

From: SPOMO1701@outlook.com
Sent: Tuesday, May 15, 2018 11:45 PM
To: Environmental Compliance ENV:EX; marty@chholdings.ca
Subject: SPO MO1701-Status Update May 15, 2018
Attachments: CHH SUBMITTAL-2018 Ground Water Quality DATA-CLOSURE PLAN.pdf; CHH SUBMITTAL-2018 Surface Water Quality DATA-CLOSURE PLAN.pdf; COA_CHH APR 2018.pdf; COA_CHH APR 2018.xlsx; Manifests_Leachate Removal CHH.pdf; May 15, 2018 CHH Progress Report.pdf

- ***Please find information regarding the Leachate reporting requirements for the May 15, 2018 reporting period as per SPILL PREVENTION ORDER : MO1701 Section 1d***

Total Leachate Collected= 2.19 m³

Total Leachate Stored= 21.65 m³

Total Leachate Transported= 52.27m³ (Leachate removed to a permitted facility. Manifests provided as an attachment.)

- ***Sampling was conducted on April 24, 2018 as per Section 6biii of File 311372 August 11, 2017 letter. Tabulated Laboratory Results and Certificates of Analysis are attached.***

Sampling Summary:

1. *SHA-SW1*
2. *SHA-SW2 (No Flow)*
3. *MW6*
4. *MW3*
5. *MW2*
6. *SHA-LE-1*
7. *SHA-LD-1 (Dry Conditions)*
8. *SB-1*
9. *SB-2*
10. *SB-3*

- ***Attached is the QP Progress Report for May 15, 2018 as per File 311372 August 11, 2017 letter.***

Thank you



FIELD REVIEW REPORT		DATE: May 15, 2018	ISLANDER PROJECT No.: 2087
REPORT No: 20	STAGE OF CONSTRUCTION: Landfill Closure	WEATHER: sunny	PAGE: 1 of 3
PROJECT: Cobble Hill Landfill 2017 Minor Construction Works			
TO: CHH	ATTENTION: Marty Block		
CC:			

The field review included the inspection of the following items included in the detailed summary of works section of the *Cobble Hill Landfill — 2017 Minor Construction Works, Detailed Construction Plan (Sperling Hansen Associates, September 13, 2017)*:

- > **PEA**
 - Liner appears to be in good condition, with no noticeable changes since the date of our last inspection
- > **Leachate and Leak Detention facility**
 - Total leachate collected: = 2.19 m3
 - Total leachate stored = 21.65 m3
 - Total leachate transported = 52.27 m3
- > **Soil Management Area (SMA)**
 - All works are in good condition and no noticeable changes since the date of our last inspection
- > **Contact Water Containment Pond**
 - All works are in good condition and no noticeable changes since the date of our last inspection
- > **cut-off ditch upland of PEA**
 - All works are in good condition, ditch still performing well.

ISLANDER ENGINEERING LTD.



Mike Achtem, P.Eng



FIELD REVIEW REPORT		DATE: May 15, 2018	ISLANDER PROJECT No.: 2087
REPORT No: 20	STAGE OF CONSTRUCTION: Landfill Closure	WEATHER: sunny	PAGE: 2 of 3



SMA - looking south



SMA – looking north



Contact water containment Pond



Leak and leachate detection works



ISLANDER
ENGINEERING

FIELD REVIEW REPORT		DATE: May 15 2018	ISLANDER PROJECT No.: 2087
REPORT No: 20	STAGE OF CONSTRUCTION: Landfill Closure	WEATHER: sunny	PAGE: 3 of 3



PEA – liner near NE corner



PEA– NW corner



Cut-off ditch upland of PEA



PEA north face



CERTIFICATE OF WASTE RECEIVED TREATMENT / DISPOSAL / RECYCLING

(To Accompany Transporter and Delivery to Facility)

Classification:	<input checked="" type="checkbox"/>	< 3%
	<input type="checkbox"/>	Leachate
	<input type="checkbox"/>	Other

Document No.	
Client Name	Allterra Construction Ltd
Client PO/Job No.	

GENERATOR :

Section 1 : Generator

Generator Name:	Allterra Construction Ltd	Site Location:	460 Stebbings Rd Shawnigan Lake
Generator Address:	2158 Millstream Rd, Victoria V9B 6H4	Site Address:	
Generator Phone #:		Site Phone #:	250-658-3772
Description of Waste:	Non-Regulated Wastewater		

Generator's Representative Name		Signature		Shipment Date	APR 23 18
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Section 2 : Transporter

DESCRIPTION	Estimated Quantity (kg/Litres)	Actual Quantity (kg/Litres)	Total Volume (Kg/Litres)
Leachate			10,000 L

Transporter Load Size:

BCG No.	N/A
Emergency No.	1-250-252-0586

Company Name:	Coast Environmental Ltd		
Address:	2673 Sooke Rd, Victoria		
Driver Name/ Title:	Coast Environmental Ltd		
Phone #:	250-380-1166		
Vehicle License #/Proxy:			

Acknowledgement of Materials:		Shipment Date	APR 23 18
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Section 3 : Destination (to be completed by Coast Environmental)

SPL - Wastewater Treatment Facility 995 Henry Eng Place, Victoria, BC V9B 6B2	Onsite Manger: Michael Beaumont Phone: (250) 883-2829 Office: (250) 391-7892
Receiver Comments: (location, type, special handling)	

SL# 83665 - 2,199 GAL

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accepted

Name of Authorized Agent		Signature		Receipt Date	April 23/18
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WASTE ACCEPTANCE FORM

SPL Wastewater Recovery 2007 Inc.
 996 Henry Eng Place Victoria, V8B 6B2, BC
 Tel: (250) 215-1304 Fax: (250) 381-7893
 G.S.T. #: 831842158RT0001

TICKET: 789885

DATE: Apr 23, 2018

PERMIT STICKER:

TIME IN: 16:30 TIME OUT: 15:45

LICENSE: BR2158

HAULER: Coast Environmental Ltd

VOLUME DISCHARGED: 2199.00

SOURCES:

ST #	STREET NAME	MUNICIPALITY	TYPE	APPROX GL	PRICE/PER	TOTAL
A 0	NONE	CVRD	Leachate	2199.00		

B

C

GST 5%

TOTAL

DRIVER DECLARATION

I CERTIFY THAT THE ABOVE DESCRIBED WASTES DO NOT CONTAIN ANY MATERIALS OR SUBSTANCES WHICH ARE NOT PERMITTED BY APPLICABLE LAW TO BE DISPOSED AT THIS FACILITY, THAT THEY DO NOT CONTAIN ANY HAZARDOUS MATERIALS, AND THAT ALL INFORMATION CONTAINED IN THIS FORM IS TRUE AND CORRECT

GVY
 DRIVER NAME

[Signature]
 DRIVER SIGNATURE

OPERATOR DECLARATION

I CERTIFY THAT THE ABOVE DESCRIBED TRUCK LOAD WAS DISCHARGED AT THE SPL SEPTAGE PROCESSING FACILITY I HAVE NO KNOWLEDGE OF THE CONTENT OF THE TRUCK LOAD OTHER THAN THE INFORMATION GIVEN ON THIS FORM BY THE HAULER. PAYMENT HAS BEEN MADE IN THE FOLLOWING MANNER:

PAYMENT RECEIVED

BILLED ON ACCOUNT

Scott
 OPERATOR NAME

[Signature]
 OPERATOR SIGNATURE



CERTIFICATE OF WASTE RECEIVED TREATMENT / DISPOSAL / RECYCLING

(To Accompany Transporter and Delivery to Facility)

Classification:

x	< 3%
	Leachate
	Other

Document No: _____
 Client Name: Allterra Construction Ltd
 Client PO/Job No: _____

GENERATOR :

Section 1 : Generator

Generator Name: Allterra Construction Ltd Site Location: 460 Stebbings Rd
Shawnigan Lake

Generator Address: 2158 Millsstream Rd, Victoria
V9B 6H4 Site Address: _____

Generator Phone #: _____ Site Phone #: 250-658-3772

Description of Waste: Non-Regulated Wastewater

Bob Schiro
 Generator's Representative Name CSH

[Signature]
 Signature

Apr 23 18
 Shipment Date

Section 2 : Transporter

	DESCRIPTION	Estimated Quantity (kg/Litres)	Actual Quantity (kg/Litres)	Total Volume (Kg/Litres)
Transporter Load Size:	Leachate			<u>27,000 L</u>
BCG No.:				
Emergency No.:				
				<u>RECEIVED</u>

BCG No. N/A
 Emergency No. 1-250-252-0586

Company Name: Coast Environmental Ltd
 Address: 2673 Sooke Rd, Victoria

Driver Name/ Title: Coast Environmental Ltd (Guy Lemarchand)
 Phone #: 250-380-1166
 Vehicle License #/Prov: BR 2158 # 90

Acknowledgement of Materials:
[Signature]
 Driver Signature

Apr 23 18
 Shipment Date

Section 3 : Destination (to be completed by Coast Environmental)

SPL - Wastewater Treatment Facility
 995 Henry Eng Place, Victoria, BC V9B 6B2

Onsite Manger: Michael Beaumont
 Phone: (250) 883-2829
 Office: (250) 391-7892

Receiver Comments: NIA
 (location, type, special handling)

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accepted

Bonnie Bull
 Name of Authorized Agent

[Signature]
 Signature

SPL # 83646
4/23/2018
 Receipt Date

WASTE ACCEPTANCE FORM

SPL Wastewater Recovery 2007 Inc.
 995 Henry Eng Place Victoria, V9B 8B2, BC
 Tel: (250) 915-1304 Fax: (250) 991-7893
 G.S.T. #: 831842158RT0001

TICKET: 783648

DATE: Apr 23, 2018

PERMIT STICKER:

TIME IN: 11:30 TIME OUT: 11:50

LICENSE: BR2102

HAULER: Coast Environmental Ltd

VOLUME DISCHARGED: 2640.00

SOURCES:

ST #	STREET NAME	MUNICIPALITY	TYPE	APPROX GL	PRICE/PER	TOTAL
A 0	NONE	CVRD	Leachate	2640.00		

B
C

GST 5%

TOTAL

DRIVER DECLARATION

I CERTIFY THAT THE ABOVE DESCRIBED WASTES DO NOT CONTAIN ANY MATERIALS OR SUBSTANCES WHICH ARE NOT PERMITTED BY APPLICABLE LAW TO BE DISPOSED AT THIS FACILITY, THAT THEY DO NOT CONTAIN ANY HAZARDOUS MATERIALS, AND THAT ALL INFORMATION CONTAINED IN THIS FORM IS TRUE AND CORRECT

Guy
 DRIVER NAME

[Signature]
 DRIVER SIGNATURE

OPERATOR DECLARATION

I CERTIFY THAT THE ABOVE DESCRIBED TRUCK LOAD WAS DISCHARGED AT THE SPL SEPTAGE PROCESSING FACILITY I HAVE NO KNOWLEDGE OF THE CONTENT OF THE TRUCK LOAD OTHER THAN THE INFORMATION GIVEN ON THIS FORM BY THE HAULER. PAYMENT HAS BEEN MADE IN THE FOLLOWING MANNER:

PAYMENT RECEIVED
[Signature]

BILLED ON ACCOUNT
[Signature]
 OPERATOR SIGNATURE



CERTIFICATE OF WASTE RECEIVED TREATMENT / DISPOSAL / RECYCLING

(To Accompany Transporter and Delivery to Facility)

Classification:

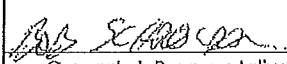
x	< 3%
	Leachate
	Other

Document No. _____
 Client Name: Allterra Construction Ltd
 Client PO/Job No. _____

GENERATOR:

Section 1 : Generator

Generator Name: Allterra Construction Ltd Site Location: 460 Stebbings Rd
Shawnigan Lake
 Generator Address: 2158 Millstream Rd, Victoria Site Address: _____
V9B 6H4
 Generator Phone #: _____ Site Phone #: 250-658-3772
 Description of Waste: Non-Regulated Wastewater

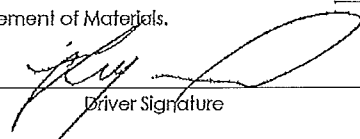
 _____
 Generator's Representative Name: CHH Signature: _____ Shipment Date: _____

Section 2 : Transporter

	DESCRIPTION	Estimated Quantity (kg/Litres)	ACTUAL Quantity (kg/Litres)	Total Volume (Kg/Litres)
Transporter Load Size:	Leachate			2,000L
BCG No. N/A				
Emergency No. 1-250-252-0586				
				2640 GAL

Company Name: Coast Environmental Ltd
 Address: 2673 Sooke Rd, Victoria

Driver Name/ Title: Coast Environmental Ltd
 Phone #: 250-380-1166

Vehicle License #/Prov.: _____
 Acknowledgement of Materials:
 _____
 Driver Signature: _____ Shipment Date: APR 23 18

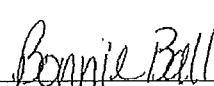
Section 3 : Destination (to be completed by Coast Environmental)

SPL - Wastewater Treatment Facility Onsite Manger: Michael Beaumont
 995 Henry Eng Place, Victoria, BC V9B 6B2 Phone: (250) 883-2829
 Office: (250) 391-7892

Receiver Comments: _____
 (location, type, special handling)

SPL# 83662

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accepted

 _____
 Name of Authorized Agent: Bonnie Bell Signature: _____ Receipt Date: 4/23/2018

WASTE ACCEPTANCE FORM

SPL Wastewater Recovery 2007 Inc.
 995 Henry Eng Place Victoria, V8B 8B2, BC
 Tel: (250) 816-1304 Fax: (250) 381-7883
 G.S.T. #: 831842158RT0001

TICKET: 783652

DATE: Apr 23, 2016

PERMIT STICKER:

TIME IN: 13:15 TIME OUT: 13:35

LICENSE: BR2158

HAULER: Coast Environmental Ltd

VOLUME DISCHARGED: 2640.00

SOURCES:

ST #	STREET NAME	MUNICIPALITY	TYPE	APPROX GL	PRICE/PER	TOTAL
A 0	NONE	CVRD	Leachate	2640.00		

B

C

GST 5%


TOTAL

DRIVER DECLARATION

I CERTIFY THAT THE ABOVE DESCRIBED WASTES DO NOT CONTAIN ANY MATERIALS OR SUBSTANCES WHICH ARE NOT PERMITTED BY APPLICABLE LAW TO BE DISPOSED AT THIS FACILITY, THAT THEY DO NOT CONTAIN ANY HAZARDOUS MATERIALS, AND THAT ALL INFORMATION CONTAINED IN THIS FORM IS TRUE AND CORRECT



 DRIVER NAME



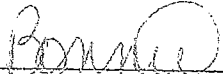
 DRIVER SIGNATURE

OPERATOR DECLARATION

I CERTIFY THAT THE ABOVE DESCRIBED TRUCK LOAD WAS DISCHARGED AT THE SPL SEPTAGE PROCESSING FACILITY I HAVE NO KNOWLEDGE OF THE CONTENT OF THE TRUCK LOAD OTHER THAN THE INFORMATION GIVEN ON THIS FORM BY THE HAULER. PAYMENT HAS BEEN MADE IN THE FOLLOWING MANNER:

PAYMENT RECEIVED

BILLED ON ACCOUNT



 OPERATOR NAME



 OPERATOR SIGNATURE



CERTIFICATE OF WASTE RECEIVED TREATMENT / DISPOSAL / RECYCLING

(To Accompany Transporter and Delivery to Facility)

Classification:

X	< 3%
	Leachate
	Other

Document No. _____
 Client Name: Allterra Construction Ltd
 Client PO/Job No. _____

GENERATOR :

Section 1 : Generator

Generator Name: Allterra Construction Ltd Site Location: 460 Stebbings Rd
Shawnigan Lake
 Generator Address: 2158 Millsream Rd, Victoria Site Address: _____
V9B 6H4
 Generator Phone #: _____ Site Phone #: 250-658-3772
 Description of Waste: Non-Regulated Wastewater

CHH Generator's Representative Name
RL Signature
MAY 7 2018 Shipment Date

Section 2 : Transporter

	DESCRIPTION	Estimated Quantity (kg/Litres)	Actual Quantity (kg/Litres)	Total Volume (Kg/Litres)
Transporter Load Size:	Leachate			
BCG No. N/A	1st load	3300	gal	3300
Emergency No. 1-250-252-0586	2nd load	3000	gal	3050

Company Name: Coast Environmental Ltd
 Address: 2673 Sooke Rd, Victoria

Driver Name/ Title: Coast Environmental Ltd GUY LEMARQUAND
 Phone #: 250-380-1166
 Vehicle License #/Prov.: TRUCK # 209

Acknowledgement of Materials.
[Signature] Driver Signature
MAY 7 2018 Shipment Date

Section 3 : Destination (to be completed by Coast Environmental)

SPL - Wastewater Treatment Facility
 995 Henry Eng Place, Victoria, BC V9B 6B2
 Onsite Manger: Michael Beaumont
 Phone: (250) 883-2829
 Office: (250) 391-7892
 Receiver Comments: n/a
 (location, type, special handling)

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accepted

[Signature] Name of Authorized Agent
[Signature] Signature
may 7 / 18 Receipt Date

WASTE ACCEPTANCE FORM

SPL Wastewater Recovery 2007 Inc.
 995 Henry Eng Place Victoria, V8B 6B2, BC
 Tel: (250) 915-1304 Fax: (250) 391-7883
 G.S.T. #: 831842158RT0001

TICKET: *83980

DATE: May 07, 2018

PERMIT STICKER:

TIME IN: 13:20 TIME OUT: 13:30

LICENSE: MK5313

HAULER: Coast Environmental Ltd

VOLUME DISCHARGED: 3300.00

SOURCES:

ST #	STREET NAME	MUNICIPALITY	TYPE	APPROX GL	PRICE/PER	TOTAL
A 0	NONE	CVRD	Leachate	3300.00		

B

C

GST 5%

TOTAL

DRIVER DECLARATION

I CERTIFY THAT THE ABOVE DESCRIBED WASTES DO NOT CONTAIN ANY MATERIALS OR SUBSTANCES WHICH ARE NOT PERMITTED BY APPLICABLE LAW TO BE DISPOSED AT THIS FACILITY, THAT THEY DO NOT CONTAIN ANY HAZARDOUS MATERIALS, AND THAT ALL INFORMATION CONTAINED IN THIS FORM IS TRUE AND CORRECT

604
 DRIVER NAME

[Signature]
 DRIVER SIGNATURE

OPERATOR DECLARATION

I CERTIFY THAT THE ABOVE DESCRIBED TRUCK LOAD WAS DISCHARGED AT THE SPL SEPTAGE PROCESSING FACILITY I HAVE NO KNOWLEDGE OF THE CONTENT OF THE TRUCK LOAD OTHER THAN THE INFORMATION GIVEN ON THIS FORM BY THE HAULER. PAYMENT HAS BEEN MADE IN THE FOLLOWING MANNER:

PAYMENT RECEIVED

BILLED ON ACCOUNT

[Signature]
 OPERATOR NAME

[Signature]
 OPERATOR SIGNATURE

WASTE ACCEPTANCE FORM

SPL Wastewater Recovery 2007 Inc.
885 Henry Eng Place Victoria, V8B 6B2, BC
Tel: (250) 915-1304 Fax: (250) 391-7893
G.S.T. #: 831842158RT0001

TICKET: *93996

DATE: May 08, 2018

PERMIT STICKER:

TIME IN: 08:25 TIME OUT: 08:40

LICENSE: MK5313

HAULER: Coast Environmental Ltd

VOLUME DISCHARGED: 3047.00

SOURCES:

ST #	STREET NAME	MUNICIPALITY	TYPE	APPROX GL	PRICE/PER	TOTAL
A 0	NONE <i>Shawmigan</i>	CVRD	Leachate	3047.00		
B						
C						

GST 5%

TOTAL

DRIVER DECLARATION

I CERTIFY THAT THE ABOVE DESCRIBED WASTES DO NOT CONTAIN ANY MATERIALS OR SUBSTANCES WHICH ARE NOT PERMITTED BY APPLICABLE LAW TO BE DISPOSED AT THIS FACILITY, THAT THEY DO NOT CONTAIN ANY HAZARDOUS MATERIALS, AND THAT ALL INFORMATION CONTAINED IN THIS FORM IS TRUE AND CORRECT

Blair

DRIVER NAME

[Signature]

DRIVER SIGNATURE

OPERATOR DECLARATION

I CERTIFY THAT THE ABOVE DESCRIBED TRUCK LOAD WAS DISCHARGED AT THE SPL SEPTAGE PROCESSING FACILITY I HAVE NO KNOWLEDGE OF THE CONTENT OF THE TRUCK LOAD OTHER THAN THE INFORMATION GIVEN ON THIS FORM BY THE HAULER. PAYMENT HAS BEEN MADE IN THE FOLLOWING MANNER:

PAYMENT RECEIVED

BILLED ON ACCOUNT

Blair

OPERATOR NAME

[Signature]

OPERATOR SIGNATURE

Table 1: Analytical Results for Nutrients in Surface Water			SHA-LE-1	SHA-SW-1
Laboratory ID			8042064-08	8042064-09
Sample ID	BC DRINKING WATER QUALITY GUIDELINES	BC FRESHWATER AQUATIC LIFE WATER QUALITY GUIDELINES	LE-1	SW1
Date Sampled/Time			2018-04-24	2018-04-24
Physical Tests				
Colour, True (Colour Units)	15 TCU	15 ⁽¹⁾ units absolute, or 5 units above background (30-day average)	<5.0	<5.0
Total Dissolved Solids (mg/L)	-	-		
Total Suspended Solids (mg/L)	-	25 mg/L above background (24-hr during clear flow)	2	<2.5
pH	7-10.5	6.5-9	7.15	7.72
Conductivity (uS/cm)	-	-	10400	371
Hardness (as CaCO3)	-	-	3000	160
Turbidity (NTU)	Δ1 NTU	8 NTU above background (24-hr during clear flow)	0.57	0.21
	5 NTU at any time when background is 8 - 50 NTU during high flows or in turbid waters	Change from background of 5 NTU at any time when background is 8 - 50 NTU during high flows or in turbid waters		
Anions and Nutrients mg/L				
Alkalinity Total (as CaCO3)	<10 high sensitivity to acid inputs		61.3	93.3
Acid Sensitivity	10-20 moderate sensitivity to acid inputs		Low	Low
	>20 low sensitivity to acid inputs			
Chloride (Cl)	250 mg/L	600 mg/L (instant max), 150 mg/L (30-day average)	2850	11.5
Fluoride (F)	1.5 mg/L (instant max) 1.0 mg/L (30-day average)	0.4 (Hardness <10mg/L)	<1.00	0.18
		Hardness-Dependent AW (Hardness is >10mg/L) ⁽¹⁾	2.70	1.52
Nitrate (as N)	45 mg/L	32.8 mg/L (instant maximum) 3.0 mg/L (30-day average)	1.53	0.419
Nitrite (as N) ⁽²⁾	3 mg/L	Cl > 10 mg/L 0.6 mg/L (MAX), 0.2 mg/L (30-day average)	0.472	<0.010
Sulfate (SO4) H 0-30 mg/L	500 mg/L	128 mg/L 30-day average		
		218 mg/L (30-day average)		
		309 mg/L (30-day average)		73
		429 mg/L (30-day average)		
		TBD	1560	

Notes: Refer to Table Endnotes (attached)

Table 2: Analytical Results for Total Metals in Surface Water			SHA-LE-1	SHA-SW-1
Laboratory ID	BC DRINKING WATER QUALITY GUIDELINES	BC FRESHWATER AQUATIC LIFE WATER QUALITY GUIDELINES	8042064-08	8042064-09
Sample ID			LE-1	SW1
Date Sampled/Time			2018-04-24	2018-04-24
Physical Tests				
Hardness (as CaCO ₃) (mg/L)	-	-	3000	160
pH	7-10.5	6.5-9	7.15	7.72
Total Metals (mg/L)				
Aluminum (Al)-Total	0.2	-	0.0482	0.0091
Antimony (Sb)-Total	-	-	0.0003	<0.00020
Arsenic (As)-Total	0.01	0.005	<0.00050	<0.00050
Barium (Ba)-Total	-	-	0.0517	0.0086
Beryllium (Be)-Total	-	-	<0.00010	<0.00010
Bismuth, total	-	-	<0.00010	<0.00010
Boron (B)-Total	5	1.2	0.254	0.0248
Cadmium (Cd)-Total	-	-	0.00068	<0.00010
Calcium (Ca)-Total	-	-	854	56.3
Chromium (Cr)-Total Chromium	-	-	<0.00050	<0.00050
Chromium (Cr(III))	-	-	-	-
Chromium (Cr(VI))	-	-	-	-
Cobalt (Co)-Total	-	0.110 (Short Term), 0.004 (Long Term Average)	0.00703	<0.00010
Copper (Cu)-Total	0.5	Hardness-Dependent ⁽⁷⁾	0.00359	0.00092
		Hardness-Dependent BCAWQG to protect AW ⁽⁸⁾ (instant max)	0.2840	0.0170
		Hardness-Dependent BCAWQG to protect AW ⁽⁸⁾ (30-d average)	0.1200	0.0064
Iron (Fe)-Total	-	1	0.023	<0.010
Lead (Pb)-Total	0.01	Hardness-Dependent ⁽⁸⁾	<0.00020	<0.00020
		Hardness-Dependent BCAWQG to protect AW ⁽⁸⁾ (instant max)	6.1988	0.1485
		Hardness-Dependent BCAWQG to protect AW ⁽⁸⁾ (30-d average)	0.2451	0.0091
Lithium (Li)-Total	-	-	0.00025	0.00014
Magnesium (Mg)-Total	-	-	232	7.76
Manganese (Mn)-Total	-	Hardness Dependent ⁽⁸⁾	33.8	0.00302
		Hardness-Dependent BCAWQG to protect AW ⁽⁸⁾ (instant max)	33.6	2.3
		Hardness-Dependent BCAWQG to protect AW ⁽⁸⁾ (30-d average)	13.8	1.3
Mercury (Hg)-Total	0.001	0.00002	0.000011	<0.000010
Molybdenum (Mo)-Total	0.25	≤1 (instant max) 2 (30-d average)	0.00106	0.00073
Nickel (Ni)-Total	-	0.025 (Hardness-Dependent ⁽⁸⁾ BCAWQG to protect AW ⁽⁸⁾ ≤50mg/L)	0.00762	<0.00040
		Calculated Hardness-Dependent ⁽⁸⁾ BCAWQG to protect AW ⁽⁸⁾ 60±15-180 mg/L CaCO ₃	1.267	0.137
Phosphorus(P)-Total	-	-	<0.050	<0.050
Potassium (K)-Total	-	-	19.8	0.69
Selenium (Se)-Total	0.01	0.002	<0.00050	<0.00050
Silicon (Si)-Total	-	-	5.9	4.5
Silver (Ag)-Total	-	HARDNESS <100mg/L 0.0001 (SHORT TERM), 0.00005 (LONG TERM), HARDNESS >100mg/L 0.003 (SHORT TERM), 0.0015 (LONG TERM)	0.000051	<0.000050
Sodium (Na)-Total	-	-	1550	8.63
Strontium (Sr)-Total	-	-	4.16	0.143
Sulfur (S)-Total	-	-	626	25
Tellurium (Te)-Total	-	-	<0.00050	<0.00050
Thallium (Tl)-Total	-	-	0.000052	<0.000020
Thorium (Th)-Total	-	-	<0.00010	<0.00010
Tin (Sn)-Total	-	-	<0.00020	<0.00020
Titanium (Ti)-Total	-	-	<0.0050	<0.0050
Uranium (U)-Total	-	-	0.000366	0.000741
Vanadium (V)-Total	-	-	<0.0010	<0.0010
Zinc (Zn)-Total	5.0	Hardness >90 mg/L	0.0203	<0.0040
		Hardness-Dependent BCAWQG to protect AW ⁽⁸⁾ (instant max)	2.216	0.086
		Hardness-Dependent BCAWQG to protect AW ⁽⁸⁾ (30-d average)	2.190	0.060
Zirconium (Zr)-Total	-	-	0.0001	<0.00010

Table 3: Analytical Results for Dissolved Metals in Surface Water			SHA-LE-1	SHA-SW-1
Laboratory ID	BC DRINKING WATER QUALITY GUIDELINES	BC FRESHWATER AQUATIC LIFE WATER QUALITY GUIDELINES	8042064-08	8042064-09
Sample ID			LE-1	SW1
Date Sampled/Time			2018-04-24	2018-04-24
Physical Tests				
Hardness (as CaCO ₃) (mg/L)	-	-	3000	160
pH	7-10.5	6.5-9	7.15	7.72
Dissolved Metals (mg/L)				
Aluminum (Al)-Dissolved	-	0.05 (30-day average where median pH > 6.5) 0.1 (maximum where instantaneous pH > 6.5) *** indicates pH-dependent maximum where instant pH ≤ 6.5	0.0137	<0.0050
		pH/Hardness Dependent BCAAQW to protect AW ⁽⁴⁾ (instant max)	0.220	0.622
		pH/Hardness Dependent BCAAQW to protect AW ⁽⁴⁾ (30-d Mean)	0.195	0.882
Antimony (Sb)-Dissolved	-	-	<0.00020	<0.00020
Arsenic (As)-Dissolved	-	-	<0.00050	<0.00050
Barium (Ba)-Dissolved	-	-	0.0483	0.0081
Beryllium (Be)-Dissolved	-	-	<0.00010	<0.00010
Bismuth (Bi)-Dissolved	-	-	<0.00010	<0.00010
Boron (B)-Dissolved	-	-	0.254	0.0204
Cadmium (Cd)-Dissolved	-	Hardness-Dependent⁽³⁾	0.000644	<0.000010
	-	Calculated Hardness-Dependent ⁽³⁾ BCAAQW to protect AW (short-term max) $e^{[1.03 * \ln(Hss) - 5.274]}$ ug/L H<455mg/L	Hardness exceeds 455mg/L	0.00095
	-	Calculated Hardness-Dependent BCAAQW to protect AW ⁽³⁾ (long-term max) $e^{[0.736 * \ln(Hss) - 4.943]}$ ug/L H<285mg/L	Hardness exceeds 285mg/L	0.00030
Calcium (Ca)-Dissolved	-	up to 4, highly sensitive to acid inputs 4 to 8, moderately sensitive over 8 low sensitivity	830	52.1
Chromium (Cr)-Dissolved	-	-	Low	Low
Chromium (Cr)-Dissolved	-	-	<0.00050	<0.00050
Cobalt (Co)-Dissolved	-	-	0.00693	<0.00010
Copper (Cu)-Dissolved	-	-	0.00334	0.00085
Iron (Fe)-Dissolved	-	0.35	<0.010	<0.010
Lead (Pb)-Dissolved	-	-	<0.00020	<0.00020
Lithium, dissolved	-	-	0.00025	0.00015
Magnesium (Mg)-Dissolved	-	-	226	7.32
Manganese (Mn)-Dissolved	-	-	31.8	0.00266
Mercury (Hg)-Dissolved	-	-	<0.000010	<0.000010
Molybdenum (Mo)-Dissolved	-	-	0.00105	0.00071
Nickel (Ni)-Dissolved	-	-	0.00742	<0.00040
Phosphorus (P)-Dissolved	-	-	<0.050	<0.050
Potassium (K)-Dissolved	-	-	19.3	0.67
Selenium (Se)-Dissolved	-	-	<0.00050	<0.00050
Silicon (Si)-Dissolved	-	-	6.2	4.5
Silver (Ag)-Dissolved	-	-	0.00005	<0.000050
Sodium (Na)-Dissolved	-	-	1540	8.19
Strontium (Sr)-dissolved	-	-	3.83	0.131
Sulfur (S)-Dissolved	-	-	623	23.8
Tellurium (Te)-Dissolved	-	-	<0.00050	<0.00050
Thallium (Tl)-Dissolved	-	-	0.000052	<0.000020
Thorium (Th)-Dissolved	-	-	<0.00010	<0.00010
Tin (Sn)-Dissolved	-	-	<0.00020	<0.00020
Titanium (Ti)-Dissolved	-	-	<0.0050	<0.0050
Uranium (U)-Dissolved	-	-	0.000343	0.000691
Vanadium (V)-Dissolved	-	-	<0.0010	<0.0010
Zinc (Zn)-Dissolved	-	-	0.0199	<0.0040
Zirconium (Zr)-Dissolved	-	-	<0.00010	<0.00010

Notes: Refer to Table Endnotes (attached)

Table 4: Analytical Results for Hydrocarbons and PAHs in			SHA-LE-1	SHA-SW-1
Laboratory ID	BC DRINKING	BC FRESHWATER AQUATIC LIFE WATER QUALITY GUIDELINES	8042064-08	8042064-09
Sample ID			LE-1	SW1
Date Sampled/ Time			2018-04-24	2018-04-24
Hydrocarbons ug/L				
LEPH	-	-	<250	<250
HEPH	-	-	<250	<250
Polycyclic Aromatic				
Acenaphthene	-	6 (LONG TERM)	<0.050	<0.050
Acenaphthylene	-	-	<0.200	<0.200
Acridine	-	3 (LONG TERM), 0.05 (PHOTOTOXIC)	<0.050	<0.050
Anthracene	-	4 (LONG TERM), 0.1 (PHOTOTOXIC)	<0.010	<0.010
Benz(a)anthracene	0.01	0.1 (LONG TERM), 0.1 (PHOTOTOXIC)	<0.010	<0.010
Benzo(a)pyrene	-	0.01 (LONG TERM)	<0.010	<0.010
Benzo(b)fluoranthene	-	-	-	-
Benzo(b+j)fluoranthene	-	-	<0.050	<0.050
Benzo(g,h,i)perylene	-	-	<0.050	<0.050
Benzo(k)fluoranthene	-	-	<0.050	<0.050
2-Chloronaphthalene			<0.100	<0.100
Chrysene	-	-	<0.050	<0.050
Dibenz(a,h)anthracene	-	-	<0.010	<0.010
Fluoranthene	-	4 (LONG TERM), 0.2 (PHOTOTOXIC)	<0.030	<0.030
Fluorene	-	12 (LONG TERM)	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	-	-	<0.050	<0.050
1-Methylnaphthalene			<0.100	<0.100
2-Methylnaphthalene			<0.100	<0.100
Naphthalene	-	1 (LONG TERM)	<0.200	<0.200
Phenanthrene	-	0.3 (LONG TERM)	<0.100	<0.100
Pyrene	-	0.02 (PHOTOTOXIC)	<0.020	<0.020
Quinoline	-	-	<0.050	<0.050

Notes: Refer to Table Endnotes (attached)

Analytical Table Footnotes: Analytical Results for Surface Water

All concentrations in mg/L, except pH or as indicated.

