

## CERTIFICATE OF ANALYSIS

<b>Work Order</b>	: <b>EW1600497</b>	<b>Page</b>	: 1 of 18
<b>Client</b>	: <b>WOLLONGONG CITY COUNCIL</b>	<b>Laboratory</b>	: Environmental Division NSW South Coast
<b>Contact</b>	: MR WAYDE PETERSON	<b>Contact</b>	: Glenn Davies
<b>Address</b>	: 41 BURELLI STREET WOLLONGONG NSW, AUSTRALIA 2500	<b>Address</b>	: 1/19 Ralph Black Dr, North Wollongong 2500 4/13 Geary Pl, North Nowra 2541 Australia
<b>E-mail</b>	: wpeterson@wollongong.nsw.gov.au	<b>E-mail</b>	: glenn.davies@alsglobal.com
<b>Telephone</b>	: +61 02 4227 7111	<b>Telephone</b>	: 02 42253125
<b>Facsimile</b>	: +61 02 4227 7277	<b>Facsimile</b>	: W 02 42253128 N 02 44232083
<b>Project</b>	: Whytes Gully Stage 3 Bores Annual	<b>QC Level</b>	: NEPM 2013 B3 & ALS QC Standard
<b>Order number</b>	: 3044522	<b>Date Samples Received</b>	: 05-Feb-2016 14:10
<b>C-O-C number</b>	: ----	<b>Date Analysis Commenced</b>	: 05-Feb-2016
<b>Sampler</b>	: Craig Wilson	<b>Issue Date</b>	: 17-Feb-2016 16:35
<b>Site</b>	: ----		
<b>Quote number</b>	: ----	<b>No. of samples received</b>	: 17
		<b>No. of samples analysed</b>	: 17

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>
Celine Conceicao	Senior Spectroscopist	Sydney Inorganics, Smithfield, NSW
Dian Dao		Sydney Inorganics, Smithfield, NSW
Kristy Boje	Laboratory Supervisor	Laboratory - Wollongong
Pabi Subba	Senior Organic Chemist	Sydney Organics, Smithfield, NSW
Shobhna Chandra	Metals Coordinator	Sydney Inorganics, Smithfield, NSW



## 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.

- EG050G: LOR raised for Hexavalent Chromium analysis on sample no:2, due to matrix interferences.
- 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	GMW102 (Point 9)	GMW103 (Point 10)	GMW104 (Point 11)	GMW105 (Point 12)	GMW106 (Point 13)
Client sampling date / time				05-Feb-2016 11:30	05-Feb-2016 11:40	05-Feb-2016 11:15	05-Feb-2016 11:50	05-Feb-2016 11:45	
Compound	CAS Number	LOR	Unit	EW1600497-001	EW1600497-002	EW1600497-003	EW1600497-004	EW1600497-005	
				Result	Result	Result	Result	Result	
<b>EG020T: Total Metals by ICP-MS</b>									
Aluminium	7429-90-5	0.01	mg/L	3.77	4.61	5.22	36.7	----	
Arsenic	7440-38-2	0.001	mg/L	<0.001	0.001	<0.001	0.002	----	
Barium	7440-39-3	0.001	mg/L	0.028	0.042	0.025	0.127	----	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.0001	<0.0001	<0.0001	----	
Cobalt	7440-48-4	0.001	mg/L	<0.001	0.006	0.004	0.014	----	
Chromium	7440-47-3	0.001	mg/L	<0.001	0.006	0.004	0.023	----	
Copper	7440-50-8	0.001	mg/L	0.010	0.080	0.018	0.059	----	
Manganese	7439-96-5	0.001	mg/L	0.028	0.336	0.413	0.676	----	
Lead	7439-92-1	0.001	mg/L	0.002	0.009	0.005	0.020	----	
Zinc	7440-66-6	0.005	mg/L	0.017	0.081	0.025	0.077	----	
<b>EG035T: Total Recoverable Mercury by FIMS</b>									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	----	
<b>EG050T: Total Hexavalent Chromium</b>									
Hexavalent Chromium	18540-29-9	0.01	mg/L	<0.01	<0.05	<0.01	<0.01	----	
<b>EK040P: Fluoride by PC Titrator</b>									
Fluoride	16984-48-8	0.1	mg/L	0.2	0.4	0.7	0.3	----	
<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	----	
<b>EK058G: Nitrate as N by Discrete Analyser</b>									
Nitrate as N	14797-55-8	0.01	mg/L	0.26	0.13	0.02	0.84	----	
<b>EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser</b>									
Nitrite + Nitrate as N	----	0.01	mg/L	0.26	0.13	0.02	0.84	----	
<b>EN67 PK: Field Tests</b>									
Field Observations	----	0.01	--	----	----	----	----	DRY	
<b>EP035G: Total Phenol by Discrete Analyser</b>									
Phenols (Total)	----	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	----	
<b>EP068A: Organochlorine Pesticides (OC)</b>									
alpha-BHC	319-84-6	0.5	µg/L	<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	----	
beta-BHC	319-85-7	0.5	µg/L	<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	----	
