite as N by Discrete Analyser</b>									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
<b>EK058G: Nitrate as N by Discrete Analyser</b>									
Nitrate as N	14797-55-8	0.01	mg/L	0.09	0.02	4.24	0.02	0.15	
<b>EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser</b>									
Nitrite + Nitrate as N	----	0.01	mg/L	0.09	0.02	4.24	0.02	0.15	
<b>EK061G: Total Kjeldahl Nitrogen By Discrete Analyser</b>									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	1.4	<0.1	0.5	0.1	0.3	
<b>EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser</b>									
^ Total Nitrogen as N	----	0.1	mg/L	1.5	<0.1	4.7	0.1	0.4	
<b>EK067G: Total Phosphorus as P by Discrete Analyser</b>									
Total Phosphorus as P	----	0.01	mg/L	0.34	0.24	0.02	0.14	0.02	
<b>EK071G: Reactive Phosphorus as P by discrete analyser</b>									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
<b>EN055: Ionic Balance</b>									
Total Anions	----	0.01	meq/L	----	----	----	----	----	
Total Anions	----	0.01	meq/L	7.55	2.78	15.0	2.66	2.11	
Total Cations	----	0.01	meq/L	7.79	2.75	15.6	2.71	2.33	
Ionic Balance	----	0.01	%	----	----	----	----	----	
Ionic Balance	----	0.01	%	1.51	----	2.05	----	----	
<b>EP005: Total Organic Carbon (TOC)</b>									
Total Organic Carbon	----	1	mg/L	5	2	3	2	4	





## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	BH4S	BH4D	BH5	BH6D	W9001
Client sampling date / time				[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	
Compound	CAS Number	LOR	Unit	ES1537259-006	ES1537259-007	ES1537259-008	ES1537259-009	ES1537259-010	
				Result	Result	Result	Result	Result	
<b>EP020: Oil and Grease (O&amp;G)</b>									
Oil & Grease	----	5	mg/L	----	----	----	----	----	
<b>EP066: Polychlorinated Biphenyls (PCB)</b>									
Total Polychlorinated biphenyls	----	1	µg/L	<1	<1	<1	<1	<1	
<b>EP068A: Organochlorine Pesticides (OC)</b>									
alpha-BHC	319-84-6	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
beta-BHC	319-85-7	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
gamma-BHC	58-89-9	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
delta-BHC	319-86-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Heptachlor	76-44-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Aldrin	309-00-2	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Heptachlor epoxide	1024-57-3	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
trans-Chlordane	5103-74-2	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
alpha-Endosulfan	959-98-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Dieldrin	60-57-1	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
4,4'-DDE	72-55-9	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Endrin	72-20-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
beta-Endosulfan	33213-65-9	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
4,4'-DDD	72-54-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Endrin aldehyde	7421-93-4	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Endosulfan sulfate	1031-07-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
4,4'-DDT	50-29-3	2	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	
Endrin ketone	53494-70-5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Methoxychlor	72-43-5	2	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	
^ Total Chlordane (sum)	----	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-3	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
<b>EP068B: Organophosphorus Pesticides (OP)</b>									
Dichlorvos	62-73-7	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Demeton-S-methyl	919-86-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Monocrotophos	6923-22-4	2	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	
Dimethoate	60-51-5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	BH4S	BH4D	BH5	BH6D	W9001
Client sampling date / time				[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	
