

APPENDIX D

ANALYTICAL LABORATORY REPORTS w/CHAIN-OF-CUSTODY RECORDS



Element Materials Technology Lafayette
2417 W. Pinhook Road
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Website: www.element.com

January 05, 2016

Greg Miller
ICON Environmental Services
2049 Commercial Drive
Port Allen, LA 70767
TEL: (225) 344-8490
FAX (225) 344-6654

RE: East White Lake VPSB 9077-041-0800

Order No.: 15121163

Dear Greg Miller:

Element Materials Technology Lafayette received 1 sample(s) on 12/23/2015 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

All soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as –dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261-14-6. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

A handwritten signature in blue ink, appearing to read 'Cristina Thibeaux', is written over a light blue horizontal line.

Cristina Thibeaux
Customer Service Supervisor
2417 W. Pinhook Road
Lafayette, LA 70508-3344



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Case Narrative

WO#: 15121163
Date: 1/5/2016

CLIENT: ICON Environmental Services
Project: East White Lake VPSB 9077-041-0800

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

In the Mercury analytical batch 49494, the MS/MSD (sample ID: 15121033-001) recovery failed low. A post digestion/post digestion duplicate was performed and recovery failed low as well, suggesting matrix interference. The LCS/LCSD recovery met the acceptance criteria.

Note: The 8015 DRO/ORO Method Blank in batch 17802 indicated the presence of low level detections for DRO and ORO above the PQL. The associated "TBA-1D" sample is reported with a 'B' flag qualifier for these target ranges because the sample results are not greater than ten times the level detected in the method blank, indicating a possible elevated bias to the result. Due to lack of additional volume, the sample could not be re-extracted.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).



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Analytical Report

(consolidated)

WO#: 15121163

Date Reported: 1/5/2016

CLIENT: ICON Environmental Services **Collection Date:** 12/22/2015 10:45:00 AM
Project: East White Lake VPSB 9077-041-0800
Lab ID: 15121163-001 **Matrix:** AQUEOUS
Client Sample ID TBA-1D

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	0.245	0.133	B	mg/L	1	12/28/2015 7:54:00 PM
TPH (Oil Range)	0.579	0.122	B	mg/L	1	12/28/2015 7:54:00 PM
Surr: 4-Terphenyl-d14	76.3	36.8 - 128		%REC	1	12/28/2015 7:54:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	12/29/2015 1:58:00 AM
Surr: alpha, alpha, alpha-Trifluorotoluene	98.8	70 - 130		%REC	1	12/29/2015 1:58:00 AM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	12/29/2015 1:58:00 AM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	12/29/2015 1:58:00 AM
Toluene	< 0.0100	0.0100		mg/L	1	12/29/2015 1:58:00 AM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	12/29/2015 1:58:00 AM
Surr: alpha, alpha, alpha-Trifluorotoluene	96.8	70 - 130		%REC	1	12/29/2015 1:58:00 AM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: TJH
Mercury	< 0.0002	0.0002		mg/L	1	12/29/2015 1:14:04 PM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	0.835	0.400		mg/L	4	12/30/2015 10:37:55 AM
Chloride	806	12.5		mg/L	50	12/30/2015 9:42:57 AM
Sulfate	1.18	1.00		mg/L	4	12/30/2015 10:37:55 AM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	0.014	0.010		mg/L	1	1/4/2016 3:57:23 PM
Barium	0.996	0.010		mg/L	1	1/4/2016 3:57:23 PM
Cadmium	< 0.005	0.005		mg/L	1	1/4/2016 3:57:23 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15121163

Date Reported: 1/5/2016

CLIENT: ICON Environmental Services **Collection Date:** 12/22/2015 10:45:00 AM
Project: East White Lake VPSB 9077-041-0800
Lab ID: 15121163-001 **Matrix:** AQUEOUS
Client Sample ID TBA-1D

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS		SW6010B			Analyst: STS	
Calcium	115	0.500		mg/L	1	1/4/2016 3:57:23 PM
Chromium	< 0.010	0.010		mg/L	1	1/4/2016 3:57:23 PM
Iron	1.53	0.100		mg/L	10	1/4/2016 4:23:56 PM
Lead	< 0.010	0.010		mg/L	1	1/4/2016 3:57:23 PM
Magnesium	40.1	0.500		mg/L	1	1/4/2016 3:57:23 PM
Manganese	0.217	0.010		mg/L	1	1/4/2016 3:57:23 PM
Potassium	< 5.00	5.00		mg/L	1	1/4/2016 3:57:23 PM
Selenium	< 0.020	0.020		mg/L	1	1/4/2016 3:57:23 PM
Sodium	369	50.0		mg/L	10	1/4/2016 4:23:56 PM
Strontium	0.936	0.010		mg/L	1	1/4/2016 3:57:23 PM
Zinc	< 0.010	0.010		mg/L	1	1/4/2016 3:57:23 PM
ALKALINITY; TOTAL, CARB, BICARB		SM2320 B			Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO3)	355	10.0		mgCaCO3/L	1	12/30/2015 11:54:25 AM
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0		mgCaCO3/L	1	12/30/2015 11:54:25 AM
Alkalinity, Total (As CaCO3)	355	10.0		mgCaCO3/L	1	12/30/2015 11:54:25 AM
TOTAL DISSOLVED SOLIDS		SM2540C			Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	1,560	100		mg/L	5	12/23/2015 3:05:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
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QC SUMMARY REPORT

WO#: 15121163
 05-Jan-16

Client: ICON Environmental Services
Project: East White Lake VPSB 9077-041-0800

BatchID: 17802

Sample ID	LCS-D-17802	SampType: LCS	TestCode: 8015_DO_W	Units: mg/L	Prep Date: 12/28/2015	RunNo: 49505						
Client ID:	LCSW	Batch ID: 17802	TestNo: SW8015B	SW3510C	Analysis Date: 12/28/2015	SeqNo: 1209628						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
TPH (Diesel Range)	2.64	0.130	3.000	0	88.1	62.3	110				B	
Surr: 4-Terphenyl-d14	0.0453		0.1000		45.3	36.8	128					

Sample ID	LCSD-D-17802	SampType: LCSD	TestCode: 8015_DO_W	Units: mg/L	Prep Date: 12/28/2015	RunNo: 49505						
Client ID:	LCSS02	Batch ID: 17802	TestNo: SW8015B	SW3510C	Analysis Date: 12/28/2015	SeqNo: 1209629						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
TPH (Diesel Range)	2.73	0.130	3.000	0	90.9	62.3	110	2.643	3.13	14.1	B	
Surr: 4-Terphenyl-d14	0.0414		0.1000		41.4	36.8	128		0	40		

Sample ID	LCSD-M-17802	SampType: LCSD	TestCode: 8015_DO_W	Units: mg/L	Prep Date: 12/28/2015	RunNo: 49505						
Client ID:	LCSS02	Batch ID: 17802	TestNo: SW8015B	SW3510C	Analysis Date: 12/28/2015	SeqNo: 1209630						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
TPH (Oil Range)	2.57	0.120	3.000	0	85.8	63.8	124	2.725	5.73	23.2	B	
Surr: 4-Terphenyl-d14	0.0401		0.1000		40.1	36.8	128		0	40		

Sample ID	LCS-M-17802	SampType: LCS	TestCode: 8015_DO_W	Units: mg/L	Prep Date: 12/28/2015	RunNo: 49505						
Client ID:	LCSW	Batch ID: 17802	TestNo: SW8015B	SW3510C	Analysis Date: 12/28/2015	SeqNo: 1209631						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
TPH (Oil Range)	2.72	0.120	3.000	0	90.8	63.8	124				B	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 15121163
 05-Jan-16

Client: ICON Environmental Services
Project: East White Lake VPSB 9077-041-0800

BatchID: 17802

Sample ID	LCS-M-17802	SampType:	LCS	TestCode:	8015_DO_W	Units:	mg/L	Prep Date:	12/28/2015	RunNo:	49505			
Client ID:	LCSW	Batch ID:	17802	TestNo:	SW8015B	SW3510C		Analysis Date:	12/28/2015	SeqNo:	1209631			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr:	4-Terphenyl-d14	0.0761			0.1000			76.1	36.8	128				

Sample ID	MB-17802	SampType:	MBLK	TestCode:	8015_DO_W	Units:	mg/L	Prep Date:	12/28/2015	RunNo:	49505			
Client ID:	PBW	Batch ID:	17802	TestNo:	SW8015B	SW3510C		Analysis Date:	12/28/2015	SeqNo:	1209824			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel Range)		0.157		0.130										
TPH (Oil Range)		0.400		0.120										
Surr:	4-Terphenyl-d14	0.0360			0.1000			36.0	36.8	128				S*

NOTES:

S*: Spike outside of recovery limits. Sample(s) could not be re-extracted due to insufficient volume or holding time constraints.
 B - Analyte found in the method blank.

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	M	Matrix Interference	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
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QC SUMMARY REPORT

WO#: 15121163
 05-Jan-16

Client: ICON Environmental Services
Project: East White Lake VPSB 9077-041-0800

BatchID: 17825

Sample ID	15121033-001EMS	SampType: MS	TestCode: HG_W_7470	Units: mg/L	Prep Date: 12/29/2015	RunNo: 49494					
Client ID:	ZZZZZZ	Batch ID: 17825	TestNo: SW7470A	Analysis Date: 12/29/2015	SeqNo: 1208887						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.0064	0.0002	0.0100	0	64.5	75	125				S

Sample ID	15121033-001EMSD	SampType: MSD	TestCode: HG_W_7470	Units: mg/L	Prep Date: 12/29/2015	RunNo: 49494					
Client ID:	ZZZZZZ	Batch ID: 17825	TestNo: SW7470A	Analysis Date: 12/29/2015	SeqNo: 1208888						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.0066	0.0002	0.0100	0	65.5	75	125	0.0064	1.63	20	S

Sample ID	MB-17825	SampType: MBLK	TestCode: HG_W_7470	Units: mg/L	Prep Date: 12/29/2015	RunNo: 49494					
Client ID:	PBW	Batch ID: 17825	TestNo: SW7470A	Analysis Date: 12/29/2015	SeqNo: 1208911						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.0002	0.0002									

Sample ID	LCS-17825	SampType: LCS	TestCode: HG_W_7470	Units: mg/L	Prep Date: 12/29/2015	RunNo: 49494					
Client ID:	LCSW	Batch ID: 17825	TestNo: SW7470A	Analysis Date: 12/29/2015	SeqNo: 1208912						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.0100	0.0002	0.0100	0	100	80	120				

Qualifiers:

- | | | | | | |
|----|---|----|---|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| M | Matrix Interference | ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits |
| RL | Reporting Limit | S | Spike Recovery outside accepted recovery limits | U | Analyte not detected |
| W | Sample container temperature is out of limit as specified at testcode | | | | |



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QC SUMMARY REPORT

WO#: 15121163
 05-Jan-16

Client: ICON Environmental Services
Project: East White Lake VPSB 9077-041-0800

BatchID: 17825

Sample ID	LCSD-17825	SampType:	LCSD	TestCode:	HG_W_7470	Units:	mg/L	Prep Date:	12/29/2015	RunNo:	49494											
Client ID:	LCSS02	Batch ID:	17825	TestNo:	SW7470A			Analysis Date:	12/29/2015	SeqNo:	1208913											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
Mercury		0.0100		0.0002		0.0100		0		99.9		80		120		0.0100		0.628		20		