"<" less than the laboratory detection limit indicated.

"-" means not analyzed or no standard or guideline applies.

* RPDs are not normally calculated where one or more concentrations are less than five times RDL.

(1) Guideline of 15 mg/L Pt for Drinking Water. Once background levels are established, colour should also not exceed 5 mg/L above background, to protect for Aquatic Life. This is considered a clearwater system (background less than 20 mg/L Pt.)

(2) Nitrite BCAWWQG Guideline is Chloride dependent

(3) Standard is calculated based on the hardness dependent BCAWWQG formula, and has been calculated and shown for each individual result

(4) pH-dependent maximum where instant pH < 6.5

BOLD, UNDERLINE

Laboratory Detection Limit exceeds one or more applicable Standard

BOLD, BLUE SHADING

Concentration greater than BCAWWQG Guideline

BOLD, BEIGE SHADING

Concentration greater than BCAWWQG Chronic Guideline

BOLD, GREEN SHADING

Concentration greater than BC Ministry of Environment Drinking Water Sources

RED FONT

Concentration less than laboratory detection limit (Formula 0.5MRL utilized for statistical analysis)

Table GW1: Analytical Results for Nutrients in Groundwater

Sample Location	CSR Standards ⁽¹⁾		MW-6	MW-3S	MW-3D	MW-2	SB1	SB2	SB3
	As-built Well Depths		47m	23m	46m	43m	4.01m	3.28m	3.53m
Sample ID			8042064-01	8042064-02	8042064-03	8042064-04	8042064-05	8042064-06	8042064-07
			MW6	MW3S	MW3D	MW2	SB1	SB2	SB3
Date Sampled	Aquatic Life	Drinking Water	2018-04-24	2018-04-24	2018-04-24	2018-04-24	2018-04-24	2018-04-24	2018-04-24
Physical Tests									
Colour, True (TCU)	-	-	7.4	16	5.7	14	<5.0	<5.0	<5.0
Conductivity (uS/cm)	-	-	1330	353	249	286	224	432	538
Hardness (as CaCO3) mg/L	-	-	582	146	101	125	92.5	178	244
pH (pH Units)	-	-	7.33	7.73	7.78	7.71	7.39	7.06	7.43
Total Suspended Solids mg/L			9	13.8	8.6	34.6	122	178	1030
Total Dissolved Solids mg/L	-	-							
Turbidity (NTU)	-	-	12.3	7.97	7.63	27.8	90.5	172	967
Anions and Nutrients mg/L									
Alkalinity, Total (as CaCO3)	-	-	608	124	102	120	73.4	151	132
Chloride (Cl)	1500	250	37.6	9.87	3.24	6.36	2.87	24	7.88
Fluoride (F)	2 (H < 50)	1.5							
	3 (H ≥ 50)		0.39	0.17	0.29	0.24	0.12	0.24	0.23
Nitrate (as N)	400	10	0.051	<0.010	0.018	<0.010	0.182	0.132	0.77
Nitrite (as N) ⁽¹⁾ Cl <2 mg/L	0.2								
Cl 2 - <4 mg/L	0.4	3.2			<0.010		<0.010		
Cl 4 - <6 mg/L	0.6								
Cl 6 - <8 mg/L	0.8					<0.010			
Cl 8 - <10 mg/L	1								<0.010
Cl ≥ 10 mg/L	2								
Sulfate (SO4)	1000		500	<0.010	<0.010				<0.010
			88	42.7	22.2	18.7	33.9	37.8	130

Notes: Refer to Table Endnotes (attached)

Table GW2: Analytical Results for Total Metals in Groundwater

Sample Location	CSR Standards ⁽¹⁾		MW-6	MW-3S	MW-3D	MW-2	SB1	SB2	SB3
As-built Well Depths			47m	23m	46m	43m	4.01m	3.28m	3.53m
Sample ID			8042064-01	8042064-02	8042064-03	8042064-04	8042064-05	8042064-06	8042064-07
Date Sampled	Aquatic Life	Drinking Water	MW6	MW3S	MW3D	MW2	SB1	SB2	SB3
Physical Tests mg/L			2018-04-24	2018-04-24	2018-04-24	2018-04-24	2018-04-24	2018-04-24	2018-04-24
Hardness (as CaCO3)	-	-	582	146	101	125	92.5	178	244
Total Metals mg/L									
Aluminum (Al)-Total	-	-	0.28	0.0772	0.0803	0.805	4.93	8.11	31
Antimony (Sb)-Total	-	-	<0.00020	<0.00020	<0.00020	<0.00020	0.0002	<0.00020	0.00038
Arsenic (As)-Total	-	-	0.00342	0.00068	0.00121	0.00199	0.0005	0.00066	0.0054
Barium (Ba)-Total	-	-	0.082	0.0296	0.0208	0.0348	0.0297	0.0415	0.119
Beryllium (Be)-Total	-	-	<0.00010	<0.00010	<0.00010	<0.00010	0.0001	0.0002	0.00054
Bismuth (Bi)-Total	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00013
Boron (B)-Total	-	-	0.0817	0.0266	0.0274	0.0273	0.0119	0.022	0.0244
Cadmium (Cd)-Total	-	-	0.00009	0.000217	0.000131	0.000037	0.000023	0.00002	0.000123
Calcium (Ca)-Total	-	-	175	46.1	31.7	40.4	37.3	66.4	98.2
Chromium (Cr)-Total	-	-	0.00075	<0.00050	<0.00050	0.00111	0.00618	0.00795	0.0588
Cobalt (Co)-Total	-	-	0.00213	0.00069	0.0004	0.00086	0.0052	0.00549	0.0342
Copper (Cu)-Total	-	-	0.00235	0.00042	0.00257	0.00199	0.0135	0.0212	0.0938
Iron (Fe)-Total	-	-	1.86	0.11	0.137	1.37	5.64	8.48	38.7
Lead (Pb)-Total	-	-	0.00089	<0.00020	<0.00020	0.0004	0.00548	0.00259	0.0193
Lithium (Li)-Total	-	-	0.0121	0.00013	<0.00010	0.0002	0.00163	0.00262	0.0163
Magnesium (Mg)-Total	-	-	36.2	7.19	5.41	7.92	4.62	10.5	23.3
Manganese (Mn)-Total	-	-	2.07	0.359	0.295	0.477	0.157	0.294	0.749
Mercury (Hg)-Total	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00016
Molybdenum (Mo)-Total	-	-	0.00093	0.00626	0.00668	0.00418	0.00045	0.00081	0.00127
Nickel (Ni)-Total	-	-	0.00474	0.00146	0.00141	0.00154	0.00663	0.00704	0.052
Phosphorus (P)-Total	-	-	<0.050	0.072	0.096	0.199	0.14	0.229	0.815
Potassium (K)-Total	-	-	3.8	0.88	0.61	0.77	0.65	2.28	2.62
Selenium (Se)-Total	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.0011
Silicon (Si)-Total	-	-	11.5	6.3	6	8	10.2	19.5	49.9
Silver (Ag)-Total	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000123
Sodium (Na)-Total	-	-	64.3	13.1	10.5	9.56	3.31	16.6	9.44
Strontium (Sr)-Total	-	-	0.573	0.224	0.193	0.172	0.0859	0.2	0.229
Sulfur (S)-Total	-	-	24.7	13.1	7.8	6.1	10.3	11.2	43.9
Tellurium (Te)-Total	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Thallium (Tl)-Total	-	-	0.00005	0.000026	<0.00020	<0.00020	<0.00020	0.000032	0.000107
Thorium (Th)-Total	-	-	<0.00010	<0.00010	0.00015	0.00011	<0.00010	0.00027	0.00123
Tin (Sn)-Total	-	-	0.00073	0.00021	<0.00020	<0.00020	0.00041	0.00023	0.00118
Titanium (Ti)-Total	-	-	0.014	<0.0050	<0.0050	0.0486	0.245	0.433	1.45
Uranium (U)-Total	-	-	0.00765	0.00105	0.000739	0.000928	0.00048	0.00108	0.00275
Vanadium (V)-Total	-	-	<0.0010	<0.0010	<0.0010	0.0031	0.0132	0.0175	0.0837
Zinc (Zn)-Total	-	-	0.008	<0.0040	0.0043	0.0042	0.0161	0.0202	0.102
Zirconium (Zr)-Total	-	-	0.0003	0.00014	0.00016	0.00019	0.00029	0.00126	0.00217

Notes: Refer to Table Endnotes (attached)

Table GW3: Analytical Results for Dissolved Metals in Groundwater

Sample Location	CSR Standards ⁽¹⁾		MW-6	MW-3S	MW-3D	MW-2	SB1	SB2	SB3
As-built Well Depths			47m	23m	46m	43m	4.01m	3.28m	3.53m
Sample ID			8042064-01	8042064-02	8042064-03	8042064-04	8042064-05	8042064-06	8042064-07
			MW6	MW3S	MW3D	MW2	SB1	SB2	SB3
Date Sampled	Aquatic Life	Drinking Water	2018-04-24	2018-04-24	2018-04-24	2018-04-24	2018-04-24	2018-04-24	2018-04-24
Physical Tests mg/L			582	146	101	125	92.5	178	244
Hardness (as CaCO3)	-	9.5							
Dissolved Metals mg/L									
Aluminum (Al)-Dissolved	-	-	<0.0050	<0.0050	<0.0050	0.0069	<0.0050	<0.0050	<0.0050
Antimony (Sb)-Dissolved	0.2	0.006	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00022
Arsenic (As)-Dissolved	0.05	0.01	0.00336	0.00088	0.00123	0.00199	<0.00050	<0.00050	<0.00050
Barium (Ba)-Dissolved	10	1	0.0776	0.0268	0.0177	0.029	<0.0050	0.0054	<0.0050
Beryllium (Be)-Dissolved	0.053	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bismuth (Bi)-Dissolved	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Boron (B)-Dissolved	50	5	0.083	0.0247	0.0257	0.0254	0.0085	0.0176	0.0174
Cadmium (Cd)-Dissolved	0.001 (H=30) 0.0003 (H=30-90) 0.0005 (H=90-150) 0.0006 (H=150-210)	0.005		0.000021	<0.000010	<0.000010	<0.000010		
Calcium (Ca)-Dissolved	-	-	174	46.5	31.6	38.2	32.6	58.5	80.7
Chromium (Cr)-Dissolved	0.01	0.05	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Colbalt (Co)-Dissolved	0.04	-	0.00199	0.00062	0.00035	0.00036	<0.00010	<0.00010	<0.00010
Copper (Cu)-Dissolved	0.02 (H=50) 0.03 (H=50-75) 0.04 (H=75-100) 0.05 (H=100-125) 0.06 (H=125-150) 0.07 (H=150-175) 0.08 (H=175-200) 0.09 (H=200)	1			<0.00040		0.00044		
Iron (Fe)-Dissolved	0.04 (H=50) 0.05 (H=50-100) 0.06 (H=100-200) 0.11 (H=200-300) 0.16 (H=300)	6.5	<0.00040	1.53	0.035	0.081	0.228	<0.010	<0.010
Lead (Pb)-Dissolved	0.01	0.01			<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Lithium (Li)-Dissolved	-	-	0.0121	0.0011	<0.00010	<0.00010	<0.00010	0.00011	0.00013
Magnesium (Mg)-Dissolved	-	100	35.8	7.18	5.28	7.09	2.64	7.64	10.3
Manganese (Mn)-Dissolved	-	0.55	1.99	0.354	0.278	0.434	0.00056	0.00198	0.00091
Mercury (Hg)-Dissolved	0.001	0.001	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Molybdenum (Mo)-Dissolved	10	0.25	0.00069	0.00598	0.00637	0.00401	0.00034	0.00053	0.00084
Nickel (Ni)-Dissolved	0.25 (H=60) 0.65 (H=60-120) 1.1 (H=120-180) 1.5 (H=180)	-		0.00136		0.00081	0.00131		
Phosphorus (P)-Dissolved	-	-	0.00367			0.00081		0.00047	
Potassium (K)-Dissolved	-	-	<0.050	0.052	0.077	0.137	<0.050	<0.050	<0.050
Selenium (Se)-Dissolved	0.01	0.01	3.78	0.89	0.62	0.7	0.27	1.04	0.61
Silicon (Si)-Dissolved	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00084
Silver (Ag)-Dissolved	0.0005 (H=100) 0.015 (H=100)	200	11.5	6.3	6	6.7	3.1	5.3	5.3
Sodium (Na)-Dissolved	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Strontium (Sr)-Dissolved	-	-	65	13.3	10.6	9.22	2.82	15.2	7.41
Sulfur (S)-Dissolved	-	-	0.549	0.216	0.175	0.156	0.07	0.164	0.144
Tellurium (Te)-Dissolved	-	-	24.4	13.3	6.8	5.9	10.4	11.3	42.7
Thallium (Tl)-Dissolved	0.003	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Thorium (Th)-Dissolved	-	-	<0.000020	0.000023	0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Tin (Sn)-Dissolved	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Dissolved	1	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Uranium (U)-Dissolved	3	0.02	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Dissolved	-	-	0.00737	0.000988	0.00061	0.000602	0.000241	0.00071	0.0014
Zinc (Zn)-Dissolved	0.075 (H=90) 0.150 (H=90-100) 0.900 (H=100-200) 1.650 (H=200-300) 2.4 (H=300-400)	5	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zirconium (Zr)-Dissolved	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010

Notes: Refer to Table Endnotes (attached)

Table GW4: Analytical Results for Hydrocarbons and PAHs in Groundwater

Sample Location	CSR Standards ⁽¹⁾		MW-6	MW-3S	MW-3D	MW-2	SB1	SB2	SB3
	As-built Well Depths		47m	23m	46m	43m	4.01m	3.28m	3.53m
Sample ID			8042064-01	8042064-02	8042064-03	8042064-04	8042064-05	8042064-06	8042064-07
Date Sampled	Aquatic Life	Drinking Water	MW6	MW3S	MW3D	MW2	SB1	SB2	SB3
			2018-04-24	2018-04-24	2018-04-24	2018-04-24	2018-04-24	2018-04-24	2018-04-24
Turbidity (NTU)	-	-	12.3	7.97	7.63	27.8	90.5	172	967
Hydrocarbons ug/L									
EPH10-19	5000	5000	<250	<250	<250	<250	<250	<250	<250
EPH10-19 (SG)	5000	5000							
EPH19-32	-	-	<250	<250	<250	<250	<250	<250	<250
EPH19-32 (SG)	-	-							
LEPH	500	-	<250	<250	<250	<250	<250	<250	<250
HEPH	-	-	<250	<250	<250	<250	<250	<250	<250
Polycyclic Aromatic Hydrocarbons ug/L									
Acenaphthene	60	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	-	-	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
Acridine	0.5	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	1	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benz(a)anthracene	1	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.016
Benzo(a)pyrene	0.1	0.01	<0.010	<0.010	<0.010	<0.010	<0.010	0.016	0.023
Benzo(b)fluoranthene	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(g,h,i)perylene	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
2-Chloronaphthalene	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Chrysene	1	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	0.022	<0.010
Fluoranthene	2	-	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Fluorene	120	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1-Methylnaphthalene	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
2-Methylnaphthalene	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Naphthalene	10	-	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
Phenanthrene	3	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Pyrene	0.2	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.028
Quinoline	34	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Notes: Refer to Table Endnotes (attached)

Analytical Table Footnotes: Analytical Results for Groundwater

All concentrations in mg/L, except pH or as indicated.

"<" less than the laboratory detection limit indicated.

"-" means not analyzed or no standard or guideline applies.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

(1) A compendium of CSR Schedules 6 and 10 guidelines with respect to Drinking Water (DW) and Freshwater Aquatic Life (AW).

(2) Standard is dissolved Chloride-dependent.

BOLD, UNDERLINE

Laboratory Detection Limit exceeds one or more applicable Standard

BLUE SHADING

Concentration greater than CSR Aquatic Life (AW) Standard

BOLD, BEIGE TEXT

Concentration greater than CSR Drinking Water (DW) Standard

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FINAL Analytical Testing Report
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Report Date: 2018-05-02 15:50:05

Client Allterra Construction
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Project P17-932
Project Info [none]

Note: This is not the original data. Please refer to PDF / Hardcopy report.

LAB ID				8042064-01	8042064-02	8042064-03	8042064-04	8042064-05
CLIENT ID				MW6	MW3S	MW3D	MW2	SB1
DATE SAMPLED				2018-04-24	2018-04-24	2018-04-24	2018-04-24	2018-04-24
DATE RECEIVED				2018-04-25	2018-04-25	2018-04-25	2018-04-25	2018-04-25
MATRIX				Water	Water	Water	Water	Water
General Method	Analyte	Units	MRL					
Anions	Chloride	mg/L	0.1	37.6	9.87	3.24	6.36	2.87
Anions	Fluoride	mg/L	0.1	0.39	0.17	0.29	0.24	0.12
Anions	Nitrate (as N)	mg/L	0.01	0.051	<0.010	0.018	<0.010	0.182
Anions	Nitrite (as N)	mg/L	0.01	<0.010	<0.010	<0.010	<0.010	<0.010
Anions	Sulfate	mg/L	1	88	42.7	22.2	18.7	33.9
General Parameters	Colour, True	CU	5	7.4	16	5.7	14	<5.0
General Parameters	Alkalinity, Total (as CaCO3)	mg/L	1	608	124	102	120	73.4
General Parameters	Alkalinity, Phenolphthalein (as CaCO3)	mg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0
General Parameters	Alkalinity, Bicarbonate (as CaCO3)	mg/L	1	608	124	102	120	73.4
General Parameters	Alkalinity, Carbonate (as CaCO3)	mg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0
General Parameters	Alkalinity, Hydroxide (as CaCO3)	mg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0
General Parameters	Chromium, Hexavalent	mg/L	0.001					
General Parameters	Solids, Total Suspended	mg/L	2	9	13.8	8.6	34.6	122
General Parameters	Turbidity	NTU	0.1	12.3	7.97	7.63	27.8	90.5
General Parameters	pH	pH units	0.1	7.33	7.73	7.78	7.71	7.39
General Parameters	Conductivity (EC)	uS/cm	2	1330	353	249	286	224
Calculated Parameters	Chromium, Trivalent	mg/L	0.001					
Calculated Parameters	Hardness, Total (as CaCO3)	mg/L	0.5	582	146	101	125	92.5
Dissolved Metals	Aluminum, dissolved	mg/L	0.005	<0.0050	<0.0050	<0.0050	0.0069	<0.0050
Dissolved Metals	Antimony, dissolved	mg/L	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Dissolved Metals	Arsenic, dissolved	mg/L	0.0005	0.00336	0.00088	0.00123	0.00199	<0.00050
Dissolved Metals	Barium, dissolved	mg/L	0.005	0.0776	0.0268	0.0177	0.029	<0.0050
Dissolved Metals	Beryllium, dissolved	mg/L	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Dissolved Metals	Bismuth, dissolved	mg/L	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Dissolved Metals	Boron, dissolved	mg/L	0.005	0.083	0.0247	0.0257	0.0254	0.0085
Dissolved Metals	Cadmium, dissolved	mg/L	0.00001	<0.000010	0.000021	<0.000010	<0.000010	<0.000010
Dissolved Metals	Calcium, dissolved	mg/L	0.2	174	46.5	31.6	38.2	32.6
Dissolved Metals	Chromium, dissolved	mg/L	0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Dissolved Metals	Cobalt, dissolved	mg/L	0.0001	0.00199	0.00062	0.00035	0.00036	<0.00010
Dissolved Metals	Copper, dissolved	mg/L	0.0004	<0.00040	<0.00040	<0.00040	<0.00040	0.00044
Dissolved Metals	Iron, dissolved	mg/L	0.01	1.53	0.035	0.081	0.228	<0.010
Dissolved Metals	Lead, dissolved	mg/L	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Dissolved Metals	Lithium, dissolved	mg/L	0.0001	0.0121	0.00011	<0.00010	<0.00010	<0.00010

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LAB ID			8042064-01	8042064-02	8042064-03	8042064-04	8042064-05	
CLIENT ID			MW6	MW3S	MW3D	MW2	SB1	
DATE SAMPLED			2018-04-24	2018-04-24	2018-04-24	2018-04-24	2018-04-24	
DATE RECEIVED			2018-04-25	2018-04-25	2018-04-25	2018-04-25	2018-04-25	
Dissolved Metals	Magnesium, dissolved	mg/L	0.01	35.8	7.18	5.28	7.09	2.64
Dissolved Metals	Manganese, dissolved	mg/L	0.0002	1.99	0.354	0.278	0.434	0.00056
Dissolved Metals	Mercury, dissolved	mg/L	0.00001	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Dissolved Metals	Molybdenum, dissolved	mg/L	0.0001	0.00069	0.00598	0.00637	0.00401	0.00034
Dissolved Metals	Nickel, dissolved	mg/L	0.0004	0.00367	0.00136	0.00124	0.00081	0.00131
Dissolved Metals	Phosphorus, dissolved	mg/L	0.05	<0.050	0.052	0.077	0.137	<0.050
Dissolved Metals	Potassium, dissolved	mg/L	0.1	3.78	0.89	0.62	0.7	0.27
Dissolved Metals	Selenium, dissolved	mg/L	0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Dissolved Metals	Silicon, dissolved	mg/L	1	11.5	6.3	6	6.7	3.1
Dissolved Metals	Silver, dissolved	mg/L	0.00005	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Dissolved Metals	Sodium, dissolved	mg/L	0.1	65	13.3	10.6	9.22	2.82
Dissolved Metals	Strontium, dissolved	mg/L	0.001	0.549	0.216	0.175	0.156	0.07
Dissolved Metals	Sulfur, dissolved	mg/L	3	24.4	13.3	6.8	5.9	10.4
Dissolved Metals	Tellurium, dissolved	mg/L	0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Dissolved Metals	Thallium, dissolved	mg/L	0.00002	<0.000020	0.000023	<0.000020	<0.000020	<0.000020
Dissolved Metals	Thorium, dissolved	mg/L	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Dissolved Metals	Tin, dissolved	mg/L	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Dissolved Metals	Titanium, dissolved	mg/L	0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Metals	Tungsten, dissolved	mg/L	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Metals	Uranium, dissolved	mg/L	0.00002	0.00737	0.000988	0.00061	0.000802	0.000241
Dissolved Metals	Vanadium, dissolved	mg/L	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Metals	Zinc, dissolved	mg/L	0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Dissolved Metals	Zirconium, dissolved	mg/L	0.0001	0.00019	<0.00010	<0.00010	<0.00010	<0.00010
Total Metals	Aluminum, total	mg/L	0.005	0.28	0.0772	0.0803	0.805	4.93
Total Metals	Antimony, total	mg/L	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	0.0002
Total Metals	Arsenic, total	mg/L	0.0005	0.00342	0.00088	0.00121	0.00199	0.0006
Total Metals	Barium, total	mg/L	0.005	0.082	0.0296	0.0208	0.0348	0.0297
Total Metals	Beryllium, total	mg/L	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	0.0001
Total Metals	Bismuth, total	mg/L	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Total Metals	Boron, total	mg/L	0.005	0.0817	0.0266	0.0274	0.0273	0.0119
Total Metals	Cadmium, total	mg/L	0.00001	0.00009	0.000217	0.000131	0.000037	0.000023
Total Metals	Calcium, total	mg/L	0.2	175	46.1	31.7	40.4	37.3
Total Metals	Chromium, total	mg/L	0.0005	0.00075	<0.00050	<0.00050	0.00111	0.00618
Total Metals	Cobalt, total	mg/L	0.0001	0.00213	0.00069	0.0004	0.00086	0.0052
Total Metals	Copper, total	mg/L	0.0004	0.00235	0.00042	0.00257	0.00199	0.0135

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Project Info [none]

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LAB ID			8042064-01	8042064-02	8042064-03	8042064-04	8042064-05	
CLIENT ID			MW6	MW3S	MW3D	MW2	SB1	
DATE SAMPLED			2018-04-24	2018-04-24	2018-04-24	2018-04-24	2018-04-24	
DATE RECEIVED			2018-04-25	2018-04-25	2018-04-25	2018-04-25	2018-04-25	
Total Metals	Iron, total	mg/L	0.01	1.86	0.11	0.137	1.37	5.64
Total Metals	Lead, total	mg/L	0.0002	0.00089	<0.00020	<0.00020	0.0004	0.00548
Total Metals	Lithium, total	mg/L	0.0001	0.0121	0.00013	<0.00010	0.0002	0.00163
Total Metals	Magnesium, total	mg/L	0.01	36.2	7.19	5.41	7.92	4.62
Total Metals	Manganese, total	mg/L	0.0002	2.07	0.359	0.295	0.477	0.157
Total Metals	Mercury, total	mg/L	0.00001	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Total Metals	Molybdenum, total	mg/L	0.0001	0.00093	0.00626	0.00668	0.00418	0.00045
Total Metals	Nickel, total	mg/L	0.0004	0.00474	0.00146	0.00141	0.00154	0.00663
Total Metals	Phosphorus, total	mg/L	0.05	<0.050	0.072	0.096	0.199	0.14
Total Metals	Potassium, total	mg/L	0.1	3.8	0.88	0.61	0.77	0.65
Total Metals	Selenium, total	mg/L	0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Total Metals	Silicon, total	mg/L	1	11.5	6.3	6	8	10.2
Total Metals	Silver, total	mg/L	0.00005	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Total Metals	Sodium, total	mg/L	0.1	64.3	13.1	10.5	9.56	3.31
Total Metals	Strontium, total	mg/L	0.001	0.573	0.224	0.193	0.172	0.0859
Total Metals	Sulfur, total	mg/L	3	24.7	13.1	7.8	6.1	10.3
Total Metals	Tellurium, total	mg/L	0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Total Metals	Thallium, total	mg/L	0.00002	0.00005	0.000026	<0.000020	<0.000020	<0.000020
Total Metals	Thorium, total	mg/L	0.0001	<0.00010	<0.00010	0.00015	0.00011	<0.00010
Total Metals	Tin, total	mg/L	0.0002	0.00073	0.00021	<0.00020	<0.00020	0.00041
Total Metals	Titanium, total	mg/L	0.005	0.014	<0.0050	<0.0050	0.0486	0.245
Total Metals	Tungsten, total	mg/L	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Total Metals	Uranium, total	mg/L	0.00002	0.00765	0.00105	0.000739	0.000928	0.00048
Total Metals	Vanadium, total	mg/L	0.001	<0.0010	<0.0010	<0.0010	0.0031	0.0132
Total Metals	Zinc, total	mg/L	0.004	0.008	<0.0040	0.0043	0.0042	0.0161
Total Metals	Zirconium, total	mg/L	0.0001	0.0003	0.00014	0.00016	0.00019	0.00029
BCMOE Aggregate Hydrocarbons	EPHw10-19	ug/L	250	<250	<250	<250	<250	<250
BCMOE Aggregate Hydrocarbons	EPHw19-32	ug/L	250	<250	<250	<250	<250	<250
BCMOE Aggregate Hydrocarbons	LEPHw	ug/L	250	<250	<250	<250	<250	<250
BCMOE Aggregate Hydrocarbons	HEPHw	ug/L	250	<250	<250	<250	<250	<250
Polycyclic Aromatic Hydrocarbons (PAH)	Acenaphthene	ug/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons (PAH)	Acenaphthylene	ug/L	0.2	<0.200	<0.200	<0.200	<0.200	<0.200
Polycyclic Aromatic Hydrocarbons (PAH)	Acridine	ug/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons (PAH)	Anthracene	ug/L	0.01	<0.010	<0.010	<0.010	<0.010	<0.010
Polycyclic Aromatic Hydrocarbons (PAH)	Benz(a)anthracene	ug/L	0.01	<0.010	<0.010	<0.010	<0.010	<0.010