delta-BHC	319-86-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----	
Heptachlor	76-44-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----	



## Analytical Results

Sub-Matrix: WATER  
 (Matrix: WATER)

Client sample ID

				GMW102 (Point 9)	GMW103 (Point 10)	GMW104 (Point 11)	GMW105 (Point 12)	GMW106 (Point 13)
Client sampling date / time				05-Feb-2016 11:30	05-Feb-2016 11:40	05-Feb-2016 11:15	05-Feb-2016 11:50	05-Feb-2016 11:45
Compound	CAS Number	LOR	Unit	EW1600497-001	EW1600497-002	EW1600497-003	EW1600497-004	EW1600497-005
				Result	Result	Result	Result	Result
<b>EP068A: Organochlorine Pesticides (OC) - Continued</b>								
Aldrin	309-00-2	0.5	µg/L	<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	----
trans-Chlordane	5103-74-2	0.5	µg/L	<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	----
cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
Dieldrin	60-57-1	0.5	µg/L	<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	----
Endrin	72-20-8	0.5	µg/L	<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	----
4,4'-DDD	72-54-8	0.5	µg/L	<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	----
Endosulfan sulfate	1031-07-8	0.5	µg/L	<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	----
Endrin ketone	53494-70-5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
Methoxychlor	72-43-5	2	µg/L	<2.0	<2.0	<2.0	<2.0	----
^ Total Chlordane (sum)	----	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.5	µg/L	<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	----
<b>EP068B: Organophosphorus Pesticides (OP)</b>								
Dichlorvos	62-73-7	0.5	µg/L	<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	----
Monocrotophos	6923-22-4	2	µg/L	<2.0	<2.0	<2.0	<2.0	----
Dimethoate	60-51-5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
Diazinon	333-41-5	0.5	µg/L	<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	----
Parathion-methyl	298-00-0	2	µg/L	<2.0	<2.0	<2.0	<2.0	----
Malathion	121-75-5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
Fenthion	55-38-9	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
Chlorpyrifos	2921-88-2	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
Parathion	56-38-2	2	µg/L	<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	----
Chlorfenvinphos	470-90-6	0.5	µg/L	<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	----





## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GMW102 (Point 9)	GMW103 (Point 10)	GMW104 (Point 11)	GMW105 (Point 12)	GMW106 (Point 13)
Client sampling date / time				05-Feb-2016 11:30	05-Feb-2016 11:40	05-Feb-2016 11:15	05-Feb-2016 11:50	05-Feb-2016 11:45	
Compound	CAS Number	LOR	Unit	EW1600497-001	EW1600497-002	EW1600497-003	EW1600497-004	EW1600497-005	
				Result	Result	Result	Result	Result	
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued</b>									
>C10 - C16 Fraction	----	100	µg/L	<100	<100	<100	<100	----	
>C16 - C34 Fraction	----	100	µg/L	<100	<100	<100	<100	----	
>C34 - C40 Fraction	----	100	µg/L	<100	<100	<100	<100	----	
^ >C10 - C40 Fraction (sum)	----	100	µg/L	<100	<100	<100	<100	----	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	<100	<100	<100	<100	----	
<b>EP080: BTEXN</b>									
Benzene	71-43-2	1	µg/L	<1	<1	<1	<1	----	
Toluene	108-88-3	2	µg/L	<2	<2	<2	<2	----	
Ethylbenzene	100-41-4	2	µg/L	<2	<2	<2	<2	----	
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	<2	<2	----	
ortho-Xylene	95-47-6	2	µg/L	<2	<2	<2	<2	----	
^ Total Xylenes	1330-20-7	2	µg/L	<2	<2	<2	<2	----	
^ Sum of BTEX	----	1	µg/L	<1	<1	<1	<1	----	
Naphthalene	91-20-3	5	µg/L	<5	<5	<5	<5	----	
<b>EP068S: Organochlorine Pesticide Surrogate</b>									
Dibromo-DDE	21655-73-2	0.5	%	88.0	92.6	61.7	88.1	----	
<b>EP068T: Organophosphorus Pesticide Surrogate</b>									
DEF	78-48-8	0.5	%	97.6	110	80.5	110	----	
<b>EP075(SIM)S: Phenolic Compound Surrogates</b>									