Qualifiers:

- | | | | | | |
|----|---|----|---|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| M | Matrix Interference | ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits |
| RL | Reporting Limit | S | Spike Recovery outside accepted recovery limits | U | Analyte not detected |
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QC SUMMARY REPORT

WO#: 15121163
 05-Jan-16

Client: ICON Environmental Services
Project: East White Lake VPSB 9077-041-0800

BatchID: 17859

Sample ID	MB-17859	SampType:	MBLK	TestCode:	6010_W	Units:	mg/L	Prep Date:	12/31/2015	RunNo:	49591					
Client ID:	PBW	Batch ID:	17859	TestNo:	SW6010B			Analysis Date:	1/4/2016	SeqNo:	1212075					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	< 0.010	0.010														
Barium	< 0.010	0.010														
Cadmium	< 0.005	0.005														
Calcium	< 0.500	0.500														
Chromium	< 0.010	0.010														
Iron	< 0.010	0.010														
Lead	< 0.010	0.010														
Magnesium	< 0.500	0.500														
Manganese	< 0.010	0.010														
Potassium	< 5.00	5.00														
Selenium	< 0.020	0.020														
Sodium	< 5.00	5.00														
Strontium	< 0.010	0.010														
Zinc	< 0.010	0.010														

Sample ID	LCS-17859	SampType:	LCS	TestCode:	6010_W	Units:	mg/L	Prep Date:	12/31/2015	RunNo:	49591					
Client ID:	LCSW	Batch ID:	17859	TestNo:	SW6010B			Analysis Date:	1/4/2016	SeqNo:	1212076					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.484	0.010	0.500	0	96.9	80	120									
Barium	0.479	0.010	0.500	0	95.7	80	120									
Cadmium	0.473	0.005	0.500	0	94.5	80	120									
Calcium	47.4	0.500	50.00	0	94.8	80	120									
Chromium	0.477	0.010	0.500	0	95.4	80	120									
Iron	0.492	0.010	0.500	0	98.3	80	120									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
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QC SUMMARY REPORT

WO#: 15121163
 05-Jan-16

Client: ICON Environmental Services
Project: East White Lake VPSB 9077-041-0800

BatchID: 17859

Sample ID	LCS-17859	SampType:	LCS	TestCode:	6010_W	Units:	mg/L	Prep Date:	12/31/2015	RunNo:	49591											
Client ID:	LCSW	Batch ID:	17859	TestNo:	SW6010B			Analysis Date:	1/4/2016	SeqNo:	1212076											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
Lead		0.475		0.010		0.500		0		94.9		80		120								
Magnesium		47.8		0.500		50.00		0		95.6		80		120								
Manganese		0.478		0.010		0.500		0		95.5		80		120								
Potassium		47.2		5.00		50.00		0		94.4		80		120								
Selenium		0.468		0.020		0.500		0		93.7		80		120								
Sodium		46.9		5.00		50.00		0		93.8		80		120								
Strontium		0.484		0.010		0.500		0		96.9		80		120								
Zinc		0.474		0.010		0.500		0		94.8		80		120								

Sample ID	LCSD-17859	SampType:	LCSD	TestCode:	6010_W	Units:	mg/L	Prep Date:	12/31/2015	RunNo:	49591											
Client ID:	LCSS02	Batch ID:	17859	TestNo:	SW6010B			Analysis Date:	1/4/2016	SeqNo:	1212077											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
Arsenic		0.476		0.010		0.500		0		95.2		80		120		0.484		1.73		20		
Barium		0.482		0.010		0.500		0		96.4		80		120		0.479		0.645		20		
Cadmium		0.478		0.005		0.500		0		95.7		80		120		0.473		1.20		20		
Calcium		47.8		0.500		50.00		0		95.7		80		120		47.42		0.882		20		
Chromium		0.480		0.010		0.500		0		96.1		80		120		0.477		0.731		20		
Iron		0.495		0.010		0.500		0		99.0		80		120		0.492		0.669		20		
Lead		0.480		0.010		0.500		0		96.0		80		120		0.475		1.15		20		
Magnesium		48.3		0.500		50.00		0		96.6		80		120		47.79		1.10		20		
Manganese		0.480		0.010		0.500		0		96.1		80		120		0.478		0.626		20		
Potassium		46.8		5.00		50.00		0		93.7		80		120		47.22		0.787		20		
Selenium		0.484		0.020		0.500		0		96.7		80		120		0.468		3.21		20		
Sodium		49.3		5.00		50.00		0		98.5		80		120		46.88		4.95		20		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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 Website: www.element.com

QC SUMMARY REPORT

WO#: 15121163
 05-Jan-16

Client: ICON Environmental Services
Project: East White Lake VPSB 9077-041-0800

BatchID: 17859

Sample ID	LCSD-17859	SampType:	LCSD	TestCode:	6010_W	Units:	mg/L	Prep Date:	12/31/2015	RunNo:	49591					
Client ID:	LCSS02	Batch ID:	17859	TestNo:	SW6010B			Analysis Date:	1/4/2016	SeqNo:	1212077					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Strontium		0.484		0.010		0.500		0		96.9	80	120	0.484	0	20	
Zinc		0.477		0.010		0.500		0		95.4	80	120	0.474	0.652	20	

Sample ID	15121163-001EMS	SampType:	MS	TestCode:	6010_W	Units:	mg/L	Prep Date:	12/31/2015	RunNo:	49591					
Client ID:	TBA-1D	Batch ID:	17859	TestNo:	SW6010B			Analysis Date:	1/4/2016	SeqNo:	1212079					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		0.473		0.010		0.500		0.014		91.8	75	125				
Barium		1.46		0.010		0.500		0.996		92.5	75	125				
Cadmium		0.454		0.005		0.500		0.001		90.6	75	125				
Calcium		163		0.500		50.00		114.9		97.0	75	125				
Chromium		0.458		0.010		0.500		0		91.6	75	125				
Lead		0.451		0.010		0.500		0		90.1	75	125				
Magnesium		88.6		0.500		50.00		40.09		97.1	75	125				
Manganese		0.677		0.010		0.500		0.217		92.1	75	125				
Potassium		51.4		5.00		50.00		4.651		93.4	75	125				
Selenium		0.460		0.020		0.500		0.015		89.0	75	125				
Zinc		0.456		0.010		0.500		0		91.1	75	125				

Sample ID	15121163-001EMSD	SampType:	MSD	TestCode:	6010_W	Units:	mg/L	Prep Date:	12/31/2015	RunNo:	49591					
Client ID:	TBA-1D	Batch ID:	17859	TestNo:	SW6010B			Analysis Date:	1/4/2016	SeqNo:	1212082					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

- | | | | | | |
|----|---|----|---|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| M | Matrix Interference | ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits |
| RL | Reporting Limit | S | Spike Recovery outside accepted recovery limits | U | Analyte not detected |
| W | Sample container temperature is out of limit as specified at testcode | | | | |



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QC SUMMARY REPORT

WO#: 15121163
 05-Jan-16

Client: ICON Environmental Services
Project: East White Lake VPSB 9077-041-0800

BatchID: 17859

Sample ID	15121163-001EMSD	SampType:	MSD	TestCode:	6010_W	Units:	mg/L	Prep Date:	12/31/2015	RunNo:	49591
Client ID:	TBA-1D	Batch ID:	17859	TestNo:	SW6010B			Analysis Date:	1/4/2016	SeqNo:	1212082
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.473	0.010	0.500	0.014	91.8	75	125	0.473	0	20	
Barium	1.45	0.010	0.500	0.996	90.3	75	125	1.459	0.757	20	
Cadmium	0.452	0.005	0.500	0.001	90.2	75	125	0.454	0.529	20	
Calcium	162	0.500	50.00	114.9	95.0	75	125	163.4	0.614	20	
Chromium	0.457	0.010	0.500	0	91.4	75	125	0.458	0.218	20	
Lead	0.448	0.010	0.500	0	89.6	75	125	0.451	0.623	20	
Magnesium	86.9	0.500	50.00	40.09	93.5	75	125	88.65	2.04	20	
Manganese	0.674	0.010	0.500	0.217	91.4	75	125	0.677	0.518	20	
Potassium	51.1	5.00	50.00	4.651	93.0	75	125	51.35	0.410	20	
Selenium	0.451	0.020	0.500	0.015	87.2	75	125	0.460	1.95	20	
Zinc	0.456	0.010	0.500	0	91.3	75	125	0.456	0.132	20	

Sample ID	15121163-001EMS	SampType:	MS	TestCode:	6010_W	Units:	mg/L	Prep Date:	12/31/2015	RunNo:	49591
Client ID:	TBA-1D	Batch ID:	17859	TestNo:	SW6010B			Analysis Date:	1/4/2016	SeqNo:	1212085
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	2.02	0.100	0.500	1.534	97.8	75	125				
Sodium	424	50.0	50.00	369.1	111	75	125				
Strontium	1.44	0.100	0.500	0.969	94.8	75	125				

Qualifiers:

- | | | | | | |
|----|---|----|---|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| M | Matrix Interference | ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits |
| RL | Reporting Limit | S | Spike Recovery outside accepted recovery limits | U | Analyte not detected |
| W | Sample container temperature is out of limit as specified at testcode | | | | |



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QC SUMMARY REPORT

WO#: 15121163
 05-Jan-16

Client: ICON Environmental Services
Project: East White Lake VPSB 9077-041-0800

BatchID: 17859

Sample ID	15121163-001EMSD	SampType:	MSD	TestCode:	6010_W	Units:	mg/L	Prep Date:	12/31/2015	RunNo:	49591
Client ID:	TBA-1D	Batch ID:	17859	TestNo:	SW6010B			Analysis Date:	1/4/2016	SeqNo:	1212086
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	2.02	0.100	0.500	1.534	96.8	75	125	2.023	0.247	20	
Sodium	416	50.0	50.00	369.1	93.2	75	125	424.4	2.07	20	
Strontium	1.42	0.100	0.500	0.969	90.2	75	125	1.443	1.61	20	

Qualifiers:

- | | | | | | |
|----|---|----|---|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| M | Matrix Interference | ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits |
| RL | Reporting Limit | S | Spike Recovery outside accepted recovery limits | U | Analyte not detected |
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QC SUMMARY REPORT

WO#: 15121163
 05-Jan-16

Client: ICON Environmental Services
Project: East White Lake VPSB 9077-041-0800

BatchID: R49380

Sample ID	MB-R49380	SampType:	MBLK	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	49380											
Client ID:	PBW	Batch ID:	R49380	TestNo:	SM2540C			Analysis Date:	12/23/2015	SeqNo:	1209602											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
Total Dissolved Solids (Residue, Filterable)		< 20.0		20.0																		

Sample ID	LCS-R49380	SampType:	LCS	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	49380											
Client ID:	LCSW	Batch ID:	R49380	TestNo:	SM2540C			Analysis Date:	12/23/2015	SeqNo:	1209603											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
Total Dissolved Solids (Residue, Filterable)		992		20.0		1,000		0		99.2		85		115								