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LAB ID			8042064-01	8042064-02	8042064-03	8042064-04	8042064-05
CLIENT ID			MW6	MW3S	MW3D	MW2	SB1
DATE SAMPLED			2018-04-24	2018-04-24	2018-04-24	2018-04-24	2018-04-24
DATE RECEIVED			2018-04-25	2018-04-25	2018-04-25	2018-04-25	2018-04-25
Polycyclic Aromatic Hydrocarbons (PAH)	Benzo(a)pyrene	ug/L	0.01	<0.010	<0.010	<0.010	<0.010
Polycyclic Aromatic Hydrocarbons (PAH)	Benzo(b+j)fluoranthene	ug/L	0.05	<0.050	<0.050	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons (PAH)	Benzo(g,h,i)perylene	ug/L	0.05	<0.050	<0.050	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons (PAH)	Benzo(k)fluoranthene	ug/L	0.05	<0.050	<0.050	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons (PAH)	2-Chloronaphthalene	ug/L	0.1	<0.100	<0.100	<0.100	<0.100
Polycyclic Aromatic Hydrocarbons (PAH)	Chrysene	ug/L	0.05	<0.050	<0.050	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons (PAH)	Dibenz(a,h)anthracene	ug/L	0.01	<0.010	<0.010	<0.010	<0.010
Polycyclic Aromatic Hydrocarbons (PAH)	Fluoranthene	ug/L	0.03	<0.030	<0.030	<0.030	<0.030
Polycyclic Aromatic Hydrocarbons (PAH)	Fluorene	ug/L	0.05	<0.050	<0.050	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons (PAH)	Indeno(1,2,3-cd)pyrene	ug/L	0.05	<0.050	<0.050	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons (PAH)	1-Methylnaphthalene	ug/L	0.1	<0.100	<0.100	<0.100	<0.100
Polycyclic Aromatic Hydrocarbons (PAH)	2-Methylnaphthalene	ug/L	0.1	<0.100	<0.100	<0.100	<0.100
Polycyclic Aromatic Hydrocarbons (PAH)	Naphthalene	ug/L	0.2	<0.200	<0.200	<0.200	<0.200
Polycyclic Aromatic Hydrocarbons (PAH)	Phenanthrene	ug/L	0.1	<0.100	<0.100	<0.100	<0.100
Polycyclic Aromatic Hydrocarbons (PAH)	Pyrene	ug/L	0.02	<0.020	<0.020	<0.020	<0.020
Polycyclic Aromatic Hydrocarbons (PAH)	Quinoline	ug/L	0.05	<0.050	<0.050	<0.050	<0.050

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LAB ID				8042064-06	8042064-07	8042064-08	8042064-09
CLIENT ID				SB2	SB3	LE-1	SW1
DATE SAMPLED				2018-04-24	2018-04-24	2018-04-24	2018-04-24
DATE RECEIVED				2018-04-25	2018-04-25	2018-04-25	2018-04-25
MATRIX				Water	Water	Water	Water
General Method	Analyte	Units	MRL				
Anions	Chloride	mg/L	0.1	24	7.88	2850	11.5
Anions	Fluoride	mg/L	0.1	0.24	0.23	<1.00	0.18
Anions	Nitrate (as N)	mg/L	0.01	0.132	0.77	1.53	0.419
Anions	Nitrite (as N)	mg/L	0.01	<0.010	<0.010	0.472	<0.010
Anions	Sulfate	mg/L	1	37.8	130	1560	73
General Parameters	Colour, True	CU	5	<5.0	<5.0	<5.0	<5.0
General Parameters	Alkalinity, Total (as CaCO3)	mg/L	1	151	132	61.3	93.3
General Parameters	Alkalinity, Phenolphthalein (as CaCO3)	mg/L	1	<1.0	<1.0	<1.0	<1.0
General Parameters	Alkalinity, Bicarbonate (as CaCO3)	mg/L	1	151	132	61.3	93.3
General Parameters	Alkalinity, Carbonate (as CaCO3)	mg/L	1	<1.0	<1.0	<1.0	<1.0
General Parameters	Alkalinity, Hydroxide (as CaCO3)	mg/L	1	<1.0	<1.0	<1.0	<1.0
General Parameters	Chromium, Hexavalent	mg/L	0.001				<0.0010
General Parameters	Solids, Total Suspended	mg/L	2	178	1030	2	<2.5
General Parameters	Turbidity	NTU	0.1	172	967	0.57	0.21
General Parameters	pH	pH units	0.1	7.06	7.43	7.15	7.72
General Parameters	Conductivity (EC)	uS/cm	2	432	538	10400	371
Calculated Parameters	Chromium, Trivalent	mg/L	0.001				<0.00100
Calculated Parameters	Hardness, Total (as CaCO3)	mg/L	0.5	178	244	3000	160
Dissolved Metals	Aluminum, dissolved	mg/L	0.005	<0.0050	<0.0050	0.0137	<0.0050
Dissolved Metals	Antimony, dissolved	mg/L	0.0002	<0.00020	0.00022	<0.00020	<0.00020
Dissolved Metals	Arsenic, dissolved	mg/L	0.0005	<0.00050	<0.00050	<0.00050	<0.00050
Dissolved Metals	Barium, dissolved	mg/L	0.005	0.0054	<0.0050	0.0483	0.0081
Dissolved Metals	Beryllium, dissolved	mg/L	0.0001	<0.00010	<0.00010	<0.00010	<0.00010
Dissolved Metals	Bismuth, dissolved	mg/L	0.0001	<0.00010	<0.00010	<0.00010	<0.00010
Dissolved Metals	Boron, dissolved	mg/L	0.005	0.0176	0.0174	0.254	0.0204
Dissolved Metals	Cadmium, dissolved	mg/L	0.00001	<0.000010	<0.000010	0.000644	<0.000010
Dissolved Metals	Calcium, dissolved	mg/L	0.2	58.5	80.7	830	52.1
Dissolved Metals	Chromium, dissolved	mg/L	0.0005	<0.00050	<0.00050	<0.00050	<0.00050
Dissolved Metals	Cobalt, dissolved	mg/L	0.0001	<0.00010	<0.00010	0.00693	<0.00010
Dissolved Metals	Copper, dissolved	mg/L	0.0004	0.00055	0.00083	0.00334	0.00085
Dissolved Metals	Iron, dissolved	mg/L	0.01	<0.010	<0.010	<0.010	<0.010
Dissolved Metals	Lead, dissolved	mg/L	0.0002	<0.00020	<0.00020	<0.00020	<0.00020
Dissolved Metals	Lithium, dissolved	mg/L	0.0001	0.00011	0.00013	0.00025	0.00015

CARO Analytical Services
FINAL Analytical Testing Report
Work Order: 8042064
Report Date: 2018-05-02 15:50:05

Client Allterra Construction
Attention Rahim Gaidhar
Project P17-932
Project Info [none]

Note: This is not the original data. Please refer to PDF / Hardcopy report.

LAB ID			8042064-06	8042064-07	8042064-08	8042064-09	
CLIENT ID			SB2	SB3	LE-1	SW1	
DATE SAMPLED			2018-04-24	2018-04-24	2018-04-24	2018-04-24	
DATE RECEIVED			2018-04-25	2018-04-25	2018-04-25	2018-04-25	
Dissolved Metals	Magnesium, dissolved	mg/L	0.01	7.64	10.3	226	7.32
Dissolved Metals	Manganese, dissolved	mg/L	0.0002	0.00198	0.00091	31.8	0.00266
Dissolved Metals	Mercury, dissolved	mg/L	0.00001	<0.000010	<0.000010	<0.000010	<0.000010
Dissolved Metals	Molybdenum, dissolved	mg/L	0.0001	0.00053	0.00084	0.00105	0.00071
Dissolved Metals	Nickel, dissolved	mg/L	0.0004	0.00047	0.00087	0.00742	<0.00040
Dissolved Metals	Phosphorus, dissolved	mg/L	0.05	<0.050	<0.050	<0.050	<0.050
Dissolved Metals	Potassium, dissolved	mg/L	0.1	1.04	0.61	19.3	0.67
Dissolved Metals	Selenium, dissolved	mg/L	0.0005	<0.00050	0.00084	<0.00050	<0.00050
Dissolved Metals	Silicon, dissolved	mg/L	1	5.3	5.3	6.2	4.5
Dissolved Metals	Silver, dissolved	mg/L	0.00005	<0.000050	<0.000050	0.00005	<0.000050
Dissolved Metals	Sodium, dissolved	mg/L	0.1	15.2	7.41	1540	8.19
Dissolved Metals	Strontium, dissolved	mg/L	0.001	0.164	0.144	3.83	0.131
Dissolved Metals	Sulfur, dissolved	mg/L	3	11.3	42.7	623	23.8
Dissolved Metals	Tellurium, dissolved	mg/L	0.0005	<0.00050	<0.00050	<0.00050	<0.00050
Dissolved Metals	Thallium, dissolved	mg/L	0.00002	<0.000020	<0.000020	0.000052	<0.000020
Dissolved Metals	Thorium, dissolved	mg/L	0.0001	<0.00010	<0.00010	<0.00010	<0.00010
Dissolved Metals	Tin, dissolved	mg/L	0.0002	<0.00020	<0.00020	<0.00020	<0.00020
Dissolved Metals	Titanium, dissolved	mg/L	0.005	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Metals	Tungsten, dissolved	mg/L	0.001	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Metals	Uranium, dissolved	mg/L	0.00002	0.00071	0.0014	0.000343	0.000691
Dissolved Metals	Vanadium, dissolved	mg/L	0.001	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Metals	Zinc, dissolved	mg/L	0.004	<0.0040	<0.0040	0.0199	<0.0040
Dissolved Metals	Zirconium, dissolved	mg/L	0.0001	<0.00010	<0.00010	<0.00010	<0.00010
Total Metals	Aluminum, total	mg/L	0.005	8.11	31	0.0482	0.0091
Total Metals	Antimony, total	mg/L	0.0002	<0.00020	0.00038	0.0003	<0.00020
Total Metals	Arsenic, total	mg/L	0.0005	0.00086	0.0054	<0.00050	<0.00050
Total Metals	Barium, total	mg/L	0.005	0.0415	0.119	0.0517	0.0086
Total Metals	Beryllium, total	mg/L	0.0001	0.0002	0.00054	<0.00010	<0.00010
Total Metals	Bismuth, total	mg/L	0.0001	<0.00010	0.00013	<0.00010	<0.00010
Total Metals	Boron, total	mg/L	0.005	0.022	0.0244	0.254	0.0248
Total Metals	Cadmium, total	mg/L	0.00001	0.00002	0.000123	0.00068	<0.000010
Total Metals	Calcium, total	mg/L	0.2	66.4	98.2	854	56.3
Total Metals	Chromium, total	mg/L	0.0005	0.00795	0.0588	<0.00050	<0.00050
Total Metals	Cobalt, total	mg/L	0.0001	0.00549	0.0342	0.00703	<0.00010
Total Metals	Copper, total	mg/L	0.0004	0.0212	0.0938	0.00359	0.00092

CARO Analytical Services
FINAL Analytical Testing Report
Work Order: 8042064
Report Date: 2018-05-02 15:50:05

Client Allterra Construction
Attention Rahim Gaidhar
Project P17-932
Project Info [none]

Note: This is not the original data. Please refer to PDF / Hardcopy report.

LAB ID			8042064-06	8042064-07	8042064-08	8042064-09	
CLIENT ID			SB2	SB3	LE-1	SW1	
DATE SAMPLED			2018-04-24	2018-04-24	2018-04-24	2018-04-24	
DATE RECEIVED			2018-04-25	2018-04-25	2018-04-25	2018-04-25	
Total Metals	Iron, total	mg/L	0.01	8.48	38.7	0.023	<0.010
Total Metals	Lead, total	mg/L	0.0002	0.00259	0.0193	<0.00020	<0.00020
Total Metals	Lithium, total	mg/L	0.0001	0.00262	0.0163	0.00025	0.00014
Total Metals	Magnesium, total	mg/L	0.01	10.5	23.3	232	7.76
Total Metals	Manganese, total	mg/L	0.0002	0.294	0.749	33.8	0.00302
Total Metals	Mercury, total	mg/L	0.00001	<0.000010	0.000016	0.000011	<0.000010
Total Metals	Molybdenum, total	mg/L	0.0001	0.00081	0.00127	0.00106	0.00073
Total Metals	Nickel, total	mg/L	0.0004	0.00704	0.052	0.00762	<0.00040
Total Metals	Phosphorus, total	mg/L	0.05	0.229	0.815	<0.050	<0.050
Total Metals	Potassium, total	mg/L	0.1	2.28	2.62	19.8	0.69
Total Metals	Selenium, total	mg/L	0.0005	<0.00050	0.0011	<0.00050	<0.00050
Total Metals	Silicon, total	mg/L	1	19.5	49.9	5.9	4.5
Total Metals	Silver, total	mg/L	0.00005	<0.000050	0.000123	0.000051	<0.000050
Total Metals	Sodium, total	mg/L	0.1	16.6	9.44	1550	8.63
Total Metals	Strontium, total	mg/L	0.001	0.2	0.229	4.16	0.143
Total Metals	Sulfur, total	mg/L	3	11.2	43.9	626	25
Total Metals	Tellurium, total	mg/L	0.0005	<0.00050	<0.00050	<0.00050	<0.00050
Total Metals	Thallium, total	mg/L	0.00002	0.000032	0.000107	0.000052	<0.000020
Total Metals	Thorium, total	mg/L	0.0001	0.00027	0.00123	<0.00010	<0.00010
Total Metals	Tin, total	mg/L	0.0002	0.00023	0.00118	<0.00020	<0.00020
Total Metals	Titanium, total	mg/L	0.005	0.433	1.45	<0.0050	<0.0050
Total Metals	Tungsten, total	mg/L	0.001	<0.0010	<0.0010	<0.0010	<0.0010
Total Metals	Uranium, total	mg/L	0.00002	0.00108	0.00275	0.000366	0.000741
Total Metals	Vanadium, total	mg/L	0.001	0.0175	0.0837	<0.0010	<0.0010
Total Metals	Zinc, total	mg/L	0.004	0.0202	0.102	0.0203	<0.0040
Total Metals	Zirconium, total	mg/L	0.0001	0.00126	0.00217	0.0001	<0.00010
BCMOE Aggregate Hydrocarbons	EPHw10-19	ug/L	250	<250	<250	<250	<250
BCMOE Aggregate Hydrocarbons	EPHw19-32	ug/L	250	<250	<250	<250	<250
BCMOE Aggregate Hydrocarbons	LEPHw	ug/L	250	<250	<250	<250	<250
BCMOE Aggregate Hydrocarbons	HEPHw	ug/L	250	<250	<250	<250	<250
Polycyclic Aromatic Hydrocarbons (PAH)	Acenaphthene	ug/L	0.05	<0.050	<0.050	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons (PAH)	Acenaphthylene	ug/L	0.2	<0.200	<0.200	<0.200	<0.200
Polycyclic Aromatic Hydrocarbons (PAH)	Acridine	ug/L	0.05	<0.050	<0.050	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons (PAH)	Anthracene	ug/L	0.01	<0.010	<0.010	<0.010	<0.010
Polycyclic Aromatic Hydrocarbons (PAH)	Benz(a)anthracene	ug/L	0.01	<0.010	0.016	<0.010	<0.010

CARO Analytical Services
FINAL Analytical Testing Report
Work Order: 8042064
Report Date: 2018-05-02 15:50:05

Client Allterra Construction
Attention Rahim Gaidhar
Project P17-932
Project Info [none]

Note: This is not the original data. Please refer to PDF / Hardcopy report.

LAB ID			8042064-06	8042064-07	8042064-08	8042064-09
CLIENT ID			SB2	SB3	LE-1	SW1
DATE SAMPLED			2018-04-24	2018-04-24	2018-04-24	2018-04-24
DATE RECEIVED			2018-04-25	2018-04-25	2018-04-25	2018-04-25
Polycyclic Aromatic Hydrocarbons (PAH)	Benzo(a)pyrene	ug/L	0.01	0.016	0.023	<0.010
Polycyclic Aromatic Hydrocarbons (PAH)	Benzo(b+j)fluoranthene	ug/L	0.05	<0.050	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons (PAH)	Benzo(g,h,i)perylene	ug/L	0.05	<0.050	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons (PAH)	Benzo(k)fluoranthene	ug/L	0.05	<0.050	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons (PAH)	2-Chloronaphthalene	ug/L	0.1	<0.100	<0.100	<0.100
Polycyclic Aromatic Hydrocarbons (PAH)	Chrysene	ug/L	0.05	<0.050	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons (PAH)	Dibenz(a,h)anthracene	ug/L	0.01	0.022	<0.010	<0.010
Polycyclic Aromatic Hydrocarbons (PAH)	Fluoranthene	ug/L	0.03	<0.030	<0.030	<0.030
Polycyclic Aromatic Hydrocarbons (PAH)	Fluorene	ug/L	0.05	<0.050	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons (PAH)	Indeno(1,2,3-cd)pyrene	ug/L	0.05	<0.050	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons (PAH)	1-Methylnaphthalene	ug/L	0.1	<0.100	<0.100	<0.100
Polycyclic Aromatic Hydrocarbons (PAH)	2-Methylnaphthalene	ug/L	0.1	<0.100	<0.100	<0.100
Polycyclic Aromatic Hydrocarbons (PAH)	Naphthalene	ug/L	0.2	<0.200	<0.200	<0.200
Polycyclic Aromatic Hydrocarbons (PAH)	Phenanthrene	ug/L	0.1	<0.100	<0.100	<0.100
Polycyclic Aromatic Hydrocarbons (PAH)	Pyrene	ug/L	0.02	<0.020	0.028	<0.020
Polycyclic Aromatic Hydrocarbons (PAH)	Quinoline	ug/L	0.05	<0.050	<0.050	<0.050



CERTIFICATE OF ANALYSIS

REPORTED TO	Allterra Construction 2158 Millstream Road Victoria, BC V9B 6H4	WORK ORDER	8042064
ATTENTION	Rahim Gaidhar	RECEIVED / TEMP REPORTED	2018-04-25 10:45 / 16°C 2018-05-02 15:50
PO NUMBER	P15-06 SIRM	COC NUMBER	April 2018
PROJECT	P17-932		
PROJECT INFO			

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO 17025:2005 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



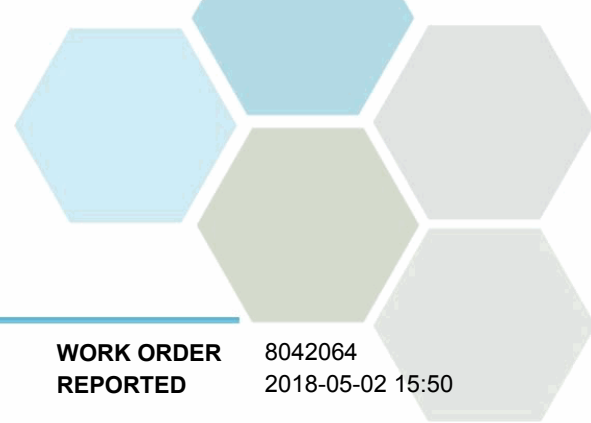
Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

If you have any questions or concerns, please contact me at bshaw@caro.ca

Authorized By:

Bryan Shaw, Ph.D., P.Chem.
Client Service Coordinator

1-888-311-8846 | www.caro.ca

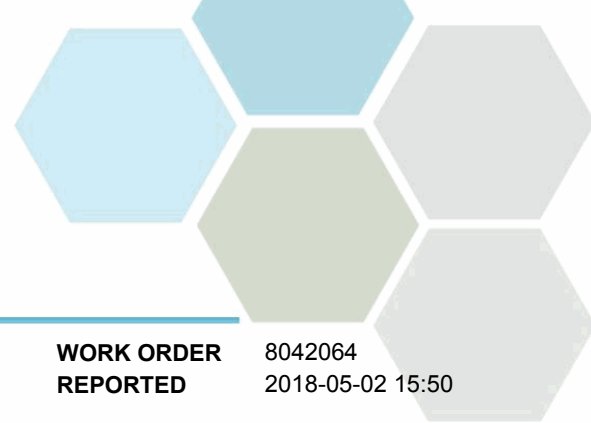


TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
MW6 (8042064-01) Matrix: Water Sampled: 2018-04-24 09:15					
Anions					
Chloride	37.6	0.10	mg/L	2018-04-26	
Fluoride	0.39	0.10	mg/L	2018-04-26	
Nitrate (as N)	0.051	0.010	mg/L	2018-04-26	
Nitrite (as N)	< 0.010	0.010	mg/L	2018-04-26	
Sulfate	88.0	1.0	mg/L	2018-04-26	
General Parameters					
Alkalinity, Total (as CaCO3)	608	1.0	mg/L	2018-04-26	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	1.0	mg/L	2018-04-26	
Alkalinity, Bicarbonate (as CaCO3)	608	1.0	mg/L	2018-04-26	
Alkalinity, Carbonate (as CaCO3)	< 1.0	1.0	mg/L	2018-04-26	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	1.0	mg/L	2018-04-26	
Colour, True	7.4	5.0	CU	2018-04-25	
Conductivity (EC)	1330	2.0	µS/cm	2018-04-26	
pH	7.33	0.10	pH units	2018-05-01	HT2
Solids, Total Suspended	9.0	2.0	mg/L	2018-05-01	
Turbidity	12.3	0.10	NTU	2018-04-27	
Calculated Parameters					
Hardness, Total (as CaCO3)	582	0.500	mg/L	N/A	
Dissolved Metals					
Aluminum, dissolved	< 0.0050	0.0050	mg/L	2018-04-26	
Antimony, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Arsenic, dissolved	0.00336	0.00050	mg/L	2018-04-26	
Barium, dissolved	0.0776	0.0050	mg/L	2018-04-26	
Beryllium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Bismuth, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Boron, dissolved	0.0830	0.0050	mg/L	2018-04-26	
Cadmium, dissolved	< 0.000010	0.000010	mg/L	2018-04-26	
Calcium, dissolved	174	0.20	mg/L	2018-04-26	
Chromium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Cobalt, dissolved	0.00199	0.00010	mg/L	2018-04-26	
Copper, dissolved	< 0.00040	0.00040	mg/L	2018-04-26	
Iron, dissolved	1.53	0.010	mg/L	2018-04-26	
Lead, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Lithium, dissolved	0.0121	0.00010	mg/L	2018-04-26	
Magnesium, dissolved	35.8	0.010	mg/L	2018-04-26	
Manganese, dissolved	1.99	0.00020	mg/L	2018-04-26	
Mercury, dissolved	< 0.000010	0.000010	mg/L	2018-04-30	
Molybdenum, dissolved	0.00069	0.00010	mg/L	2018-04-26	
Nickel, dissolved	0.00367	0.00040	mg/L	2018-04-26	
Phosphorus, dissolved	< 0.050	0.050	mg/L	2018-04-26	



TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
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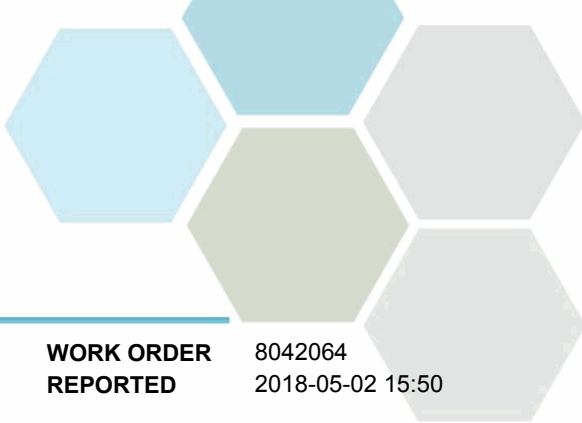
MW6 (8042064-01) | Matrix: Water | Sampled: 2018-04-24 09:15, Continued

Dissolved Metals, Continued

Potassium, dissolved	3.78	0.10	mg/L	2018-04-26	
Selenium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Silicon, dissolved	11.5	1.0	mg/L	2018-04-26	
Silver, dissolved	< 0.000050	0.000050	mg/L	2018-04-26	
Sodium, dissolved	65.0	0.10	mg/L	2018-04-26	
Strontium, dissolved	0.549	0.0010	mg/L	2018-04-26	
Sulfur, dissolved	24.4	3.0	mg/L	2018-04-26	
Tellurium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Thallium, dissolved	< 0.000020	0.000020	mg/L	2018-04-26	
Thorium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Tin, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Titanium, dissolved	< 0.0050	0.0050	mg/L	2018-04-26	
Tungsten, dissolved	< 0.0010	0.0010	mg/L	2018-04-26	
Uranium, dissolved	0.00737	0.000020	mg/L	2018-04-26	
Vanadium, dissolved	< 0.0010	0.0010	mg/L	2018-04-26	
Zinc, dissolved	< 0.0040	0.0040	mg/L	2018-04-26	
Zirconium, dissolved	0.00019	0.00010	mg/L	2018-04-26	

Total Metals

Aluminum, total	0.280	0.0050	mg/L	2018-04-26	
Antimony, total	< 0.00020	0.00020	mg/L	2018-04-26	
Arsenic, total	0.00342	0.00050	mg/L	2018-04-26	
Barium, total	0.0820	0.0050	mg/L	2018-04-26	
Beryllium, total	< 0.00010	0.00010	mg/L	2018-04-26	
Bismuth, total	< 0.00010	0.00010	mg/L	2018-04-26	
Boron, total	0.0817	0.0050	mg/L	2018-04-26	
Cadmium, total	0.000090	0.000010	mg/L	2018-04-26	
Calcium, total	175	0.20	mg/L	2018-04-26	
Chromium, total	0.00075	0.00050	mg/L	2018-04-26	
Cobalt, total	0.00213	0.00010	mg/L	2018-04-26	
Copper, total	0.00235	0.00040	mg/L	2018-04-26	
Iron, total	1.86	0.010	mg/L	2018-04-26	
Lead, total	0.00089	0.00020	mg/L	2018-04-26	
Lithium, total	0.0121	0.00010	mg/L	2018-04-26	
Magnesium, total	36.2	0.010	mg/L	2018-04-26	
Manganese, total	2.07	0.00020	mg/L	2018-04-26	
Mercury, total	< 0.000010	0.000010	mg/L	2018-04-30	
Molybdenum, total	0.00093	0.00010	mg/L	2018-04-26	
Nickel, total	0.00474	0.00040	mg/L	2018-04-26	
Phosphorus, total	< 0.050	0.050	mg/L	2018-04-26	
Potassium, total	3.80	0.10	mg/L	2018-04-26	
Selenium, total	< 0.00050	0.00050	mg/L	2018-04-26	
Silicon, total	11.5	1.0	mg/L	2018-04-26	



TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
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MW6 (8042064-01) | Matrix: Water | Sampled: 2018-04-24 09:15, Continued

Total Metals, Continued

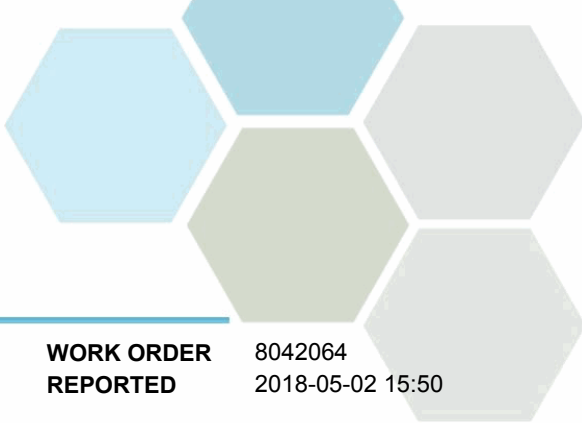
Silver, total	< 0.000050	0.000050	mg/L	2018-04-26	
Sodium, total	64.3	0.10	mg/L	2018-04-26	
Strontium, total	0.573	0.0010	mg/L	2018-04-26	
Sulfur, total	24.7	3.0	mg/L	2018-04-26	
Tellurium, total	< 0.00050	0.00050	mg/L	2018-04-26	
Thallium, total	0.000050	0.000020	mg/L	2018-04-26	
Thorium, total	< 0.00010	0.00010	mg/L	2018-04-26	
Tin, total	0.00073	0.00020	mg/L	2018-04-26	
Titanium, total	0.0140	0.0050	mg/L	2018-04-26	
Tungsten, total	< 0.0010	0.0010	mg/L	2018-04-26	
Uranium, total	0.00765	0.000020	mg/L	2018-04-26	
Vanadium, total	< 0.0010	0.0010	mg/L	2018-04-26	
Zinc, total	0.0080	0.0040	mg/L	2018-04-26	
Zirconium, total	0.00030	0.00010	mg/L	2018-04-26	

BCMOE Aggregate Hydrocarbons

EPHw10-19	< 250	250	µg/L	2018-04-28	
EPHw19-32	< 250	250	µg/L	2018-04-28	
LEPHw	< 250	250	µg/L	N/A	
HEPHw	< 250	250	µg/L	N/A	
Surrogate: 2-Methylnonane (EPH/F2-4)	81	60-140	%	2018-04-28	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	0.050	µg/L	2018-04-29	
Acenaphthylene	< 0.200	0.200	µg/L	2018-04-29	
Acridine	< 0.050	0.050	µg/L	2018-04-29	
Anthracene	< 0.010	0.010	µg/L	2018-04-29	
Benz(a)anthracene	< 0.010	0.010	µg/L	2018-04-29	
Benzo(a)pyrene	< 0.010	0.010	µg/L	2018-04-29	
Benzo(b+j)fluoranthene	< 0.050	0.050	µg/L	2018-04-29	
Benzo(g,h,i)perylene	< 0.050	0.050	µg/L	2018-04-29	
Benzo(k)fluoranthene	< 0.050	0.050	µg/L	2018-04-29	
2-Chloronaphthalene	< 0.100	0.100	µg/L	2018-04-29	
Chrysene	< 0.050	0.050	µg/L	2018-04-29	
Dibenz(a,h)anthracene	< 0.010	0.010	µg/L	2018-04-29	
Fluoranthene	< 0.030	0.030	µg/L	2018-04-29	
Fluorene	< 0.050	0.050	µg/L	2018-04-29	
Indeno(1,2,3-cd)pyrene	< 0.050	0.050	µg/L	2018-04-29	
1-Methylnaphthalene	< 0.100	0.100	µg/L	2018-04-29	
2-Methylnaphthalene	< 0.100	0.100	µg/L	2018-04-29	
Naphthalene	< 0.200	0.200	µg/L	2018-04-29	
Phenanthrene	< 0.100	0.100	µg/L	2018-04-29	
Pyrene	< 0.020	0.020	µg/L	2018-04-29	



TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
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MW6 (8042064-01) | Matrix: Water | Sampled: 2018-04-24 09:15, Continued

Polycyclic Aromatic Hydrocarbons (PAH), Continued

Quinoline	< 0.050	0.050	µg/L	2018-04-29	
Surrogate: Acridine-d9	85	50-140	%	2018-04-29	
Surrogate: Naphthalene-d8	82	50-140	%	2018-04-29	
Surrogate: Perylene-d12	86	50-140	%	2018-04-29	

MW3S (8042064-02) | Matrix: Water | Sampled: 2018-04-24 11:30

Anions

Chloride	9.87	0.10	mg/L	2018-04-26	
Fluoride	0.17	0.10	mg/L	2018-04-26	
Nitrate (as N)	< 0.010	0.010	mg/L	2018-04-26	
Nitrite (as N)	< 0.010	0.010	mg/L	2018-04-26	
Sulfate	42.7	1.0	mg/L	2018-04-26	

General Parameters

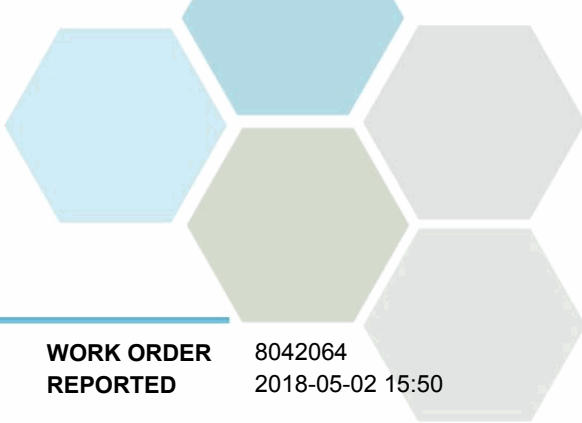
Alkalinity, Total (as CaCO3)	124	1.0	mg/L	2018-04-26	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	1.0	mg/L	2018-04-26	
Alkalinity, Bicarbonate (as CaCO3)	124	1.0	mg/L	2018-04-26	
Alkalinity, Carbonate (as CaCO3)	< 1.0	1.0	mg/L	2018-04-26	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	1.0	mg/L	2018-04-26	
Colour, True	16	5.0	CU	2018-04-25	
Conductivity (EC)	353	2.0	µS/cm	2018-04-26	
pH	7.73	0.10	pH units	2018-05-01	HT2
Solids, Total Suspended	13.8	2.0	mg/L	2018-05-01	
Turbidity	7.97	0.10	NTU	2018-04-27	

Calculated Parameters

Hardness, Total (as CaCO3)	146	0.500	mg/L	N/A	
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Dissolved Metals

Aluminum, dissolved	< 0.0050	0.0050	mg/L	2018-04-26	
Antimony, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Arsenic, dissolved	0.00088	0.00050	mg/L	2018-04-26	
Barium, dissolved	0.0268	0.0050	mg/L	2018-04-26	
Beryllium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Bismuth, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Boron, dissolved	0.0247	0.0050	mg/L	2018-04-26	
Cadmium, dissolved	0.000021	0.000010	mg/L	2018-04-26	
Calcium, dissolved	46.5	0.20	mg/L	2018-04-26	
Chromium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Cobalt, dissolved	0.00062	0.00010	mg/L	2018-04-26	
Copper, dissolved	< 0.00040	0.00040	mg/L	2018-04-26	
Iron, dissolved	0.035	0.010	mg/L	2018-04-26	



TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
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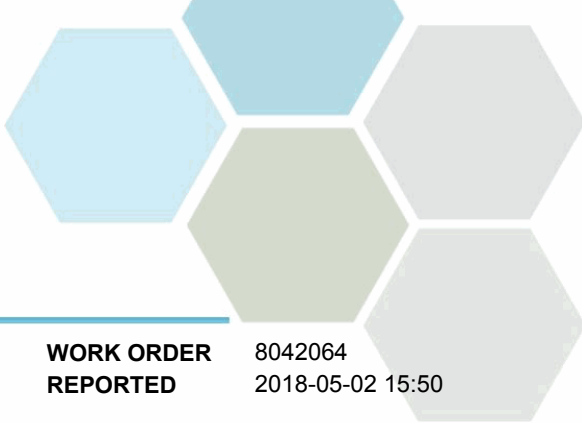
MW3S (8042064-02) | Matrix: Water | Sampled: 2018-04-24 11:30, Continued

Dissolved Metals, Continued

Lead, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Lithium, dissolved	0.00011	0.00010	mg/L	2018-04-26	
Magnesium, dissolved	7.18	0.010	mg/L	2018-04-26	
Manganese, dissolved	0.354	0.00020	mg/L	2018-04-26	
Mercury, dissolved	< 0.000010	0.000010	mg/L	2018-04-30	
Molybdenum, dissolved	0.00598	0.00010	mg/L	2018-04-26	
Nickel, dissolved	0.00136	0.00040	mg/L	2018-04-26	
Phosphorus, dissolved	0.052	0.050	mg/L	2018-04-26	
Potassium, dissolved	0.89	0.10	mg/L	2018-04-26	
Selenium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Silicon, dissolved	6.3	1.0	mg/L	2018-04-26	
Silver, dissolved	< 0.000050	0.000050	mg/L	2018-04-26	
Sodium, dissolved	13.3	0.10	mg/L	2018-04-26	
Strontium, dissolved	0.216	0.0010	mg/L	2018-04-26	
Sulfur, dissolved	13.3	3.0	mg/L	2018-04-26	
Tellurium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Thallium, dissolved	0.000023	0.000020	mg/L	2018-04-26	
Thorium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Tin, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Titanium, dissolved	< 0.0050	0.0050	mg/L	2018-04-26	
Tungsten, dissolved	< 0.0010	0.0010	mg/L	2018-04-26	
Uranium, dissolved	0.000988	0.000020	mg/L	2018-04-26	
Vanadium, dissolved	< 0.0010	0.0010	mg/L	2018-04-26	
Zinc, dissolved	< 0.0040	0.0040	mg/L	2018-04-26	
Zirconium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	

Total Metals

Aluminum, total	0.0772	0.0050	mg/L	2018-04-26	
Antimony, total	< 0.00020	0.00020	mg/L	2018-04-26	
Arsenic, total	0.00088	0.00050	mg/L	2018-04-26	
Barium, total	0.0296	0.0050	mg/L	2018-04-26	
Beryllium, total	< 0.00010	0.00010	mg/L	2018-04-26	
Bismuth, total	< 0.00010	0.00010	mg/L	2018-04-26	
Boron, total	0.0266	0.0050	mg/L	2018-04-26	
Cadmium, total	0.000217	0.000010	mg/L	2018-04-26	
Calcium, total	46.1	0.20	mg/L	2018-04-26	
Chromium, total	< 0.00050	0.00050	mg/L	2018-04-26	
Cobalt, total	0.00069	0.00010	mg/L	2018-04-26	
Copper, total	0.00042	0.00040	mg/L	2018-04-26	
Iron, total	0.110	0.010	mg/L	2018-04-26	
Lead, total	< 0.00020	0.00020	mg/L	2018-04-26	
Lithium, total	0.00013	0.00010	mg/L	2018-04-26	
Magnesium, total	7.19	0.010	mg/L	2018-04-26	



TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
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MW3S (8042064-02) | Matrix: Water | Sampled: 2018-04-24 11:30, Continued

Total Metals, Continued

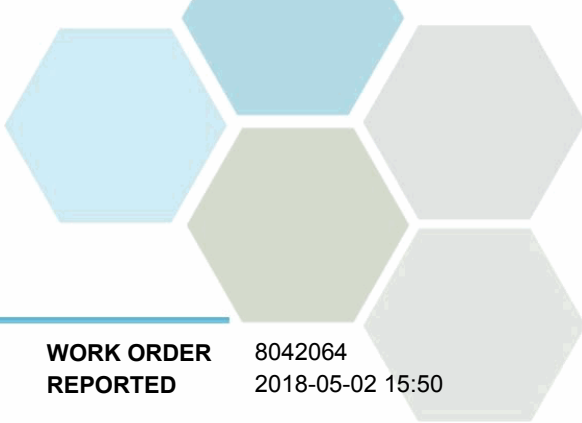
Manganese, total	0.359	0.00020	mg/L	2018-04-26	
Mercury, total	< 0.000010	0.000010	mg/L	2018-04-30	
Molybdenum, total	0.00626	0.00010	mg/L	2018-04-26	
Nickel, total	0.00146	0.00040	mg/L	2018-04-26	
Phosphorus, total	0.072	0.050	mg/L	2018-04-26	
Potassium, total	0.88	0.10	mg/L	2018-04-26	
Selenium, total	< 0.00050	0.00050	mg/L	2018-04-26	
Silicon, total	6.3	1.0	mg/L	2018-04-26	
Silver, total	< 0.000050	0.000050	mg/L	2018-04-26	
Sodium, total	13.1	0.10	mg/L	2018-04-26	
Strontium, total	0.224	0.0010	mg/L	2018-04-26	
Sulfur, total	13.1	3.0	mg/L	2018-04-26	
Tellurium, total	< 0.00050	0.00050	mg/L	2018-04-26	
Thallium, total	0.000026	0.000020	mg/L	2018-04-26	
Thorium, total	< 0.00010	0.00010	mg/L	2018-04-26	
Tin, total	0.00021	0.00020	mg/L	2018-04-26	
Titanium, total	< 0.0050	0.0050	mg/L	2018-04-26	
Tungsten, total	< 0.0010	0.0010	mg/L	2018-04-26	
Uranium, total	0.00105	0.000020	mg/L	2018-04-26	
Vanadium, total	< 0.0010	0.0010	mg/L	2018-04-26	
Zinc, total	< 0.0040	0.0040	mg/L	2018-04-26	
Zirconium, total	0.00014	0.00010	mg/L	2018-04-26	

BCMOE Aggregate Hydrocarbons

EPHw10-19	< 250	250	µg/L	2018-04-28	
EPHw19-32	< 250	250	µg/L	2018-04-28	
LEPHw	< 250	250	µg/L	N/A	
HEPHw	< 250	250	µg/L	N/A	
Surrogate: 2-Methylnonane (EPH/F2-4)	86	60-140	%	2018-04-28	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	0.050	µg/L	2018-04-29	
Acenaphthylene	< 0.200	0.200	µg/L	2018-04-29	
Acridine	< 0.050	0.050	µg/L	2018-04-29	
Anthracene	< 0.010	0.010	µg/L	2018-04-29	
Benz(a)anthracene	< 0.010	0.010	µg/L	2018-04-29	
Benzo(a)pyrene	< 0.010	0.010	µg/L	2018-04-29	
Benzo(b+j)fluoranthene	< 0.050	0.050	µg/L	2018-04-29	
Benzo(g,h,i)perylene	< 0.050	0.050	µg/L	2018-04-29	
Benzo(k)fluoranthene	< 0.050	0.050	µg/L	2018-04-29	
2-Chloronaphthalene	< 0.100	0.100	µg/L	2018-04-29	
Chrysene	< 0.050	0.050	µg/L	2018-04-29	
Dibenz(a,h)anthracene	< 0.010	0.010	µg/L	2018-04-29	



TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
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MW3S (8042064-02) | Matrix: Water | Sampled: 2018-04-24 11:30, Continued

Polycyclic Aromatic Hydrocarbons (PAH), Continued

Fluoranthene	< 0.030	0.030	µg/L	2018-04-29	
Fluorene	< 0.050	0.050	µg/L	2018-04-29	
Indeno(1,2,3-cd)pyrene	< 0.050	0.050	µg/L	2018-04-29	
1-Methylnaphthalene	< 0.100	0.100	µg/L	2018-04-29	
2-Methylnaphthalene	< 0.100	0.100	µg/L	2018-04-29	
Naphthalene	< 0.200	0.200	µg/L	2018-04-29	
Phenanthrene	< 0.100	0.100	µg/L	2018-04-29	
Pyrene	< 0.020	0.020	µg/L	2018-04-29	
Quinoline	< 0.050	0.050	µg/L	2018-04-29	
Surrogate: Acridine-d9	85	50-140	%	2018-04-29	
Surrogate: Naphthalene-d8	85	50-140	%	2018-04-29	
Surrogate: Perylene-d12	95	50-140	%	2018-04-29	

MW3D (8042064-03) | Matrix: Water | Sampled: 2018-04-24 12:00

Anions

Chloride	3.24	0.10	mg/L	2018-04-26	
Fluoride	0.29	0.10	mg/L	2018-04-26	
Nitrate (as N)	0.018	0.010	mg/L	2018-04-26	
Nitrite (as N)	< 0.010	0.010	mg/L	2018-04-26	
Sulfate	22.2	1.0	mg/L	2018-04-26	

General Parameters

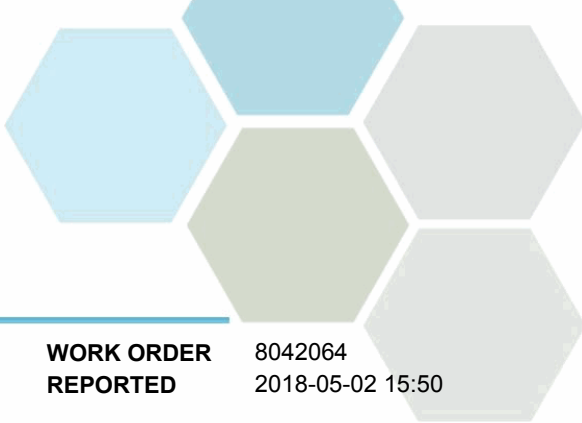
Alkalinity, Total (as CaCO3)	102	1.0	mg/L	2018-04-26	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	1.0	mg/L	2018-04-26	
Alkalinity, Bicarbonate (as CaCO3)	102	1.0	mg/L	2018-04-26	
Alkalinity, Carbonate (as CaCO3)	< 1.0	1.0	mg/L	2018-04-26	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	1.0	mg/L	2018-04-26	
Colour, True	5.7	5.0	CU	2018-04-25	
Conductivity (EC)	249	2.0	µS/cm	2018-04-26	
pH	7.78	0.10	pH units	2018-05-01	HT2
Solids, Total Suspended	8.6	2.0	mg/L	2018-05-01	
Turbidity	7.63	0.10	NTU	2018-04-27	

Calculated Parameters

Hardness, Total (as CaCO3)	101	0.500	mg/L	N/A	
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Dissolved Metals

Aluminum, dissolved	< 0.0050	0.0050	mg/L	2018-04-26	
Antimony, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Arsenic, dissolved	0.00123	0.00050	mg/L	2018-04-26	
Barium, dissolved	0.0177	0.0050	mg/L	2018-04-26	
Beryllium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	



TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
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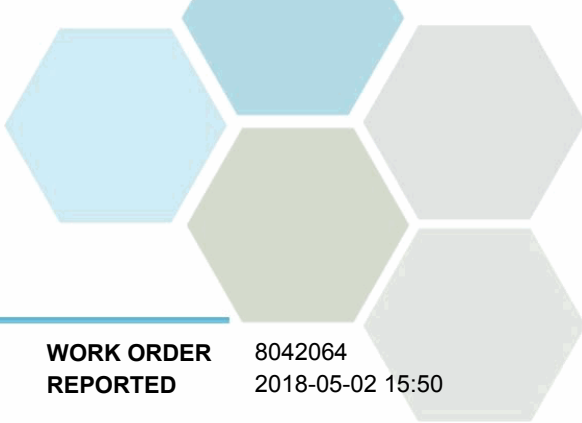
MW3D (8042064-03) | Matrix: Water | Sampled: 2018-04-24 12:00, Continued

Dissolved Metals, Continued

Bismuth, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Boron, dissolved	0.0257	0.0050	mg/L	2018-04-26	
Cadmium, dissolved	< 0.000010	0.000010	mg/L	2018-04-26	
Calcium, dissolved	31.6	0.20	mg/L	2018-04-26	
Chromium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Cobalt, dissolved	0.00035	0.00010	mg/L	2018-04-26	
Copper, dissolved	< 0.00040	0.00040	mg/L	2018-04-26	
Iron, dissolved	0.081	0.010	mg/L	2018-04-26	
Lead, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Lithium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Magnesium, dissolved	5.28	0.010	mg/L	2018-04-26	
Manganese, dissolved	0.278	0.00020	mg/L	2018-04-26	
Mercury, dissolved	< 0.000010	0.000010	mg/L	2018-04-30	
Molybdenum, dissolved	0.00637	0.00010	mg/L	2018-04-26	
Nickel, dissolved	0.00124	0.00040	mg/L	2018-04-26	
Phosphorus, dissolved	0.077	0.050	mg/L	2018-04-26	
Potassium, dissolved	0.62	0.10	mg/L	2018-04-26	
Selenium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Silicon, dissolved	6.0	1.0	mg/L	2018-04-26	
Silver, dissolved	< 0.000050	0.000050	mg/L	2018-04-26	
Sodium, dissolved	10.6	0.10	mg/L	2018-04-26	
Strontium, dissolved	0.175	0.0010	mg/L	2018-04-26	
Sulfur, dissolved	6.8	3.0	mg/L	2018-04-26	
Tellurium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Thallium, dissolved	< 0.000020	0.000020	mg/L	2018-04-26	
Thorium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Tin, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Titanium, dissolved	< 0.0050	0.0050	mg/L	2018-04-26	
Tungsten, dissolved	< 0.0010	0.0010	mg/L	2018-04-26	
Uranium, dissolved	0.000610	0.000020	mg/L	2018-04-26	
Vanadium, dissolved	< 0.0010	0.0010	mg/L	2018-04-26	
Zinc, dissolved	< 0.0040	0.0040	mg/L	2018-04-26	
Zirconium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	

Total Metals

Aluminum, total	0.0803	0.0050	mg/L	2018-04-26	
Antimony, total	< 0.00020	0.00020	mg/L	2018-04-26	
Arsenic, total	0.00121	0.00050	mg/L	2018-04-26	
Barium, total	0.0208	0.0050	mg/L	2018-04-26	
Beryllium, total	< 0.00010	0.00010	mg/L	2018-04-26	
Bismuth, total	< 0.00010	0.00010	mg/L	2018-04-26	
Boron, total	0.0274	0.0050	mg/L	2018-04-26	
Cadmium, total	0.000131	0.000010	mg/L	2018-04-26	



TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
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MW3D (8042064-03) | Matrix: Water | Sampled: 2018-04-24 12:00, Continued

Total Metals, Continued

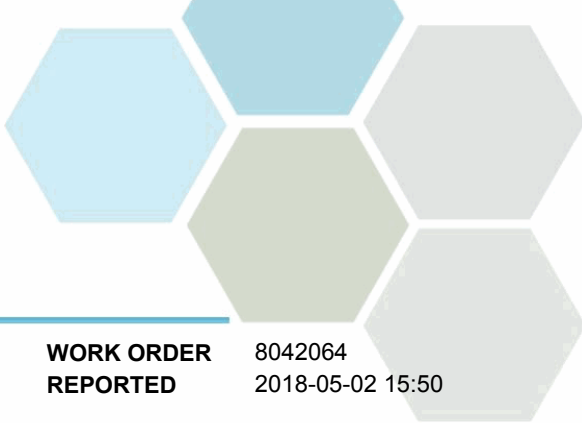
Calcium, total	31.7	0.20	mg/L	2018-04-26	
Chromium, total	< 0.00050	0.00050	mg/L	2018-04-26	
Cobalt, total	0.00040	0.00010	mg/L	2018-04-26	
Copper, total	0.00257	0.00040	mg/L	2018-04-26	
Iron, total	0.137	0.010	mg/L	2018-04-26	
Lead, total	< 0.00020	0.00020	mg/L	2018-04-26	
Lithium, total	< 0.00010	0.00010	mg/L	2018-04-26	
Magnesium, total	5.41	0.010	mg/L	2018-04-26	
Manganese, total	0.295	0.00020	mg/L	2018-04-26	
Mercury, total	< 0.000010	0.000010	mg/L	2018-04-30	
Molybdenum, total	0.00668	0.00010	mg/L	2018-04-26	
Nickel, total	0.00141	0.00040	mg/L	2018-04-26	
Phosphorus, total	0.096	0.050	mg/L	2018-04-26	
Potassium, total	0.61	0.10	mg/L	2018-04-26	
Selenium, total	< 0.00050	0.00050	mg/L	2018-04-26	
Silicon, total	6.0	1.0	mg/L	2018-04-26	
Silver, total	< 0.000050	0.000050	mg/L	2018-04-26	
Sodium, total	10.5	0.10	mg/L	2018-04-26	
Strontium, total	0.193	0.0010	mg/L	2018-04-26	
Sulfur, total	7.8	3.0	mg/L	2018-04-26	
Tellurium, total	< 0.00050	0.00050	mg/L	2018-04-26	
Thallium, total	< 0.000020	0.000020	mg/L	2018-04-26	
Thorium, total	0.00015	0.00010	mg/L	2018-04-26	
Tin, total	< 0.00020	0.00020	mg/L	2018-04-26	
Titanium, total	< 0.0050	0.0050	mg/L	2018-04-26	
Tungsten, total	< 0.0010	0.0010	mg/L	2018-04-26	
Uranium, total	0.000739	0.000020	mg/L	2018-04-26	
Vanadium, total	< 0.0010	0.0010	mg/L	2018-04-26	
Zinc, total	0.0043	0.0040	mg/L	2018-04-26	
Zirconium, total	0.00016	0.00010	mg/L	2018-04-26	

BCMOE Aggregate Hydrocarbons

EPHw10-19	< 250	250	µg/L	2018-04-28	
EPHw19-32	< 250	250	µg/L	2018-04-28	
LEPHw	< 250	250	µg/L	N/A	
HEPHw	< 250	250	µg/L	N/A	
Surrogate: 2-Methylnonane (EPH/F2-4)	89	60-140	%	2018-04-28	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	0.050	µg/L	2018-04-29	
Acenaphthylene	< 0.200	0.200	µg/L	2018-04-29	
Acridine	< 0.050	0.050	µg/L	2018-04-29	
Anthracene	< 0.010	0.010	µg/L	2018-04-29	



TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
MW3D (8042064-03) Matrix: Water Sampled: 2018-04-24 12:00, Continued					
<i>Polycyclic Aromatic Hydrocarbons (PAH), Continued</i>					
Benz(a)anthracene	< 0.010	0.010	µg/L	2018-04-29	
Benzo(a)pyrene	< 0.010	0.010	µg/L	2018-04-29	
Benzo(b+j)fluoranthene	< 0.050	0.050	µg/L	2018-04-29	
Benzo(g,h,i)perylene	< 0.050	0.050	µg/L	2018-04-29	
Benzo(k)fluoranthene	< 0.050	0.050	µg/L	2018-04-29	
2-Chloronaphthalene	< 0.100	0.100	µg/L	2018-04-29	
Chrysene	< 0.050	0.050	µg/L	2018-04-29	
Dibenz(a,h)anthracene	< 0.010	0.010	µg/L	2018-04-29	
Fluoranthene	< 0.030	0.030	µg/L	2018-04-29	
Fluorene	< 0.050	0.050	µg/L	2018-04-29	
Indeno(1,2,3-cd)pyrene	< 0.050	0.050	µg/L	2018-04-29	
1-Methylnaphthalene	< 0.100	0.100	µg/L	2018-04-29	
2-Methylnaphthalene	< 0.100	0.100	µg/L	2018-04-29	
Naphthalene	< 0.200	0.200	µg/L	2018-04-29	
Phenanthrene	< 0.100	0.100	µg/L	2018-04-29	
Pyrene	< 0.020	0.020	µg/L	2018-04-29	
Quinoline	< 0.050	0.050	µg/L	2018-04-29	
Surrogate: Acridine-d9	83	50-140	%	2018-04-29	
Surrogate: Naphthalene-d8	84	50-140	%	2018-04-29	
Surrogate: Perylene-d12	89	50-140	%	2018-04-29	

MW2 (8042064-04) | Matrix: Water | Sampled: 2018-04-24 05:13

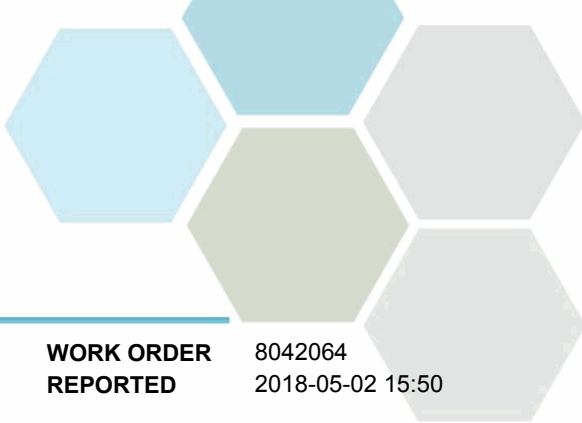
Anions

Chloride	6.36	0.10	mg/L	2018-04-26	
Fluoride	0.24	0.10	mg/L	2018-04-26	
Nitrate (as N)	< 0.010	0.010	mg/L	2018-04-26	
Nitrite (as N)	< 0.010	0.010	mg/L	2018-04-26	
Sulfate	18.7	1.0	mg/L	2018-04-26	

General Parameters

Alkalinity, Total (as CaCO3)	120	1.0	mg/L	2018-04-26	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	1.0	mg/L	2018-04-26	
Alkalinity, Bicarbonate (as CaCO3)	120	1.0	mg/L	2018-04-26	
Alkalinity, Carbonate (as CaCO3)	< 1.0	1.0	mg/L	2018-04-26	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	1.0	mg/L	2018-04-26	
Colour, True	14	5.0	CU	2018-04-25	
Conductivity (EC)	286	2.0	µS/cm	2018-04-26	
pH	7.71	0.10	pH units	2018-05-01	HT2
Solids, Total Suspended	34.6	2.0	mg/L	2018-05-01	
Turbidity	27.8	0.10	NTU	2018-04-27	

Calculated Parameters



TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
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MW2 (8042064-04) | Matrix: Water | Sampled: 2018-04-24 05:13, Continued

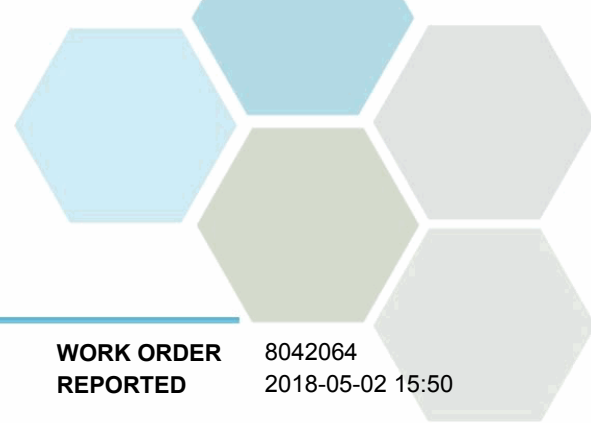
Calculated Parameters, Continued

Hardness, Total (as CaCO3)	125	0.500	mg/L	N/A	
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Dissolved Metals

Aluminum, dissolved	0.0069	0.0050	mg/L	2018-04-26	
Antimony, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Arsenic, dissolved	0.00199	0.00050	mg/L	2018-04-26	
Barium, dissolved	0.0290	0.0050	mg/L	2018-04-26	
Beryllium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Bismuth, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Boron, dissolved	0.0254	0.0050	mg/L	2018-04-26	
Cadmium, dissolved	< 0.000010	0.000010	mg/L	2018-04-26	
Calcium, dissolved	38.2	0.20	mg/L	2018-04-26	
Chromium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Cobalt, dissolved	0.00036	0.00010	mg/L	2018-04-26	
Copper, dissolved	< 0.00040	0.00040	mg/L	2018-04-26	
Iron, dissolved	0.228	0.010	mg/L	2018-04-26	
Lead, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Lithium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Magnesium, dissolved	7.09	0.010	mg/L	2018-04-26	
Manganese, dissolved	0.434	0.00020	mg/L	2018-04-26	
Mercury, dissolved	< 0.000010	0.000010	mg/L	2018-04-30	
Molybdenum, dissolved	0.00401	0.00010	mg/L	2018-04-26	
Nickel, dissolved	0.00081	0.00040	mg/L	2018-04-26	
Phosphorus, dissolved	0.137	0.050	mg/L	2018-04-26	
Potassium, dissolved	0.70	0.10	mg/L	2018-04-26	
Selenium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Silicon, dissolved	6.7	1.0	mg/L	2018-04-26	
Silver, dissolved	< 0.000050	0.000050	mg/L	2018-04-26	
Sodium, dissolved	9.22	0.10	mg/L	2018-04-26	
Strontium, dissolved	0.156	0.0010	mg/L	2018-04-26	
Sulfur, dissolved	5.9	3.0	mg/L	2018-04-26	
Tellurium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Thallium, dissolved	< 0.000020	0.000020	mg/L	2018-04-26	
Thorium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Tin, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Titanium, dissolved	< 0.0050	0.0050	mg/L	2018-04-26	
Tungsten, dissolved	< 0.0010	0.0010	mg/L	2018-04-26	
Uranium, dissolved	0.000802	0.000020	mg/L	2018-04-26	
Vanadium, dissolved	< 0.0010	0.0010	mg/L	2018-04-26	
Zinc, dissolved	< 0.0040	0.0040	mg/L	2018-04-26	
Zirconium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	