Phenol-d6	13127-88-3	1	%	26.9	32.4	23.3	30.4	----	
2-Chlorophenol-D4	93951-73-6	1	%	55.2	62.1	46.9	60.3	----	
2,4,6-Tribromophenol	118-79-6	1	%	63.0	69.1	45.1	64.2	----	
<b>EP075(SIM)T: PAH Surrogates</b>									
2-Fluorobiphenyl	321-60-8	1	%	79.2	89.8	68.0	82.8	----	
Anthracene-d10	1719-06-8	1	%	89.4	96.4	81.3	89.5	----	
4-Terphenyl-d14	1718-51-0	1	%	75.0	76.1	62.7	75.6	----	
<b>EP080S: TPH(V)/BTEX Surrogates</b>									
1,2-Dichloroethane-D4	17060-07-0	2	%	91.3	85.9	90.1	109	----	
Toluene-D8	2037-26-5	2	%	113	104	106	123	----	
4-Bromofluorobenzene	460-00-4	2	%	118	110	112	124	----	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GMW108S (Point 14)	GMW108D (Point 15)	GMW109S (Point 16)	GMW109D (Point 19)	GMW110 (Point 17)
Client sampling date / time				05-Feb-2016 12:15	05-Feb-2016 12:20	05-Feb-2016 12:35	05-Feb-2016 12:38	05-Feb-2016 12:45	
Compound	CAS Number	LOR	Unit	EW1600497-006	EW1600497-007	EW1600497-008	EW1600497-009	EW1600497-010	
				Result	Result	Result	Result	Result	
<b>EG020T: Total Metals by ICP-MS</b>									
Aluminium	7429-90-5	0.01	mg/L	8.20	0.25	10.3	0.04	13.7	
Arsenic	7440-38-2	0.001	mg/L	0.002	<0.001	0.006	<0.001	0.002	
Barium	7440-39-3	0.001	mg/L	0.113	0.015	0.311	0.134	0.041	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0006	<0.0001	<0.0001	
Cobalt	7440-48-4	0.001	mg/L	0.007	<0.001	0.048	<0.001	0.013	
Chromium	7440-47-3	0.001	mg/L	0.007	<0.001	0.012	<0.001	0.013	
Copper	7440-50-8	0.001	mg/L	0.025	0.018	0.045	0.004	0.024	
Manganese	7439-96-5	0.001	mg/L	0.624	0.011	3.22	0.030	0.524	
Lead	7439-92-1	0.001	mg/L	0.007	<0.001	0.021	<0.001	0.011	
Zinc	7440-66-6	0.005	mg/L	0.034	0.015	0.178	0.006	0.047	
<b>EG035T: Total Recoverable Mercury by FIMS</b>									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
<b>EG050T: Total Hexavalent Chromium</b>									
Hexavalent Chromium	18540-29-9	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
<b>EK040P: Fluoride by PC Titrator</b>									
Fluoride	16984-48-8	0.1	mg/L	0.3	0.7	0.1	0.4	0.4	
<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	0.02	0.06	0.04	0.19	0.16	
<b>EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser</b>									
Nitrite + Nitrate as N	----	0.01	mg/L	0.02	0.06	0.04	0.19	0.16	
<b>EN67 PK: Field Tests</b>									
Field Observations	----	0.01	--	----	----	----	----	----	
<b>EP035G: Total Phenol by Discrete Analyser</b>									
Phenols (Total)	----	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	
<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	





## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GMW108S (Point 14)	GMW108D (Point 15)	GMW109S (Point 16)	GMW109D (Point 19)	GMW110 (Point 17)
Client sampling date / time				05-Feb-2016 12:15	05-Feb-2016 12:20	05-Feb-2016 12:35	05-Feb-2016 12:38	05-Feb-2016 12:45	
Compound	CAS Number	LOR	Unit	EW1600497-006	EW1600497-007	EW1600497-008	EW1600497-009	EW1600497-010	
				Result	Result	Result	Result	Result	
<b>EP068A: Organochlorine Pesticides (OC) - Continued</b>									
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	72-54-8/72-55-9/50-2	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	
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	





## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GMW108S (Point 14)	GMW108D (Point 15)	GMW109S (Point 16)	GMW109D (Point 19)	GMW110 (Point 17)
Client sampling date / time				05-Feb-2016 12:15	05-Feb-2016 12:20	05-Feb-2016 12:35	05-Feb-2016 12:38	05-Feb-2016 12:45	
Compound	CAS Number	LOR	Unit	EW1600497-006	EW1600497-007	EW1600497-008	EW1600497-009	EW1600497-010	
				Result	Result	Result	Result	Result	
<b>EP068B: Organophosphorus Pesticides (OP) - Continued</b>									
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)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	
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	100	