Compound	CAS Number	LOR	Unit	ES1537259-006	ES1537259-007	ES1537259-008	ES1537259-009	ES1537259-010	
				Result	Result	Result	Result	Result	
<b>EP068B: Organophosphorus Pesticides (OP) - Continued</b>									
Diazinon	333-41-5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Chlorpyrifos-methyl	5598-13-0	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Parathion-methyl	298-00-0	2	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	
Malathion	121-75-5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Fenthion	55-38-9	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Chlorpyrifos	2921-88-2	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Parathion	56-38-2	2	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	
Pirimphos-ethyl	23505-41-1	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Chlorfenvinphos	470-90-6	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Bromophos-ethyl	4824-78-6	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Fenamiphos	22224-92-6	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Prothiofos	34643-46-4	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Ethion	563-12-2	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Carbophenothion	786-19-6	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Azinphos Methyl	86-50-0	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
<b>EP075(SIM)A: Phenolic Compounds</b>									
Phenol	108-95-2	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
2-Chlorophenol	95-57-8	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
2-Methylphenol	95-48-7	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
3- & 4-Methylphenol	1319-77-3	2	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	
2-Nitrophenol	88-75-5	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
2,4-Dimethylphenol	105-67-9	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
2,4-Dichlorophenol	120-83-2	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
2,6-Dichlorophenol	87-65-0	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
4-Chloro-3-methylphenol	59-50-7	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
2,4,6-Trichlorophenol	88-06-2	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
2,4,5-Trichlorophenol	95-95-4	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Pentachlorophenol	87-86-5	2	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>									
Naphthalene	91-20-3	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Acenaphthylene	208-96-8	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Acenaphthene	83-32-9	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Fluorene	86-73-7	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Phenanthrene	85-01-8	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	BH4S	BH4D	BH5	BH6D	W9001
Client sampling date / time				[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	
Compound	CAS Number	LOR	Unit	ES1537259-006	ES1537259-007	ES1537259-008	ES1537259-009	ES1537259-010	
				Result	Result	Result	Result	Result	
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>									
Anthracene	120-12-7	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Fluoranthene	206-44-0	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Pyrene	129-00-0	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Benz(a)anthracene	56-55-3	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Chrysene	218-01-9	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
<b>EP080/071: Total Petroleum Hydrocarbons</b>									
C6 - C9 Fraction	----	20	µg/L	<20	<20	<20	<20	<20	
C10 - C14 Fraction	----	50	µg/L	<50	<50	<50	<50	<50	
C15 - C28 Fraction	----	100	µg/L	<100	<100	<100	<100	<100	
C29 - C36 Fraction	----	50	µg/L	<50	<50	<50	<50	<50	
^ C10 - C36 Fraction (sum)	----	50	µg/L	<50	<50	<50	<50	<50	
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>									