Total Metals



TEST RESULTS

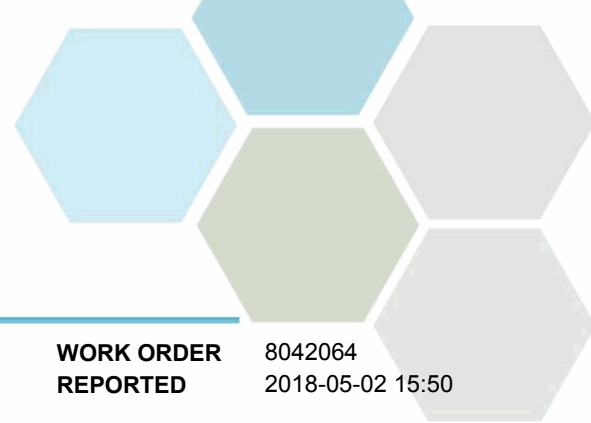
REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
MW2 (8042064-04) Matrix: Water Sampled: 2018-04-24 05:13, Continued					
<i>Total Metals, Continued</i>					
Aluminum, total	0.805	0.0050	mg/L	2018-04-26	
Antimony, total	< 0.00020	0.00020	mg/L	2018-04-26	
Arsenic, total	0.00199	0.00050	mg/L	2018-04-26	
Barium, total	0.0348	0.0050	mg/L	2018-04-26	
Beryllium, total	< 0.00010	0.00010	mg/L	2018-04-26	
Bismuth, total	< 0.00010	0.00010	mg/L	2018-04-26	
Boron, total	0.0273	0.0050	mg/L	2018-04-26	
Cadmium, total	0.000037	0.000010	mg/L	2018-04-26	
Calcium, total	40.4	0.20	mg/L	2018-04-26	
Chromium, total	0.00111	0.00050	mg/L	2018-04-26	
Cobalt, total	0.00086	0.00010	mg/L	2018-04-26	
Copper, total	0.00199	0.00040	mg/L	2018-04-26	
Iron, total	1.37	0.010	mg/L	2018-04-26	
Lead, total	0.00040	0.00020	mg/L	2018-04-26	
Lithium, total	0.00020	0.00010	mg/L	2018-04-26	
Magnesium, total	7.92	0.010	mg/L	2018-04-26	
Manganese, total	0.477	0.00020	mg/L	2018-04-26	
Mercury, total	< 0.000010	0.000010	mg/L	2018-04-30	
Molybdenum, total	0.00418	0.00010	mg/L	2018-04-26	
Nickel, total	0.00154	0.00040	mg/L	2018-04-26	
Phosphorus, total	0.199	0.050	mg/L	2018-04-26	
Potassium, total	0.77	0.10	mg/L	2018-04-26	
Selenium, total	< 0.00050	0.00050	mg/L	2018-04-26	
Silicon, total	8.0	1.0	mg/L	2018-04-26	
Silver, total	< 0.000050	0.000050	mg/L	2018-04-26	
Sodium, total	9.56	0.10	mg/L	2018-04-26	
Strontium, total	0.172	0.0010	mg/L	2018-04-26	
Sulfur, total	6.1	3.0	mg/L	2018-04-26	
Tellurium, total	< 0.00050	0.00050	mg/L	2018-04-26	
Thallium, total	< 0.000020	0.000020	mg/L	2018-04-26	
Thorium, total	0.00011	0.00010	mg/L	2018-04-26	
Tin, total	< 0.00020	0.00020	mg/L	2018-04-26	
Titanium, total	0.0486	0.0050	mg/L	2018-04-26	
Tungsten, total	< 0.0010	0.0010	mg/L	2018-04-26	
Uranium, total	0.000928	0.000020	mg/L	2018-04-26	
Vanadium, total	0.0031	0.0010	mg/L	2018-04-26	
Zinc, total	0.0042	0.0040	mg/L	2018-04-26	
Zirconium, total	0.00019	0.00010	mg/L	2018-04-26	

BCMOE Aggregate Hydrocarbons

EPHw10-19	< 250	250	µg/L	2018-05-02	
EPHw19-32	< 250	250	µg/L	2018-05-02	
LEPHw	< 250	250	µg/L	N/A	



TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
MW2 (8042064-04) Matrix: Water Sampled: 2018-04-24 05:13, Continued					
BCMOE Aggregate Hydrocarbons, Continued					
HEPHw	< 250	250	µg/L	N/A	
Surrogate: 2-Methylnonane (EPH/F2-4)	85	60-140	%	2018-05-02	
Polycyclic Aromatic Hydrocarbons (PAH)					
Acenaphthene	< 0.050	0.050	µg/L	2018-05-02	
Acenaphthylene	< 0.200	0.200	µg/L	2018-05-02	
Acridine	< 0.050	0.050	µg/L	2018-05-02	
Anthracene	< 0.010	0.010	µg/L	2018-05-02	
Benz(a)anthracene	< 0.010	0.010	µg/L	2018-05-02	
Benzo(a)pyrene	< 0.010	0.010	µg/L	2018-05-02	
Benzo(b+j)fluoranthene	< 0.050	0.050	µg/L	2018-05-02	
Benzo(g,h,i)perylene	< 0.050	0.050	µg/L	2018-05-02	
Benzo(k)fluoranthene	< 0.050	0.050	µg/L	2018-05-02	
2-Chloronaphthalene	< 0.100	0.100	µg/L	2018-05-02	
Chrysene	< 0.050	0.050	µg/L	2018-05-02	
Dibenz(a,h)anthracene	< 0.010	0.010	µg/L	2018-05-02	
Fluoranthene	< 0.030	0.030	µg/L	2018-05-02	
Fluorene	< 0.050	0.050	µg/L	2018-05-02	
Indeno(1,2,3-cd)pyrene	< 0.050	0.050	µg/L	2018-05-02	
1-Methylnaphthalene	< 0.100	0.100	µg/L	2018-05-02	
2-Methylnaphthalene	< 0.100	0.100	µg/L	2018-05-02	
Naphthalene	< 0.200	0.200	µg/L	2018-05-02	
Phenanthrene	< 0.100	0.100	µg/L	2018-05-02	
Pyrene	< 0.020	0.020	µg/L	2018-05-02	
Quinoline	< 0.050	0.050	µg/L	2018-05-02	
Surrogate: Acridine-d9	92	50-140	%	2018-05-02	
Surrogate: Naphthalene-d8	94	50-140	%	2018-05-02	
Surrogate: Perylene-d12	103	50-140	%	2018-05-02	

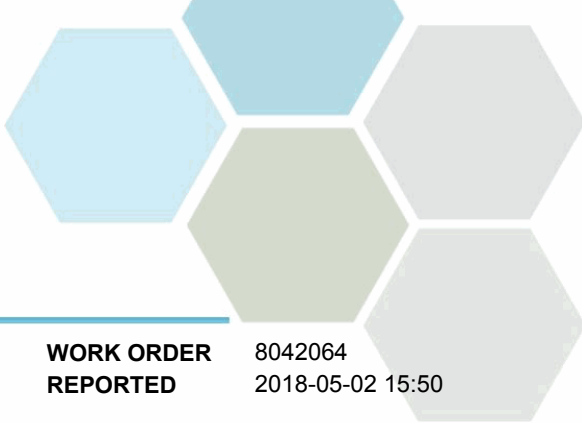
SB1 (8042064-05) | Matrix: Water | Sampled: 2018-04-24 10:50

Anions

Chloride	2.87	0.10	mg/L	2018-04-26	
Fluoride	0.12	0.10	mg/L	2018-04-26	
Nitrate (as N)	0.182	0.010	mg/L	2018-04-26	
Nitrite (as N)	< 0.010	0.010	mg/L	2018-04-26	
Sulfate	33.9	1.0	mg/L	2018-04-26	

General Parameters

Alkalinity, Total (as CaCO3)	73.4	1.0	mg/L	2018-04-29	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	1.0	mg/L	2018-04-29	
Alkalinity, Bicarbonate (as CaCO3)	73.4	1.0	mg/L	2018-04-29	
Alkalinity, Carbonate (as CaCO3)	< 1.0	1.0	mg/L	2018-04-29	



TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

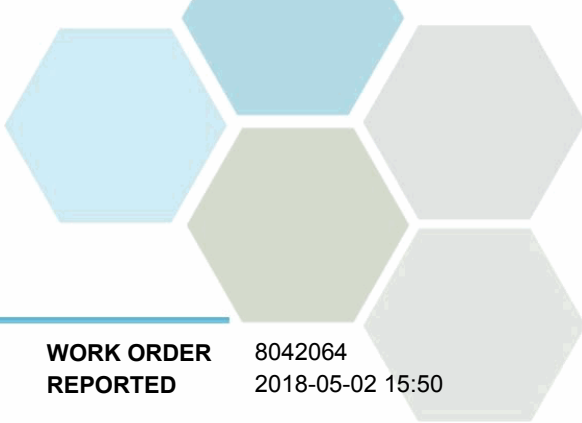
Analyte	Result	RL	Units	Analyzed	Qualifier
SB1 (8042064-05) Matrix: Water Sampled: 2018-04-24 10:50, Continued					
<i>General Parameters, Continued</i>					
Alkalinity, Hydroxide (as CaCO3)	< 1.0	1.0	mg/L	2018-04-29	
Colour, True	< 5.0	5.0	CU	2018-04-25	
Conductivity (EC)	224	2.0	µS/cm	2018-04-26	
pH	7.39	0.10	pH units	2018-05-01	HT2
Solids, Total Suspended	122	2.0	mg/L	2018-05-01	
Turbidity	90.5	0.10	NTU	2018-04-27	

Calculated Parameters

Hardness, Total (as CaCO3)	92.5	0.500	mg/L	N/A	
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Dissolved Metals

Aluminum, dissolved	< 0.0050	0.0050	mg/L	2018-04-26	
Antimony, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Arsenic, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Barium, dissolved	< 0.0050	0.0050	mg/L	2018-04-26	
Beryllium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Bismuth, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Boron, dissolved	0.0085	0.0050	mg/L	2018-04-26	
Cadmium, dissolved	< 0.000010	0.000010	mg/L	2018-04-26	
Calcium, dissolved	32.6	0.20	mg/L	2018-04-26	
Chromium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Cobalt, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Copper, dissolved	0.00044	0.00040	mg/L	2018-04-26	
Iron, dissolved	< 0.010	0.010	mg/L	2018-04-26	
Lead, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Lithium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Magnesium, dissolved	2.64	0.010	mg/L	2018-04-26	
Manganese, dissolved	0.00056	0.00020	mg/L	2018-04-26	
Mercury, dissolved	< 0.000010	0.000010	mg/L	2018-04-30	
Molybdenum, dissolved	0.00034	0.00010	mg/L	2018-04-26	
Nickel, dissolved	0.00131	0.00040	mg/L	2018-04-26	
Phosphorus, dissolved	< 0.050	0.050	mg/L	2018-04-26	
Potassium, dissolved	0.27	0.10	mg/L	2018-04-26	
Selenium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Silicon, dissolved	3.1	1.0	mg/L	2018-04-26	
Silver, dissolved	< 0.000050	0.000050	mg/L	2018-04-26	
Sodium, dissolved	2.82	0.10	mg/L	2018-04-26	
Strontium, dissolved	0.0700	0.0010	mg/L	2018-04-26	
Sulfur, dissolved	10.4	3.0	mg/L	2018-04-26	
Tellurium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Thallium, dissolved	< 0.000020	0.000020	mg/L	2018-04-26	
Thorium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Tin, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	



TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
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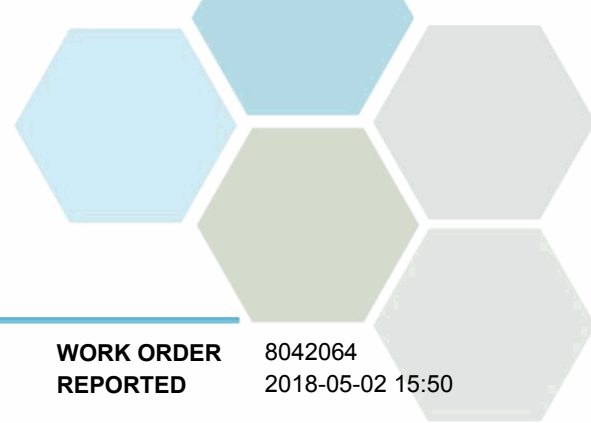
SB1 (8042064-05) | Matrix: Water | Sampled: 2018-04-24 10:50, Continued

Dissolved Metals, Continued

Titanium, dissolved	< 0.0050	0.0050	mg/L	2018-04-26	
Tungsten, dissolved	< 0.0010	0.0010	mg/L	2018-04-26	
Uranium, dissolved	0.000241	0.000020	mg/L	2018-04-26	
Vanadium, dissolved	< 0.0010	0.0010	mg/L	2018-04-26	
Zinc, dissolved	< 0.0040	0.0040	mg/L	2018-04-26	
Zirconium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	

Total Metals

Aluminum, total	4.93	0.0050	mg/L	2018-04-26	
Antimony, total	0.00020	0.00020	mg/L	2018-04-26	
Arsenic, total	0.00060	0.00050	mg/L	2018-04-26	
Barium, total	0.0297	0.0050	mg/L	2018-04-26	
Beryllium, total	0.00010	0.00010	mg/L	2018-04-26	
Bismuth, total	< 0.00010	0.00010	mg/L	2018-04-26	
Boron, total	0.0119	0.0050	mg/L	2018-04-26	
Cadmium, total	0.000023	0.000010	mg/L	2018-04-26	
Calcium, total	37.3	0.20	mg/L	2018-04-26	
Chromium, total	0.00618	0.00050	mg/L	2018-04-26	
Cobalt, total	0.00520	0.00010	mg/L	2018-04-26	
Copper, total	0.0135	0.00040	mg/L	2018-04-26	
Iron, total	5.64	0.010	mg/L	2018-04-26	
Lead, total	0.00548	0.00020	mg/L	2018-04-26	
Lithium, total	0.00163	0.00010	mg/L	2018-04-26	
Magnesium, total	4.62	0.010	mg/L	2018-04-26	
Manganese, total	0.157	0.00020	mg/L	2018-04-26	
Mercury, total	< 0.000010	0.000010	mg/L	2018-04-30	
Molybdenum, total	0.00045	0.00010	mg/L	2018-04-26	
Nickel, total	0.00663	0.00040	mg/L	2018-04-26	
Phosphorus, total	0.140	0.050	mg/L	2018-04-26	
Potassium, total	0.65	0.10	mg/L	2018-04-26	
Selenium, total	< 0.00050	0.00050	mg/L	2018-04-26	
Silicon, total	10.2	1.0	mg/L	2018-04-26	
Silver, total	< 0.000050	0.000050	mg/L	2018-04-26	
Sodium, total	3.31	0.10	mg/L	2018-04-26	
Strontium, total	0.0859	0.0010	mg/L	2018-04-26	
Sulfur, total	10.3	3.0	mg/L	2018-04-26	
Tellurium, total	< 0.00050	0.00050	mg/L	2018-04-26	
Thallium, total	< 0.000020	0.000020	mg/L	2018-04-26	
Thorium, total	< 0.00010	0.00010	mg/L	2018-04-26	
Tin, total	0.00041	0.00020	mg/L	2018-04-26	
Titanium, total	0.245	0.0050	mg/L	2018-04-26	
Tungsten, total	< 0.0010	0.0010	mg/L	2018-04-26	
Uranium, total	0.000480	0.000020	mg/L	2018-04-26	



TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

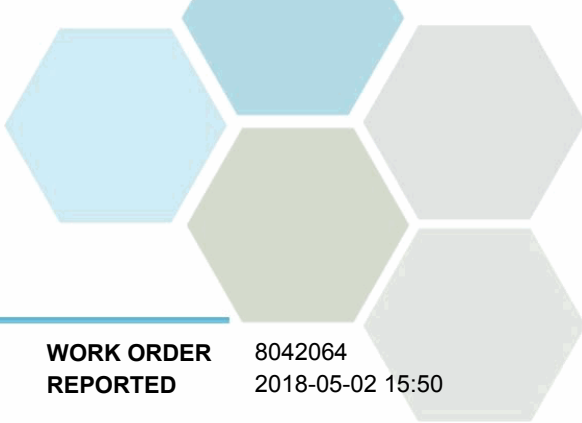
WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
SB1 (8042064-05) Matrix: Water Sampled: 2018-04-24 10:50, Continued					
<i>Total Metals, Continued</i>					
Vanadium, total	0.0132	0.0010	mg/L	2018-04-26	
Zinc, total	0.0161	0.0040	mg/L	2018-04-26	
Zirconium, total	0.00029	0.00010	mg/L	2018-04-26	
<i>BCMOE Aggregate Hydrocarbons</i>					
EPHw10-19	< 250	250	µg/L	2018-05-02	
EPHw19-32	< 250	250	µg/L	2018-05-02	
LEPHw	< 250	250	µg/L	N/A	
HEPHw	< 250	250	µg/L	N/A	
Surrogate: 2-Methylnonane (EPH/F2-4)	74	60-140	%	2018-05-02	
<i>Polycyclic Aromatic Hydrocarbons (PAH)</i>					
Acenaphthene	< 0.050	0.050	µg/L	2018-05-02	
Acenaphthylene	< 0.200	0.200	µg/L	2018-05-02	
Acridine	< 0.050	0.050	µg/L	2018-05-02	
Anthracene	< 0.010	0.010	µg/L	2018-05-02	
Benz(a)anthracene	< 0.010	0.010	µg/L	2018-05-02	
Benzo(a)pyrene	< 0.010	0.010	µg/L	2018-05-02	
Benzo(b+j)fluoranthene	< 0.050	0.050	µg/L	2018-05-02	
Benzo(g,h,i)perylene	< 0.050	0.050	µg/L	2018-05-02	
Benzo(k)fluoranthene	< 0.050	0.050	µg/L	2018-05-02	
2-Chloronaphthalene	< 0.100	0.100	µg/L	2018-05-02	
Chrysene	< 0.050	0.050	µg/L	2018-05-02	
Dibenz(a,h)anthracene	< 0.010	0.010	µg/L	2018-05-02	
Fluoranthene	< 0.030	0.030	µg/L	2018-05-02	
Fluorene	< 0.050	0.050	µg/L	2018-05-02	
Indeno(1,2,3-cd)pyrene	< 0.050	0.050	µg/L	2018-05-02	
1-Methylnaphthalene	< 0.100	0.100	µg/L	2018-05-02	
2-Methylnaphthalene	< 0.100	0.100	µg/L	2018-05-02	
Naphthalene	< 0.200	0.200	µg/L	2018-05-02	
Phenanthrene	< 0.100	0.100	µg/L	2018-05-02	
Pyrene	< 0.020	0.020	µg/L	2018-05-02	
Quinoline	< 0.050	0.050	µg/L	2018-05-02	
Surrogate: Acridine-d9	58	50-140	%	2018-05-02	
Surrogate: Naphthalene-d8	91	50-140	%	2018-05-02	
Surrogate: Perylene-d12	98	50-140	%	2018-05-02	

SB2 (8042064-06) | Matrix: Water | Sampled: 2018-04-24 10:30

Anions

Chloride	24.0	0.10	mg/L	2018-04-26	
Fluoride	0.24	0.10	mg/L	2018-04-26	
Nitrate (as N)	0.132	0.010	mg/L	2018-04-26	

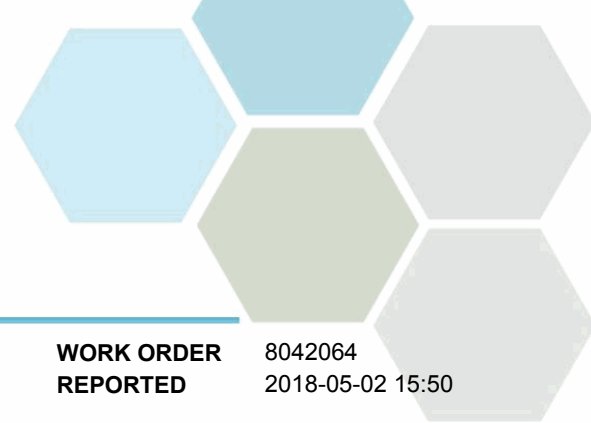


TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
SB2 (8042064-06) Matrix: Water Sampled: 2018-04-24 10:30, Continued					
<i>Anions, Continued</i>					
Nitrite (as N)	< 0.010	0.010	mg/L	2018-04-26	
Sulfate	37.8	1.0	mg/L	2018-04-26	
<i>General Parameters</i>					
Alkalinity, Total (as CaCO3)	151	1.0	mg/L	2018-04-29	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	1.0	mg/L	2018-04-29	
Alkalinity, Bicarbonate (as CaCO3)	151	1.0	mg/L	2018-04-29	
Alkalinity, Carbonate (as CaCO3)	< 1.0	1.0	mg/L	2018-04-29	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	1.0	mg/L	2018-04-29	
Colour, True	< 5.0	5.0	CU	2018-04-25	
Conductivity (EC)	432	2.0	µS/cm	2018-04-26	
pH	7.06	0.10	pH units	2018-05-01	HT2
Solids, Total Suspended	178	2.0	mg/L	2018-05-01	
Turbidity	172	0.10	NTU	2018-04-27	
<i>Calculated Parameters</i>					
Hardness, Total (as CaCO3)	178	0.500	mg/L	N/A	
<i>Dissolved Metals</i>					
Aluminum, dissolved	< 0.0050	0.0050	mg/L	2018-04-26	
Antimony, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Arsenic, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Barium, dissolved	0.0054	0.0050	mg/L	2018-04-26	
Beryllium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Bismuth, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Boron, dissolved	0.0176	0.0050	mg/L	2018-04-26	
Cadmium, dissolved	< 0.000010	0.000010	mg/L	2018-04-26	
Calcium, dissolved	58.5	0.20	mg/L	2018-04-26	
Chromium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Cobalt, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Copper, dissolved	0.00055	0.00040	mg/L	2018-04-26	
Iron, dissolved	< 0.010	0.010	mg/L	2018-04-26	
Lead, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Lithium, dissolved	0.00011	0.00010	mg/L	2018-04-26	
Magnesium, dissolved	7.64	0.010	mg/L	2018-04-26	
Manganese, dissolved	0.00198	0.00020	mg/L	2018-04-26	
Mercury, dissolved	< 0.000010	0.000010	mg/L	2018-04-30	
Molybdenum, dissolved	0.00053	0.00010	mg/L	2018-04-26	
Nickel, dissolved	0.00047	0.00040	mg/L	2018-04-26	
Phosphorus, dissolved	< 0.050	0.050	mg/L	2018-04-26	
Potassium, dissolved	1.04	0.10	mg/L	2018-04-26	
Selenium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Silicon, dissolved	5.3	1.0	mg/L	2018-04-26	

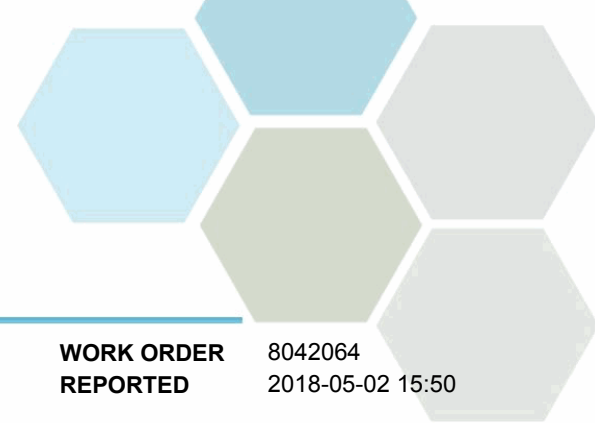


TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
SB2 (8042064-06) Matrix: Water Sampled: 2018-04-24 10:30, Continued					
<i>Dissolved Metals, Continued</i>					
Silver, dissolved	< 0.000050	0.000050	mg/L	2018-04-26	
Sodium, dissolved	15.2	0.10	mg/L	2018-04-26	
Strontium, dissolved	0.164	0.0010	mg/L	2018-04-26	
Sulfur, dissolved	11.3	3.0	mg/L	2018-04-26	
Tellurium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Thallium, dissolved	< 0.000020	0.000020	mg/L	2018-04-26	
Thorium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Tin, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Titanium, dissolved	< 0.0050	0.0050	mg/L	2018-04-26	
Tungsten, dissolved	< 0.0010	0.0010	mg/L	2018-04-26	
Uranium, dissolved	0.000710	0.000020	mg/L	2018-04-26	
Vanadium, dissolved	< 0.0010	0.0010	mg/L	2018-04-26	
Zinc, dissolved	< 0.0040	0.0040	mg/L	2018-04-26	
Zirconium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
<i>Total Metals</i>					
Aluminum, total	8.11	0.0050	mg/L	2018-04-26	
Antimony, total	< 0.00020	0.00020	mg/L	2018-04-26	
Arsenic, total	0.00086	0.00050	mg/L	2018-04-26	
Barium, total	0.0415	0.0050	mg/L	2018-04-26	
Beryllium, total	0.00020	0.00010	mg/L	2018-04-26	
Bismuth, total	< 0.00010	0.00010	mg/L	2018-04-26	
Boron, total	0.0220	0.0050	mg/L	2018-04-26	
Cadmium, total	0.000020	0.000010	mg/L	2018-04-26	
Calcium, total	66.4	0.20	mg/L	2018-04-26	
Chromium, total	0.00795	0.00050	mg/L	2018-04-26	
Cobalt, total	0.00549	0.00010	mg/L	2018-04-26	
Copper, total	0.0212	0.00040	mg/L	2018-04-26	
Iron, total	8.48	0.010	mg/L	2018-04-26	
Lead, total	0.00259	0.00020	mg/L	2018-04-26	
Lithium, total	0.00262	0.00010	mg/L	2018-04-26	
Magnesium, total	10.5	0.010	mg/L	2018-04-26	
Manganese, total	0.294	0.00020	mg/L	2018-04-26	
Mercury, total	< 0.000010	0.000010	mg/L	2018-04-30	
Molybdenum, total	0.00081	0.00010	mg/L	2018-04-26	
Nickel, total	0.00704	0.00040	mg/L	2018-04-26	
Phosphorus, total	0.229	0.050	mg/L	2018-04-26	
Potassium, total	2.28	0.10	mg/L	2018-04-26	
Selenium, total	< 0.00050	0.00050	mg/L	2018-04-26	
Silicon, total	19.5	1.0	mg/L	2018-04-26	
Silver, total	< 0.000050	0.000050	mg/L	2018-04-26	
Sodium, total	16.6	0.10	mg/L	2018-04-26	
Strontium, total	0.200	0.0010	mg/L	2018-04-26	



TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
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SB2 (8042064-06) | Matrix: Water | Sampled: 2018-04-24 10:30, Continued

Total Metals, Continued

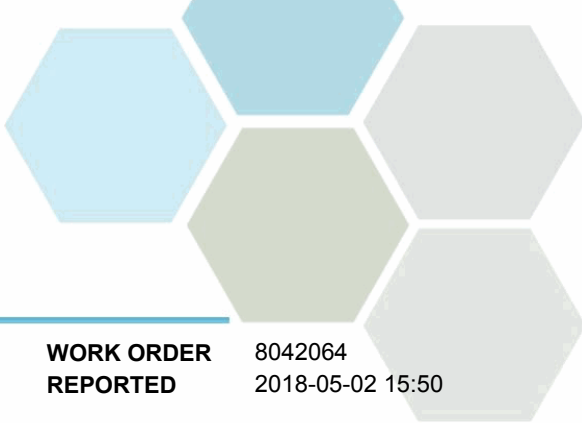
Sulfur, total	11.2	3.0	mg/L	2018-04-26	
Tellurium, total	< 0.00050	0.00050	mg/L	2018-04-26	
Thallium, total	0.000032	0.000020	mg/L	2018-04-26	
Thorium, total	0.00027	0.00010	mg/L	2018-04-26	
Tin, total	0.00023	0.00020	mg/L	2018-04-26	
Titanium, total	0.433	0.0050	mg/L	2018-04-26	
Tungsten, total	< 0.0010	0.0010	mg/L	2018-04-26	
Uranium, total	0.00108	0.000020	mg/L	2018-04-26	
Vanadium, total	0.0175	0.0010	mg/L	2018-04-26	
Zinc, total	0.0202	0.0040	mg/L	2018-04-26	
Zirconium, total	0.00126	0.00010	mg/L	2018-04-26	

BCMOE Aggregate Hydrocarbons

EPHw10-19	< 250	250	µg/L	2018-05-02	
EPHw19-32	< 250	250	µg/L	2018-05-02	
LEPHw	< 250	250	µg/L	N/A	
HEPHw	< 250	250	µg/L	N/A	
Surrogate: 2-Methylnonane (EPH/F2-4)	80	60-140	%	2018-05-02	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	0.050	µg/L	2018-05-02	
Acenaphthylene	< 0.200	0.200	µg/L	2018-05-02	
Acridine	< 0.050	0.050	µg/L	2018-05-02	
Anthracene	< 0.010	0.010	µg/L	2018-05-02	
Benz(a)anthracene	< 0.010	0.010	µg/L	2018-05-02	
Benzo(a)pyrene	0.016	0.010	µg/L	2018-05-02	
Benzo(b+j)fluoranthene	< 0.050	0.050	µg/L	2018-05-02	
Benzo(g,h,i)perylene	< 0.050	0.050	µg/L	2018-05-02	
Benzo(k)fluoranthene	< 0.050	0.050	µg/L	2018-05-02	
2-Chloronaphthalene	< 0.100	0.100	µg/L	2018-05-02	
Chrysene	< 0.050	0.050	µg/L	2018-05-02	
Dibenz(a,h)anthracene	0.022	0.010	µg/L	2018-05-02	
Fluoranthene	< 0.030	0.030	µg/L	2018-05-02	
Fluorene	< 0.050	0.050	µg/L	2018-05-02	
Indeno(1,2,3-cd)pyrene	< 0.050	0.050	µg/L	2018-05-02	
1-Methylnaphthalene	< 0.100	0.100	µg/L	2018-05-02	
2-Methylnaphthalene	< 0.100	0.100	µg/L	2018-05-02	
Naphthalene	< 0.200	0.200	µg/L	2018-05-02	
Phenanthrene	< 0.100	0.100	µg/L	2018-05-02	
Pyrene	< 0.020	0.020	µg/L	2018-05-02	
Quinoline	< 0.050	0.050	µg/L	2018-05-02	
Surrogate: Acridine-d9	90	50-140	%	2018-05-02	
Surrogate: Naphthalene-d8	101	50-140	%	2018-05-02	



TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
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SB2 (8042064-06) | Matrix: Water | Sampled: 2018-04-24 10:30, Continued

Polycyclic Aromatic Hydrocarbons (PAH), Continued

Surrogate: Perylene-d12	109	50-140	%	2018-05-02	
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SB3 (8042064-07) | Matrix: Water | Sampled: 2018-04-24 10:15

Anions

Chloride	7.88	0.10	mg/L	2018-04-26	
Fluoride	0.23	0.10	mg/L	2018-04-26	
Nitrate (as N)	0.770	0.010	mg/L	2018-04-26	
Nitrite (as N)	< 0.010	0.010	mg/L	2018-04-26	
Sulfate	130	1.0	mg/L	2018-04-27	