<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	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GMW108S (Point 14)	GMW108D (Point 15)	GMW109S (Point 16)	GMW109D (Point 19)	GMW110 (Point 17)
Client sampling date / time				05-Feb-2016 12:15	05-Feb-2016 12:20	05-Feb-2016 12:35	05-Feb-2016 12:38	05-Feb-2016 12:45	
Compound	CAS Number	LOR	Unit	EW1600497-006	EW1600497-007	EW1600497-008	EW1600497-009	EW1600497-010	
				Result	Result	Result	Result	Result	
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued</b>									
>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	
^ 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>EP068S: Organochlorine Pesticide Surrogate</b>									
Dibromo-DDE	21655-73-2	0.5	%	97.0	93.5	99.1	86.6	88.0	
<b>EP068T: Organophosphorus Pesticide Surrogate</b>									
DEF	78-48-8	0.5	%	123	112	104	103	106	
<b>EP075(SIM)S: Phenolic Compound Surrogates</b>									
Phenol-d6	13127-88-3	1	%	27.9	29.3	34.0	31.2	32.1	
2-Chlorophenol-D4	93951-73-6	1	%	55.0	57.9	65.6	59.2	61.1	
2,4,6-Tribromophenol	118-79-6	1	%	73.0	62.2	73.0	62.6	71.9	
<b>EP075(SIM)T: PAH Surrogates</b>									
2-Fluorobiphenyl	321-60-8	1	%	85.2	88.7	90.4	81.7	93.1	
Anthracene-d10	1719-06-8	1	%	98.1	93.7	91.1	90.5	91.4	
4-Terphenyl-d14	1718-51-0	1	%	82.6	76.0	74.4	73.7	70.2	
<b>EP080S: TPH(V)/BTEX Surrogates</b>									
1,2-Dichloroethane-D4	17060-07-0	2	%	95.8	95.0	91.8	86.8	111	
Toluene-D8	2037-26-5	2	%	116	114	108	104	115	
4-Bromofluorobenzene	460-00-4	2	%	123	117	116	110	107	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GMW111 (Point 18)	GABH01 (Point 2)	GABH02 (Point 5)	GABH03 (Point 6)	GABH06S (Point 7)
Client sampling date / time				05-Feb-2016 12:40	05-Feb-2016 10:30	05-Feb-2016 10:40	05-Feb-2016 11:05	05-Feb-2016 10:50	
Compound	CAS Number	LOR	Unit	EW1600497-011	EW1600497-012	EW1600497-013	EW1600497-014	EW1600497-015	
				Result	Result	Result	Result	Result	
<b>EG020T: Total Metals by ICP-MS</b>									
Aluminium	7429-90-5	0.01	mg/L	20.8	----	2.51	0.08	0.38	
Arsenic	7440-38-2	0.001	mg/L	0.006	----	<0.001	<0.001	<0.001	
Barium	7440-39-3	0.001	mg/L	0.103	----	0.010	0.014	0.090	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	----	<0.0001	0.0001	0.0002	
Cobalt	7440-48-4	0.001	mg/L	0.017	----	<0.001	0.003	0.002	
Chromium	7440-47-3	0.001	mg/L	0.010	----	0.002	<0.001	<0.001	
Copper	7440-50-8	0.001	mg/L	0.045	----	0.007	0.009	0.010	
Manganese	7439-96-5	0.001	mg/L	0.755	----	0.050	0.428	0.178	
Lead	7439-92-1	0.001	mg/L	0.023	----	0.002	<0.001	0.003	
Zinc	7440-66-6	0.005	mg/L	0.070	----	0.017	0.015	0.031	
<b>EG035T: Total Recoverable Mercury by FIMS</b>									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	----	<0.0001	<0.0001	<0.0001	
<b>EG050T: Total Hexavalent Chromium</b>									
Hexavalent Chromium	18540-29-9	0.01	mg/L	<0.01	----	<0.01	<0.01	<0.01	
<b>EK040P: Fluoride by PC Titrator</b>									
Fluoride	16984-48-8	0.1	mg/L	0.5	----	0.6	0.5	0.9	
<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	
<b>EK058G: Nitrate as N by Discrete Analyser</b>									
Nitrate as N	14797-55-8	0.01	mg/L	<0.01	----	<0.01	<0.01	0.01	
<b>EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser</b>									
Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	----	<0.01	<0.01	0.01	
<b>EN67 PK: Field Tests</b>									
Field Observations	----	0.01	--	----	DESTROYED	----	----	----	
<b>EP035G: Total Phenol by Discrete Analyser</b>									
Phenols (Total)	----	0.05	mg/L	<0.05	----	<0.05	<0.05	<0.05	
<b>EP068A: Organochlorine Pesticides (OC)</b>									
alpha-BHC	319-84-6	0.5	µg/L	<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	
beta-BHC	319-85-7	0.5	µg/L	<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	
delta-BHC	319-86-8	0.5	µg/L	<0.5	----	<0.5	<0.5	<0.5	