Sample ID	LCSD-R49380	SampType:	LCSD	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	49380											
Client ID:	LCSS02	Batch ID:	R49380	TestNo:	SM2540C			Analysis Date:	12/23/2015	SeqNo:	1209604											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
Total Dissolved Solids (Residue, Filterable)		991		20.0		1,000		0		99.1		85		115		992.0		0.101		10		

Sample ID	15120984-001BDUP	SampType:	DUP	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	49380											
Client ID:	ZZZZZZ	Batch ID:	R49380	TestNo:	SM2540C			Analysis Date:	12/23/2015	SeqNo:	1209608											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
Total Dissolved Solids (Residue, Filterable)		19,300		2,000												19,400		0.517		10		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 15121163
 05-Jan-16

Client: ICON Environmental Services
Project: East White Lake VPSB 9077-041-0800

BatchID: R49380

Sample ID	15120984-001BDUP	SampType:	DUP	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	49380			
Client ID:	ZZZZZZ	Batch ID:	R49380	TestNo:	SM2540C			Analysis Date:	12/23/2015	SeqNo:	1209608			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID	15121033-002GDUP	SampType:	DUP	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	49380			
Client ID:	ZZZZZZ	Batch ID:	R49380	TestNo:	SM2540C			Analysis Date:	12/23/2015	SeqNo:	1209611			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterable)		7,100		500							6,925	2.50	10	

Qualifiers:

- | | | | | | |
|----|---|----|---|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| M | Matrix Interference | ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits |
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QC SUMMARY REPORT

WO#: 15121163
 05-Jan-16

Client: ICON Environmental Services
Project: East White Lake VPSB 9077-041-0800

BatchID: R49487

Sample ID	15121174-001AMS	SampType:	MS	TestCode:	8021_BTEX_	Units:	mg/L	Prep Date:		RunNo:	49487
Client ID:	ZZZZZZ	Batch ID:	R49487	TestNo:	SW8021B			Analysis Date:	12/29/2015	SeqNo:	1208686
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.173	0.00500	0.05000	0.1367	73.4	26	161				E
Ethylbenzene	0.133	0.00500	0.05000	0.1003	65.8	66	153				SM
Toluene	0.0539	0.0100	0.05000	0.005100	97.6	68	141				
Xylenes, Total	0.175	0.0500	0.1500	0.03410	94.1	48	154				
Surr: alpha, alpha, alpha-Trifluorotoluene	0.0513		0.05000		103	70	130				

Sample ID	15121174-001AMSD	SampType:	MSD	TestCode:	8021_BTEX_	Units:	mg/L	Prep Date:		RunNo:	49487
Client ID:	ZZZZZZ	Batch ID:	R49487	TestNo:	SW8021B			Analysis Date:	12/29/2015	SeqNo:	1208687
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.174	0.00500	0.05000	0.1367	73.8	26	161	0.1734	0.115	20	E
Ethylbenzene	0.134	0.00500	0.05000	0.1003	67.2	66	153	0.1332	0.524	20	
Toluene	0.0538	0.0100	0.05000	0.005100	97.4	68	141	0.05390	0.186	20	
Xylenes, Total	0.177	0.0500	0.1500	0.03410	95.1	48	154	0.1752	0.909	20	
Surr: alpha, alpha, alpha-Trifluorotoluene	0.0516		0.05000		103	70	130		0	20	

Sample ID	BTEX LCS_W	SampType:	LCS	TestCode:	8021_BTEX_	Units:	mg/L	Prep Date:		RunNo:	49487
Client ID:	LCSW	Batch ID:	R49487	TestNo:	SW8021B			Analysis Date:	12/28/2015	SeqNo:	1208695
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0542	0.00500	0.05000	0	108	72	120				
Ethylbenzene	0.0483	0.00500	0.05000	0	96.6	76	129				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
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QC SUMMARY REPORT

WO#: 15121163
 05-Jan-16

Client: ICON Environmental Services
Project: East White Lake VPSB 9077-041-0800

BatchID: R49487

Sample ID	BTEX LCS_W	SampType:	LCS	TestCode:	8021_BTEX_	Units:	mg/L	Prep Date:		RunNo:	49487	
Client ID:	LCSW	Batch ID:	R49487	TestNo:	SW8021B			Analysis Date:	12/28/2015	SeqNo:	1208695	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene		0.0501	0.0100	0.05000	0	100	78	120				
Xylenes, Total		0.146	0.0500	0.1500	0	97.3	75	125				
Surr: alpha, alpha, alpha-Trifluorotoluene		0.0527		0.05000		105	70	130				

Sample ID	BTEX LCSD_W	SampType:	LCSD	TestCode:	8021_BTEX_	Units:	mg/L	Prep Date:		RunNo:	49487	
Client ID:	LCSS02	Batch ID:	R49487	TestNo:	SW8021B			Analysis Date:	12/28/2015	SeqNo:	1208696	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		0.0531	0.00500	0.05000	0	106	72	120	0.05420	2.05	20	
Ethylbenzene		0.0467	0.00500	0.05000	0	93.4	76	129	0.04830	3.37	20	
Toluene		0.0491	0.0100	0.05000	0	98.2	78	120	0.05010	2.02	20	
Xylenes, Total		0.142	0.0500	0.1500	0	94.8	75	125	0.1460	2.64	20	
Surr: alpha, alpha, alpha-Trifluorotoluene		0.0476		0.05000		95.2	70	130		0	20	

Sample ID	MB ACID	SampType:	MBLK	TestCode:	8021_BTEX_	Units:	mg/L	Prep Date:		RunNo:	49487	
Client ID:	PBW	Batch ID:	R49487	TestNo:	SW8021B			Analysis Date:	12/28/2015	SeqNo:	1208697	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		< 0.00500	0.00500									
Ethylbenzene		< 0.00500	0.00500									
Toluene		< 0.0100	0.0100									
Xylenes, Total		< 0.0500	0.0500									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
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QC SUMMARY REPORT

WO#: 15121163
 05-Jan-16

Client: ICON Environmental Services
Project: East White Lake VPSB 9077-041-0800

BatchID: R49487

Sample ID	MB ACID	SampType:	MBLK	TestCode:	8021_BTEX_	Units:	mg/L	Prep Date:		RunNo:	49487
Client ID:	PBW	Batch ID:	R49487	TestNo:	SW8021B			Analysis Date:	12/28/2015	SeqNo:	1208697
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Surr: alpha, alpha, alpha-Trifluorotoluene		0.0503			0.05000		101	70	130		

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	M	Matrix Interference	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
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QC SUMMARY REPORT

WO#: 15121163
 05-Jan-16

Client: ICON Environmental Services
Project: East White Lake VPSB 9077-041-0800

BatchID: R49488

Sample ID	GAS LCS_W	SampType:	LCS	TestCode:	8015_G_W	Units:	mg/L	Prep Date:		RunNo:	49488											
Client ID:	LCSW	Batch ID:	R49488	TestNo:	SW8015B			Analysis Date:	12/28/2015	SeqNo:	1208724											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
TPH (Gasoline Range)		12.2		0.150		12.50		0		97.7		80		130								

Sample ID	GAS LCSD_W	SampType:	LCSD	TestCode:	8015_G_W	Units:	mg/L	Prep Date:		RunNo:	49488											
Client ID:	LCSS02	Batch ID:	R49488	TestNo:	SW8015B			Analysis Date:	12/28/2015	SeqNo:	1208725											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
TPH (Gasoline Range)		12.5		0.150		12.50		0		100		80		130		12.21		2.48		20		

Sample ID	MB ACID	SampType:	MBLK	TestCode:	8015_G_W	Units:	mg/L	Prep Date:		RunNo:	49488											
Client ID:	PBW	Batch ID:	R49488	TestNo:	SW8015B			Analysis Date:	12/28/2015	SeqNo:	1208726											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
TPH (Gasoline Range)		< 0.150		0.150																		
Surr: alpha, alpha, alpha-Trifluorotoluene		0.0514				0.05000				103		70		130								

Sample ID	15121172-001AMS	SampType:	MS	TestCode:	8015_G_W	Units:	mg/L	Prep Date:		RunNo:	49488											
Client ID:	ZZZZZ	Batch ID:	R49488	TestNo:	SW8015B			Analysis Date:	12/29/2015	SeqNo:	1208734											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
TPH (Gasoline Range)		22.4		0.150		12.50		10.97		91.3		70		130								
Surr: alpha, alpha, alpha-Trifluorotoluene		0.0593				0.05000				119		70		130								

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
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QC SUMMARY REPORT

WO#: 15121163
 05-Jan-16

Client: ICON Environmental Services
Project: East White Lake VPSB 9077-041-0800

BatchID: R49488

Sample ID	15121172-001AMS	SampType:	MS	TestCode:	8015_G_W	Units:	mg/L	Prep Date:		RunNo:	49488			
Client ID:	ZZZZZZ	Batch ID:	R49488	TestNo:	SW8015B			Analysis Date:	12/29/2015	SeqNo:	1208734			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID	15121172-001AMSD	SampType:	MSD	TestCode:	8015_G_W	Units:	mg/L	Prep Date:		RunNo:	49488			
Client ID:	ZZZZZZ	Batch ID:	R49488	TestNo:	SW8015B			Analysis Date:	12/29/2015	SeqNo:	1208735			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline Range)		22.5		0.150	12.50	10.97		92.4	70	130	22.39	0.598	20	
Surr: alpha, alpha, alpha-Trifluorotoluene		0.0594			0.05000			119	70	130		0	20	

Sample ID	15121174-001AMS	SampType:	MS	TestCode:	8015_G_W	Units:	mg/L	Prep Date:		RunNo:	49488			
Client ID:	ZZZZZZ	Batch ID:	R49488	TestNo:	SW8015B			Analysis Date:	12/29/2015	SeqNo:	1208742			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline Range)		13.4		0.150	12.50	1.826		93.0	70	130				
Surr: alpha, alpha, alpha-Trifluorotoluene		0.0678			0.05000			136	70	130				SM

Sample ID	15121174-001AMSD	SampType:	MSD	TestCode:	8015_G_W	Units:	mg/L	Prep Date:		RunNo:	49488			
Client ID:	ZZZZZZ	Batch ID:	R49488	TestNo:	SW8015B			Analysis Date:	12/29/2015	SeqNo:	1208743			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline Range)		13.1		0.150	12.50	1.826		90.5	70	130	13.45	2.35	20	

Qualifiers:

- | | | | | | |
|----|---|----|---|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| M | Matrix Interference | ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits |
| RL | Reporting Limit | S | Spike Recovery outside accepted recovery limits | U | Analyte not detected |
| W | Sample container temperature is out of limit as specified at testcode | | | | |



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 Website: www.element.com

QC SUMMARY REPORT

WO#: 15121163
 05-Jan-16

Client: ICON Environmental Services
Project: East White Lake VPSB 9077-041-0800

BatchID: R49488

Sample ID	15121174-001AMSD	SampType:	MSD	TestCode:	8015_G_W	Units:	mg/L	Prep Date:		RunNo:	49488		
Client ID:	ZZZZZZ	Batch ID:	R49488	TestNo:	SW8015B			Analysis Date:	12/29/2015	SeqNo:	1208743		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: alpha, alpha, alpha-Trifluorotoluene		0.0690			0.05000		138	70	130		0	20	SM