General Parameters

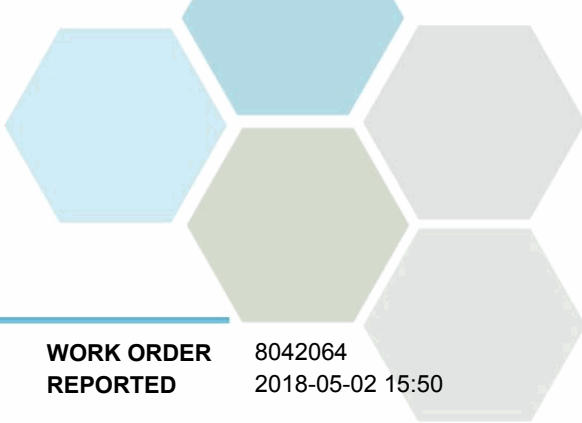
Alkalinity, Total (as CaCO3)	132	1.0	mg/L	2018-04-29	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	1.0	mg/L	2018-04-29	
Alkalinity, Bicarbonate (as CaCO3)	132	1.0	mg/L	2018-04-29	
Alkalinity, Carbonate (as CaCO3)	< 1.0	1.0	mg/L	2018-04-29	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	1.0	mg/L	2018-04-29	
Colour, True	< 5.0	5.0	CU	2018-04-25	
Conductivity (EC)	538	2.0	µS/cm	2018-04-26	
pH	7.43	0.10	pH units	2018-05-01	HT2
Solids, Total Suspended	1030	2.0	mg/L	2018-05-01	
Turbidity	967	0.10	NTU	2018-04-27	

Calculated Parameters

Hardness, Total (as CaCO3)	244	0.500	mg/L	N/A	
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Dissolved Metals

Aluminum, dissolved	< 0.0050	0.0050	mg/L	2018-04-26	
Antimony, dissolved	0.00022	0.00020	mg/L	2018-04-26	
Arsenic, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Barium, dissolved	< 0.0050	0.0050	mg/L	2018-04-26	
Beryllium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Bismuth, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Boron, dissolved	0.0174	0.0050	mg/L	2018-04-26	
Cadmium, dissolved	< 0.000010	0.000010	mg/L	2018-04-26	
Calcium, dissolved	80.7	0.20	mg/L	2018-04-26	
Chromium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Cobalt, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Copper, dissolved	0.00083	0.00040	mg/L	2018-04-26	
Iron, dissolved	< 0.010	0.010	mg/L	2018-04-26	
Lead, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Lithium, dissolved	0.00013	0.00010	mg/L	2018-04-26	
Magnesium, dissolved	10.3	0.010	mg/L	2018-04-26	



TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
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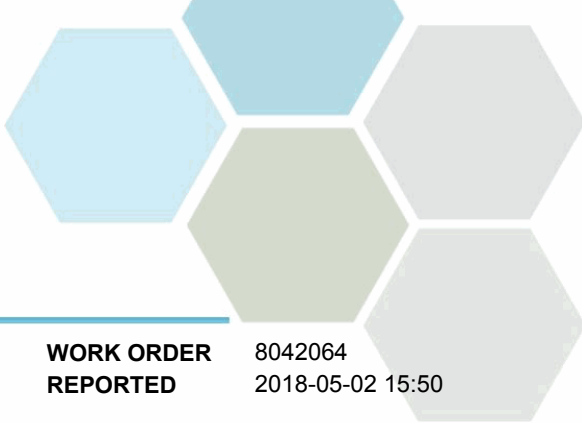
SB3 (8042064-07) | Matrix: Water | Sampled: 2018-04-24 10:15, Continued

Dissolved Metals, Continued

Manganese, dissolved	0.00091	0.00020	mg/L	2018-04-26	
Mercury, dissolved	< 0.000010	0.000010	mg/L	2018-04-30	
Molybdenum, dissolved	0.00084	0.00010	mg/L	2018-04-26	
Nickel, dissolved	0.00087	0.00040	mg/L	2018-04-26	
Phosphorus, dissolved	< 0.050	0.050	mg/L	2018-04-26	
Potassium, dissolved	0.61	0.10	mg/L	2018-04-26	
Selenium, dissolved	0.00084	0.00050	mg/L	2018-04-26	
Silicon, dissolved	5.3	1.0	mg/L	2018-04-26	
Silver, dissolved	< 0.000050	0.000050	mg/L	2018-04-26	
Sodium, dissolved	7.41	0.10	mg/L	2018-04-26	
Strontium, dissolved	0.144	0.0010	mg/L	2018-04-26	
Sulfur, dissolved	42.7	3.0	mg/L	2018-04-26	
Tellurium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Thallium, dissolved	< 0.000020	0.000020	mg/L	2018-04-26	
Thorium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Tin, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Titanium, dissolved	< 0.0050	0.0050	mg/L	2018-04-26	
Tungsten, dissolved	< 0.0010	0.0010	mg/L	2018-04-26	
Uranium, dissolved	0.00140	0.000020	mg/L	2018-04-26	
Vanadium, dissolved	< 0.0010	0.0010	mg/L	2018-04-26	
Zinc, dissolved	< 0.0040	0.0040	mg/L	2018-04-26	
Zirconium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	

Total Metals

Aluminum, total	31.0	0.0050	mg/L	2018-04-26	
Antimony, total	0.00038	0.00020	mg/L	2018-04-26	
Arsenic, total	0.00540	0.00050	mg/L	2018-04-26	
Barium, total	0.119	0.0050	mg/L	2018-04-26	
Beryllium, total	0.00054	0.00010	mg/L	2018-04-26	
Bismuth, total	0.00013	0.00010	mg/L	2018-04-26	
Boron, total	0.0244	0.0050	mg/L	2018-04-26	
Cadmium, total	0.000123	0.000010	mg/L	2018-04-26	
Calcium, total	98.2	0.20	mg/L	2018-04-26	
Chromium, total	0.0588	0.00050	mg/L	2018-04-26	
Cobalt, total	0.0342	0.00010	mg/L	2018-04-26	
Copper, total	0.0938	0.00040	mg/L	2018-04-26	
Iron, total	38.7	0.010	mg/L	2018-04-26	
Lead, total	0.0193	0.00020	mg/L	2018-04-26	
Lithium, total	0.0163	0.00010	mg/L	2018-04-26	
Magnesium, total	23.3	0.010	mg/L	2018-04-26	
Manganese, total	0.749	0.00020	mg/L	2018-04-26	
Mercury, total	0.000016	0.000010	mg/L	2018-04-30	
Molybdenum, total	0.00127	0.00010	mg/L	2018-04-26	



TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

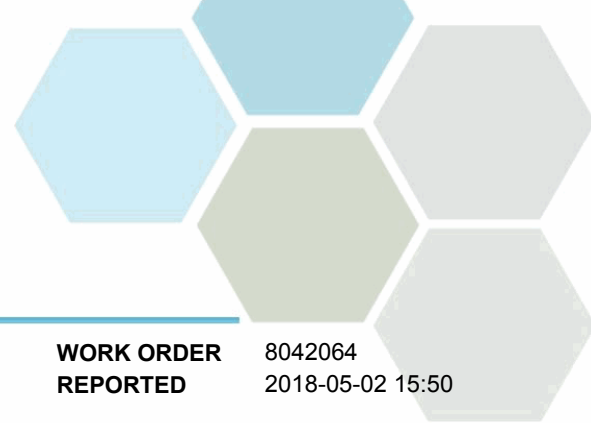
Analyte	Result	RL	Units	Analyzed	Qualifier
SB3 (8042064-07) Matrix: Water Sampled: 2018-04-24 10:15, Continued					
<i>Total Metals, Continued</i>					
Nickel, total	0.0520	0.00040	mg/L	2018-04-26	
Phosphorus, total	0.815	0.050	mg/L	2018-04-26	
Potassium, total	2.62	0.10	mg/L	2018-04-26	
Selenium, total	0.00110	0.00050	mg/L	2018-04-26	
Silicon, total	49.9	1.0	mg/L	2018-04-26	
Silver, total	0.000123	0.000050	mg/L	2018-04-26	
Sodium, total	9.44	0.10	mg/L	2018-04-26	
Strontium, total	0.229	0.0010	mg/L	2018-04-26	
Sulfur, total	43.9	3.0	mg/L	2018-04-26	
Tellurium, total	< 0.00050	0.00050	mg/L	2018-04-26	
Thallium, total	0.000107	0.000020	mg/L	2018-04-26	
Thorium, total	0.00123	0.00010	mg/L	2018-04-26	
Tin, total	0.00118	0.00020	mg/L	2018-04-26	
Titanium, total	1.45	0.0050	mg/L	2018-04-26	
Tungsten, total	< 0.0010	0.0010	mg/L	2018-04-26	
Uranium, total	0.00275	0.000020	mg/L	2018-04-26	
Vanadium, total	0.0837	0.0010	mg/L	2018-04-26	
Zinc, total	0.102	0.0040	mg/L	2018-04-26	
Zirconium, total	0.00217	0.00010	mg/L	2018-04-26	

BCMOE Aggregate Hydrocarbons

EPHw10-19	< 250	250	µg/L	2018-05-02	
EPHw19-32	< 250	250	µg/L	2018-05-02	
LEPHw	< 250	250	µg/L	N/A	
HEPHw	< 250	250	µg/L	N/A	
Surrogate: 2-Methylnonane (EPH/F2-4)	84	60-140	%	2018-05-02	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	0.050	µg/L	2018-05-02	
Acenaphthylene	< 0.200	0.200	µg/L	2018-05-02	
Acridine	< 0.050	0.050	µg/L	2018-05-02	
Anthracene	< 0.010	0.010	µg/L	2018-05-02	
Benz(a)anthracene	0.016	0.010	µg/L	2018-05-02	
Benzo(a)pyrene	0.023	0.010	µg/L	2018-05-02	
Benzo(b+j)fluoranthene	< 0.050	0.050	µg/L	2018-05-02	
Benzo(g,h,i)perylene	< 0.050	0.050	µg/L	2018-05-02	
Benzo(k)fluoranthene	< 0.050	0.050	µg/L	2018-05-02	
2-Chloronaphthalene	< 0.100	0.100	µg/L	2018-05-02	
Chrysene	< 0.050	0.050	µg/L	2018-05-02	
Dibenz(a,h)anthracene	< 0.010	0.010	µg/L	2018-05-02	
Fluoranthene	< 0.030	0.030	µg/L	2018-05-02	
Fluorene	< 0.050	0.050	µg/L	2018-05-02	
Indeno(1,2,3-cd)pyrene	< 0.050	0.050	µg/L	2018-05-02	



TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
SB3 (8042064-07) Matrix: Water Sampled: 2018-04-24 10:15, Continued					
<i>Polycyclic Aromatic Hydrocarbons (PAH), Continued</i>					
1-Methylnaphthalene	< 0.100	0.100	µg/L	2018-05-02	
2-Methylnaphthalene	< 0.100	0.100	µg/L	2018-05-02	
Naphthalene	< 0.200	0.200	µg/L	2018-05-02	
Phenanthrene	< 0.100	0.100	µg/L	2018-05-02	
Pyrene	0.028	0.020	µg/L	2018-05-02	
Quinoline	< 0.050	0.050	µg/L	2018-05-02	
Surrogate: Acridine-d9	76	50-140	%	2018-05-02	
Surrogate: Naphthalene-d8	96	50-140	%	2018-05-02	
Surrogate: Perylene-d12	87	50-140	%	2018-05-02	

LE-1 (8042064-08) | Matrix: Water | Sampled: 2018-04-24 13:30

Anions

Chloride	2850	0.10	mg/L	2018-04-26	
Fluoride	< 1.00	0.10	mg/L	2018-04-26	RA1
Nitrate (as N)	1.53	0.010	mg/L	2018-04-26	
Nitrite (as N)	0.472	0.010	mg/L	2018-04-26	
Sulfate	1560	1.0	mg/L	2018-04-26	

General Parameters

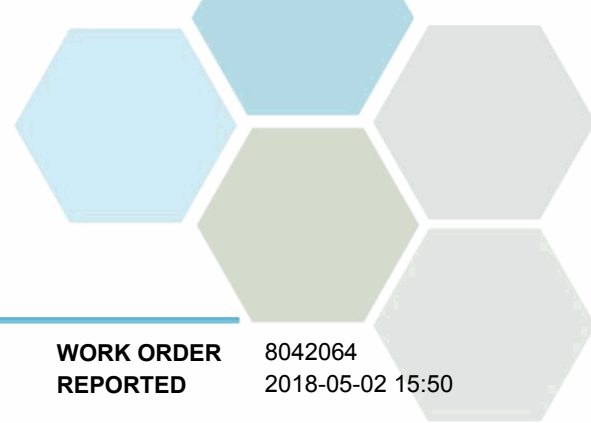
Alkalinity, Total (as CaCO3)	61.3	1.0	mg/L	2018-04-29	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	1.0	mg/L	2018-04-29	
Alkalinity, Bicarbonate (as CaCO3)	61.3	1.0	mg/L	2018-04-29	
Alkalinity, Carbonate (as CaCO3)	< 1.0	1.0	mg/L	2018-04-29	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	1.0	mg/L	2018-04-29	
Colour, True	< 5.0	5.0	CU	2018-04-25	
Conductivity (EC)	10400	2.0	µS/cm	2018-04-26	
pH	7.15	0.10	pH units	2018-05-01	HT2
Solids, Total Suspended	2.0	2.0	mg/L	2018-05-01	
Turbidity	0.57	0.10	NTU	2018-04-27	

Calculated Parameters

Hardness, Total (as CaCO3)	3000	0.500	mg/L	N/A	
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Dissolved Metals

Aluminum, dissolved	0.0137	0.0050	mg/L	2018-04-26	
Antimony, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Arsenic, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Barium, dissolved	0.0483	0.0050	mg/L	2018-04-26	
Beryllium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Bismuth, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Boron, dissolved	0.254	0.0050	mg/L	2018-04-26	
Cadmium, dissolved	0.000644	0.000010	mg/L	2018-04-26	

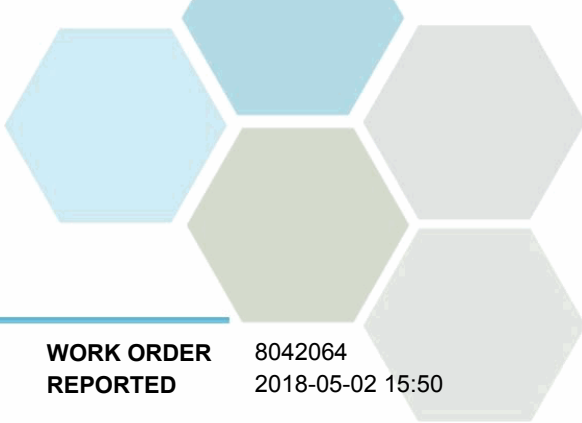


TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
LE-1 (8042064-08) Matrix: Water Sampled: 2018-04-24 13:30, Continued					
<i>Dissolved Metals, Continued</i>					
Calcium, dissolved	830	0.20	mg/L	2018-04-26	
Chromium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Cobalt, dissolved	0.00693	0.00010	mg/L	2018-04-26	
Copper, dissolved	0.00334	0.00040	mg/L	2018-04-26	
Iron, dissolved	< 0.010	0.010	mg/L	2018-04-26	
Lead, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Lithium, dissolved	0.00025	0.00010	mg/L	2018-04-26	
Magnesium, dissolved	226	0.010	mg/L	2018-04-26	
Manganese, dissolved	31.8	0.00020	mg/L	2018-04-26	
Mercury, dissolved	< 0.000010	0.000010	mg/L	2018-04-30	
Molybdenum, dissolved	0.00105	0.00010	mg/L	2018-04-26	
Nickel, dissolved	0.00742	0.00040	mg/L	2018-04-26	
Phosphorus, dissolved	< 0.050	0.050	mg/L	2018-04-26	
Potassium, dissolved	19.3	0.10	mg/L	2018-04-26	
Selenium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Silicon, dissolved	6.2	1.0	mg/L	2018-04-26	
Silver, dissolved	0.000050	0.000050	mg/L	2018-04-26	
Sodium, dissolved	1540	0.10	mg/L	2018-04-26	
Strontium, dissolved	3.83	0.0010	mg/L	2018-04-26	
Sulfur, dissolved	623	3.0	mg/L	2018-04-26	
Tellurium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Thallium, dissolved	0.000052	0.000020	mg/L	2018-04-26	
Thorium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Tin, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Titanium, dissolved	< 0.0050	0.0050	mg/L	2018-04-26	
Tungsten, dissolved	< 0.0010	0.0010	mg/L	2018-04-26	
Uranium, dissolved	0.000343	0.000020	mg/L	2018-04-26	
Vanadium, dissolved	< 0.0010	0.0010	mg/L	2018-04-26	
Zinc, dissolved	0.0199	0.0040	mg/L	2018-04-26	
Zirconium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
<i>Total Metals</i>					
Aluminum, total	0.0482	0.0050	mg/L	2018-04-26	
Antimony, total	0.00030	0.00020	mg/L	2018-04-26	
Arsenic, total	< 0.00050	0.00050	mg/L	2018-04-26	
Barium, total	0.0517	0.0050	mg/L	2018-04-26	
Beryllium, total	< 0.00010	0.00010	mg/L	2018-04-26	
Bismuth, total	< 0.00010	0.00010	mg/L	2018-04-26	
Boron, total	0.254	0.0050	mg/L	2018-04-26	
Cadmium, total	0.000680	0.000010	mg/L	2018-04-26	
Calcium, total	854	0.20	mg/L	2018-04-26	
Chromium, total	< 0.00050	0.00050	mg/L	2018-04-26	
Cobalt, total	0.00703	0.00010	mg/L	2018-04-26	



TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
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LE-1 (8042064-08) | Matrix: Water | Sampled: 2018-04-24 13:30, Continued

Total Metals, Continued

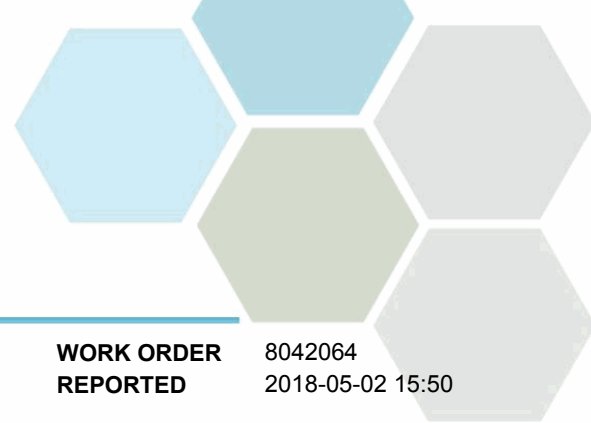
Copper, total	0.00359	0.00040	mg/L	2018-04-26	
Iron, total	0.023	0.010	mg/L	2018-04-26	
Lead, total	< 0.00020	0.00020	mg/L	2018-04-26	
Lithium, total	0.00025	0.00010	mg/L	2018-04-26	
Magnesium, total	232	0.010	mg/L	2018-04-26	
Manganese, total	33.8	0.00020	mg/L	2018-04-26	
Mercury, total	0.000011	0.000010	mg/L	2018-04-30	
Molybdenum, total	0.00106	0.00010	mg/L	2018-04-26	
Nickel, total	0.00762	0.00040	mg/L	2018-04-26	
Phosphorus, total	< 0.050	0.050	mg/L	2018-04-26	
Potassium, total	19.8	0.10	mg/L	2018-04-26	
Selenium, total	< 0.00050	0.00050	mg/L	2018-04-26	
Silicon, total	5.9	1.0	mg/L	2018-04-26	
Silver, total	0.000051	0.000050	mg/L	2018-04-26	
Sodium, total	1550	0.10	mg/L	2018-04-26	
Strontium, total	4.16	0.0010	mg/L	2018-04-26	
Sulfur, total	626	3.0	mg/L	2018-04-26	
Tellurium, total	< 0.00050	0.00050	mg/L	2018-04-26	
Thallium, total	0.000052	0.000020	mg/L	2018-04-26	
Thorium, total	< 0.00010	0.00010	mg/L	2018-04-26	
Tin, total	< 0.00020	0.00020	mg/L	2018-04-26	
Titanium, total	< 0.0050	0.0050	mg/L	2018-04-26	
Tungsten, total	< 0.0010	0.0010	mg/L	2018-04-26	
Uranium, total	0.000366	0.000020	mg/L	2018-04-26	
Vanadium, total	< 0.0010	0.0010	mg/L	2018-04-26	
Zinc, total	0.0203	0.0040	mg/L	2018-04-26	
Zirconium, total	0.00010	0.00010	mg/L	2018-04-26	

BCMOE Aggregate Hydrocarbons

EPHw10-19	< 250	250	µg/L	2018-05-02	
EPHw19-32	< 250	250	µg/L	2018-05-02	
LEPHw	< 250	250	µg/L	N/A	
HEPHw	< 250	250	µg/L	N/A	
Surrogate: 2-Methylnonane (EPH/F2-4)	67	60-140	%	2018-05-02	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	0.050	µg/L	2018-05-02	
Acenaphthylene	< 0.200	0.200	µg/L	2018-05-02	
Acridine	< 0.050	0.050	µg/L	2018-05-02	
Anthracene	< 0.010	0.010	µg/L	2018-05-02	
Benz(a)anthracene	< 0.010	0.010	µg/L	2018-05-02	
Benzo(a)pyrene	< 0.010	0.010	µg/L	2018-05-02	
Benzo(b+j)fluoranthene	< 0.050	0.050	µg/L	2018-05-02	



TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
LE-1 (8042064-08) Matrix: Water Sampled: 2018-04-24 13:30, Continued					
<i>Polycyclic Aromatic Hydrocarbons (PAH), Continued</i>					
Benzo(g,h,i)perylene	< 0.050	0.050	µg/L	2018-05-02	
Benzo(k)fluoranthene	< 0.050	0.050	µg/L	2018-05-02	
2-Chloronaphthalene	< 0.100	0.100	µg/L	2018-05-02	
Chrysene	< 0.050	0.050	µg/L	2018-05-02	
Dibenz(a,h)anthracene	< 0.010	0.010	µg/L	2018-05-02	
Fluoranthene	< 0.030	0.030	µg/L	2018-05-02	
Fluorene	< 0.050	0.050	µg/L	2018-05-02	
Indeno(1,2,3-cd)pyrene	< 0.050	0.050	µg/L	2018-05-02	
1-Methylnaphthalene	< 0.100	0.100	µg/L	2018-05-02	
2-Methylnaphthalene	< 0.100	0.100	µg/L	2018-05-02	
Naphthalene	< 0.200	0.200	µg/L	2018-05-02	
Phenanthrene	< 0.100	0.100	µg/L	2018-05-02	
Pyrene	< 0.020	0.020	µg/L	2018-05-02	
Quinoline	< 0.050	0.050	µg/L	2018-05-02	
Surrogate: Acridine-d9	62	50-140	%	2018-05-02	
Surrogate: Naphthalene-d8	88	50-140	%	2018-05-02	
Surrogate: Perylene-d12	79	50-140	%	2018-05-02	

SW1 (8042064-09) | Matrix: Water | Sampled: 2018-04-24 12:20

Anions

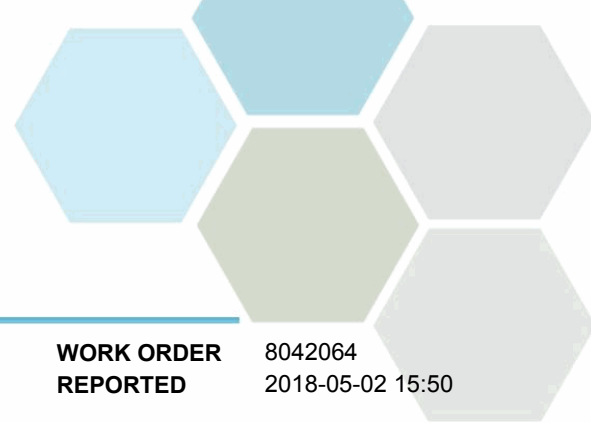
Chloride	11.5	0.10	mg/L	2018-04-26	
Fluoride	0.18	0.10	mg/L	2018-04-26	
Nitrate (as N)	0.419	0.010	mg/L	2018-04-26	
Nitrite (as N)	< 0.010	0.010	mg/L	2018-04-26	
Sulfate	73.0	1.0	mg/L	2018-04-26	

General Parameters

Alkalinity, Total (as CaCO3)	93.3	1.0	mg/L	2018-04-29	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	1.0	mg/L	2018-04-29	
Alkalinity, Bicarbonate (as CaCO3)	93.3	1.0	mg/L	2018-04-29	
Alkalinity, Carbonate (as CaCO3)	< 1.0	1.0	mg/L	2018-04-29	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	1.0	mg/L	2018-04-29	
Chromium, Hexavalent	< 0.0010	0.0010	mg/L	2018-04-27	
Colour, True	< 5.0	5.0	CU	2018-04-25	
Conductivity (EC)	371	2.0	µS/cm	2018-04-26	
pH	7.72	0.10	pH units	2018-05-01	HT2
Solids, Total Suspended	< 2.5	2.0	mg/L	2018-05-01	RS2
Turbidity	0.21	0.10	NTU	2018-04-27	

Calculated Parameters

Chromium, Trivalent	< 0.00100	0.00100	mg/L	N/A	
Hardness, Total (as CaCO3)	160	0.500	mg/L	N/A	



TEST RESULTS

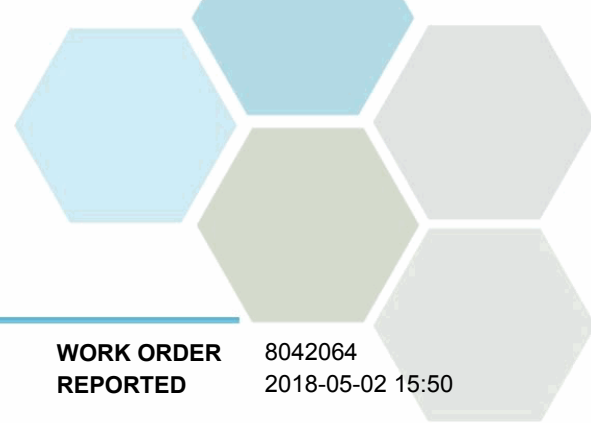
REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
SW1 (8042064-09) Matrix: Water Sampled: 2018-04-24 12:20, Continued					
<i>Dissolved Metals</i>					
Aluminum, dissolved	< 0.0050	0.0050	mg/L	2018-04-26	
Antimony, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Arsenic, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Barium, dissolved	0.0081	0.0050	mg/L	2018-04-26	
Beryllium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Bismuth, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Boron, dissolved	0.0204	0.0050	mg/L	2018-04-26	
Cadmium, dissolved	< 0.000010	0.000010	mg/L	2018-04-26	
Calcium, dissolved	52.1	0.20	mg/L	2018-04-26	
Chromium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Cobalt, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Copper, dissolved	0.00085	0.00040	mg/L	2018-04-26	
Iron, dissolved	< 0.010	0.010	mg/L	2018-04-26	
Lead, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Lithium, dissolved	0.00015	0.00010	mg/L	2018-04-26	
Magnesium, dissolved	7.32	0.010	mg/L	2018-04-26	
Manganese, dissolved	0.00266	0.00020	mg/L	2018-04-26	
Mercury, dissolved	< 0.000010	0.000010	mg/L	2018-04-30	
Molybdenum, dissolved	0.00071	0.00010	mg/L	2018-04-26	
Nickel, dissolved	< 0.00040	0.00040	mg/L	2018-04-26	
Phosphorus, dissolved	< 0.050	0.050	mg/L	2018-04-26	
Potassium, dissolved	0.67	0.10	mg/L	2018-04-26	
Selenium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Silicon, dissolved	4.5	1.0	mg/L	2018-04-26	
Silver, dissolved	< 0.000050	0.000050	mg/L	2018-04-26	
Sodium, dissolved	8.19	0.10	mg/L	2018-04-26	
Strontium, dissolved	0.131	0.0010	mg/L	2018-04-26	
Sulfur, dissolved	23.8	3.0	mg/L	2018-04-26	
Tellurium, dissolved	< 0.00050	0.00050	mg/L	2018-04-26	
Thallium, dissolved	< 0.000020	0.000020	mg/L	2018-04-26	
Thorium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	
Tin, dissolved	< 0.00020	0.00020	mg/L	2018-04-26	
Titanium, dissolved	< 0.0050	0.0050	mg/L	2018-04-26	
Tungsten, dissolved	< 0.0010	0.0010	mg/L	2018-04-26	
Uranium, dissolved	0.000691	0.000020	mg/L	2018-04-26	
Vanadium, dissolved	< 0.0010	0.0010	mg/L	2018-04-26	
Zinc, dissolved	< 0.0040	0.0040	mg/L	2018-04-26	
Zirconium, dissolved	< 0.00010	0.00010	mg/L	2018-04-26	

Total Metals

Aluminum, total	0.0091	0.0050	mg/L	2018-04-26	
Antimony, total	< 0.00020	0.00020	mg/L	2018-04-26	
Arsenic, total	< 0.00050	0.00050	mg/L	2018-04-26	