Heptachlor	76-44-8	0.5	µg/L	<0.5	----	<0.5	<0.5	<0.5	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GMW111 (Point 18)	GABH01 (Point 2)	GABH02 (Point 5)	GABH03 (Point 6)	GABH06S (Point 7)
Client sampling date / time				05-Feb-2016 12:40	05-Feb-2016 10:30	05-Feb-2016 10:40	05-Feb-2016 11:05	05-Feb-2016 10:50	
Compound	CAS Number	LOR	Unit	EW1600497-011	EW1600497-012	EW1600497-013	EW1600497-014	EW1600497-015	
				Result	Result	Result	Result	Result	
<b>EP068A: Organochlorine Pesticides (OC) - Continued</b>									
Aldrin	309-00-2	0.5	µg/L	<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	
trans-Chlordane	5103-74-2	0.5	µg/L	<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	
cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	----	<0.5	<0.5	<0.5	
Dieldrin	60-57-1	0.5	µg/L	<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	
Endrin	72-20-8	0.5	µg/L	<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	
4,4'-DDD	72-54-8	0.5	µg/L	<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	
Endosulfan sulfate	1031-07-8	0.5	µg/L	<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	
Endrin ketone	53494-70-5	0.5	µg/L	<0.5	----	<0.5	<0.5	<0.5	
Methoxychlor	72-43-5	2	µg/L	<2.0	----	<2.0	<2.0	<2.0	
^ Total Chlordane (sum)	----	0.5	µg/L	<0.5	----	<0.5	<0.5	<0.5	
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	µg/L	<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	
<b>EP068B: Organophosphorus Pesticides (OP)</b>									
Dichlorvos	62-73-7	0.5	µg/L	<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	
Monocrotophos	6923-22-4	2	µg/L	<2.0	----	<2.0	<2.0	<2.0	
Dimethoate	60-51-5	0.5	µg/L	<0.5	----	<0.5	<0.5	<0.5	
Diazinon	333-41-5	0.5	µg/L	<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	
Parathion-methyl	298-00-0	2	µg/L	<2.0	----	<2.0	<2.0	<2.0	
Malathion	121-75-5	0.5	µg/L	<0.5	----	<0.5	<0.5	<0.5	
Fenthion	55-38-9	0.5	µg/L	<0.5	----	<0.5	<0.5	<0.5	
Chlorpyrifos	2921-88-2	0.5	µg/L	<0.5	----	<0.5	<0.5	<0.5	
Parathion	56-38-2	2	µg/L	<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	
Chlorfenvinphos	470-90-6	0.5	µg/L	<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	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GMW111 (Point 18)	GABH01 (Point 2)	GABH02 (Point 5)	GABH03 (Point 6)	GABH06S (Point 7)
Client sampling date / time				05-Feb-2016 12:40	05-Feb-2016 10:30	05-Feb-2016 10:40	05-Feb-2016 11:05	05-Feb-2016 10:50	
Compound	CAS Number	LOR	Unit	EW1600497-011	EW1600497-012	EW1600497-013	EW1600497-014	EW1600497-015	
				Result	Result	Result	Result	Result	
<b>EP068B: Organophosphorus Pesticides (OP) - Continued</b>									
Fenamiphos	22224-92-6	0.5	µg/L	<0.5	----	<0.5	<0.5	<0.5	
Prothiofos	34643-46-4	0.5	µg/L	<0.5	----	<0.5	<0.5	<0.5	
Ethion	563-12-2	0.5	µg/L	<0.5	----	<0.5	<0.5	<0.5	
Carbophenothion	786-19-6	0.5	µg/L	<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	
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>									
Naphthalene	91-20-3	1	µg/L	<1.0	----	<1.0	<1.0	<1.0	
Acenaphthylene	208-96-8	1	µg/L	<1.0	----	<1.0	<1.0	<1.0	
Acenaphthene	83-32-9	1	µg/L	<1.0	----	<1.0	<1.0	<1.0	
Fluorene	86-73-7	1	µg/L	<1.0	----	<1.0	<1.0	<1.0	
Phenanthrene	85-01-8	1	µg/L	<1.0	----	<1.0	<1.0	<1.0	
Anthracene	120-12-7	1	µg/L	<1.0	----	<1.0	<1.0	<1.0	
Fluoranthene	206-44-0	1	µg/L	<1.0	----	<1.0	<1.0	<1.0	
Pyrene	129-00-0	1	µg/L	<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	
Chrysene	218-01-9	1	µg/L	<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	
Benzo(k)fluoranthene	207-08-9	1	µg/L	<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	
Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<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	
Benzo(g.h.i)perylene	191-24-2	1	µg/L	<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	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L	<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	
C10 - C14 Fraction	----	50	µg/L	<50	----	<50	<50	<50	
