

CERTIFICATE OF ANALYSIS

Work Order	: EP1501417	Page	: 1 of 12
Client	: ABM RESOURCES NL	Laboratory	: Environmental Division Perth
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Project	: TWIN BONANZA GROUNDWATER	QC Level	: NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Order number	: A10555	Date Samples Received	: 04-MAR-2015
C-O-C number	: ----	Issue Date	: 11-MAR-2015
Sampler	: J.R./N.H./K.D.	No. of samples received	: 11
Site	: ----	No. of samples analysed	: 11
Quote number	: EP/127/15		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits



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.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

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

- **EG020: Metals LOR for particular sample(s) raised due to high TDS content**
- **EK061G (Total Kjeldahl Nitrogen)/EK067G (Total Phosphorus): LOR raised due to possible sample matrix interference.**
- **EP026: LOR for samples "M10a" and "M06" raised for COD due to sample matrix.**
- **EP080: Positive C6-C9 and C6-C10 result is reported for sample "MO9" due to the presence of volatile organic compounds other than BTEX. Confirmed with re-analysis.**
- **It is recognised that total phosphorus is less than reactive phosphorus for sample 'M07'. However, the difference is within experimental variation of the methods.**



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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.

Signatories	Position	Accreditation Category
Ashesh Patel	Inorganic Chemist	Sydney Inorganics
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Scott James	Laboratory Manager	Perth Inorganics



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)

Client sample ID

Client sampling date / time

				M09	M10a	Strezza's/Timmy's Bore	BF03a	M05
				02-MAR-2015 17:30	01-MAR-2015 15:45	28-FEB-2015 14:47	28-FEB-2015 17:00	02-MAR-2015 10:20
Compound	CAS Number	LOR	Unit	EP1501417-001	EP1501417-002	EP1501417-003	EP1501417-004	EP1501417-005
EA005P: pH by PC Titrator								
pH Value	----	0.01	pH Unit	6.52	7.56	7.84	7.82	7.26
EA010P: Conductivity by PC Titrator								
Electrical Conductivity @ 25°C	----	1	µS/cm	12100	14400	883	589	14400
EA015: Total Dissolved Solids								
Total Dissolved Solids @180°C	----	10	mg/L	8650	9740	564	394	9490
ED037P: Alkalinity by PC Titrator								
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	401	395	234	232	275
Total Alkalinity as CaCO3	----	1	mg/L	401	395	234	232	275
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA								
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	1600	2260	87	24	2010
ED045G: Chloride Discrete analyser								
Chloride	16887-00-6	1	mg/L	3540	3950	84	39	4030
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	420	372	28	33	308
Magnesium	7439-95-4	1	mg/L	418	466	20	23	447
Sodium	7440-23-5	1	mg/L	1590	1980	110	38	1990
Potassium	7440-09-7	1	mg/L	83	193	39	32	130
EG020F: Dissolved Metals by ICP-MS								
Aluminium	7429-90-5	0.01	mg/L	0.02	<0.01	0.01	<0.01	<0.01
Antimony	7440-36-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	7440-38-2	0.001	mg/L	2.21	0.004	0.011	0.002	<0.001
Boron	7440-42-8	0.05	mg/L	0.82	1.02	0.30	0.19	1.31
Barium	7440-39-3	0.001	mg/L	0.068	0.049	0.102	0.308	0.033
Beryllium	7440-41-7	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	0.0004
Cobalt	7440-48-4	0.001	mg/L	0.013	0.004	<0.001	<0.001	0.002
Chromium	7440-47-3	0.001	mg/L	<0.001	0.003	<0.001	<0.001	<0.001
Copper	7440-50-8	0.001	mg/L	0.006	0.009	0.001	0.002	0.006
Manganese	7439-96-5	0.001	mg/L	28.0	0.071	0.018	<0.001	0.389
Nickel	7440-02-0	0.001	mg/L	0.044	0.023	<0.001	<0.001	0.003
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)