C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	<20	<20	<20	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	<20	<20	<20	<20	
>C10 - C16 Fraction	----	100	µg/L	<100	<100	<100	<100	<100	
>C16 - C34 Fraction	----	100	µg/L	<100	<100	<100	<100	<100	
>C34 - C40 Fraction	----	100	µg/L	<100	<100	<100	<100	<100	
^ >C10 - C40 Fraction (sum)	----	100	µg/L	<100	<100	<100	<100	<100	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	<100	<100	<100	<100	<100	
<b>EP080: BTEXN</b>									
Benzene	71-43-2	1	µg/L	<1	<1	<1	<1	<1	
Toluene	108-88-3	2	µg/L	<2	<2	<2	<2	<2	
Ethylbenzene	100-41-4	2	µg/L	<2	<2	<2	<2	<2	
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	<2	<2	<2	
ortho-Xylene	95-47-6	2	µg/L	<2	<2	<2	<2	<2	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	BH4S	BH4D	BH5	BH6D	W9001
Client sampling date / time				[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	[23-Nov-2015]	
Compound	CAS Number	LOR	Unit	ES1537259-006	ES1537259-007	ES1537259-008	ES1537259-009	ES1537259-010	
				Result	Result	Result	Result	Result	
<b>EP080: BTEXN - Continued</b>									
^ Total Xylenes	1330-20-7	2	µg/L	<2	<2	<2	<2	<2	
^ Sum of BTEX	----	1	µg/L	<1	<1	<1	<1	<1	
Naphthalene	91-20-3	5	µg/L	<5	<5	<5	<5	<5	
<b>EP066S: PCB Surrogate</b>									
Decachlorobiphenyl	2051-24-3	1	%	72.0	76.0	75.0	62.0	74.0	
<b>EP068S: Organochlorine Pesticide Surrogate</b>									
Dibromo-DDE	21655-73-2	0.5	%	71.5	74.1	72.3	60.8	70.8	
<b>EP068T: Organophosphorus Pesticide Surrogate</b>									
DEF	78-48-8	0.5	%	73.4	72.8	71.4	61.6	73.6	
<b>EP075(SIM)S: Phenolic Compound Surrogates</b>									
Phenol-d6	13127-88-3	1	%	25.0	24.7	21.1	19.5	22.5	
2-Chlorophenol-D4	93951-73-6	1	%	48.9	47.7	39.5	39.3	42.1	
2,4,6-Tribromophenol	118-79-6	1	%	44.6	45.0	37.9	32.1	37.1	
<b>EP075(SIM)T: PAH Surrogates</b>									
2-Fluorobiphenyl	321-60-8	1	%	68.7	68.5	56.5	54.4	57.3	
Anthracene-d10	1719-06-8	1	%	87.9	70.7	66.8	70.2	81.0	
4-Terphenyl-d14	1718-51-0	1	%	70.3	69.4	70.4	57.5	67.8	
<b>EP080S: TPH(V)/BTEX Surrogates</b>									
1,2-Dichloroethane-D4	17060-07-0	2	%	109	106	104	130	123	
Toluene-D8	2037-26-5	2	%	105	104	98.6	103	89.4	
4-Bromofluorobenzene	460-00-4	2	%	97.7	94.4	89.1	92.0	92.4	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)		Client sample ID			W9003	SW1	----	----	----
		Client sampling date / time			[23-Nov-2015]	[23-Nov-2015]	----	----	----
Compound	CAS Number	LOR	Unit	ES1537259-011	ES1537259-012	-----	-----	-----	
				Result	Result	Result	Result	Result	
<b>EA005P: pH by PC Titrator</b>									
pH Value	----	0.01	pH Unit	6.92	7.62	----	----	----	
<b>EA006: Sodium Adsorption Ratio (SAR)</b>									
Sodium Adsorption Ratio	----	0.01	-	0.75	----	----	----	----	
<b>EA010P: Conductivity by PC Titrator</b>									
Electrical Conductivity @ 25°C	----	1	µS/cm	191	184	----	----	----	
<b>EA016: Calculated TDS (from Electrical Conductivity)</b>									
Total Dissolved Solids (Calc.)	----	1	mg/L	124	----	----	----	----	
<b>EA025: Total Suspended Solids dried at 104 ± 2°C</b>									
Suspended Solids (SS)	----	5	mg/L	----	12	----	----	----	
<b>EA065: Total Hardness as CaCO3</b>									
Total Hardness as CaCO3	----	1	mg/L	66	----	----	----	----	
<b>ED037P: Alkalinity by PC Titrator</b>									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	----	----	----	----	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	----	----	----	----	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	71	----	----	----	----	
Total Alkalinity as CaCO3	----	1	mg/L	71	----	----	----	----	
<b>ED041G: Sulfate (Turbidimetric) as SO4 2- by DA</b>									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	7	----	----	----	----	
<b>ED045G: Chloride by Discrete Analyser</b>									
Chloride	16887-00-6	1	mg/L	12	----	----	----	----	
<b>ED093F: Dissolved Major Cations</b>									