C15 - C28 Fraction	----	100	µg/L	100	----	<100	<100	<100	
C29 - C36 Fraction	----	50	µg/L	90	----	<50	<50	<50	
^ C10 - C36 Fraction (sum)	----	50	µg/L	190	----	<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	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	----	<20	<20	<20	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GMW111 (Point 18)	GABH01 (Point 2)	GABH02 (Point 5)	GABH03 (Point 6)	GABH06S (Point 7)
Client sampling date / time				05-Feb-2016 12:40	05-Feb-2016 10:30	05-Feb-2016 10:40	05-Feb-2016 11:05	05-Feb-2016 10:50	
Compound	CAS Number	LOR	Unit	EW1600497-011	EW1600497-012	EW1600497-013	EW1600497-014	EW1600497-015	
				Result	Result	Result	Result	Result	
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued</b>									
>C10 - C16 Fraction	----	100	µg/L	<100	----	<100	<100	<100	
>C16 - C34 Fraction	----	100	µg/L	160	----	<100	<100	<100	
>C34 - C40 Fraction	----	100	µg/L	<100	----	<100	<100	<100	
^ >C10 - C40 Fraction (sum)	----	100	µg/L	160	----	<100	<100	<100	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	<100	----	<100	<100	<100	
<b>EP080: BTEXN</b>									
Benzene	71-43-2	1	µg/L	<1	----	<1	<1	<1	
Toluene	108-88-3	2	µg/L	<2	----	<2	<2	<2	
Ethylbenzene	100-41-4	2	µg/L	<2	----	<2	<2	<2	
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	----	<2	<2	<2	
ortho-Xylene	95-47-6	2	µg/L	<2	----	<2	<2	<2	
^ Total Xylenes	1330-20-7	2	µg/L	<2	----	<2	<2	<2	
^ Sum of BTEX	----	1	µg/L	<1	----	<1	<1	<1	
Naphthalene	91-20-3	5	µg/L	<5	----	<5	<5	<5	
<b>EP068S: Organochlorine Pesticide Surrogate</b>									
Dibromo-DDE	21655-73-2	0.5	%	107	----	93.2	93.1	84.1	
<b>EP068T: Organophosphorus Pesticide Surrogate</b>									
DEF	78-48-8	0.5	%	113	----	110	112	114	
<b>EP075(SIM)S: Phenolic Compound Surrogates</b>									
Phenol-d6	13127-88-3	1	%	36.3	----	32.1	34.9	35.3	
2-Chlorophenol-D4	93951-73-6	1	%	64.2	----	58.9	67.4	60.8	
2,4,6-Tribromophenol	118-79-6	1	%	75.8	----	66.5	73.1	60.1	
<b>EP075(SIM)T: PAH Surrogates</b>									
2-Fluorobiphenyl	321-60-8	1	%	83.6	----	75.9	83.9	84.1	
Anthracene-d10	1719-06-8	1	%	103	----	89.5	96.8	84.7	
4-Terphenyl-d14	1718-51-0	1	%	72.4	----	63.7	72.8	65.7	
<b>EP080S: TPH(V)/BTEX Surrogates</b>									
1,2-Dichloroethane-D4	17060-07-0	2	%	94.4	----	93.1	98.7	96.1	
Toluene-D8	2037-26-5	2	%	111	----	112	119	115	
4-Bromofluorobenzene	460-00-4	2	%	116	----	117	122	117	





## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID		GABH06D (Point 8)	BH6 (Point 20)	----	----	----
Client sampling date / time				05-Feb-2016 10:45	05-Feb-2016 12:25	----	----	----	----	----
Compound	CAS Number	LOR	Unit	EW1600497-016	EW1600497-017	-----	-----	-----	-----	-----
				Result	Result	Result	Result	Result	Result	Result
<b>EG020T: Total Metals by ICP-MS</b>										
Aluminium	7429-90-5	0.01	mg/L	0.06	0.58	----	----	----	----	----
Arsenic	7440-38-2	0.001	mg/L	<0.001	0.002	----	----	----	----	----
Barium	7440-39-3	0.001	mg/L	0.005	0.056	----	----	----	----	----
Cadmium	7440-43-9	0.0001	mg/L	0.0004	<0.0001	----	----	----	----	----
Cobalt	7440-48-4	0.001	mg/L	<0.001	0.012	----	----	----	----	----
Chromium	7440-47-3	0.001	mg/L	<0.001	0.001	----	----	----	----	----
Copper	7440-50-8	0.001	mg/L	0.004	0.014	----	----	----	----	----
Manganese	7439-96-5	0.001	mg/L	0.005	1.70	----	----	----	----	----
Lead	7439-92-1	0.001	mg/L	<0.001	0.004	----	----	----	----	----
Zinc	7440-66-6	0.005	mg/L	0.013	0.024	----	----	----	----	----
<b>EG035T: Total Recoverable Mercury by FIMS</b>										
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	----	----	----	----	----
<b>EG050T: Total Hexavalent Chromium</b>										
Hexavalent Chromium	18540-29-9	0.01	mg/L	<0.01	<0.01	----	----	----	----	----
<b>EK040P: Fluoride by PC Titrator</b>										
Fluoride	16984-48-8	0.1	mg/L	0.5	0.8	----	----	----	----	----
<b>EK057G: Nitrite as N by Discrete Analyser</b>										