Client sample ID

Client sampling date / time

				M09	M10a	Strezza's/Timmy's Bore	BF03a	M05
				02-MAR-2015 17:30	01-MAR-2015 15:45	28-FEB-2015 14:47	28-FEB-2015 17:00	02-MAR-2015 10:20
Compound	CAS Number	LOR	Unit	EP1501417-001	EP1501417-002	EP1501417-003	EP1501417-004	EP1501417-005
EG020F: Dissolved Metals by ICP-MS - Continued								
Selenium	7782-49-2	0.01	mg/L	<0.01	0.02	<0.01	<0.01	<0.01
Vanadium	7440-62-2	0.01	mg/L	0.03	<0.01	<0.01	0.02	<0.01
Zinc	7440-66-6	0.005	mg/L	0.046	0.016	0.014	0.005	0.107
Uranium	7440-61-1	0.001	mg/L	<0.001	0.045	<0.001	0.001	0.025
EG035F: Dissolved Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser								
Weak Acid Dissociable Cyanide	----	0.004	mg/L	<0.004	<0.004	----	----	<0.004
EK040P: Fluoride by PC Titrator								
Fluoride	16984-48-8	0.1	mg/L	0.3	0.6	1.8	1.5	0.4
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	34.8	0.08	0.09	<0.01	<0.01
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N	----	0.01	mg/L	<0.01	0.06	<0.01	<0.01	<0.01
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.01	mg/L	0.03	5.68	0.12	2.74	4.43
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Nitrite + Nitrate as N	----	0.01	mg/L	0.03	5.74	0.12	2.74	4.43
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	56.2	0.9	0.9	<0.5	0.6
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
Total Nitrogen as N	----	0.1	mg/L	56.2	6.6	1.0	2.7	5.0
EK067G: Total Phosphorus as P by Discrete Analyser								
Total Phosphorus as P	----	0.01	mg/L	28.5	<0.05	6.37	0.08	<0.05
EK071G: Reactive Phosphorus as P by discrete analyser								
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	25.8	0.02	6.23	0.08	0.02
EN055: Ionic Balance								
Total Anions	----	0.01	meq/L	141	166	8.86	6.24	161
Total Cations	----	0.01	meq/L	127	148	8.83	6.01	142
Ionic Balance	----	0.01	%	5.43	5.86	0.19	1.83	6.27
EP002: Dissolved Organic Carbon (DOC)								
Dissolved Organic Carbon	----	1	mg/L	1870	9	8	4	3
EP005: Total Organic Carbon (TOC)								



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)

Client sample ID

Client sampling date / time

				M09	M10a	Strezza's/Timmy's Bore	BF03a	M05
				02-MAR-2015 17:30	01-MAR-2015 15:45	28-FEB-2015 14:47	28-FEB-2015 17:00	02-MAR-2015 10:20
Compound	CAS Number	LOR	Unit	EP1501417-001	EP1501417-002	EP1501417-003	EP1501417-004	EP1501417-005
EP005: Total Organic Carbon (TOC) - Continued								
Total Organic Carbon	----	1	mg/L	1940	----	11	5	3
EP026SP: Chemical Oxygen Demand (Spectrophotometric)								
Chemical Oxygen Demand	----	10	mg/L	7160	<50	14	<10	68
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	220	<20	----	----	<20
C10 - C14 Fraction	----	50	µg/L	176000	<50	----	----	<50
C15 - C28 Fraction	----	100	µg/L	137000	<100	----	----	<100
C29 - C36 Fraction	----	50	µg/L	22800	<50	----	----	<50
^ C10 - C36 Fraction (sum)	----	50	µg/L	336000	<50	----	----	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	510	<20	----	----	<20
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	510	<20	----	----	<20
>C10 - C16 Fraction	>C10_C16	100	µg/L	223000	<100	----	----	<100
>C16 - C34 Fraction	----	100	µg/L	108000	<100	----	----	<100
>C34 - C40 Fraction	----	100	µg/L	11300	<100	----	----	<100
^ >C10 - C40 Fraction (sum)	----	100	µg/L	342000	<100	----	----	<100
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	223000	<100	----	----	<100
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	----	----	<1
Toluene	108-88-3	2	µg/L	<2	<2	----	----	<2
Ethylbenzene	100-41-4	2	µg/L	<2	<2	----	----	<2
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	----	----	<2
ortho-Xylene	95-47-6	2	µg/L	<2	<2	----	----	<2
^ Total Xylenes	1330-20-7	2	µg/L	<2	<2	----	----	<2
^ Sum of BTEX	----	1	µg/L	<1	<1	----	----	<1
Naphthalene	91-20-3	5	µg/L	<5	<5	----	----	<5
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	118	127	----	----	112
Toluene-D8	2037-26-5	0.1	%	89.2	91.5	----	----	94.2
4-Bromofluorobenzene	460-00-4	0.1	%	99.5	86.9	----	----	84.1