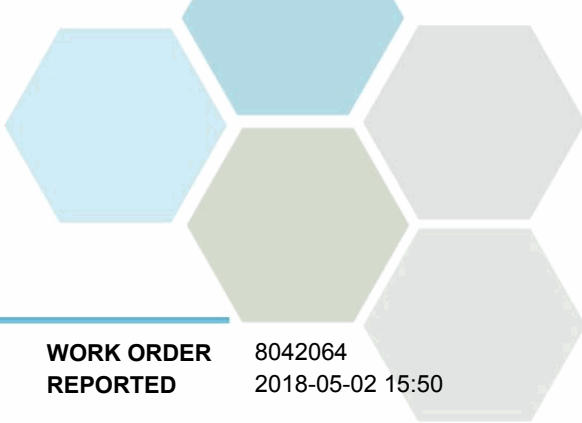


TEST RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
SW1 (8042064-09) Matrix: Water Sampled: 2018-04-24 12:20, Continued					
<i>Total Metals, Continued</i>					
Barium, total	0.0086	0.0050	mg/L	2018-04-26	
Beryllium, total	< 0.00010	0.00010	mg/L	2018-04-26	
Bismuth, total	< 0.00010	0.00010	mg/L	2018-04-26	
Boron, total	0.0248	0.0050	mg/L	2018-04-26	
Cadmium, total	< 0.000010	0.000010	mg/L	2018-04-26	
Calcium, total	56.3	0.20	mg/L	2018-04-26	
Chromium, total	< 0.00050	0.00050	mg/L	2018-04-26	
Cobalt, total	< 0.00010	0.00010	mg/L	2018-04-26	
Copper, total	0.00092	0.00040	mg/L	2018-04-26	
Iron, total	< 0.010	0.010	mg/L	2018-04-26	
Lead, total	< 0.00020	0.00020	mg/L	2018-04-26	
Lithium, total	0.00014	0.00010	mg/L	2018-04-26	
Magnesium, total	7.76	0.010	mg/L	2018-04-26	
Manganese, total	0.00302	0.00020	mg/L	2018-04-26	
Mercury, total	< 0.000010	0.000010	mg/L	2018-04-30	
Molybdenum, total	0.00073	0.00010	mg/L	2018-04-26	
Nickel, total	< 0.00040	0.00040	mg/L	2018-04-26	
Phosphorus, total	< 0.050	0.050	mg/L	2018-04-26	
Potassium, total	0.69	0.10	mg/L	2018-04-26	
Selenium, total	< 0.00050	0.00050	mg/L	2018-04-26	
Silicon, total	4.5	1.0	mg/L	2018-04-26	
Silver, total	< 0.000050	0.000050	mg/L	2018-04-26	
Sodium, total	8.63	0.10	mg/L	2018-04-26	
Strontium, total	0.143	0.0010	mg/L	2018-04-26	
Sulfur, total	25.0	3.0	mg/L	2018-04-26	
Tellurium, total	< 0.00050	0.00050	mg/L	2018-04-26	
Thallium, total	< 0.000020	0.000020	mg/L	2018-04-26	
Thorium, total	< 0.00010	0.00010	mg/L	2018-04-26	
Tin, total	< 0.00020	0.00020	mg/L	2018-04-26	
Titanium, total	< 0.0050	0.0050	mg/L	2018-04-26	
Tungsten, total	< 0.0010	0.0010	mg/L	2018-04-26	
Uranium, total	0.000741	0.000020	mg/L	2018-04-26	
Vanadium, total	< 0.0010	0.0010	mg/L	2018-04-26	
Zinc, total	< 0.0040	0.0040	mg/L	2018-04-26	
Zirconium, total	< 0.00010	0.00010	mg/L	2018-04-26	
<i>BCMOE Aggregate Hydrocarbons</i>					
EPHw10-19	< 250	250	µg/L	2018-05-02	
EPHw19-32	< 250	250	µg/L	2018-05-02	
LEPHw	< 250	250	µg/L	N/A	
HEPHw	< 250	250	µg/L	N/A	
Surrogate: 2-Methylnonane (EPH/F2-4)	81	60-140	%	2018-05-02	



TEST RESULTS

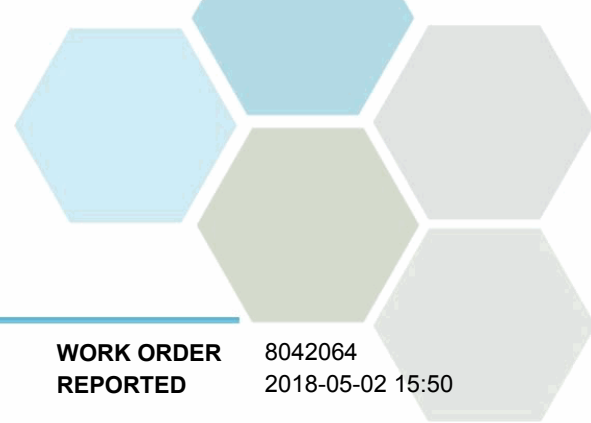
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P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL	Units	Analyzed	Qualifier
SW1 (8042064-09) Matrix: Water Sampled: 2018-04-24 12:20, Continued					
<i>Polycyclic Aromatic Hydrocarbons (PAH)</i>					
Acenaphthene	< 0.050	0.050	µg/L	2018-05-02	
Acenaphthylene	< 0.200	0.200	µg/L	2018-05-02	
Acridine	< 0.050	0.050	µg/L	2018-05-02	
Anthracene	< 0.010	0.010	µg/L	2018-05-02	
Benz(a)anthracene	< 0.010	0.010	µg/L	2018-05-02	
Benzo(a)pyrene	< 0.010	0.010	µg/L	2018-05-02	
Benzo(b+j)fluoranthene	< 0.050	0.050	µg/L	2018-05-02	
Benzo(g,h,i)perylene	< 0.050	0.050	µg/L	2018-05-02	
Benzo(k)fluoranthene	< 0.050	0.050	µg/L	2018-05-02	
2-Chloronaphthalene	< 0.100	0.100	µg/L	2018-05-02	
Chrysene	< 0.050	0.050	µg/L	2018-05-02	
Dibenz(a,h)anthracene	< 0.010	0.010	µg/L	2018-05-02	
Fluoranthene	< 0.030	0.030	µg/L	2018-05-02	
Fluorene	< 0.050	0.050	µg/L	2018-05-02	
Indeno(1,2,3-cd)pyrene	< 0.050	0.050	µg/L	2018-05-02	
1-Methylnaphthalene	< 0.100	0.100	µg/L	2018-05-02	
2-Methylnaphthalene	< 0.100	0.100	µg/L	2018-05-02	
Naphthalene	< 0.200	0.200	µg/L	2018-05-02	
Phenanthrene	< 0.100	0.100	µg/L	2018-05-02	
Pyrene	< 0.020	0.020	µg/L	2018-05-02	
Quinoline	< 0.050	0.050	µg/L	2018-05-02	
Surrogate: Acridine-d9	89	50-140	%	2018-05-02	
Surrogate: Naphthalene-d8	101	50-140	%	2018-05-02	
Surrogate: Perylene-d12	108	50-140	%	2018-05-02	

Sample Qualifiers:

- HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.
- RA1 The Reporting Limit has been raised due to matrix interference.
- RS2 The Reporting Limits for this sample have been raised due to limited sample volume.



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analysis Description	Method Ref.	Technique	Location
Alkalinity in Water	SM 2320 B* (2011)	Titration with H2SO4	Kelowna
Anions in Water	SM 4110 B (2011)	Ion Chromatography	Kelowna
Chromium, Hexavalent in Water	SM 3500-Cr B (2011)	Spectrophotometry	Richmond
Colour, True in Water	SM 2120 C (2011)	Spectrophotometry (456 nm)	Kelowna
Conductivity in Water	SM 2510 B (2011)	Conductivity Meter	Richmond
Dissolved Metals in Water	EPA 200.8 / EPA 6020B	0.45 µm Filtration / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	Richmond
EPH in Water	EPA 3511* / BCMOE EPHw	Hexane MicroExtraction (Base/Neutral) / Gas Chromatography (GC-FID)	Richmond
Hardness in Water	SM 2340 B (2011)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	N/A
HEPHw in Water	BCMOE LEPH/HEPH	Calculation	N/A
LEPHw in Water	BCMOE LEPH/HEPH	Calculation	N/A
Mercury, dissolved in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
Mercury, total in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
pH in Water	SM 4500-H+ B (2011)	Electrometry	Richmond
Polycyclic Aromatic Hydrocarbons in Water	EPA 3511* / EPA 8270D	Hexane MicroExtraction (Base/Neutral) / GC-MSD (SIM)	Richmond
Solids, Total Suspended in Water	SM 2540 D* (2011)	Gravimetry (Dried at 103-105C)	Richmond
Total Metals in Water	EPA 200.2* / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	Richmond
Turbidity in Water	SM 2130 B (2011)	Nephelometry	Richmond

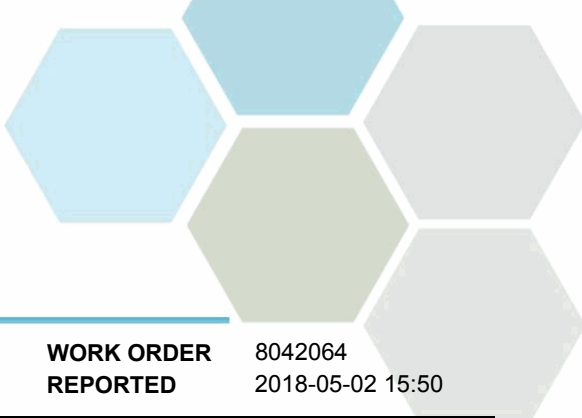
Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
CU	Colour Units (referenced against a platinum cobalt standard)
mg/L	Milligrams per litre
NTU	Nephelometric Turbidity Units
pH units	pH < 7 = acidic, pH > 7 = basic
µg/L	Micrograms per litre
µS/cm	Microsiemens per centimetre
BCMOE	British Columbia Environmental Laboratory Manual, British Columbia Ministry of Environment
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

General Comments:

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued unless otherwise agreed to in writing.



APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- **Method Blank (Blk):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS):** A second aliquot of sample is fortified with with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Anions, Batch B8D1858

Blank (B8D1858-BLK1)		Prepared: 2018-04-26, Analyzed: 2018-04-26							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							

LCS (B8D1858-BS1)		Prepared: 2018-04-26, Analyzed: 2018-04-26							
Chloride	16.1	0.10 mg/L	16.0		101	90-110			
Fluoride	3.90	0.10 mg/L	4.00		97	88-108			
Nitrate (as N)	3.93	0.010 mg/L	4.00		98	93-108			
Nitrite (as N)	2.12	0.010 mg/L	2.00		106	85-114			
Sulfate	15.9	1.0 mg/L	16.0		100	91-109			

BCMOE Aggregate Hydrocarbons, Batch B8D1985

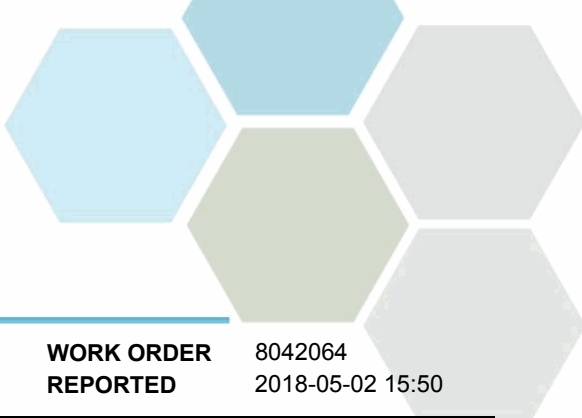
Blank (B8D1985-BLK1)		Prepared: 2018-04-27, Analyzed: 2018-04-28							
EPHw10-19	< 250	250 µg/L							
EPHw19-32	< 250	250 µg/L							
Surrogate: 2-Methylnonane (EPH/F2-4)	387	µg/L	442		87	60-140			

LCS (B8D1985-BS2)		Prepared: 2018-04-27, Analyzed: 2018-04-28							
EPHw10-19	14300	250 µg/L	15500		92	70-130			
EPHw19-32	20100	250 µg/L	22100		91	70-130			
Surrogate: 2-Methylnonane (EPH/F2-4)	381	µg/L	442		86	60-140			

BCMOE Aggregate Hydrocarbons, Batch B8D2061

Blank (B8D2061-BLK1)		Prepared: 2018-04-30, Analyzed: 2018-05-02							
EPHw10-19	< 250	250 µg/L							S09
EPHw19-32	< 250	250 µg/L							S09
Surrogate: 2-Methylnonane (EPH/F2-4)	191	µg/L	442		43	60-140			S09

LCS (B8D2061-BS2)		Prepared: 2018-04-30, Analyzed: 2018-05-02							
EPHw10-19	11100	250 µg/L	15500		72	70-130			
EPHw19-32	15500	250 µg/L	22100		70	70-130			



APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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BCMOE Aggregate Hydrocarbons, Batch B8D2061, Continued

LCS (B8D2061-BS2), Continued

Prepared: 2018-04-30, Analyzed: 2018-05-02

Surrogate: 2-Methylnonane (EPH/F2-4)	301	µg/L	442		68	60-140			
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Dissolved Metals, Batch B8D1770

Blank (B8D1770-BLK1)

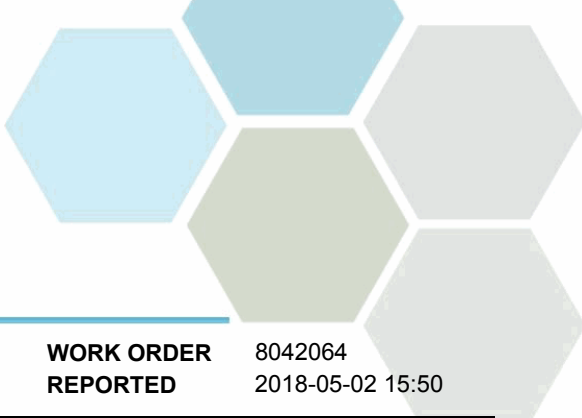
Prepared: 2018-04-26, Analyzed: 2018-04-26

Aluminum, dissolved	< 0.0050	0.0050 mg/L							
Antimony, dissolved	< 0.00020	0.00020 mg/L							
Arsenic, dissolved	< 0.00050	0.00050 mg/L							
Barium, dissolved	< 0.0050	0.0050 mg/L							
Beryllium, dissolved	< 0.00010	0.00010 mg/L							
Bismuth, dissolved	< 0.00010	0.00010 mg/L							
Boron, dissolved	< 0.0050	0.0050 mg/L							
Cadmium, dissolved	< 0.000010	0.000010 mg/L							
Calcium, dissolved	< 0.20	0.20 mg/L							
Chromium, dissolved	< 0.00050	0.00050 mg/L							
Cobalt, dissolved	< 0.00010	0.00010 mg/L							
Copper, dissolved	< 0.00040	0.00040 mg/L							
Iron, dissolved	< 0.010	0.010 mg/L							
Lead, dissolved	< 0.00020	0.00020 mg/L							
Lithium, dissolved	< 0.00010	0.00010 mg/L							
Magnesium, dissolved	< 0.010	0.010 mg/L							
Manganese, dissolved	< 0.00020	0.00020 mg/L							
Molybdenum, dissolved	< 0.00010	0.00010 mg/L							
Nickel, dissolved	< 0.00040	0.00040 mg/L							
Phosphorus, dissolved	< 0.050	0.050 mg/L							
Potassium, dissolved	< 0.10	0.10 mg/L							
Selenium, dissolved	< 0.00050	0.00050 mg/L							
Silicon, dissolved	< 1.0	1.0 mg/L							
Silver, dissolved	< 0.000050	0.000050 mg/L							
Sodium, dissolved	< 0.10	0.10 mg/L							
Strontium, dissolved	< 0.0010	0.0010 mg/L							
Sulfur, dissolved	< 3.0	3.0 mg/L							
Tellurium, dissolved	< 0.00050	0.00050 mg/L							
Thallium, dissolved	< 0.000020	0.000020 mg/L							
Thorium, dissolved	< 0.00010	0.00010 mg/L							
Tin, dissolved	< 0.00020	0.00020 mg/L							
Titanium, dissolved	< 0.0050	0.0050 mg/L							
Tungsten, dissolved	< 0.0010	0.0010 mg/L							
Uranium, dissolved	< 0.000020	0.000020 mg/L							
Vanadium, dissolved	< 0.0010	0.0010 mg/L							
Zinc, dissolved	< 0.0040	0.0040 mg/L							
Zirconium, dissolved	< 0.00010	0.00010 mg/L							

LCS (B8D1770-BS1)

Prepared: 2018-04-26, Analyzed: 2018-04-26

Aluminum, dissolved	0.0210	0.0050 mg/L	0.0200		105	80-120			
Antimony, dissolved	0.0192	0.00020 mg/L	0.0200		96	80-120			
Arsenic, dissolved	0.0196	0.00050 mg/L	0.0200		98	80-120			
Barium, dissolved	0.0188	0.0050 mg/L	0.0200		94	80-120			
Beryllium, dissolved	0.0209	0.00010 mg/L	0.0200		104	80-120			
Bismuth, dissolved	0.0207	0.00010 mg/L	0.0200		103	80-120			
Boron, dissolved	0.0196	0.0050 mg/L	0.0200		98	80-120			
Cadmium, dissolved	0.0198	0.000010 mg/L	0.0200		99	80-120			
Calcium, dissolved	1.98	0.20 mg/L	2.00		99	80-120			
Chromium, dissolved	0.0189	0.00050 mg/L	0.0200		94	80-120			
Cobalt, dissolved	0.0193	0.00010 mg/L	0.0200		97	80-120			



APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

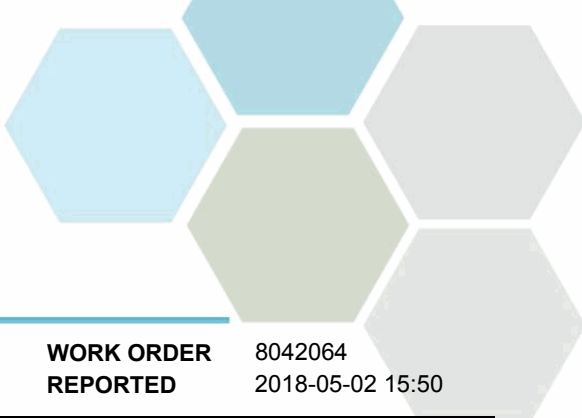
WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Dissolved Metals, Batch B8D1770, Continued

LCS (B8D1770-BS1), Continued				Prepared: 2018-04-26, Analyzed: 2018-04-26					
Copper, dissolved	0.0201	0.00040 mg/L	0.0200		100	80-120			
Iron, dissolved	1.95	0.010 mg/L	2.00		98	80-120			
Lead, dissolved	0.0199	0.00020 mg/L	0.0200		100	80-120			
Lithium, dissolved	0.0206	0.00010 mg/L	0.0200		103	80-120			
Magnesium, dissolved	2.02	0.010 mg/L	2.00		101	80-120			
Manganese, dissolved	0.0186	0.00020 mg/L	0.0200		93	80-120			
Molybdenum, dissolved	0.0187	0.00010 mg/L	0.0200		94	80-120			
Nickel, dissolved	0.0195	0.00040 mg/L	0.0200		97	80-120			
Phosphorus, dissolved	1.91	0.050 mg/L	2.00		95	80-120			
Potassium, dissolved	1.94	0.10 mg/L	2.00		97	80-120			
Selenium, dissolved	0.0206	0.00050 mg/L	0.0200		103	80-120			
Silicon, dissolved	2.1	1.0 mg/L	2.00		105	80-120			
Silver, dissolved	0.0198	0.000050 mg/L	0.0200		99	80-120			
Sodium, dissolved	2.01	0.10 mg/L	2.00		101	80-120			
Strontium, dissolved	0.0182	0.0010 mg/L	0.0200		91	80-120			
Sulfur, dissolved	4.2	3.0 mg/L	5.00		84	80-120			
Tellurium, dissolved	0.0202	0.00050 mg/L	0.0200		101	80-120			
Thallium, dissolved	0.0199	0.000020 mg/L	0.0200		99	80-120			
Thorium, dissolved	0.0190	0.00010 mg/L	0.0200		95	80-120			
Tin, dissolved	0.0197	0.00020 mg/L	0.0200		98	80-120			
Titanium, dissolved	0.0190	0.0050 mg/L	0.0200		95	80-120			
Tungsten, dissolved	0.0211	0.0010 mg/L	0.0200		105	80-120			
Uranium, dissolved	0.0219	0.000020 mg/L	0.0200		110	80-120			
Vanadium, dissolved	0.0182	0.0010 mg/L	0.0200		91	80-120			
Zinc, dissolved	0.0225	0.0040 mg/L	0.0200		112	80-120			
Zirconium, dissolved	0.0198	0.00010 mg/L	0.0200		99	80-120			

Reference (B8D1770-SRM1)				Prepared: 2018-04-26, Analyzed: 2018-04-26					
Aluminum, dissolved	0.231	0.0050 mg/L	0.233		99	79-114			
Antimony, dissolved	0.0433	0.00020 mg/L	0.0430		101	89-123			
Arsenic, dissolved	0.448	0.00050 mg/L	0.438		102	87-113			
Barium, dissolved	3.22	0.0050 mg/L	3.35		96	85-114			
Beryllium, dissolved	0.228	0.00010 mg/L	0.213		107	79-122			
Boron, dissolved	1.71	0.0050 mg/L	1.74		98	79-117			
Cadmium, dissolved	0.224	0.000010 mg/L	0.224		100	89-112			
Calcium, dissolved	7.84	0.20 mg/L	7.69		102	85-120			
Chromium, dissolved	0.424	0.00050 mg/L	0.437		97	87-113			
Cobalt, dissolved	0.128	0.00010 mg/L	0.128		100	90-117			
Copper, dissolved	0.857	0.00040 mg/L	0.844		102	90-115			
Iron, dissolved	1.26	0.010 mg/L	1.29		98	86-112			
Lead, dissolved	0.112	0.00020 mg/L	0.112		100	90-113			
Lithium, dissolved	0.107	0.00010 mg/L	0.104		103	77-127			
Magnesium, dissolved	7.06	0.010 mg/L	6.92		102	84-116			
Manganese, dissolved	0.332	0.00020 mg/L	0.345		96	85-113			
Molybdenum, dissolved	0.419	0.00010 mg/L	0.426		98	87-112			
Nickel, dissolved	0.842	0.00040 mg/L	0.840		100	90-114			
Phosphorus, dissolved	0.507	0.050 mg/L	0.495		102	74-119			
Potassium, dissolved	3.10	0.10 mg/L	3.19		97	78-119			
Selenium, dissolved	0.0344	0.00050 mg/L	0.0331		104	89-123			
Sodium, dissolved	19.1	0.10 mg/L	19.1		100	81-117			
Strontium, dissolved	0.862	0.0010 mg/L	0.916		94	82-111			
Thallium, dissolved	0.0386	0.000020 mg/L	0.0393		98	90-113			
Uranium, dissolved	0.254	0.000020 mg/L	0.266		96	87-113			
Vanadium, dissolved	0.826	0.0010 mg/L	0.869		95	85-110			
Zinc, dissolved	0.909	0.0040 mg/L	0.881		103	88-114			

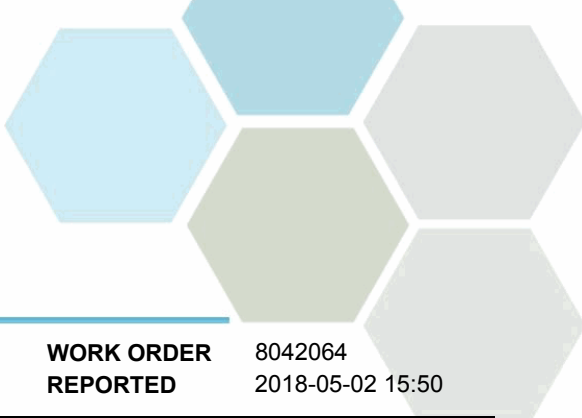


APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Dissolved Metals, Batch B8D2069									
Blank (B8D2069-BLK1)			Prepared: 2018-04-30, Analyzed: 2018-04-30						
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Duplicate (B8D2069-DUP1)			Source: 8042064-01 Prepared: 2018-04-30, Analyzed: 2018-04-30						
Mercury, dissolved	< 0.000010	0.000010 mg/L		< 0.000010				20	
Matrix Spike (B8D2069-MS1)			Source: 8042064-02 Prepared: 2018-04-30, Analyzed: 2018-04-30						
Mercury, dissolved	0.000233	0.000010 mg/L	0.000250	< 0.000010	93	70-130			
Reference (B8D2069-SRM1)			Prepared: 2018-04-30, Analyzed: 2018-04-30						
Mercury, dissolved	0.00446	0.000010 mg/L	0.00489		91	80-120			
General Parameters, Batch B8D1817									
Blank (B8D1817-BLK1)			Prepared: 2018-04-25, Analyzed: 2018-04-25						
Colour, True	< 5.0	5.0 CU							
Blank (B8D1817-BLK2)			Prepared: 2018-04-25, Analyzed: 2018-04-25						
Colour, True	< 5.0	5.0 CU							
LCS (B8D1817-BS1)			Prepared: 2018-04-25, Analyzed: 2018-04-25						
Colour, True	9.0	5.0 CU	10.0		90	85-115			
LCS (B8D1817-BS2)			Prepared: 2018-04-25, Analyzed: 2018-04-25						
Colour, True	11	5.0 CU	10.0		105	85-115			
General Parameters, Batch B8D1836									
Blank (B8D1836-BLK1)			Prepared: 2018-04-26, Analyzed: 2018-04-26						
Conductivity (EC)	< 2.0	2.0 µS/cm							
LCS (B8D1836-BS1)			Prepared: 2018-04-26, Analyzed: 2018-04-26						
Conductivity (EC)	147	2.0 µS/cm	147		100	90-110			
Reference (B8D1836-SRM1)			Prepared: 2018-04-26, Analyzed: 2018-04-26						
Conductivity (EC)	1010	2.0 µS/cm	1000		101	95-105			
General Parameters, Batch B8D1845									
Blank (B8D1845-BLK1)			Prepared: 2018-04-26, Analyzed: 2018-04-26						
Alkalinity, Total (as CaCO3)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO3)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO3)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO3)	< 1.0	1.0 mg/L							
LCS (B8D1845-BS1)			Prepared: 2018-04-26, Analyzed: 2018-04-26						
Alkalinity, Total (as CaCO3)	99.8	1.0 mg/L	100		100	92-106			
General Parameters, Batch B8D1928									
Blank (B8D1928-BLK1)			Prepared: 2018-04-27, Analyzed: 2018-04-27						
Turbidity	< 0.10	0.10 NTU							
Duplicate (B8D1928-DUP1)			Source: 8042064-01 Prepared: 2018-04-27, Analyzed: 2018-04-27						
Turbidity	12.6	0.10 NTU	12.3				3	18	

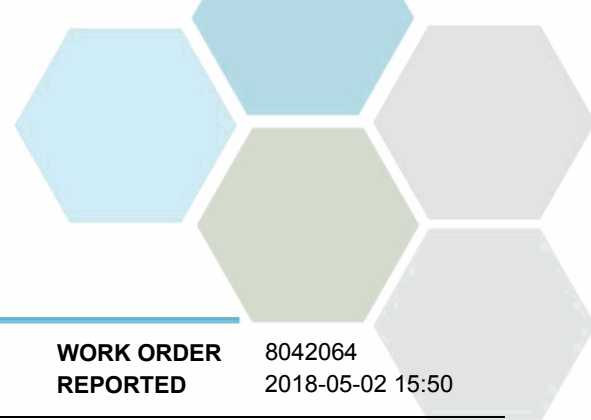


APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B8D1960									
Blank (B8D1960-BLK1)			Prepared: 2018-04-27, Analyzed: 2018-04-27						
Chromium, Hexavalent	< 0.0010	0.0010 mg/L							
LCS (B8D1960-BS1)			Prepared: 2018-04-27, Analyzed: 2018-04-27						
Chromium, Hexavalent	0.0932	0.0010 mg/L	0.100		93	90-111			
General Parameters, Batch B8D2023									
Blank (B8D2023-BLK1)			Prepared: 2018-04-29, Analyzed: 2018-04-29						
Alkalinity, Total (as CaCO3)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO3)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO3)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO3)	< 1.0	1.0 mg/L							
LCS (B8D2023-BS1)			Prepared: 2018-04-29, Analyzed: 2018-04-29						
Alkalinity, Total (as CaCO3)	101	1.0 mg/L	100		101	92-106			
General Parameters, Batch B8E0036									
Blank (B8E0036-BLK1)			Prepared: 2018-05-01, Analyzed: 2018-05-01						
Solids, Total Suspended	< 2.0	2.0 mg/L							
Blank (B8E0036-BLK2)			Prepared: 2018-05-01, Analyzed: 2018-05-01						
Solids, Total Suspended	< 2.0	2.0 mg/L							
LCS (B8E0036-BS1)			Prepared: 2018-05-01, Analyzed: 2018-05-01						
Solids, Total Suspended	97.0	10.0 mg/L	100		97	83-107			
LCS (B8E0036-BS2)			Prepared: 2018-05-01, Analyzed: 2018-05-01						
Solids, Total Suspended	97.0	10.0 mg/L	100		97	83-107			
General Parameters, Batch B8E0041									
Duplicate (B8E0041-DUP1)			Source: 8042064-01		Prepared: 2018-05-01, Analyzed: 2018-05-01				
pH	7.36	0.10 pH units		7.33			< 1		4
Duplicate (B8E0041-DUP2)			Source: 8042064-02		Prepared: 2018-05-01, Analyzed: 2018-05-01				
pH	7.77	0.10 pH units		7.73			< 1		4
Reference (B8E0041-SRM1)			Prepared: 2018-05-01, Analyzed: 2018-05-01						
pH	7.91	0.10 pH units		8.00		99		97.5-102.5	
Reference (B8E0041-SRM2)			Prepared: 2018-05-01, Analyzed: 2018-05-01						
pH	7.91	0.10 pH units		8.00		99		97.5-102.5	
Polycyclic Aromatic Hydrocarbons (PAH), Batch B8D1985									
Blank (B8D1985-BLK1)			Prepared: 2018-04-27, Analyzed: 2018-04-27						
Acenaphthene	< 0.050	0.050 µg/L							
Acenaphthylene	< 0.200	0.200 µg/L							
Acridine	< 0.050	0.050 µg/L							
Anthracene	< 0.010	0.010 µg/L							
Benz(a)anthracene	< 0.010	0.010 µg/L							
Benzo(a)pyrene	< 0.010	0.010 µg/L							