Calcium	7440-70-2	1	mg/L	5	----	----	----	----	
Magnesium	7439-95-4	1	mg/L	13	----	----	----	----	
Sodium	7440-23-5	1	mg/L	14	----	----	----	----	
Potassium	7440-09-7	1	mg/L	1	----	----	----	----	
<b>EG020F: Dissolved Metals by ICP-MS</b>									
Aluminium	7429-90-5	0.01	mg/L	0.24	----	----	----	----	
Arsenic	7440-38-2	0.001	mg/L	<0.001	----	----	----	----	
Barium	7440-39-3	0.001	mg/L	0.052	----	----	----	----	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	----	----	----	----	
Chromium	7440-47-3	0.001	mg/L	<0.001	----	----	----	----	
Copper	7440-50-8	0.001	mg/L	<0.001	----	----	----	----	
Cobalt	7440-48-4	0.001	mg/L	<0.001	----	----	----	----	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	W9003	SW1	----	----	----
Client sampling date / time				[23-Nov-2015]	[23-Nov-2015]	----	----	----	
Compound	CAS Number	LOR	Unit	ES1537259-011	ES1537259-012	-----	-----	-----	
				Result	Result	Result	Result	Result	
<b>EG020F: Dissolved Metals by ICP-MS - Continued</b>									
Nickel	7440-02-0	0.001	mg/L	0.003	----	----	----	----	
Lead	7439-92-1	0.001	mg/L	<0.001	----	----	----	----	
Zinc	7440-66-6	0.005	mg/L	0.011	----	----	----	----	
Manganese	7439-96-5	0.001	mg/L	0.016	----	----	----	----	
Iron	7439-89-6	0.05	mg/L	0.14	----	----	----	----	
<b>EG035F: Dissolved Mercury by FIMS</b>									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	----	----	----	----	
<b>EK040P: Fluoride by PC Titrator</b>									
Fluoride	16984-48-8	0.1	mg/L	0.2	----	----	----	----	
<b>EK055G: Ammonia as N by Discrete Analyser</b>									
Ammonia as N	7664-41-7	0.01	mg/L	<0.01	----	----	----	----	
<b>EK057G: Nitrite as N by Discrete Analyser</b>									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	----	----	----	----	
<b>EK058G: Nitrate as N by Discrete Analyser</b>									
Nitrate as N	14797-55-8	0.01	mg/L	0.08	----	----	----	----	
<b>EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser</b>									
Nitrite + Nitrate as N	----	0.01	mg/L	0.08	----	----	----	----	
<b>EK061G: Total Kjeldahl Nitrogen By Discrete Analyser</b>									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	----	----	----	----	
<b>EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser</b>									
^ Total Nitrogen as N	----	0.1	mg/L	<0.1	----	----	----	----	
<b>EK067G: Total Phosphorus as P by Discrete Analyser</b>									
Total Phosphorus as P	----	0.01	mg/L	0.10	----	----	----	----	
<b>EK071G: Reactive Phosphorus as P by discrete analyser</b>									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.06	----	----	----	----	
<b>EN055: Ionic Balance</b>									
Total Anions	----	0.01	meq/L	----	----	----	----	----	
Total Anions	----	0.01	meq/L	1.90	----	----	----	----	
Total Cations	----	0.01	meq/L	1.95	----	----	----	----	
Ionic Balance	----	0.01	%	----	----	----	----	----	
Ionic Balance	----	0.01	%	----	----	----	----	----	
<b>EP005: Total Organic Carbon (TOC)</b>									
Total Organic Carbon	----	1	mg/L	1	----	----	----	----	





## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	W9003	SW1	----	----	----
Client sampling date / time				[23-Nov-2015]	[23-Nov-2015]	----	----	----	
Compound	CAS Number	LOR	Unit	ES1537259-011	ES1537259-012	-----	-----	-----	
				Result	Result	Result	Result	Result	
<b>EP020: Oil and Grease (O&amp;G)</b>									
Oil & Grease	----	5	mg/L	----	<5	----	----	----	
<b>EP066: Polychlorinated Biphenyls (PCB)</b>									
Total Polychlorinated biphenyls	----	1	µg/L	<1	----	----	----	----	
<b>EP068A: Organochlorine Pesticides (OC)</b>									
alpha-BHC	319-84-6	0.5	µg/L	<0.5	----	----	----	----	
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	<0.5	----	----	----	----	
beta-BHC	319-85-7	0.5	µg/L	<0.5	----	----	----	----	
gamma-BHC	58-89-9	0.5	µg/L	<0.5	----	----	----	----	
delta-BHC	319-86-8	0.5	µg/L	<0.5	----	----	----	----	
Heptachlor	76-44-8	0.5	µg/L	<0.5	----	----	----	----	