Qualifiers:

- | | | | | | |
|----|---|----|---|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| M | Matrix Interference | ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits |
| RL | Reporting Limit | S | Spike Recovery outside accepted recovery limits | U | Analyte not detected |
| W | Sample container temperature is out of limit as specified at testcode | | | | |



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QC SUMMARY REPORT

WO#: 15121163
 05-Jan-16

Client: ICON Environmental Services
Project: East White Lake VPSB 9077-041-0800

BatchID: R49502

Sample ID	MBLK	SampType:	MBLK	TestCode:	9056_W	Units:	mg/L	Prep Date:		RunNo:	49502					
Client ID:	PBW	Batch ID:	R49502	TestNo:	SW9056A			Analysis Date:	12/30/2015	SeqNo:	1211061					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide	< 0.100	0.100														
Chloride	< 0.250	0.250														
Sulfate	< 0.250	0.250														

Sample ID	LCS	SampType:	LCS	TestCode:	9056_W	Units:	mg/L	Prep Date:		RunNo:	49502					
Client ID:	LCSW	Batch ID:	R49502	TestNo:	SW9056A			Analysis Date:	12/30/2015	SeqNo:	1211062					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide	4.05	0.100	4.000	0	101	80	120									
Chloride	10.1	0.250	10.00	0	101	80	120									
Sulfate	10.3	0.250	10.00	0	103	80	120									

Sample ID	LCSD	SampType:	LCSD	TestCode:	9056_W	Units:	mg/L	Prep Date:		RunNo:	49502					
Client ID:	LCSS02	Batch ID:	R49502	TestNo:	SW9056A			Analysis Date:	12/30/2015	SeqNo:	1211063					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide	4.06	0.100	4.000	0	101	80	120	4.052	0.139	15
Chloride	10.1	0.250	10.00	0	101	80	120	10.14	0.313	15
Sulfate	10.2	0.250	10.00	0	102	80	120	10.30	1.13	15

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 15121163
 05-Jan-16

Client: ICON Environmental Services
Project: East White Lake VPSB 9077-041-0800

BatchID: R49502

Sample ID	15121163-001CMS	SampType:	MS	TestCode:	9056_W	Units:	mg/L	Prep Date:		RunNo:	49502											
Client ID:	TBA-1D	Batch ID:	R49502	TestNo:	SW9056A			Analysis Date:	12/30/2015	SeqNo:	1211066											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
Bromide		125		5.00		100.0		1.087		124		80		120								S
Chloride		1,030		12.5		250.0		805.6		89.4		80		120								
Sulfate		247		12.5		250.0		1.888		98.1		80		120								

NOTES:
 S - Spike recovery indicates matrix interference. The method is in control as indicated by the Lab Control Sample.

Sample ID	15121163-001CMSD	SampType:	MSD	TestCode:	9056_W	Units:	mg/L	Prep Date:		RunNo:	49502											
Client ID:	TBA-1D	Batch ID:	R49502	TestNo:	SW9056A			Analysis Date:	12/30/2015	SeqNo:	1211066											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
Bromide		98.7		5.00		100.0		1.087		97.6		80		120		124.9		23.5		15		R
Chloride		1,030		12.5		250.0		805.6		90.1		80		120		1,029		0.184		15		
Sulfate		249		12.5		250.0		1.888		98.8		80		120		247.0		0.737		15		

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	M	Matrix Interference	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 15121163
 05-Jan-16

Client: ICON Environmental Services
Project: East White Lake VPSB 9077-041-0800

BatchID: R49517

Sample ID	MB-R49517	SampType:	MBLK	TestCode:	ALK	Units:	mgCaCO3/L	Prep Date:		RunNo:	49517
Client ID:	PBW	Batch ID:	R49517	TestNo:	SM2320 B			Analysis Date:	12/30/2015	SeqNo:	1210365
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Alkalinity, Bicarbonate (As CaCO3)	< 10.0	10.0
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0
Alkalinity, Total (As CaCO3)	< 10.0	10.0

Sample ID	LCS-R49517	SampType:	LCS	TestCode:	ALK	Units:	mgCaCO3/L	Prep Date:		RunNo:	49517
Client ID:	LCSW	Batch ID:	R49517	TestNo:	SM2320 B			Analysis Date:	12/30/2015	SeqNo:	1210366
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Alkalinity, Total (As CaCO3)	48.0	10.0	50.00	0	96.0	80	120
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Sample ID	15121248-001CMS	SampType:	MS	TestCode:	ALK	Units:	mgCaCO3/L	Prep Date:		RunNo:	49517
Client ID:	ZZZZZ	Batch ID:	R49517	TestNo:	SM2320 B			Analysis Date:	12/30/2015	SeqNo:	1210372
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Alkalinity, Total (As CaCO3)	129	10.5	50.00	78.42	102	80	120
------------------------------	-----	------	-------	-------	-----	----	-----

Sample ID	15121248-001CMSD	SampType:	MSD	TestCode:	ALK	Units:	mgCaCO3/L	Prep Date:		RunNo:	49517
Client ID:	ZZZZZ	Batch ID:	R49517	TestNo:	SM2320 B			Analysis Date:	12/30/2015	SeqNo:	1210373
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Alkalinity, Total (As CaCO3)	128	10.5	50.00	78.42	100	80	120	129.5	0.816	20
------------------------------	-----	------	-------	-------	-----	----	-----	-------	-------	----

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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Sample Log-In Check List

Client Name: **ICON_ENV** Work Order Number: **15121163** RcptNo: **1**

Logged by:	Danielle Hollier	12/23/2015 2:50:00 PM	<i>Danielle Hollier</i>
Completed By:	Danielle Hollier	12/23/2015 3:03:11 PM	<i>Danielle Hollier</i>
Reviewed By:	Caitlin Duplantis	12/31/2015 12:50:36 PM	<i>Caitlin Duplantis</i>

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 Custody seals intact on shipping container/cooler? Yes No Not Present
 No. Seal Date: Signed By:
 5. Was an attempt made to cool the samples? Yes No NA
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 7. Sample(s) in proper container(s)? Yes No
 8. Sufficient sample volume for indicated test(s)? Yes No
 9. Are samples (except VOA and ONG) properly preserved? Yes No
 10. Was preservative added to bottles? Yes No NA
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
 12. Were any sample containers received broken? Yes No
 13. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 14. Are matrices correctly identified on Chain of Custody? Yes No
 15. Is it clear what analyses were requested? Yes No
 16. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good	Not Present			



Chain of Custody

Laboratory Number: **15121163**

Client Information:
 Company Name: **ICON**
 Contact Name: **Greg Miller**
 Address: **2049 Compton Dr**
 City, State Zip: **Port Allen LA 70767**
 Phone Number: **825-344-8190** Ext:
 Fax Number:
 E-mail Address:

Billing Information:
 PO Number:
 Quote Number:
 Required QC Level:
 Bill Monthly: Yes No
 Shipping Method: **UPS / FedEx / NOW**
 DHL / Element / Hand / Mail

Project Name/Number: **BWL VPSB**
9877-041-0800
 Sampler's Signature: *[Signature]*
 Shipping Method:

Matrix Code:
 DW = Drinking Water
 WW = Waste Water
 GW = Ground Water
 AQ = Aqueous
 OT = Other
 SL = Sludge SOL = Solid
 O = Oil SO = Soil
 F = Food SW = Swab
 NG = Natural Gas
 NGL = Natural Gas Liquid
 PW = Produced Water
 CF = Completion Fluid

Sample ID/Description	Turn Time	Which Regulations Apply:	Collection Information	Container	Pres.	Requested Tests	Comments
TBA-ID	Standard	<input type="checkbox"/> RCRA <input type="checkbox"/> POTW <input type="checkbox"/> NPDES <input type="checkbox"/> USDA/FDA <input type="checkbox"/> RECAP/RIIS	Rush turn times will incur a surcharge and must be pre-approved by (lab.) 1 Week Turn	Quantity Type G=Glass, V=Vial	<input type="checkbox"/> HCl, HNO ₃ , H ₂ SO ₄ <input checked="" type="checkbox"/> NaOH, Na ₂ S ₂ O ₃	Total Metals Arsenic As, Pb, Cd, Cr, Tl, Fe, Mn Se, Sr, Ba, Hg Cu, Mg, K, Na Ag, Ni Zn Alk. Sulfide Alk. Boronate	Metals As, Pb, Cd, Cr, Tl, Fe, Mn Se, Sr, Ba, Hg Cu, Mg, K, Na Ag, Ni Zn Alk. Sulfide Alk. Boronate

Relinquished by: *[Signature]* **Date/Time:** **8-23-15 1450**

Received by: *[Signature]* **Date/Time:** **12-29-15 1450**

Field Notes:
 Received at lab on ice? Yes No Temp: **3.3C**

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

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 Columbus, IN 47201-6231 USA
 P 812-375-0931 F 812-375-0731

2121 East Washington Boulevard
 Fort Wayne, IN 46803-1328 USA
 P 260-471-7000 F 260-471-7777

908 Executive Dr
 Warsaw, IN 46580-2368 USA
 P 574-287-3388 F 574-269-6989

3371 Cleveland Road, Suite 100A
 South Bend, IN 46628-9780 USA
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December 23, 2015

Greg Miller
ICON Environmental Services
2049 Commercial Drive
Port Allen, LA 70767
TEL: (225) 344-8490
FAX: (225) 344-6654

RE: East White Lake 9077-041-0800

Order No.: 15120992

Dear Greg Miller:

Element Materials Technology Lafayette received 4 sample(s) on 12/18/2015 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

All soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as -dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261-14-6. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

A handwritten signature in blue ink, appearing to read 'Cristina Thibeaux', is written over a light blue horizontal line.

Cristina Thibeaux
Customer Service Supervisor
2417 W. Pinhook Road
Lafayette, LA 70508-3344



Element Materials Technology Lafayette
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TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Case Narrative

WO#: 15120992

Date: 12/23/2015

CLIENT: ICON Environmental Services
Project: East White Lake 9077-041-0800

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

In the Mercury analytical batch 49321, the MS/MSD (sample ID: 15120992-002) recovery failed low. A post digestion/post digestion duplicate was performed and recovery failed low as well, suggesting matrix interference. The LCS/LCSD recovery met the acceptance criteria.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).