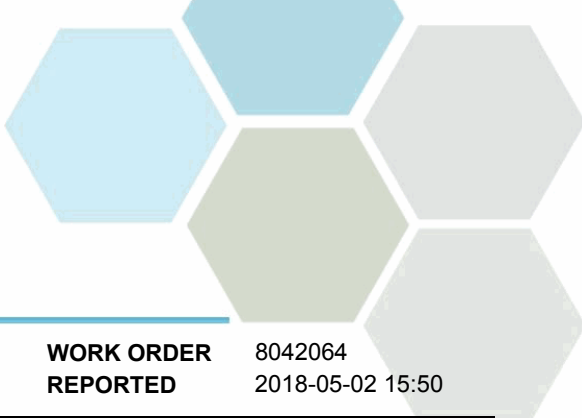


APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Polycyclic Aromatic Hydrocarbons (PAH), Batch B8D1985, Continued									
Blank (B8D1985-BLK1), Continued					Prepared: 2018-04-27, Analyzed: 2018-04-29				
Benzo(b+)fluoranthene	< 0.050	0.050 µg/L							
Benzo(g,h,i)perylene	< 0.050	0.050 µg/L							
Benzo(k)fluoranthene	< 0.050	0.050 µg/L							
2-Chloronaphthalene	< 0.100	0.100 µg/L							
Chrysene	< 0.050	0.050 µg/L							
Dibenz(a,h)anthracene	< 0.010	0.010 µg/L							
Fluoranthene	< 0.030	0.030 µg/L							
Fluorene	< 0.050	0.050 µg/L							
Indeno(1,2,3-cd)pyrene	< 0.050	0.050 µg/L							
1-Methylnaphthalene	< 0.100	0.100 µg/L							
2-Methylnaphthalene	< 0.100	0.100 µg/L							
Naphthalene	< 0.200	0.200 µg/L							
Phenanthrene	< 0.100	0.100 µg/L							
Pyrene	< 0.020	0.020 µg/L							
Quinoline	< 0.050	0.050 µg/L							
Surrogate: Acridine-d9	3.14	µg/L	4.44		71	50-140			
Surrogate: Naphthalene-d8	3.83	µg/L	4.44		86	50-140			
Surrogate: Perylene-d12	4.24	µg/L	4.44		95	50-140			
LCS (B8D1985-BS1)					Prepared: 2018-04-27, Analyzed: 2018-04-29				
Acenaphthene	4.03	0.050 µg/L	4.40		91	58-125			
Acenaphthylene	4.22	0.200 µg/L	4.40		96	54-128			
Acridine	3.36	0.050 µg/L	4.44		76	50-112			
Anthracene	4.34	0.010 µg/L	4.44		98	66-125			
Benzo(a)anthracene	5.14	0.010 µg/L	4.44		116	59-123			
Benzo(a)pyrene	4.70	0.010 µg/L	4.40		107	62-116			
Benzo(b+)fluoranthene	8.86	0.050 µg/L	8.89		100	69-121			
Benzo(g,h,i)perylene	4.24	0.050 µg/L	4.40		96	58-129			
Benzo(k)fluoranthene	4.64	0.050 µg/L	4.44		104	67-128			
2-Chloronaphthalene	3.76	0.100 µg/L	4.44		85	50-140			
Chrysene	5.18	0.050 µg/L	4.42		117	58-125			
Dibenz(a,h)anthracene	4.00	0.010 µg/L	4.42		90	58-126			
Fluoranthene	4.45	0.030 µg/L	4.36		102	67-133			
Fluorene	4.10	0.050 µg/L	4.40		93	55-122			
Indeno(1,2,3-cd)pyrene	4.13	0.050 µg/L	4.44		93	62-126			
1-Methylnaphthalene	4.05	0.100 µg/L	4.38		93	53-125			
2-Methylnaphthalene	3.98	0.100 µg/L	4.36		91	52-122			
Naphthalene	4.03	0.200 µg/L	4.44		91	50-130			
Phenanthrene	4.34	0.100 µg/L	4.40		99	67-127			
Pyrene	4.47	0.020 µg/L	4.44		101	68-133			
Quinoline	5.97	0.050 µg/L	4.44		134	51-140			
Surrogate: Acridine-d9	3.67	µg/L	4.44		83	50-140			
Surrogate: Naphthalene-d8	3.97	µg/L	4.44		89	50-140			
Surrogate: Perylene-d12	4.25	µg/L	4.44		96	50-140			
LCS Dup (B8D1985-BSD1)					Prepared: 2018-04-27, Analyzed: 2018-04-29				
Acenaphthene	4.13	0.050 µg/L	4.40		94	58-125	2	16	
Acenaphthylene	4.29	0.200 µg/L	4.40		98	54-128	2	16	
Acridine	3.32	0.050 µg/L	4.44		75	50-112	1	26	
Anthracene	4.43	0.010 µg/L	4.44		100	66-125	2	14	
Benzo(a)anthracene	5.08	0.010 µg/L	4.44		114	59-123	1	23	
Benzo(a)pyrene	4.64	0.010 µg/L	4.40		106	62-116	1	16	
Benzo(b+)fluoranthene	9.11	0.050 µg/L	8.89		102	69-121	3	14	
Benzo(g,h,i)perylene	4.13	0.050 µg/L	4.40		94	58-129	3	25	
Benzo(k)fluoranthene	4.61	0.050 µg/L	4.44		104	67-128	< 1	18	
2-Chloronaphthalene	3.84	0.100 µg/L	4.44		86	50-140	2	30	



APPENDIX 2: QUALITY CONTROL RESULTS

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P17-932

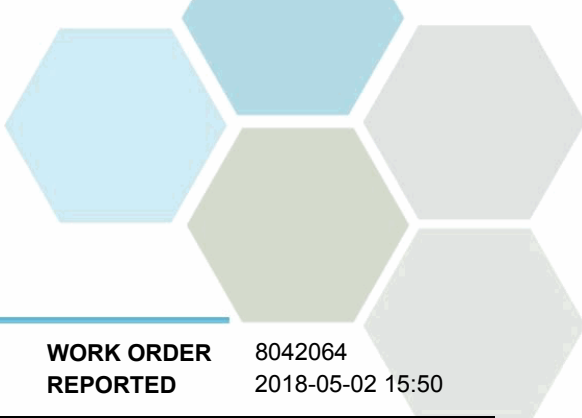
WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Polycyclic Aromatic Hydrocarbons (PAH), Batch B8D1985, Continued									
LCS Dup (B8D1985-BSD1), Continued					Prepared: 2018-04-27, Analyzed: 2018-04-29				
Chrysene	5.11	0.050 µg/L	4.42		116	58-125	1	24	
Dibenz(a,h)anthracene	3.91	0.010 µg/L	4.42		88	58-126	2	23	
Fluoranthene	4.47	0.030 µg/L	4.36		103	67-133	< 1	18	
Fluorene	4.15	0.050 µg/L	4.40		94	55-122	1	16	
Indeno(1,2,3-cd)pyrene	4.12	0.050 µg/L	4.44		93	62-126	< 1	22	
1-Methylnaphthalene	4.17	0.100 µg/L	4.38		95	53-125	3	16	
2-Methylnaphthalene	4.08	0.100 µg/L	4.36		94	52-122	2	17	
Naphthalene	4.12	0.200 µg/L	4.44		93	50-130	2	18	
Phenanthrene	4.43	0.100 µg/L	4.40		101	67-127	2	14	
Pyrene	4.49	0.020 µg/L	4.44		101	68-133	< 1	18	
Quinoline	6.15	0.050 µg/L	4.44		138	51-140	3	12	
Surrogate: Acridine-d9	3.57	µg/L	4.44		80	50-140			
Surrogate: Naphthalene-d8	4.06	µg/L	4.44		91	50-140			
Surrogate: Perylene-d12	4.22	µg/L	4.44		95	50-140			

Polycyclic Aromatic Hydrocarbons (PAH), Batch B8D2061

Blank (B8D2061-BLK1)			Prepared: 2018-04-30, Analyzed: 2018-05-01						
Acenaphthene	< 0.050	0.050 µg/L							
Acenaphthylene	< 0.200	0.200 µg/L							
Acridine	< 0.050	0.050 µg/L							
Anthracene	< 0.010	0.010 µg/L							
Benz(a)anthracene	< 0.010	0.010 µg/L							
Benzo(a)pyrene	< 0.010	0.010 µg/L							
Benzo(b+j)fluoranthene	< 0.050	0.050 µg/L							
Benzo(g,h,i)perylene	< 0.050	0.050 µg/L							
Benzo(k)fluoranthene	< 0.050	0.050 µg/L							
2-Chloronaphthalene	< 0.100	0.100 µg/L							
Chrysene	< 0.050	0.050 µg/L							
Dibenz(a,h)anthracene	< 0.010	0.010 µg/L							
Fluoranthene	< 0.030	0.030 µg/L							
Fluorene	< 0.050	0.050 µg/L							
Indeno(1,2,3-cd)pyrene	< 0.050	0.050 µg/L							
1-Methylnaphthalene	< 0.100	0.100 µg/L							
2-Methylnaphthalene	< 0.100	0.100 µg/L							
Naphthalene	< 0.200	0.200 µg/L							
Phenanthrene	< 0.100	0.100 µg/L							
Pyrene	< 0.020	0.020 µg/L							
Quinoline	< 0.050	0.050 µg/L							
Surrogate: Acridine-d9	3.61	µg/L	4.44		81	50-140			
Surrogate: Naphthalene-d8	4.03	µg/L	4.44		91	50-140			
Surrogate: Perylene-d12	4.33	µg/L	4.44		97	50-140			

LCS (B8D2061-BS1)			Prepared: 2018-04-30, Analyzed: 2018-05-01						
Acenaphthene	3.48	0.050 µg/L	4.40		79	58-125			
Acenaphthylene	3.53	0.200 µg/L	4.40		80	54-128			
Acridine	3.46	0.050 µg/L	4.44		78	50-112			
Anthracene	4.02	0.010 µg/L	4.44		91	66-125			
Benz(a)anthracene	4.27	0.010 µg/L	4.44		96	59-123			
Benzo(a)pyrene	4.24	0.010 µg/L	4.40		96	62-116			
Benzo(b+j)fluoranthene	7.70	0.050 µg/L	8.89		87	69-121			
Benzo(g,h,i)perylene	3.70	0.050 µg/L	4.40		84	58-129			
Benzo(k)fluoranthene	4.10	0.050 µg/L	4.44		92	67-128			
2-Chloronaphthalene	3.07	0.100 µg/L	4.44		69	50-140			
Chrysene	4.31	0.050 µg/L	4.42		98	58-125			



APPENDIX 2: QUALITY CONTROL RESULTS

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P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Polycyclic Aromatic Hydrocarbons (PAH), Batch B8D2061, Continued

LCS (B8D2061-BS1), Continued

Prepared: 2018-04-30, Analyzed: 2018-05-01

Dibenz(a,h)anthracene	3.67	0.010 µg/L	4.42		83	58-126			
Fluoranthene	4.37	0.030 µg/L	4.36		100	67-133			
Fluorene	3.62	0.050 µg/L	4.40		82	55-122			
Indeno(1,2,3-cd)pyrene	3.72	0.050 µg/L	4.44		84	62-126			
1-Methylnaphthalene	3.56	0.100 µg/L	4.38		81	53-125			
2-Methylnaphthalene	3.58	0.100 µg/L	4.36		82	52-122			
Naphthalene	3.30	0.200 µg/L	4.44		74	50-130			
Phenanthrene	3.94	0.100 µg/L	4.40		90	67-127			
Pyrene	4.30	0.020 µg/L	4.44		97	68-133			
Quinoline	5.67	0.050 µg/L	4.44		128	51-140			
Surrogate: Acridine-d9	3.88	µg/L	4.44		87	50-140			
Surrogate: Naphthalene-d8	3.67	µg/L	4.44		82	50-140			
Surrogate: Perylene-d12	4.09	µg/L	4.44		92	50-140			

LCS Dup (B8D2061-BSD1)

Prepared: 2018-04-30, Analyzed: 2018-05-01

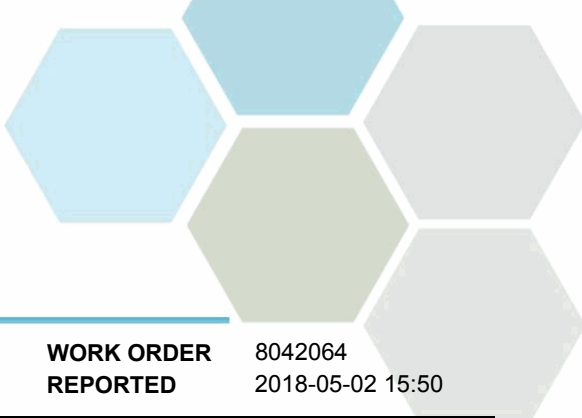
Acenaphthene	4.00	0.050 µg/L	4.40		91	58-125	14	16	
Acenaphthylene	4.14	0.200 µg/L	4.40		94	54-128	16	16	
Acridine	3.54	0.050 µg/L	4.44		80	50-112	2	26	
Anthracene	4.22	0.010 µg/L	4.44		95	66-125	5	14	
Benzo(a)anthracene	4.77	0.010 µg/L	4.44		107	59-123	11	23	
Benzo(a)pyrene	4.52	0.010 µg/L	4.40		103	62-116	6	16	
Benzo(b+j)fluoranthene	8.69	0.050 µg/L	8.89		98	69-121	12	14	
Benzo(g,h,i)perylene	3.79	0.050 µg/L	4.40		86	58-129	2	25	
Benzo(k)fluoranthene	4.41	0.050 µg/L	4.44		99	67-128	7	18	
2-Chloronaphthalene	3.67	0.100 µg/L	4.44		83	50-140	18	30	
Chrysene	4.77	0.050 µg/L	4.42		108	58-125	10	24	
Dibenz(a,h)anthracene	3.80	0.010 µg/L	4.42		86	58-126	3	23	
Fluoranthene	4.36	0.030 µg/L	4.36		100	67-133	< 1	18	
Fluorene	4.01	0.050 µg/L	4.40		91	55-122	10	16	
Indeno(1,2,3-cd)pyrene	3.87	0.050 µg/L	4.44		87	62-126	4	22	
1-Methylnaphthalene	4.13	0.100 µg/L	4.38		94	53-125	15	16	
2-Methylnaphthalene	4.04	0.100 µg/L	4.36		93	52-122	12	17	
Naphthalene	3.99	0.200 µg/L	4.44		90	50-130	19	18	
Phenanthrene	4.18	0.100 µg/L	4.40		95	67-127	6	14	
Pyrene	4.32	0.020 µg/L	4.44		97	68-133	< 1	18	
Quinoline	5.92	0.050 µg/L	4.44		133	51-140	4	12	
Surrogate: Acridine-d9	3.69	µg/L	4.44		83	50-140			
Surrogate: Naphthalene-d8	4.01	µg/L	4.44		90	50-140			
Surrogate: Perylene-d12	4.03	µg/L	4.44		91	50-140			

Total Metals, Batch B8D1813

Blank (B8D1813-BLK1)

Prepared: 2018-04-26, Analyzed: 2018-04-26

Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Beryllium, total	< 0.00010	0.00010 mg/L							
Bismuth, total	< 0.00010	0.00010 mg/L							
Boron, total	< 0.0050	0.0050 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Cobalt, total	< 0.00010	0.00010 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							



APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Total Metals, Batch B8D1813, Continued

Blank (B8D1813-BLK1), Continued

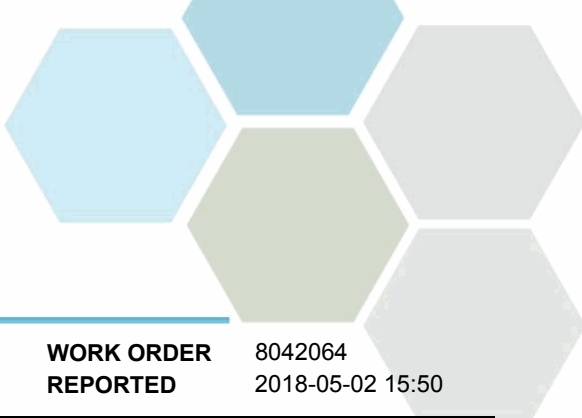
Prepared: 2018-04-26, Analyzed: 2018-04-26

Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Lithium, total	< 0.00010	0.00010 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Molybdenum, total	< 0.00010	0.00010 mg/L							
Nickel, total	< 0.00040	0.00040 mg/L							
Phosphorus, total	< 0.050	0.050 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Silicon, total	< 1.0	1.0 mg/L							
Silver, total	< 0.000050	0.000050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Sulfur, total	< 3.0	3.0 mg/L							
Tellurium, total	< 0.00050	0.00050 mg/L							
Thallium, total	< 0.000020	0.000020 mg/L							
Thorium, total	< 0.00010	0.00010 mg/L							
Tin, total	< 0.00020	0.00020 mg/L							
Titanium, total	< 0.0050	0.0050 mg/L							
Tungsten, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Vanadium, total	< 0.0010	0.0010 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
Zirconium, total	< 0.00010	0.00010 mg/L							

LCS (B8D1813-BS1)

Prepared: 2018-04-26, Analyzed: 2018-04-26

Aluminum, total	0.0214	0.0050 mg/L	0.0200		107	80-120			
Antimony, total	0.0204	0.00020 mg/L	0.0200		102	80-120			
Arsenic, total	0.0196	0.00050 mg/L	0.0200		98	80-120			
Barium, total	0.0191	0.0050 mg/L	0.0200		95	80-120			
Beryllium, total	0.0201	0.00010 mg/L	0.0200		101	80-120			
Bismuth, total	0.0212	0.00010 mg/L	0.0200		106	80-120			
Boron, total	0.0226	0.0050 mg/L	0.0200		113	80-120			
Cadmium, total	0.0203	0.000010 mg/L	0.0200		101	80-120			
Calcium, total	2.02	0.20 mg/L	2.00		101	80-120			
Chromium, total	0.0188	0.00050 mg/L	0.0200		94	80-120			
Cobalt, total	0.0194	0.00010 mg/L	0.0200		97	80-120			
Copper, total	0.0203	0.00040 mg/L	0.0200		101	80-120			
Iron, total	1.98	0.010 mg/L	2.00		99	80-120			
Lead, total	0.0204	0.00020 mg/L	0.0200		102	80-120			
Lithium, total	0.0197	0.00010 mg/L	0.0200		99	80-120			
Magnesium, total	1.99	0.010 mg/L	2.00		99	80-120			
Manganese, total	0.0198	0.00020 mg/L	0.0200		99	80-120			
Molybdenum, total	0.0196	0.00010 mg/L	0.0200		98	80-120			
Nickel, total	0.0195	0.00040 mg/L	0.0200		98	80-120			
Phosphorus, total	1.95	0.050 mg/L	2.00		97	80-120			
Potassium, total	1.89	0.10 mg/L	2.00		94	80-120			
Selenium, total	0.0211	0.00050 mg/L	0.0200		105	80-120			
Silicon, total	2.1	1.0 mg/L	2.00		103	80-120			
Silver, total	0.0204	0.000050 mg/L	0.0200		102	80-120			
Sodium, total	2.01	0.10 mg/L	2.00		101	80-120			
Strontium, total	0.0192	0.0010 mg/L	0.0200		96	80-120			
Sulfur, total	5.3	3.0 mg/L	5.00		106	80-120			
Tellurium, total	0.0203	0.00050 mg/L	0.0200		102	80-120			
Thallium, total	0.0204	0.000020 mg/L	0.0200		102	80-120			



APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Allterra Construction
P17-932

WORK ORDER REPORTED 8042064
2018-05-02 15:50

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B8D1813, Continued									
LCS (B8D1813-BS1), Continued					Prepared: 2018-04-26, Analyzed: 2018-04-26				
Thorium, total	0.0201	0.00010 mg/L	0.0200		100	80-120			
Tin, total	0.0205	0.00020 mg/L	0.0200		103	80-120			
Titanium, total	0.0197	0.0050 mg/L	0.0200		99	80-120			
Tungsten, total	0.0174	0.0010 mg/L	0.0200		87	80-120			
Uranium, total	0.0233	0.000020 mg/L	0.0200		117	80-120			
Vanadium, total	0.0182	0.0010 mg/L	0.0200		91	80-120			
Zinc, total	0.0222	0.0040 mg/L	0.0200		111	80-120			
Zirconium, total	0.0201	0.00010 mg/L	0.0200		100	80-120			
Reference (B8D1813-SRM1)					Prepared: 2018-04-26, Analyzed: 2018-04-26				
Aluminum, total	0.300	0.0050 mg/L	0.303		99	82-114			
Antimony, total	0.0510	0.00020 mg/L	0.0511		100	88-115			
Arsenic, total	0.122	0.00050 mg/L	0.118		103	88-111			
Barium, total	0.774	0.0050 mg/L	0.823		94	83-110			
Beryllium, total	0.0516	0.00010 mg/L	0.0496		104	80-119			
Boron, total	3.43	0.0050 mg/L	3.45		100	80-118			
Cadmium, total	0.0509	0.000010 mg/L	0.0495		103	90-110			
Calcium, total	11.7	0.20 mg/L	11.6		101	85-113			
Chromium, total	0.243	0.00050 mg/L	0.250		97	88-111			
Cobalt, total	0.0386	0.00010 mg/L	0.0377		102	90-114			
Copper, total	0.519	0.00040 mg/L	0.486		107	90-117			
Iron, total	0.508	0.010 mg/L	0.488		104	90-116			
Lead, total	0.212	0.00020 mg/L	0.204		104	90-110			
Lithium, total	0.407	0.00010 mg/L	0.403		101	79-118			
Magnesium, total	4.04	0.010 mg/L	3.79		106	88-116			
Manganese, total	0.109	0.00020 mg/L	0.109		100	88-108			
Molybdenum, total	0.199	0.00010 mg/L	0.198		101	88-110			
Nickel, total	0.249	0.00040 mg/L	0.249		100	90-112			
Phosphorus, total	0.216	0.050 mg/L	0.227		95	72-118			
Potassium, total	7.52	0.10 mg/L	7.21		104	87-116			
Selenium, total	0.134	0.00050 mg/L	0.121		110	90-122			
Sodium, total	7.85	0.10 mg/L	7.54		104	86-118			
Strontium, total	0.376	0.0010 mg/L	0.375		100	86-110			
Thallium, total	0.0843	0.000020 mg/L	0.0805		105	90-113			
Uranium, total	0.0304	0.000020 mg/L	0.0306		99	88-112			
Vanadium, total	0.364	0.0010 mg/L	0.386		94	87-110			
Zinc, total	2.65	0.0040 mg/L	2.49		106	90-113			

Total Metals, Batch B8D2042

Blank (B8D2042-BLK1)					Prepared: 2018-04-29, Analyzed: 2018-04-30				
Mercury, total	< 0.000010	0.000010 mg/L							
Reference (B8D2042-SRM1)					Prepared: 2018-04-29, Analyzed: 2018-04-30				
Mercury, total	0.00461	0.000010 mg/L	0.00489		94	80-120			

QC Qualifiers:

S09 The surrogate recovery for this sample is outside of established control limits .

Client information	Project information	Laboratory information	COC information
Allterra Construction 2158 Millstream Road Victoria, BC V9B 6H4 Phone: (250) 508-0726 Fax:	Number: [none] Sample count: 10 TAT: 5	CARO Analytical Services #110 - 4011 Viking Way Richmond, BC V6V 2K9 Phone: (604) 279-1499 Fax: (604) 279-1599	Number: April 2018 Shipped via: Harbour Air Tracking #: SDG:

#		Analyses	Containers
# 1	MW6 04/24/2018 9:15 Grab / Water	Alkalinity, all (KEL) TAT: 5 Anions in Water by IC, 5 Analytes (KEL) TAT: 5 Colour, True - 456 nm (KEL) TAT: 5 Conductivity in Water (RMD) TAT: 5 L/HEPH in Water (RMD) TAT: 5 Mercury, diss CVAFS Reg & Low (RMD) TAT: 5 Mercury, total CVAFS Reg & Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5 pH in Water (RMD) TAT: 5 Solids, Total Suspended (RMD) TAT: 5 Turbidity (RMD) TAT: 5	C03_250 mL Glass (EPH/PAH) (1) C05_125 mL Plastic (Metals) (1) C06_40 mL Vial (Mercury) (1) C11_1 L Plastic (General) (1) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (1) S08_250 mL Plastic (H2SO4) (1)
# 2	MW3S 04/24/2018 11:30 Grab / Water	Alkalinity, all (KEL) TAT: 5 Anions in Water by IC, 5 Analytes (KEL) TAT: 5 Colour, True - 456 nm (KEL) TAT: 5 Conductivity in Water (RMD) TAT: 5 L/HEPH in Water (RMD) TAT: 5 Mercury, diss CVAFS Reg & Low (RMD) TAT: 5 Mercury, total CVAFS Reg & Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5 pH in Water (RMD) TAT: 5 Solids, Total Suspended (RMD) TAT: 5 Turbidity (RMD) TAT: 5	C03_250 mL Glass (EPH/PAH) (1) C05_125 mL Plastic (Metals) (1) C06_40 mL Vial (Mercury) (1) C11_1 L Plastic (General) (1) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (1) S08_250 mL Plastic (H2SO4) (1)
# 3	MW3D 04/24/2018 12:00 Grab / Water	Alkalinity, all (KEL) TAT: 5 Anions in Water by IC, 5 Analytes (KEL) TAT: 5 Colour, True - 456 nm (KEL) TAT: 5 Conductivity in Water (RMD) TAT: 5 L/HEPH in Water (RMD) TAT: 5 Mercury, diss CVAFS Reg & Low (RMD) TAT: 5 Mercury, total CVAFS Reg & Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5 pH in Water (RMD) TAT: 5 Solids, Total Suspended (RMD) TAT: 5 Turbidity (RMD) TAT: 5	C03_250 mL Glass (EPH/PAH) (1) C05_125 mL Plastic (Metals) (1) C06_40 mL Vial (Mercury) (1) C11_1 L Plastic (General) (1) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (1) S08_250 mL Plastic (H2SO4) (1)

Submission Key F115-FAP-4090		SUBMITTED :4/25/2018 5:27:00 AM		Page 2 of 3
# 4	MW2 04/24/2018 5:13 Grab / Water	Analyses Alkalinity, all (KEL) TAT: 5 Anions in Water by IC, 5 Analytes (KEL) TAT: 5 Colour, True - 456 nm (KEL) TAT: 5 Conductivity in Water (RMD) TAT: 5 L/HEPH in Water (RMD) TAT: 5 Mercury, diss CVAFS Reg & Low (RMD) TAT: 5 Mercury, total CVAFS Reg & Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5 pH in Water (RMD) TAT: 5 Solids, Total Suspended (RMD) TAT: 5 Turbidity (RMD) TAT: 5	Containers C03_250 mL Glass (EPH/PAH) (1) C05_125 mL Plastic (Metals) (1) C06_40 mL Vial (Mercury) (1) C11_1 L Plastic (General) (1) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (1) S08_250 mL Plastic (H2SO4) (1)	
# 5	SB1 04/24/2018 10:50 Grab / Water	Analyses Alkalinity, all (KEL) TAT: 5 Anions in Water by IC, 5 Analytes (KEL) TAT: 5 Colour, True - 456 nm (KEL) TAT: 5 Conductivity in Water (RMD) TAT: 5 L/HEPH in Water (RMD) TAT: 5 Mercury, diss CVAFS Reg & Low (RMD) TAT: 5 Mercury, total CVAFS Reg & Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5 pH in Water (RMD) TAT: 5 Solids, Total Suspended (RMD) TAT: 5 Turbidity (RMD) TAT: 5	Containers C03_250 mL Glass (EPH/PAH) (1) C05_125 mL Plastic (Metals) (1) C06_40 mL Vial (Mercury) (1) C11_1 L Plastic (General) (1) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (1) S08_250 mL Plastic (H2SO4) (1)	
# 6	SB2 04/24/2018 10:30 Grab / Water	Analyses Alkalinity, all (KEL) TAT: 5 Anions in Water by IC, 5 Analytes (KEL) TAT: 5 Colour, True - 456 nm (KEL) TAT: 5 Conductivity in Water (RMD) TAT: 5 L/HEPH in Water (RMD) TAT: 5 Mercury, diss CVAFS Reg & Low (RMD) TAT: 5 Mercury, total CVAFS Reg & Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5 pH in Water (RMD) TAT: 5 Solids, Total Suspended (RMD) TAT: 5 Turbidity (RMD) TAT: 5	Containers C03_250 mL Glass (EPH/PAH) (1) C05_125 mL Plastic (Metals) (1) C06_40 mL Vial (Mercury) (1) C11_1 L Plastic (General) (1) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (1) S08_250 mL Plastic (H2SO4) (1)	
# 7	SB3 04/24/2018 10:15 Grab / Water	Analyses Alkalinity, all (KEL) TAT: 5 Anions in Water by IC, 5 Analytes (KEL) TAT: 5 Colour, True - 456 nm (KEL) TAT: 5 Conductivity in Water (RMD) TAT: 5 L/HEPH in Water (RMD) TAT: 5 Mercury, diss CVAFS Reg & Low (RMD) TAT: 5 Mercury, total CVAFS Reg & Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5 pH in Water (RMD) TAT: 5 Solids, Total Suspended (RMD) TAT: 5 Turbidity (RMD) TAT: 5	Containers C03_250 mL Glass (EPH/PAH) (1) C05_125 mL Plastic (Metals) (1) C06_40 mL Vial (Mercury) (1) C11_1 L Plastic (General) (1) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (1) S08_250 mL Plastic (H2SO4) (1)	

#	Sample ID / Date / Time / Grab / Water	Analyses	Containers
# 8	LE-1 04/24/2018 13:30 Grab / Water	Alkalinity, all (KEL) TAT: 5 Anions in Water by IC, 5 Analytes (KEL) TAT: 5 Colour, True - 456 nm (KEL) TAT: 5 Conductivity in Water (RMD) TAT: 5 L/HEPH in Water (RMD) TAT: 5 Mercury, diss CVAFS Reg & Low (RMD) TAT: 5 Mercury, total CVAFS Reg & Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5 pH in Water (RMD) TAT: 5 Solids, Total Suspended (RMD) TAT: 5 Turbidity (RMD) TAT: 5	C03_250 mL Glass (EPH/PAH) (1) C05_125 mL Plastic (Metals) (1) C06_40 mL Vial (Mercury) (1) C11_1 L Plastic (General) (1) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (1) S08_250 mL Plastic (H2SO4) (1)
# 9	SW1 04/24/2018 12:20 Grab / Water	Alkalinity, all (KEL) TAT: 5 Anions in Water by IC, 5 Analytes (KEL) TAT: 5 Chromium, speciated total (RMD) TAT: 5 Colour, True - 456 nm (KEL) TAT: 5 Conductivity in Water (RMD) TAT: 5 L/HEPH in Water (RMD) TAT: 5 Mercury, diss CVAFS Reg & Low (RMD) TAT: 5 Mercury, total CVAFS Reg & Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5 pH in Water (RMD) TAT: 5 Solids, Total Suspended (RMD) TAT: 5 Turbidity (RMD) TAT: 5	C03_250 mL Glass (EPH/PAH) (1) C05_125 mL Plastic (Metals) (1) C06_40 mL Vial (Mercury) (1) C11_1 L Plastic (General) (1) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (1) S08_250 mL Plastic (H2SO4) (1)
# 10	SW1 04/24/2018 12:20 Grab / Water	Alkalinity, all (KEL) TAT: 5 Anions in Water by IC, 5 Analytes (KEL) TAT: 5 Chromium, speciated total (RMD) TAT: 5 Colour, True - 456 nm (KEL) TAT: 5 Conductivity in Water (RMD) TAT: 5 L/HEPH in Water (RMD) TAT: 5 Mercury, diss CVAFS Reg & Low (RMD) TAT: 5 Mercury, total CVAFS Reg & Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5 pH in Water (RMD) TAT: 5 Solids, Total Suspended (RMD) TAT: 5 Turbidity (RMD) TAT: 5	C03_250 mL Glass (EPH/PAH) (1) C05_125 mL Plastic (Metals) (1) C06_40 mL Vial (Mercury) (1) C11_1 L Plastic (General) (1) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (1) S08_250 mL Plastic (H2SO4) (1)

Relinquished by	Date/Time	Accepted by	Date/Time