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)

Client sample ID

Client sampling date / time

				M07	M06	BF04	Wilson's	BF01
				02-MAR-2015 14:00	03-MAR-2015 08:05	28-FEB-2015 18:45	01-MAR-2015 16:45	01-MAR-2015 09:55
Compound	CAS Number	LOR	Unit	EP1501417-006	EP1501417-007	EP1501417-008	EP1501417-009	EP1501417-010
EA005P: pH by PC Titrator								
pH Value	----	0.01	pH Unit	7.40	7.24	7.87	7.65	7.79
EA010P: Conductivity by PC Titrator								
Electrical Conductivity @ 25°C	----	1	µS/cm	6920	28600	786	11600	833
EA015: Total Dissolved Solids								
Total Dissolved Solids @180°C	----	10	mg/L	4980	20800	518	7510	550
ED037P: Alkalinity by PC Titrator								
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	290	268	285	573	257
Total Alkalinity as CaCO3	----	1	mg/L	290	268	285	573	257
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA								
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	1050	5270	27	1900	54
ED045G: Chloride Discrete analyser								
Chloride	16887-00-6	1	mg/L	1710	8820	61	2430	83
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	426	684	40	238	37
Magnesium	7439-95-4	1	mg/L	288	1100	28	324	28
Sodium	7440-23-5	1	mg/L	623	4310	70	1690	77
Potassium	7440-09-7	1	mg/L	68	222	32	171	40
EG020F: Dissolved Metals by ICP-MS								
Aluminium	7429-90-5	0.01	mg/L	<0.01	<0.02	<0.01	<0.01	<0.01
Antimony	7440-36-0	0.001	mg/L	<0.001	<0.002	<0.001	<0.001	<0.001
Arsenic	7440-38-2	0.001	mg/L	0.750	<0.002	0.002	0.003	0.002
Boron	7440-42-8	0.05	mg/L	0.68	0.23	0.30	1.16	0.23
Barium	7440-39-3	0.001	mg/L	0.029	0.038	0.330	0.021	0.252
Beryllium	7440-41-7	0.001	mg/L	<0.001	<0.002	<0.001	<0.001	<0.001
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.0003	<0.0001	<0.0001	<0.0001
Cobalt	7440-48-4	0.001	mg/L	0.007	0.005	<0.001	<0.001	<0.001
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.002	<0.001	0.012	<0.001
Copper	7440-50-8	0.001	mg/L	0.004	0.013	0.002	0.005	0.001
Manganese	7439-96-5	0.001	mg/L	0.087	1.39	<0.001	<0.001	0.002
Nickel	7440-02-0	0.001	mg/L	0.002	0.007	<0.001	<0.001	<0.001
Lead	7439-92-1	0.001	mg/L	<0.001	<0.002	<0.001	<0.001	<0.001



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)