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	----	----	----	----	----
<b>EK058G: Nitrate as N by Discrete Analyser</b>										
Nitrate as N	14797-55-8	0.01	mg/L	<0.01	0.07	----	----	----	----	----
<b>EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser</b>										
Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.07	----	----	----	----	----
<b>EN67 PK: Field Tests</b>										
Field Observations	----	0.01	--	----	----	----	----	----	----	----
<b>EP035G: Total Phenol by Discrete Analyser</b>										
Phenols (Total)	----	0.05	mg/L	<0.05	<0.05	----	----	----	----	----
<b>EP068A: Organochlorine Pesticides (OC)</b>										
alpha-BHC	319-84-6	0.5	µg/L	<0.5	<0.5	----	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	<0.5	<0.5	----	----	----	----	----
beta-BHC	319-85-7	0.5	µg/L	<0.5	<0.5	----	----	----	----	----
gamma-BHC	58-89-9	0.5	µg/L	<0.5	<0.5	----	----	----	----	----
delta-BHC	319-86-8	0.5	µg/L	<0.5	<0.5	----	----	----	----	----
Heptachlor	76-44-8	0.5	µg/L	<0.5	<0.5	----	----	----	----	----





## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GABH06D (Point 8)	BH6 (Point 20)	----	----	----
Client sampling date / time				05-Feb-2016 10:45	05-Feb-2016 12:25	----	----	----	
Compound	CAS Number	LOR	Unit	EW1600497-016	EW1600497-017	-----	-----	-----	
				Result	Result	Result	Result	Result	
<b>EP068A: Organochlorine Pesticides (OC) - Continued</b>									
Aldrin	309-00-2	0.5	µg/L	<0.5	<0.5	----	----	----	
Heptachlor epoxide	1024-57-3	0.5	µg/L	<0.5	<0.5	----	----	----	
trans-Chlordane	5103-74-2	0.5	µg/L	<0.5	<0.5	----	----	----	
alpha-Endosulfan	959-98-8	0.5	µg/L	<0.5	<0.5	----	----	----	
cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	<0.5	----	----	----	
Dieldrin	60-57-1	0.5	µg/L	<0.5	<0.5	----	----	----	
4,4'-DDE	72-55-9	0.5	µg/L	<0.5	<0.5	----	----	----	
Endrin	72-20-8	0.5	µg/L	<0.5	<0.5	----	----	----	
beta-Endosulfan	33213-65-9	0.5	µg/L	<0.5	<0.5	----	----	----	
4,4'-DDD	72-54-8	0.5	µg/L	<0.5	<0.5	----	----	----	
Endrin aldehyde	7421-93-4	0.5	µg/L	<0.5	<0.5	----	----	----	
Endosulfan sulfate	1031-07-8	0.5	µg/L	<0.5	<0.5	----	----	----	
4,4'-DDT	50-29-3	2	µg/L	<2.0	<2.0	----	----	----	
Endrin ketone	53494-70-5	0.5	µg/L	<0.5	<0.5	----	----	----	
Methoxychlor	72-43-5	2	µg/L	<2.0	<2.0	----	----	----	
^ Total Chlordane (sum)	----	0.5	µg/L	<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	----	----	----	
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	µg/L	<0.5	<0.5	----	----	----	
<b>EP068B: Organophosphorus Pesticides (OP)</b>									
Dichlorvos	62-73-7	0.5	µg/L	<0.5	<0.5	----	----	----	
Demeton-S-methyl	919-86-8	0.5	µg/L	<0.5	<0.5	----	----	----	
Monocrotophos	6923-22-4	2	µg/L	<2.0	<2.0	----	----	----	
Dimethoate	60-51-5	0.5	µg/L	<0.5	<0.5	----	----	----	
Diazinon	333-41-5	0.5	µg/L	<0.5	<0.5	----	----	----	
Chlorpyrifos-methyl	5598-13-0	0.5	µg/L	<0.5	<0.5	----	----	----	
Parathion-methyl	298-00-0	2	µg/L	<2.0	<2.0	----	----	----	
Malathion	121-75-5	0.5	µg/L	<0.5	<0.5	----	----	----	
Fenthion	55-38-9	0.5	µg/L	<0.5	<0.5	----	----	----	
Chlorpyrifos	2921-88-2	0.5	µg/L	<0.5	<0.5	----	----	----	
Parathion	56-38-2	2	µg/L	<2.0	<2.0	----	----	----	
Pirimphos-ethyl	23505-41-1	0.5	µg/L	<0.5	<0.5	----	----	----	
Chlorfenvinphos	470-90-6	0.5	µg/L	<0.5	<0.5	----	----	----	
Bromophos-ethyl	4824-78-6	0.5	µg/L	<0.5	<0.5	----	----	----	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GABH06D (Point 8)	BH6 (Point 20)	----	----	----
Client sampling date / time				05-Feb-2016 10:45	05-Feb-2016 12:25	----	----	----	
Compound	CAS Number	LOR	Unit	EW1600497-016	EW1600497-017	-----	-----	-----	
				Result	Result	Result	Result	Result	
<b>EP068B: Organophosphorus Pesticides (OP) - Continued</b>									
Fenamiphos	22224-92-6	0.5	µg/L	<0.5	<0.5	----	----	----	
Prothiofos	34643-46-4	0.5	µg/L	<0.5	<0.5	----	----	----	