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Analytical Report

(consolidated)

WO#: 15120992

Date Reported: 12/23/2015

CLIENT: ICON Environmental Services
Project: East White Lake 9077-041-0800
Lab ID: 15120992-001
Client Sample ID TBB-1D

Collection Date: 12/17/2015 1:45:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	< 0.137	0.137		mg/L	1	12/21/2015 7:31:00 PM
TPH (Oil Range)	< 0.126	0.126		mg/L	1	12/21/2015 7:31:00 PM
Surr: 4-Terphenyl-d14	72.8	36.8 - 128		%REC	1	12/21/2015 7:31:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	12/21/2015 6:11:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	102	70 - 130		%REC	1	12/21/2015 6:11:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	12/21/2015 6:11:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	12/21/2015 6:11:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	12/21/2015 6:11:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	12/21/2015 6:11:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	99.4	70 - 130		%REC	1	12/21/2015 6:11:00 PM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: BAS
Mercury	< 0.0002	0.0002		mg/L	1	12/21/2015 11:36:10 AM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	0.930	0.500		mg/L	5	12/21/2015 12:51:03 PM
Chloride	1,050	25.0		mg/L	100	12/21/2015 11:42:20 AM
Sulfate	68.0	1.25		mg/L	5	12/21/2015 12:51:03 PM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	0.013	0.010		mg/L	1	12/21/2015 10:02:01 PM
Barium	1.26	0.100		mg/L	10	12/21/2015 10:43:29 PM
Cadmium	< 0.005	0.005		mg/L	1	12/21/2015 10:02:01 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120992

Date Reported: 12/23/2015

CLIENT: ICON Environmental Services
Project: East White Lake 9077-041-0800
Lab ID: 15120992-001
Client Sample ID TBB-1D

Collection Date: 12/17/2015 1:45:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS			SW6010B		Analyst: STS	
Calcium	95.0	0.500		mg/L	1	12/21/2015 10:02:01 PM
Chromium	0.052	0.010		mg/L	1	12/21/2015 10:02:01 PM
Iron	50.5	0.100		mg/L	10	12/21/2015 10:43:29 PM
Lead	0.047	0.010		mg/L	1	12/21/2015 10:02:01 PM
Magnesium	52.8	0.500		mg/L	1	12/21/2015 10:02:01 PM
Manganese	1.23	0.100		mg/L	10	12/21/2015 10:43:29 PM
Potassium	11.9	5.00		mg/L	1	12/21/2015 10:02:01 PM
Selenium	< 0.020	0.020		mg/L	1	12/21/2015 10:02:01 PM
Sodium	572	50.0		mg/L	10	12/21/2015 10:43:29 PM
Strontium	1.20	0.100		mg/L	10	12/21/2015 10:43:29 PM
Zinc	0.186	0.010		mg/L	1	12/21/2015 10:02:01 PM
METALS IN WATER BY ICP, DISSOLVED			SW6010B		Analyst: STS	
Arsenic	0.012	0.010		mg/L	1	12/22/2015 12:25:30 AM
Barium	0.908	0.010		mg/L	1	12/22/2015 12:25:30 AM
Cadmium	< 0.005	0.005		mg/L	1	12/22/2015 12:25:30 AM
Chromium	0.028	0.010		mg/L	1	12/22/2015 12:25:30 AM
Iron	24.2	0.100		mg/L	10	12/22/2015 12:38:14 AM
Lead	0.023	0.010		mg/L	1	12/22/2015 12:25:30 AM
Manganese	0.717	0.010		mg/L	1	12/22/2015 12:25:30 AM
Selenium	< 0.020	0.020		mg/L	1	12/22/2015 12:25:30 AM
Strontium	1.07	0.100		mg/L	10	12/22/2015 12:38:14 AM
Zinc	0.078	0.010		mg/L	1	12/22/2015 12:25:30 AM
ALKALINITY; TOTAL, CARB, BICARB			SM2320 B		Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO3)	308	10.0		mgCaCO3/L	1	12/22/2015 10:19:20 AM
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0		mgCaCO3/L	1	12/22/2015 10:19:20 AM
Alkalinity, Total (As CaCO3)	308	10.0		mgCaCO3/L	1	12/22/2015 10:19:20 AM
TOTAL DISSOLVED SOLIDS			SM2540C		Analyst: GMS	

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



Element Materials Technology Lafayette
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 TEL: (337) 235-0483 FAX: (337) 233-6540
 Website: www.element.com

Analytical Report

(consolidated)

WO#: **15120992**

Date Reported: **12/23/2015**

CLIENT: ICON Environmental Services **Collection Date:** 12/17/2015 1:45:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15120992-001 **Matrix:** AQUEOUS
Client Sample ID TBB-1D

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS					SM2540C	Analyst: GMS
Total Dissolved Solids (Residue, Filterable)	2,040	100		mg/L	5	12/18/2015 3:15:00 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120992

Date Reported: 12/23/2015

CLIENT: ICON Environmental Services
Project: East White Lake 9077-041-0800
Lab ID: 15120992-002
Client Sample ID TBB-1S

Collection Date: 12/17/2015 3:45:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	< 0.133	0.133		mg/L	1	12/21/2015 7:46:00 PM
TPH (Oil Range)	< 0.122	0.122		mg/L	1	12/21/2015 7:46:00 PM
Surr: 4-Terphenyl-d14	40.9	36.8 - 128		%REC	1	12/21/2015 7:46:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	12/21/2015 6:38:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	102	70 - 130		%REC	1	12/21/2015 6:38:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	0.00670	0.00500		mg/L	1	12/21/2015 6:38:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	12/21/2015 6:38:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	12/21/2015 6:38:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	12/21/2015 6:38:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	98.2	70 - 130		%REC	1	12/21/2015 6:38:00 PM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: BAS
Mercury	< 0.0002	0.0002		mg/L	1	12/21/2015 11:27:53 AM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	17.2	5.00		mg/L	50	12/21/2015 1:04:47 PM
Chloride	13,400	250		mg/L	1000	12/21/2015 11:56:04 AM
Sulfate	< 12.5	12.5		mg/L	50	12/21/2015 1:04:47 PM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	< 0.010	0.010		mg/L	1	12/21/2015 10:23:52 PM
Barium	13.5	0.100		mg/L	10	12/21/2015 10:56:43 PM
Cadmium	< 0.005	0.005		mg/L	1	12/21/2015 10:23:52 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120992

Date Reported: 12/23/2015

CLIENT: ICON Environmental Services
Project: East White Lake 9077-041-0800
Lab ID: 15120992-002
Client Sample ID TBB-1S

Collection Date: 12/17/2015 3:45:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS		SW6010B			Analyst: STS	
Calcium	1,260	5.00		mg/L	10	12/21/2015 10:56:43 PM
Chromium	< 0.010	0.010		mg/L	1	12/21/2015 10:23:52 PM
Iron	44.2	0.100		mg/L	10	12/21/2015 10:56:43 PM
Lead	< 0.010	0.010		mg/L	1	12/21/2015 10:23:52 PM
Magnesium	816	5.00		mg/L	10	12/21/2015 10:56:43 PM
Manganese	9.91	0.100		mg/L	10	12/21/2015 10:56:43 PM
Potassium	19.6	5.00		mg/L	1	12/21/2015 10:23:52 PM
Selenium	0.052	0.020		mg/L	1	12/21/2015 10:23:52 PM
Sodium	4,420	50.0		mg/L	10	12/21/2015 10:56:43 PM
Strontium	24.6	1.00		mg/L	100	12/22/2015 4:40:31 PM
Zinc	0.021	0.010		mg/L	1	12/21/2015 10:23:52 PM
ALKALINITY; TOTAL, CARB, BICARB		SM2320 B			Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO ₃)	298	10.0		mgCaCO ₃ /L	1	12/22/2015 10:19:20 AM
Alkalinity, Carbonate (As CaCO ₃)	< 10.0	10.0		mgCaCO ₃ /L	1	12/22/2015 10:19:20 AM
Alkalinity, Total (As CaCO ₃)	298	10.0		mgCaCO ₃ /L	1	12/22/2015 10:19:20 AM
TOTAL DISSOLVED SOLIDS		SM2540C			Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	24,700	2,000		mg/L	100	12/18/2015 3:15:00 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120992

Date Reported: 12/23/2015

CLIENT: ICON Environmental Services
Project: East White Lake 9077-041-0800
Lab ID: 15120992-003
Client Sample ID TBB-3S

Collection Date: 12/18/2015 9:30:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	< 0.131	0.131		mg/L	1	12/21/2015 8:02:00 PM
TPH (Oil Range)	< 0.121	0.121		mg/L	1	12/21/2015 8:02:00 PM
Surr: 4-Terphenyl-d14	55.0	36.8 - 128		%REC	1	12/21/2015 8:02:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	12/21/2015 7:05:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	99.8	70 - 130		%REC	1	12/21/2015 7:05:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	12/21/2015 7:05:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	12/21/2015 7:05:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	12/21/2015 7:05:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	12/21/2015 7:05:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	96.0	70 - 130		%REC	1	12/21/2015 7:05:00 PM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: BAS
Mercury	< 0.0002	0.0002		mg/L	1	12/21/2015 11:38:33 AM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	2.92	0.500		mg/L	5	12/21/2015 1:18:32 PM
Chloride	969	25.0		mg/L	100	12/21/2015 12:09:49 PM
Sulfate	2.66	1.25		mg/L	5	12/21/2015 1:18:32 PM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	0.017	0.010		mg/L	1	12/21/2015 10:27:34 PM
Barium	0.542	0.010		mg/L	1	12/21/2015 10:27:34 PM
Cadmium	< 0.005	0.005		mg/L	1	12/21/2015 10:27:34 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120992

Date Reported: 12/23/2015

CLIENT: ICON Environmental Services
Project: East White Lake 9077-041-0800
Lab ID: 15120992-003
Client Sample ID TBB-3S

Collection Date: 12/18/2015 9:30:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS		SW6010B			Analyst: STS	
Calcium	109	5.00		mg/L	10	12/21/2015 11:09:51 PM
Chromium	< 0.010	0.010		mg/L	1	12/21/2015 10:27:34 PM
Iron	6.13	0.100		mg/L	10	12/21/2015 11:09:51 PM
Lead	< 0.010	0.010		mg/L	1	12/21/2015 10:27:34 PM
Magnesium	37.9	0.500		mg/L	1	12/21/2015 10:27:34 PM
Manganese	0.311	0.010		mg/L	1	12/21/2015 10:27:34 PM
Potassium	< 5.00	5.00		mg/L	1	12/21/2015 10:27:34 PM
Selenium	< 0.020	0.020		mg/L	1	12/21/2015 10:27:34 PM
Sodium	503	50.0		mg/L	10	12/21/2015 11:09:51 PM
Strontium	0.770	0.010		mg/L	1	12/21/2015 10:27:34 PM
Zinc	0.014	0.010		mg/L	1	12/21/2015 10:27:34 PM
ALKALINITY; TOTAL, CARB, BICARB		SM2320 B			Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO3)	388	10.0		mgCaCO3/L	1	12/22/2015 10:19:20 AM
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0		mgCaCO3/L	1	12/22/2015 10:19:20 AM
Alkalinity, Total (As CaCO3)	388	10.0		mgCaCO3/L	1	12/22/2015 10:19:20 AM
TOTAL DISSOLVED SOLIDS		SM2540C			Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	2,080	100		mg/L	5	12/18/2015 3:15:00 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120992

Date Reported: 12/23/2015

CLIENT: ICON Environmental Services
Project: East White Lake 9077-041-0800
Lab ID: 15120992-004
Client Sample ID Trip Blank