Aldrin	309-00-2	0.5	µg/L	<0.5	----	----	----	----	
Heptachlor epoxide	1024-57-3	0.5	µg/L	<0.5	----	----	----	----	
trans-Chlordane	5103-74-2	0.5	µg/L	<0.5	----	----	----	----	
alpha-Endosulfan	959-98-8	0.5	µg/L	<0.5	----	----	----	----	
cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	----	----	----	----	
Dieldrin	60-57-1	0.5	µg/L	<0.5	----	----	----	----	
4,4'-DDE	72-55-9	0.5	µg/L	<0.5	----	----	----	----	
Endrin	72-20-8	0.5	µg/L	<0.5	----	----	----	----	
beta-Endosulfan	33213-65-9	0.5	µg/L	<0.5	----	----	----	----	
4,4'-DDD	72-54-8	0.5	µg/L	<0.5	----	----	----	----	
Endrin aldehyde	7421-93-4	0.5	µg/L	<0.5	----	----	----	----	
Endosulfan sulfate	1031-07-8	0.5	µg/L	<0.5	----	----	----	----	
4,4'-DDT	50-29-3	2	µg/L	<2.0	----	----	----	----	
Endrin ketone	53494-70-5	0.5	µg/L	<0.5	----	----	----	----	
Methoxychlor	72-43-5	2	µg/L	<2.0	----	----	----	----	
^ Total Chlordane (sum)	----	0.5	µg/L	<0.5	----	----	----	----	
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	µg/L	<0.5	----	----	----	----	
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	µg/L	<0.5	----	----	----	----	
<b>EP068B: Organophosphorus Pesticides (OP)</b>									
Dichlorvos	62-73-7	0.5	µg/L	<0.5	----	----	----	----	
Demeton-S-methyl	919-86-8	0.5	µg/L	<0.5	----	----	----	----	
Monocrotophos	6923-22-4	2	µg/L	<2.0	----	----	----	----	
Dimethoate	60-51-5	0.5	µg/L	<0.5	----	----	----	----	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	W9003	SW1	----	----	----
Client sampling date / time				[23-Nov-2015]	[23-Nov-2015]	----	----	----	
Compound	CAS Number	LOR	Unit	ES1537259-011	ES1537259-012	-----	-----	-----	
				Result	Result	Result	Result	Result	
<b>EP068B: Organophosphorus Pesticides (OP) - Continued</b>									
Diazinon	333-41-5	0.5	µg/L	<0.5	----	----	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.5	µg/L	<0.5	----	----	----	----	----
Parathion-methyl	298-00-0	2	µg/L	<2.0	----	----	----	----	----
Malathion	121-75-5	0.5	µg/L	<0.5	----	----	----	----	----
Fenthion	55-38-9	0.5	µg/L	<0.5	----	----	----	----	----
Chlorpyrifos	2921-88-2	0.5	µg/L	<0.5	----	----	----	----	----
Parathion	56-38-2	2	µg/L	<2.0	----	----	----	----	----
Pirimphos-ethyl	23505-41-1	0.5	µg/L	<0.5	----	----	----	----	----
Chlorfenvinphos	470-90-6	0.5	µg/L	<0.5	----	----	----	----	----
Bromophos-ethyl	4824-78-6	0.5	µg/L	<0.5	----	----	----	----	----
Fenamiphos	22224-92-6	0.5	µg/L	<0.5	----	----	----	----	----
Prothiofos	34643-46-4	0.5	µg/L	<0.5	----	----	----	----	----
Ethion	563-12-2	0.5	µg/L	<0.5	----	----	----	----	----
Carbophenothion	786-19-6	0.5	µg/L	<0.5	----	----	----	----	----
Azinphos Methyl	86-50-0	0.5	µg/L	<0.5	----	----	----	----	----
<b>EP075(SIM)A: Phenolic Compounds</b>									
Phenol	108-95-2	1	µg/L	<1.0	----	----	----	----	----
2-Chlorophenol	95-57-8	1	µg/L	<1.0	----	----	----	----	----
2-Methylphenol	95-48-7	1	µg/L	<1.0	----	----	----	----	----
3- & 4-Methylphenol	1319-77-3	2	µg/L	<2.0	----	----	----	----	----
2-Nitrophenol	88-75-5	1	µg/L	<1.0	----	----	----	----	----
2,4-Dimethylphenol	105-67-9	1	µg/L	<1.0	----	----	----	----	----
2,4-Dichlorophenol	120-83-2	1	µg/L	<1.0	----	----	----	----	----
2,6-Dichlorophenol	87-65-0	1	µg/L	<1.0	----	----	----	----	----
4-Chloro-3-methylphenol	59-50-7	1	µg/L	<1.0	----	----	----	----	----
2,4,6-Trichlorophenol	88-06-2	1	µg/L	<1.0	----	----	----	----	----
2,4,5-Trichlorophenol	95-95-4	1	µg/L	<1.0	----	----	----	----	----
Pentachlorophenol	87-86-5	2	µg/L	<2.0	----	----	----	----	----
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>									
Naphthalene	91-20-3	1	µg/L	<1.0	----	----	----	----	----
Acenaphthylene	208-96-8	1	µg/L	<1.0	----	----	----	----	----
Acenaphthene	83-32-9	1	µg/L	<1.0	----	----	----	----	----
Fluorene	86-73-7	1	µg/L	<1.0	----	----	----	----	----
Phenanthrene	85-01-8	1	µg/L	<1.0	----	----	----	----	----