Client sample ID

Client sampling date / time

				M07	M06	BF04	Wilson's	BF01
				02-MAR-2015 14:00	03-MAR-2015 08:05	28-FEB-2015 18:45	01-MAR-2015 16:45	01-MAR-2015 09:55
Compound	CAS Number	LOR	Unit	EP1501417-006	EP1501417-007	EP1501417-008	EP1501417-009	EP1501417-010
EG020F: Dissolved Metals by ICP-MS - Continued								
Selenium	7782-49-2	0.01	mg/L	0.02	<0.02	<0.01	0.03	<0.01
Vanadium	7440-62-2	0.01	mg/L	<0.01	<0.02	0.02	<0.01	0.02
Zinc	7440-66-6	0.005	mg/L	0.651	0.124	0.006	0.023	<0.005
Uranium	7440-61-1	0.001	mg/L	0.240	0.081	0.001	0.087	0.002
EG035F: Dissolved Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser								
Weak Acid Dissociable Cyanide	----	0.004	mg/L	<0.004	<0.004	----	<0.004	----
EK040P: Fluoride by PC Titrator								
Fluoride	16984-48-8	0.1	mg/L	0.8	0.4	2.4	0.9	1.2
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	0.03
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N	----	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.01	mg/L	26.5	0.06	7.07	6.06	4.95
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Nitrite + Nitrate as N	----	0.01	mg/L	26.5	0.06	7.07	6.06	4.95
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	3.5	<0.5	<0.5	0.9	0.6
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
^ Total Nitrogen as N	----	0.1	mg/L	30.0	<0.5	7.1	7.0	5.6
EK067G: Total Phosphorus as P by Discrete Analyser								
Total Phosphorus as P	----	0.01	mg/L	<0.25	<0.05	<0.05	<0.05	<0.05
EK071G: Reactive Phosphorus as P by discrete analyser								
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.26	0.01	0.05	0.03	0.02
EN055: Ionic Balance								
Total Anions	----	0.01	meq/L	75.9	364	7.98	120	8.60
Total Cations	----	0.01	meq/L	73.8	318	8.16	116	8.52
Ionic Balance	----	0.01	%	1.39	6.77	1.15	1.34	0.46
EP002: Dissolved Organic Carbon (DOC)								
Dissolved Organic Carbon	----	1	mg/L	3	4	3	4	2
EP005: Total Organic Carbon (TOC)								



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)

Client sample ID

Client sampling date / time

				M07	M06	BF04	Wilson's	BF01
				02-MAR-2015 14:00	03-MAR-2015 08:05	28-FEB-2015 18:45	01-MAR-2015 16:45	01-MAR-2015 09:55
Compound	CAS Number	LOR	Unit	EP1501417-006	EP1501417-007	EP1501417-008	EP1501417-009	EP1501417-010
EP005: Total Organic Carbon (TOC) - Continued								
Total Organic Carbon	----	1	mg/L	3	4	3	4	2
EP026SP: Chemical Oxygen Demand (Spectrophotometric)								
Chemical Oxygen Demand	----	10	mg/L	12	<100	<10	78	<10
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	<20	----	<20	----
C10 - C14 Fraction	----	50	µg/L	<50	<50	----	<50	----
C15 - C28 Fraction	----	100	µg/L	<100	<100	----	<100	----
C29 - C36 Fraction	----	50	µg/L	<50	<50	----	<50	----
^ C10 - C36 Fraction (sum)	----	50	µg/L	<50	<50	----	<50	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	----	<20	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	<20	----	<20	----
>C10 - C16 Fraction	>C10_C16	100	µg/L	<100	<100	----	<100	----
>C16 - C34 Fraction	----	100	µg/L	<100	<100	----	<100	----
>C34 - C40 Fraction	----	100	µg/L	<100	<100	----	<100	----
^ >C10 - C40 Fraction (sum)	----	100	µg/L	<100	<100	----	<100	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	<100	<100	----	<100	----
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	----	<1	----
Toluene	108-88-3	2	µg/L	<2	<2	----	<2	----
Ethylbenzene	100-41-4	2	µg/L	<2	<2	----	<2	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	----	<2	----
ortho-Xylene	95-47-6	2	µg/L	<2	<2	----	<2	----
^ Total Xylenes	1330-20-7	2	µg/L	<2	<2	----	<2	----
^ Sum of BTEX	----	1	µg/L	<1	<1	----	<1	----
Naphthalene	91-20-3	5	µg/L	<5	<5	----	<5	----
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	126	121	----	103	----
Toluene-D8	2037-26-5	0.1	%	89.9	93.2	----	96.3	----
4-Bromofluorobenzene	460-00-4	0.1	%	88.9	85.5	----	91.2	----



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)