Collection Date: 12/17/2015

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX/TPH-G IN WATER BY SW8021/8015				SW8015B		Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	12/21/2015 5:44:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	101	70 - 130		%REC	1	12/21/2015 5:44:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015				SW8021B		Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	12/21/2015 5:44:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	12/21/2015 5:44:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	12/21/2015 5:44:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	12/21/2015 5:44:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	98.2	70 - 130		%REC	1	12/21/2015 5:44:00 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 15120992
 23-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17736

Sample ID: MB-17736	SampType: MBLK	TestCode: HG_W_7470A	Units: mg/L	Prep Date: 12/21/2015	RunNo: 49321						
Client ID: PBW	Batch ID: 17736	TestNo: SW7470A		Analysis Date: 12/21/2015	SeqNo: 1204050						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury < 0.0002 0.0002

Sample ID: LCS-17736	SampType: LCS	TestCode: HG_W_7470A	Units: mg/L	Prep Date: 12/21/2015	RunNo: 49321						
Client ID: LCSW	Batch ID: 17736	TestNo: SW7470A		Analysis Date: 12/21/2015	SeqNo: 1204051						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.0103 0.0002 0.0100 0 103 80 120

Sample ID: LCSD-17736	SampType: LCSD	TestCode: HG_W_7470A	Units: mg/L	Prep Date: 12/21/2015	RunNo: 49321						
Client ID: LCSS02	Batch ID: 17736	TestNo: SW7470A		Analysis Date: 12/21/2015	SeqNo: 1204052						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.0103 0.0002 0.0100 0 103 80 120 0.0103 0.0020 20

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120992
 23-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17742

Sample ID: LCS-D17742	SampType: LCS	TestCode: 8015_DO_W	Units: mg/L	Prep Date: 12/21/2015	RunNo: 49351						
Client ID: LCSW	Batch ID: 17742	TestNo: SW8015B	SW3510C	Analysis Date: 12/21/2015	SeqNo: 1205020						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range)	2.64	0.130	3.000	0	87.9	62.3	110				
Surr: 4-Terphenyl-d14	0.0754		0.1000		75.4	36.8	128				

Sample ID: LCSD-D-17742	SampType: LCSD	TestCode: 8015_DO_W	Units: mg/L	Prep Date: 12/21/2015	RunNo: 49351						
Client ID: LCSS02	Batch ID: 17742	TestNo: SW8015B	SW3510C	Analysis Date: 12/21/2015	SeqNo: 1205021						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range)	2.71	0.130	3.000	0	90.2	62.3	110	2.638	2.57	14.1
Surr: 4-Terphenyl-d14	0.0413		0.1000		41.3	36.8	128		0	40

Sample ID: LCSD-M-17742	SampType: LCSD	TestCode: 8015_DO_W	Units: mg/L	Prep Date: 12/21/2015	RunNo: 49351						
Client ID: LCSS02	Batch ID: 17742	TestNo: SW8015B	SW3510C	Analysis Date: 12/21/2015	SeqNo: 1205022						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Oil Range)	2.67	0.120	3.000	0	88.9	63.8	124	2.758	3.39	23.2
Surr: 4-Terphenyl-d14	0.0384		0.1000		38.4	36.8	128		0	40

Sample ID: LCS-M-17742	SampType: LCS	TestCode: 8015_DO_W	Units: mg/L	Prep Date: 12/21/2015	RunNo: 49351						
Client ID: LCSW	Batch ID: 17742	TestNo: SW8015B	SW3510C	Analysis Date: 12/21/2015	SeqNo: 1205023						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Oil Range)	2.76	0.120	3.000	0	91.9	63.8	124			
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Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120992
 23-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17742

Sample ID: LCS-M-17742	SampType: LCS	TestCode: 8015_DO_W	Units: mg/L	Prep Date: 12/21/2015	RunNo: 49351						
Client ID: LCSW	Batch ID: 17742	TestNo: SW8015B	SW3510C	Analysis Date: 12/21/2015	SeqNo: 1205023						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 4-Terphenyl-d14 0.0541 0.1000 54.1 36.8 128

Sample ID: MB-17742	SampType: MBLK	TestCode: 8015_DO_W	Units: mg/L	Prep Date: 12/21/2015	RunNo: 49351						
Client ID: PBW	Batch ID: 17742	TestNo: SW8015B	SW3510C	Analysis Date: 12/22/2015	SeqNo: 1206292						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range) < 0.130 0.130
 TPH (Oil Range) < 0.120 0.120
 Surr: 4-Terphenyl-d14 0.0477 0.1000 47.7 36.8 128

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120992
 23-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17743

Sample ID: MB-17743	SampType: MBLK	TestCode: 6010_W	Units: mg/L	Prep Date: 12/21/2015	RunNo: 49361						
Client ID: PBW	Batch ID: 17743	TestNo: SW6010B		Analysis Date: 12/21/2015	SeqNo: 1205248						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	< 0.010	0.010									
Barium	< 0.010	0.010									
Cadmium	< 0.005	0.005									
Calcium	< 0.500	0.500									
Chromium	< 0.010	0.010									
Iron	< 0.010	0.010									
Lead	< 0.010	0.010									
Magnesium	< 0.500	0.500									
Manganese	< 0.010	0.010									
Potassium	< 5.00	5.00									
Selenium	< 0.020	0.020									
Sodium	< 5.00	5.00									
Strontium	< 0.010	0.010									
Zinc	< 0.010	0.010									

Sample ID: LCS-17743	SampType: LCS	TestCode: 6010_W	Units: mg/L	Prep Date: 12/21/2015	RunNo: 49361						
Client ID: LCSW	Batch ID: 17743	TestNo: SW6010B		Analysis Date: 12/21/2015	SeqNo: 1205249						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.464	0.010	0.500	0	92.8	80	120				
Barium	0.464	0.010	0.500	0	92.7	80	120				
Cadmium	0.459	0.005	0.500	0	91.8	80	120				
Calcium	45.8	0.500	50.00	0	91.6	80	120				
Chromium	0.462	0.010	0.500	0	92.5	80	120				
Iron	0.462	0.010	0.500	0	92.5	80	120				

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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 Website: www.element.com

QC SUMMARY REPORT

WO#: 15120992

23-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17743

Sample ID: LCSS-17743	SampType: LCS	TestCode: 6010_W	Units: mg/L	Prep Date: 12/21/2015	RunNo: 49361						
Client ID: LCSSW	Batch ID: 17743	TestNo: SW6010B		Analysis Date: 12/21/2015	SeqNo: 1205249						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.462	0.010	0.500	0	92.3	80	120				
Magnesium	46.1	0.500	50.00	0	92.1	80	120				
Manganese	0.464	0.010	0.500	0	92.9	80	120				
Potassium	45.9	5.00	50.00	0	91.7	80	120				
Selenium	0.465	0.020	0.500	0	93.1	80	120				
Sodium	46.0	5.00	50.00	0	92.1	80	120				
Strontium	0.469	0.010	0.500	0	93.8	80	120				
Zinc	0.465	0.010	0.500	0	93.0	80	120				

Sample ID: LCSD-17743	SampType: LCSD	TestCode: 6010_W	Units: mg/L	Prep Date: 12/21/2015	RunNo: 49361						
Client ID: LCSS02	Batch ID: 17743	TestNo: SW6010B		Analysis Date: 12/21/2015	SeqNo: 1205250						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.477	0.010	0.500	0	95.5	80	120	0.464	2.83	20	
Barium	0.469	0.010	0.500	0	93.8	80	120	0.464	1.14	20	
Cadmium	0.465	0.005	0.500	0	92.9	80	120	0.459	1.23	20	
Calcium	46.2	0.500	50.00	0	92.4	80	120	45.80	0.826	20	
Chromium	0.467	0.010	0.500	0	93.4	80	120	0.462	1.03	20	
Iron	0.468	0.010	0.500	0	93.5	80	120	0.462	1.10	20	
Lead	0.466	0.010	0.500	0	93.2	80	120	0.462	0.949	20	
Magnesium	46.4	0.500	50.00	0	92.8	80	120	46.07	0.757	20	
Manganese	0.469	0.010	0.500	0	93.9	80	120	0.464	1.07	20	
Potassium	46.2	5.00	50.00	0	92.4	80	120	45.86	0.760	20	
Selenium	0.470	0.020	0.500	0	94.1	80	120	0.465	1.11	20	
Sodium	46.2	5.00	50.00	0	92.4	80	120	46.03	0.347	20	

Qualifiers: H Holding times for preparation or analysis exceeded
 RL Reporting Limit
 W Sample container temperature is out of limit as specified at testcode

M Matrix Interference
 S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit
 U Analyte not detected



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QC SUMMARY REPORT

WO#: 15120992
 23-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17743

Sample ID: LCSD-17743	SampType: LCSD	TestCode: 6010_W	Units: mg/L	Prep Date: 12/21/2015	RunNo: 49361						
Client ID: LCSS02	Batch ID: 17743	TestNo: SW6010B		Analysis Date: 12/21/2015	SeqNo: 1205250						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Strontium	0.474	0.010	0.500	0	94.8	80	120	0.469	1.06	20	
Zinc	0.470	0.010	0.500	0	94.0	80	120	0.465	1.05	20	

Sample ID: 15120992-001EMS	SampType: MS	TestCode: 6010_W	Units: mg/L	Prep Date: 12/21/2015	RunNo: 49361						
Client ID: TBB-1D	Batch ID: 17743	TestNo: SW6010B		Analysis Date: 12/21/2015	SeqNo: 1205252						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.458	0.010	0.500	0.013	89.0	75	125				
Cadmium	0.428	0.005	0.500	0.003	84.9	75	125				
Calcium	139	0.500	50.00	95.01	88.0	75	125				
Chromium	0.482	0.010	0.500	0.052	86.0	75	125				
Lead	0.466	0.010	0.500	0.047	83.9	75	125				
Magnesium	98.2	0.500	50.00	52.80	90.7	75	125				
Potassium	56.9	5.00	50.00	11.88	90.1	75	125				
Selenium	0.407	0.020	0.500	0	81.4	75	125				
Zinc	0.595	0.010	0.500	0.186	81.7	75	125				

Sample ID: 15120992-001EMSD	SampType: MSD	TestCode: 6010_W	Units: mg/L	Prep Date: 12/21/2015	RunNo: 49361						
Client ID: TBB-1D	Batch ID: 17743	TestNo: SW6010B		Analysis Date: 12/21/2015	SeqNo: 1205252						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.453	0.010	0.500	0.013	88.1	75	125	0.458	1.03	20	
Cadmium	0.422	0.005	0.500	0.003	83.6	75	125	0.428	1.53	20	

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120992
 23-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17743

Sample ID: 15120992-001EMSD	SampType: MSD	TestCode: 6010_W	Units: mg/L	Prep Date: 12/21/2015	RunNo: 49361						
Client ID: TBB-1D	Batch ID: 17743	TestNo: SW6010B		Analysis Date: 12/21/2015	SeqNo: 1205255						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	139	0.500	50.00	95.01	87.4	75	125	139.0	0.216	20	
Chromium	0.475	0.010	0.500	0.052	84.5	75	125	0.482	1.57	20	
Lead	0.457	0.010	0.500	0.047	82.1	75	125	0.466	1.95	20	
Magnesium	97.0	0.500	50.00	52.80	88.4	75	125	98.15	1.20	20	
Potassium	56.8	5.00	50.00	11.88	89.9	75	125	56.93	0.193	20	
Selenium	0.408	0.020	0.500	0	81.6	75	125	0.407	0.221	20	
Zinc	0.587	0.010	0.500	0.186	80.2	75	125	0.595	1.27	20	