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	W9003	SW1	----	----	----
Client sampling date / time				[23-Nov-2015]	[23-Nov-2015]	----	----	----	
Compound	CAS Number	LOR	Unit	ES1537259-011	ES1537259-012	-----	-----	-----	
				Result	Result	Result	Result	Result	
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>									
Anthracene	120-12-7	1	µg/L	<1.0	----	----	----	----	
Fluoranthene	206-44-0	1	µg/L	<1.0	----	----	----	----	
Pyrene	129-00-0	1	µg/L	<1.0	----	----	----	----	
Benz(a)anthracene	56-55-3	1	µg/L	<1.0	----	----	----	----	
Chrysene	218-01-9	1	µg/L	<1.0	----	----	----	----	
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	----	----	----	----	
Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	----	----	----	----	
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	----	----	----	----	
Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	----	----	----	----	
Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	----	----	----	----	
Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	----	----	----	----	
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	----	----	----	----	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L	<0.5	----	----	----	----	
<b>EP080/071: Total Petroleum Hydrocarbons</b>									
C6 - C9 Fraction	----	20	µg/L	<20	----	----	----	----	
C10 - C14 Fraction	----	50	µg/L	<50	----	----	----	----	
C15 - C28 Fraction	----	100	µg/L	<100	----	----	----	----	
C29 - C36 Fraction	----	50	µg/L	<50	----	----	----	----	
^ C10 - C36 Fraction (sum)	----	50	µg/L	<50	----	----	----	----	
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>									
C6 - C10 Fraction	C6_C10	20	µg/L	<20	----	----	----	----	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	----	----	----	----	
>C10 - C16 Fraction	----	100	µg/L	<100	----	----	----	----	
>C16 - C34 Fraction	----	100	µg/L	<100	----	----	----	----	
>C34 - C40 Fraction	----	100	µg/L	<100	----	----	----	----	
^ >C10 - C40 Fraction (sum)	----	100	µg/L	<100	----	----	----	----	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	<100	----	----	----	----	
<b>EP080: BTEXN</b>									
Benzene	71-43-2	1	µg/L	<1	----	----	----	----	
Toluene	108-88-3	2	µg/L	<2	----	----	----	----	
Ethylbenzene	100-41-4	2	µg/L	<2	----	----	----	----	
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	----	----	----	----	
ortho-Xylene	95-47-6	2	µg/L	<2	----	----	----	----	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	W9003	SW1	----	----	----
Client sampling date / time				[23-Nov-2015]	[23-Nov-2015]	----	----	----	
Compound	CAS Number	LOR	Unit	ES1537259-011	ES1537259-012	-----	-----	-----	
				Result	Result	Result	Result	Result	
<b>EP080: BTEXN - Continued</b>									
^ Total Xylenes	1330-20-7	2	µg/L	<2	----	----	----	----	----
^ Sum of BTEX	----	1	µg/L	<1	----	----	----	----	----
Naphthalene	91-20-3	5	µg/L	<5	----	----	----	----	----
<b>EP066S: PCB Surrogate</b>									
Decachlorobiphenyl	2051-24-3	1	%	70.0	----	----	----	----	----
<b>EP068S: Organochlorine Pesticide Surrogate</b>									
Dibromo-DDE	21655-73-2	0.5	%	67.8	----	----	----	----	----
<b>EP068T: Organophosphorus Pesticide Surrogate</b>									
DEF	78-48-8	0.5	%	66.1	----	----	----	----	----
<b>EP075(SIM)S: Phenolic Compound Surrogates</b>									
Phenol-d6	13127-88-3	1	%	21.6	----	----	----	----	----
2-Chlorophenol-D4	93951-73-6	1	%	46.5	----	----	----	----	----
2,4,6-Tribromophenol	118-79-6	1	%	42.1	----	----	----	----	----
<b>EP075(SIM)T: PAH Surrogates</b>									
2-Fluorobiphenyl	321-60-8	1	%	67.2	----	----	----	----	----
Anthracene-d10	1719-06-8	1	%	85.5	----	----	----	----	----
4-Terphenyl-d14	1718-51-0	1	%	68.3	----	----	----	----	----
<b>EP080S: TPH(V)/BTEX Surrogates</b>									
1,2-Dichloroethane-D4	17060-07-0	2	%	103	----	----	----	----	----
Toluene-D8	2037-26-5	2	%	106	----	----	----	----	----
4-Bromofluorobenzene	460-00-4	2	%	92.8	----	----	----	----	----