Ethion	563-12-2	0.5	µg/L	<0.5	<0.5	----	----	----	
Carbophenothion	786-19-6	0.5	µg/L	<0.5	<0.5	----	----	----	
Azinphos Methyl	86-50-0	0.5	µg/L	<0.5	<0.5	----	----	----	
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>									
Naphthalene	91-20-3	1	µg/L	<1.0	<1.0	----	----	----	
Acenaphthylene	208-96-8	1	µg/L	<1.0	<1.0	----	----	----	
Acenaphthene	83-32-9	1	µg/L	<1.0	<1.0	----	----	----	
Fluorene	86-73-7	1	µg/L	<1.0	<1.0	----	----	----	
Phenanthrene	85-01-8	1	µg/L	<1.0	<1.0	----	----	----	
Anthracene	120-12-7	1	µg/L	<1.0	<1.0	----	----	----	
Fluoranthene	206-44-0	1	µg/L	<1.0	<1.0	----	----	----	
Pyrene	129-00-0	1	µg/L	<1.0	<1.0	----	----	----	
Benz(a)anthracene	56-55-3	1	µg/L	<1.0	<1.0	----	----	----	
Chrysene	218-01-9	1	µg/L	<1.0	<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	<1.0	----	----	----	
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	----	----	----	
Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	<1.0	----	----	----	
Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	<1.0	----	----	----	
Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	<1.0	----	----	----	
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	<0.5	----	----	----	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L	<0.5	<0.5	----	----	----	
<b>EP080/071: Total Petroleum Hydrocarbons</b>									
C6 - C9 Fraction	----	20	µg/L	<20	<20	----	----	----	
C10 - C14 Fraction	----	50	µg/L	<50	<50	----	----	----	
C15 - C28 Fraction	----	100	µg/L	<100	<100	----	----	----	
C29 - C36 Fraction	----	50	µg/L	<50	<50	----	----	----	
^ C10 - C36 Fraction (sum)	----	50	µg/L	<50	<50	----	----	----	
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>									
C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	----	----	----	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	<20	----	----	----	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GABH06D (Point 8)	BH6 (Point 20)	----	----	----
Client sampling date / time				05-Feb-2016 10:45	05-Feb-2016 12:25	----	----	----	
Compound	CAS Number	LOR	Unit	EW1600497-016	EW1600497-017	-----	-----	-----	
				Result	Result	Result	Result	Result	
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued</b>									
>C10 - C16 Fraction	----	100	µg/L	<100	<100	----	----	----	
>C16 - C34 Fraction	----	100	µg/L	<100	<100	----	----	----	
>C34 - C40 Fraction	----	100	µg/L	<100	<100	----	----	----	
^ >C10 - C40 Fraction (sum)	----	100	µg/L	<100	<100	----	----	----	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	<100	<100	----	----	----	
<b>EP080: BTEXN</b>									
Benzene	71-43-2	1	µg/L	<1	<1	----	----	----	
Toluene	108-88-3	2	µg/L	<2	<2	----	----	----	
Ethylbenzene	100-41-4	2	µg/L	<2	<2	----	----	----	
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	----	----	----	
ortho-Xylene	95-47-6	2	µg/L	<2	<2	----	----	----	
^ Total Xylenes	1330-20-7	2	µg/L	<2	<2	----	----	----	
^ Sum of BTEX	----	1	µg/L	<1	<1	----	----	----	
Naphthalene	91-20-3	5	µg/L	<5	<5	----	----	----	
<b>EP068S: Organochlorine Pesticide Surrogate</b>									
Dibromo-DDE	21655-73-2	0.5	%	101	94.8	----	----	----	
<b>EP068T: Organophosphorus Pesticide Surrogate</b>									
DEF	78-48-8	0.5	%	119	114	----	----	----	
<b>EP075(SIM)S: Phenolic Compound Surrogates</b>									
Phenol-d6	13127-88-3	1	%	36.5	32.8	----	----	----	
2-Chlorophenol-D4	93951-73-6	1	%	68.4	63.2	----	----	----	
2,4,6-Tribromophenol	118-79-6	1	%	72.0	69.2	----	----	----	
<b>EP075(SIM)T: PAH Surrogates</b>									
2-Fluorobiphenyl	321-60-8	1	%	96.5	83.4	----	----	----	
Anthracene-d10	1719-06-8	1	%	107	94.2	----	----	----	
4-Terphenyl-d14	1718-51-0	1	%	75.6	67.6	----	----	----	
<b>EP080S: TPH(V)/BTEX Surrogates</b>									
1,2-Dichloroethane-D4	17060-07-0	2	%	94.2	100	----	----	----	
Toluene-D8	2037-26-5	2	%	110	116	----	----	----	
4-Bromofluorobenzene	460-00-4	2	%	115	121	----	----	----	