Sample ID: 15120992-001EMS	SampType: MS	TestCode: 6010_W	Units: mg/L	Prep Date: 12/21/2015	RunNo: 49361						
Client ID: TBB-1D	Batch ID: 17743	TestNo: SW6010B		Analysis Date: 12/21/2015	SeqNo: 1205262						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	1.69	0.100	0.500	1.259	85.6	75	125				
Iron	55.0	0.100	0.500	50.48	908	75	125				S
Manganese	1.66	0.100	0.500	1.231	86.6	75	125				
Sodium	612	50.0	50.00	571.5	82.0	75	125				
Strontium	1.65	0.100	0.500	1.195	90.4	75	125				

Sample ID: 15120992-001EMSD	SampType: MSD	TestCode: 6010_W	Units: mg/L	Prep Date: 12/21/2015	RunNo: 49361						
Client ID: TBB-1D	Batch ID: 17743	TestNo: SW6010B		Analysis Date: 12/21/2015	SeqNo: 1205263						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	1.66	0.100	0.500	1.259	80.2	75	125	1.687	1.61	20	

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
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QC SUMMARY REPORT

WO#: 15120992
 23-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17743

Sample ID: 15120992-001EMSD	SampType: MSD	TestCode: 6010_W	Units: mg/L	Prep Date: 12/21/2015	RunNo: 49361						
Client ID: TBB-1D	Batch ID: 17743	TestNo: SW6010B		Analysis Date: 12/21/2015	SeqNo: 1205263						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	53.5	0.100	0.500	50.48	608	75	125	55.02	2.76	20	S
Manganese	1.64	0.100	0.500	1.231	82.6	75	125	1.664	1.21	20	
Sodium	592	50.0	50.00	571.5	40.4	75	125	612.5	3.45	20	S
Strontium	1.61	0.100	0.500	1.195	82.4	75	125	1.647	2.46	20	

NOTES:

S - Analyte concentration in native sample was too high for accurate spike recovery(ies). The method is in control as indicated by the laboratory control sample (LCS).

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
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QC SUMMARY REPORT

WO#: 15120992
 23-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R49269

Sample ID: 15120992-003CDUP	SampType: DUP	TestCode: TDS_2540C	Units: mg/L	Prep Date:	RunNo: 49269						
Client ID: TBB-3S	Batch ID: R49269	TestNo: SM2540C		Analysis Date: 12/18/2015	SeqNo: 1204594						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable)	2,100	100						2,080	0.719	10	
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Sample ID: MB-R49269	SampType: MBLK	TestCode: TDS_2540C	Units: mg/L	Prep Date:	RunNo: 49269						
Client ID: PBW	Batch ID: R49269	TestNo: SM2540C		Analysis Date: 12/18/2015	SeqNo: 1204595						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable)	< 20.0	20.0									
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Sample ID: LCS-R49269	SampType: LCS	TestCode: TDS_2540C	Units: mg/L	Prep Date:	RunNo: 49269						
Client ID: LCSW	Batch ID: R49269	TestNo: SM2540C		Analysis Date: 12/18/2015	SeqNo: 1204596						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable)	983	20.0	1,000	0	98.3	85	115				
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Sample ID: LCSD-R49269	SampType: LCSD	TestCode: TDS_2540C	Units: mg/L	Prep Date:	RunNo: 49269						
Client ID: LCSS02	Batch ID: R49269	TestNo: SM2540C		Analysis Date: 12/18/2015	SeqNo: 1204597						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable)	994	20.0	1,000	0	99.4	85	115	983.0	1.11	10	
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Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120992
 23-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R49269

Sample ID: LCSD-R49269	SampType: LCSD	TestCode: TDS_2540C	Units: mg/L	Prep Date:	RunNo: 49269						
Client ID: LCSS02	Batch ID: R49269	TestNo: SM2540C		Analysis Date: 12/18/2015	SeqNo: 1204597						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 15120875-001CDUP	SampType: DUP	TestCode: TDS_2540C	Units: mg/L	Prep Date:	RunNo: 49269						
Client ID: ZZZZZZ	Batch ID: R49269	TestNo: SM2540C		Analysis Date: 12/18/2015	SeqNo: 1204599						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterable)	2,050	100						2,030	0.980	10	

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
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QC SUMMARY REPORT

WO#: 15120992
 23-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R49317

Sample ID: MBLK	SampType: MBLK	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 49317						
Client ID: PBW	Batch ID: R49317	TestNo: SW9056A		Analysis Date: 12/21/2015	SeqNo: 1204270						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	< 0.100	0.100									
Chloride	< 0.250	0.250									
Sulfate	< 0.250	0.250									

Sample ID: LCS	SampType: LCS	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 49317						
Client ID: LCSW	Batch ID: R49317	TestNo: SW9056A		Analysis Date: 12/21/2015	SeqNo: 1204271						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	3.84	0.100	4.000	0	95.9	80	120				
Chloride	9.69	0.250	10.00	0	96.9	80	120				
Sulfate	9.74	0.250	10.00	0	97.4	80	120				

Sample ID: LCSD	SampType: LCSD	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 49317						
Client ID: LCSS02	Batch ID: R49317	TestNo: SW9056A		Analysis Date: 12/21/2015	SeqNo: 1204272						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	3.83	0.100	4.000	0	95.7	80	120	3.835	0.198	15	
Chloride	9.63	0.250	10.00	0	96.3	80	120	9.690	0.597	15	
Sulfate	9.73	0.250	10.00	0	97.3	80	120	9.736	0.00785	15	

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
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QC SUMMARY REPORT

WO#: 15120992
 23-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R49317

Sample ID: 15120992-003DMS	SampType: MS	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 49317						
Client ID: TBB-3S	Batch ID: R49317	TestNo: SW9056A		Analysis Date: 12/21/2015	SeqNo: 1204277						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide	188	10.0	200.0	2.754	92.5	80	120				
Chloride	1,480	25.0	500.0	969.1	102	80	120				
Sulfate	476	25.0	500.0	1.983	94.9	80	120				

Sample ID: 15120992-003DMSD	SampType: MSD	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 49317						
Client ID: TBB-3S	Batch ID: R49317	TestNo: SW9056A		Analysis Date: 12/21/2015	SeqNo: 1204278						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide	190	10.0	200.0	2.754	93.6	80	120	187.7	1.18	15	
Chloride	1,480	25.0	500.0	969.1	103	80	120	1,477	0.302	15	
Sulfate	482	25.0	500.0	1.983	96.0	80	120	476.3	1.21	15	

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
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QC SUMMARY REPORT

WO#: 15120992
 23-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R49344

Sample ID: BTEX LCS_W	SampType: LCS	TestCode: 8021_BTEX_	Units: mg/L	Prep Date:	RunNo: 49344						
Client ID: LCSW	Batch ID: R49344	TestNo: SW8021B		Analysis Date: 12/21/2015	SeqNo: 1204714						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0523	0.00500	0.05000	0	105	72	120				
Ethylbenzene	0.0453	0.00500	0.05000	0	90.6	76	129				
Toluene	0.0479	0.0100	0.05000	0	95.8	78	120				
Xylenes, Total	0.137	0.0500	0.1500	0	91.3	75	125				
Surr: alpha, alpha, alpha-Trifluorotoluene	0.0492		0.05000		98.4	70	130				

Sample ID: BTEX LCSD_W	SampType: LCSD	TestCode: 8021_BTEX_	Units: mg/L	Prep Date:	RunNo: 49344						
Client ID: LCSS02	Batch ID: R49344	TestNo: SW8021B		Analysis Date: 12/21/2015	SeqNo: 1204715						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0512	0.00500	0.05000	0	102	72	120	0.05230	2.13	20	
Ethylbenzene	0.0437	0.00500	0.05000	0	87.4	76	129	0.04530	3.60	20	
Toluene	0.0465	0.0100	0.05000	0	93.0	78	120	0.04790	2.97	20	
Xylenes, Total	0.132	0.0500	0.1500	0	88.3	75	125	0.1370	3.41	20	
Surr: alpha, alpha, alpha-Trifluorotoluene	0.0495		0.05000		99.0	70	130		0	20	

Sample ID: MB ACID	SampType: MBLK	TestCode: 8021_BTEX_	Units: mg/L	Prep Date:	RunNo: 49344						
Client ID: PBW	Batch ID: R49344	TestNo: SW8021B		Analysis Date: 12/21/2015	SeqNo: 1204716						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	< 0.00500	0.00500									
Ethylbenzene	< 0.00500	0.00500									

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
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QC SUMMARY REPORT

WO#: 15120992
 23-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R49344

Sample ID: MB ACID	SampType: MBLK	TestCode: 8021_BTEX_	Units: mg/L	Prep Date:	RunNo: 49344						
Client ID: PBW	Batch ID: R49344	TestNo: SW8021B		Analysis Date: 12/21/2015	SeqNo: 1204716						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.0100	0.0100									
Xylenes, Total	< 0.0500	0.0500									
Surr: alpha, alpha, alpha-Trifluorotoluene	0.0491		0.05000		98.2	70	130				

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
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 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120992

23-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R49350

Sample ID: GAS LCS_W	SampType: LCS	TestCode: 8015_G_W	Units: mg/L	Prep Date:	RunNo: 49350						
Client ID: LCSW	Batch ID: R49350	TestNo: SW8015B		Analysis Date: 12/21/2015	SeqNo: 1205010						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline Range)	13.4	0.150	12.50	0	107	80	130				

Sample ID: GAS LCSD_W	SampType: LCSD	TestCode: 8015_G_W	Units: mg/L	Prep Date:	RunNo: 49350						
Client ID: LCSS02	Batch ID: R49350	TestNo: SW8015B		Analysis Date: 12/21/2015	SeqNo: 1205011						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline Range)	13.3	0.150	12.50	0	106	80	130	13.39	0.781	20	

Sample ID: MB ACID	SampType: MBLK	TestCode: 8015_G_W	Units: mg/L	Prep Date:	RunNo: 49350						
Client ID: PBW	Batch ID: R49350	TestNo: SW8015B		Analysis Date: 12/21/2015	SeqNo: 1205012						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline Range)	< 0.150	0.150									
Surr: alpha, alpha, alpha-Trifluorotoluene	0.0506		0.05000		101	70	130				

Qualifiers:
 H Holding times for preparation or analysis exceeded
 RL Reporting Limit
 W Sample container temperature is out of limit as specified at testcode

M Matrix Interference
 S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit
 U Analyte not detected



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 Website: www.element.com

QC SUMMARY REPORT

WO#: 15120992
 23-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R49352

Sample ID: MB-R49352	SampType: MBLK	TestCode: ALK	Units: mgCaCO3/L	Prep Date:	RunNo: 49352						
Client ID: PBW	Batch ID: R49352	TestNo: SM2320 B		Analysis Date: 12/22/2015	SeqNo: 1205347						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Bicarbonate (As CaCO3)	< 10.0	10.0									
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0									
Alkalinity, Total (As CaCO3)	< 10.0	10.0									