Client sample ID

				BF02	---	---	---	---
				01-MAR-2015 08:30	---	---	---	---
Compound	CAS Number	LOR	Unit	EP1501417-011	---	---	---	---
EA005P: pH by PC Titrator								
pH Value	---	0.01	pH Unit	7.89	---	---	---	---
EA010P: Conductivity by PC Titrator								
Electrical Conductivity @ 25°C	---	1	µS/cm	1430	---	---	---	---
EA015: Total Dissolved Solids								
Total Dissolved Solids @180°C	---	10	mg/L	828	---	---	---	---
ED037P: Alkalinity by PC Titrator								
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	168	---	---	---	---
Total Alkalinity as CaCO3	---	1	mg/L	168	---	---	---	---
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA								
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	42	---	---	---	---
ED045G: Chloride Discrete analyser								
Chloride	16887-00-6	1	mg/L	328	---	---	---	---
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	26	---	---	---	---
Magnesium	7439-95-4	1	mg/L	23	---	---	---	---
Sodium	7440-23-5	1	mg/L	198	---	---	---	---
Potassium	7440-09-7	1	mg/L	40	---	---	---	---
EG020F: Dissolved Metals by ICP-MS								
Aluminium	7429-90-5	0.01	mg/L	<0.01	---	---	---	---
Antimony	7440-36-0	0.001	mg/L	<0.001	---	---	---	---
Arsenic	7440-38-2	0.001	mg/L	<0.001	---	---	---	---
Boron	7440-42-8	0.05	mg/L	0.45	---	---	---	---
Barium	7440-39-3	0.001	mg/L	0.154	---	---	---	---
Beryllium	7440-41-7	0.001	mg/L	<0.001	---	---	---	---
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	---	---	---	---
Cobalt	7440-48-4	0.001	mg/L	<0.001	---	---	---	---
Chromium	7440-47-3	0.001	mg/L	0.025	---	---	---	---
Copper	7440-50-8	0.001	mg/L	<0.001	---	---	---	---
Manganese	7439-96-5	0.001	mg/L	<0.001	---	---	---	---
Nickel	7440-02-0	0.001	mg/L	<0.001	---	---	---	---
Lead	7439-92-1	0.001	mg/L	<0.001	---	---	---	---



Analytical Results

Sub-Matrix: **WATER** (Matrix: **WATER**)

Client sample ID

BF02

Client sampling date / time

01-MAR-2015 08:30

Compound	CAS Number	LOR	Unit	EP1501417-011	---	---	---	---
EG020F: Dissolved Metals by ICP-MS - Continued								
Selenium	7782-49-2	0.01	mg/L	<0.01	---	---	---	---
Vanadium	7440-62-2	0.01	mg/L	<0.01	---	---	---	---
Zinc	7440-66-6	0.005	mg/L	0.007	---	---	---	---
Uranium	7440-61-1	0.001	mg/L	<0.001	---	---	---	---
EG035F: Dissolved Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	---	---	---	---
EK040P: Fluoride by PC Titrator								
Fluoride	16984-48-8	0.1	mg/L	1.1	---	---	---	---
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	0.01	---	---	---	---
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N	----	0.01	mg/L	<0.01	---	---	---	---
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.01	mg/L	10.3	---	---	---	---
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Nitrite + Nitrate as N	----	0.01	mg/L	10.3	---	---	---	---
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	1.3	---	---	---	---
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
^ Total Nitrogen as N	----	0.1	mg/L	11.6	---	---	---	---
EK067G: Total Phosphorus as P by Discrete Analyser								
Total Phosphorus as P	----	0.01	mg/L	0.06	---	---	---	---
EK071G: Reactive Phosphorus as P by discrete analyser								
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.06	---	---	---	---
EN055: Ionic Balance								
Total Anions	----	0.01	meq/L	13.5	---	---	---	---
Total Cations	----	0.01	meq/L	12.8	---	---	---	---
Ionic Balance	----	0.01	%	2.51	---	---	---	---
EP002: Dissolved Organic Carbon (DOC)								
Dissolved Organic Carbon	----	1	mg/L	2	---	---	---	---
EP005: Total Organic Carbon (TOC)								
Total Organic Carbon	----	1	mg/L	2	---	---	---	---
EP026SP: Chemical Oxygen Demand (Spectrophotometric)								



Analytical Results

Sub-Matrix: **WATER** (Matrix: **WATER**)

Client sample ID

				BF02	----	----	----	----
				01-MAR-2015 08:30	----	----	----	----
				EP1501417-011	----	----	----	----

Client sampling date / time

Compound	CAS Number	LOR	Unit					
EP026SP: Chemical Oxygen Demand (Spectrophotometric) - Continued								
Chemical Oxygen Demand	----	10	mg/L	<10	----	----	----	----



Surrogate Control Limits

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	60.5	141.2
Toluene-D8	2037-26-5	73.4	126
4-Bromofluorobenzene	460-00-4	59.6	125.3