Sample ID: LCS-R49352	SampType: LCS	TestCode: ALK	Units: mgCaCO3/L	Prep Date:	RunNo: 49352						
Client ID: LCSW	Batch ID: R49352	TestNo: SM2320 B		Analysis Date: 12/22/2015	SeqNo: 1205348						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Total (As CaCO3)	48.5	10.0	50.00	0	97.0	80	120				
------------------------------	------	------	-------	---	------	----	-----	--	--	--	--

Sample ID: 15120992-001DDUP	SampType: DUP	TestCode: ALK	Units: mgCaCO3/L	Prep Date:	RunNo: 49352						
Client ID: TBB-1D	Batch ID: R49352	TestNo: SM2320 B		Analysis Date: 12/22/2015	SeqNo: 1205350						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Bicarbonate (As CaCO3)	335	10.0						307.5	8.56	20	
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0						0	0	20	
Alkalinity, Total (As CaCO3)	335	10.0						307.5	8.56	20	

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120992

23-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R49372

Sample ID: MB	SampType: MBLK	TestCode: 6010-D	Units: mg/L	Prep Date:	RunNo: 49372						
Client ID: PBW	Batch ID: R49372	TestNo: SW6010B		Analysis Date: 12/21/2015	SeqNo: 1205528						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 0.010	0.010									
Barium	< 0.010	0.010									
Cadmium	< 0.005	0.005									
Chromium	< 0.010	0.010									
Iron	< 0.010	0.010									
Lead	< 0.010	0.010									
Manganese	< 0.010	0.010									
Selenium	< 0.020	0.020									
Strontium	< 0.010	0.010									
Zinc	< 0.010	0.010									

Sample ID: LCS	SampType: LCS	TestCode: 6010-D	Units: mg/L	Prep Date:	RunNo: 49372						
Client ID: LCSW	Batch ID: R49372	TestNo: SW6010B		Analysis Date: 12/21/2015	SeqNo: 1205528						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.467	0.010	0.500	0	93.4	80	120				
Barium	0.462	0.010	0.500	0	92.4	80	120				
Cadmium	0.460	0.005	0.500	0	92.0	80	120				
Chromium	0.460	0.010	0.500	0	92.0	80	120				
Iron	0.459	0.010	0.500	0	91.7	80	120				
Lead	0.468	0.010	0.500	0	93.5	80	120				
Manganese	0.466	0.010	0.500	0	93.2	80	120				
Selenium	0.462	0.020	0.500	0	92.4	80	120				
Strontium	0.472	0.010	0.500	0	94.4	80	120				
Zinc	0.461	0.010	0.500	0	92.2	80	120				

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120992
 23-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R49372

Sample ID: LCS	SampType: LCS	TestCode: 6010-D	Units: mg/L	Prep Date:	RunNo: 49372						
Client ID: LCSW	Batch ID: R49372	TestNo: SW6010B		Analysis Date: 12/21/2015	SeqNo: 1205529						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: LCSD	SampType: LCSD	TestCode: 6010-D	Units: mg/L	Prep Date:	RunNo: 49372						
Client ID: LCSS02	Batch ID: R49372	TestNo: SW6010B		Analysis Date: 12/22/2015	SeqNo: 1205536						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.467	0.010	0.500	0	93.4	80	120	0.467	0.064	20	
Barium	0.463	0.010	0.500	0	92.6	80	120	0.462	0.151	20	
Cadmium	0.461	0.005	0.500	0	92.2	80	120	0.460	0.261	20	
Chromium	0.461	0.010	0.500	0	92.2	80	120	0.460	0.282	20	
Iron	0.497	0.010	0.500	0	99.5	80	120	0.459	8.12	20	
Lead	0.468	0.010	0.500	0	93.6	80	120	0.468	0.128	20	
Manganese	0.466	0.010	0.500	0	93.2	80	120	0.466	0.021	20	
Selenium	0.466	0.020	0.500	0	93.3	80	120	0.462	0.905	20	
Strontium	0.469	0.010	0.500	0	93.9	80	120	0.472	0.552	20	
Zinc	0.462	0.010	0.500	0	92.4	80	120	0.461	0.130	20	

Sample ID: 15120992-001FMS	SampType: MS	TestCode: 6010-D	Units: mg/L	Prep Date:	RunNo: 49372						
Client ID: TBB-1D	Batch ID: R49372	TestNo: SW6010B		Analysis Date: 12/22/2015	SeqNo: 1205538						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.504	0.010	0.500	0.012	98.6	75	125				
Barium	1.36	0.010	0.500	0.908	91.3	75	125				
Cadmium	0.482	0.005	0.500	0.003	95.7	75	125				

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120992

23-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R49372

Sample ID: 15120992-001FMS	SampType: MS	TestCode: 6010-D	Units: mg/L	Prep Date:	RunNo: 49372						
Client ID: TBB-1D	Batch ID: R49372	TestNo: SW6010B		Analysis Date: 12/22/2015	SeqNo: 1205538						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.506	0.010	0.500	0.028	95.7	75	125				
Lead	0.489	0.010	0.500	0.023	93.1	75	125				
Manganese	1.18	0.010	0.500	0.717	92.8	75	125				
Selenium	0.464	0.020	0.500	0	92.9	75	125				
Zinc	0.553	0.010	0.500	0.078	95.1	75	125				

Sample ID: 15120992-001FMSD	SampType: MSD	TestCode: 6010-D	Units: mg/L	Prep Date:	RunNo: 49372						
Client ID: TBB-1D	Batch ID: R49372	TestNo: SW6010B		Analysis Date: 12/22/2015	SeqNo: 1205539						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.494	0.010	0.500	0.012	96.5	75	125	0.504	2.08	20	
Barium	1.35	0.010	0.500	0.908	88.9	75	125	1.365	0.883	20	
Cadmium	0.477	0.005	0.500	0.003	94.7	75	125	0.482	1.06	20	
Chromium	0.502	0.010	0.500	0.028	94.8	75	125	0.506	0.913	20	
Lead	0.486	0.010	0.500	0.023	92.7	75	125	0.489	0.451	20	
Manganese	1.18	0.010	0.500	0.717	92.2	75	125	1.181	0.254	20	
Selenium	0.456	0.020	0.500	0	91.3	75	125	0.464	1.76	20	
Zinc	0.548	0.010	0.500	0.078	94.1	75	125	0.553	0.890	20	

Sample ID: 15120992-001FMS	SampType: MS	TestCode: 6010-D	Units: mg/L	Prep Date:	RunNo: 49372						
Client ID: TBB-1D	Batch ID: R49372	TestNo: SW6010B		Analysis Date: 12/22/2015	SeqNo: 1205541						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
 H Holding times for preparation or analysis exceeded
 RL Reporting Limit
 W Sample container temperature is out of limit as specified at testcode

M Matrix Interference
 S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit
 U Analyte not detected



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QC SUMMARY REPORT

WO#: 15120992

23-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R49372

Sample ID: 15120992-001FMS	SampType: MS	TestCode: 6010-D	Units: mg/L	Prep Date:	RunNo: 49372						
Client ID: TBB-1D	Batch ID: R49372	TestNo: SW6010B		Analysis Date: 12/22/2015	SeqNo: 1205541						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	24.2	0.100	0.500	24.21	4.00	75	125				S
Strontium	1.56	0.100	0.500	1.073	97.4	75	125				

Sample ID: 15120992-001FMSD	SampType: MSD	TestCode: 6010-D	Units: mg/L	Prep Date:	RunNo: 49372						
Client ID: TBB-1D	Batch ID: R49372	TestNo: SW6010B		Analysis Date: 12/22/2015	SeqNo: 1205542						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	23.8	0.100	0.500	24.21	-84.0	75	125	24.23	1.83	20	S
Strontium	1.54	0.100	0.500	1.073	93.4	75	125	1.560	1.29	20	

NOTES:

S - Analyte concentration in native sample was too high for accurate spike recovery(ies). The method is in control as indicated by the laboratory control sample (LCS).

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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Sample Log-In Check List

Client Name: **ICON_ENV** Work Order Number: **15120992** RcptNo: **1**

Logged by:	Danielle Hollier	12/18/2015 1:55:00 PM	<i>Danielle Hollier</i>
Completed By:	Danielle Hollier	12/18/2015 2:47:38 PM	<i>Danielle Hollier</i>
Reviewed By:	Cristina Thibeaux	12/23/2015 9:50:59 AM	<i>Cristina Thibeaux</i>

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 Custody seals intact on shipping container/cooler? Yes No Not Present
 No. Seal Date: Signed By:
 5. Was an attempt made to cool the samples? Yes No NA
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 7. Sample(s) in proper container(s)? Yes No
 8. Sufficient sample volume for indicated test(s)? Yes No
 9. Are samples (except VOA and ONG) properly preserved? Yes No
 10. Was preservative added to bottles? Yes No NA
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
 12. Were any sample containers received broken? Yes No
 13. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 14. Are matrices correctly identified on Chain of Custody? Yes No
 15. Is it clear what analyses were requested? Yes No
 16. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text" value="Jason Sills"/>	Date:	<input type="text" value="12/23/2015"/>
By Whom:	<input type="text" value="Cristina Thibeaux"/>	Via:	<input checked="" type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Bromide not listed on COC. historically reported"/>		
Client Instructions:	<input type="text" value="Add Bromide"/>		

18. Additional remarks:
 Added the trip blank to the COC as per samples received.

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.1	Good	Not Present			



Chain of Custody

Laboratory Number: **15120992**

Client Information: **ESON Environmental**
 Contact Name: **Gina Miller**
 Address: **2049 Commercial Dr.**
 City, State Zip: **Port Allen, LA 70767**
 Phone Number: **(504) - 344-8180**
 Fax Number:
 E-mail Address:

Billing Information:
 Billing Information: **SAME**
 PO Number:
 Quote Number:
 Required QC Level: **Standard**
 Bill Monthly: Yes No

Project Name/Number: **East White Lake**
 9077-041-0800
 Sampler's Signature: *[Signature]*
 Shipping Method: **UPS / FedEx / NOW**
 DHL / Element / Mail

Page 1 of 1
 Matrix Code
 DW = Drinking Water
 WW = Waste Water
 GW = Ground Water
 AG = Aqueous
 OT = Other
 SL = Sludge
 G = Oil
 F = Food
 NG = Natural Gas
 NGL = Natural Gas Liquid
 PW = Produced Water
 CF = Completion Field

Sample ID/Description	Which Regulations Apply:		Turn Time	Collection Information	Rush turn limits will incur a surcharge and must be pre-approved by (lab.)	Container		Pres.	Requested Tests	Comments
	<input type="checkbox"/> RCRA	<input type="checkbox"/> POTA				<input type="checkbox"/> NPDES	<input type="checkbox"/> USDA/FDA			
TBB-1D	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Distribution	Standard	12/17/15 1345	G	GW	8	P6, V4, H1, H2	HCl, HNO3, H2SO4	Metals As, Ba, Cd, Cr Pb, Fe, Mn, Se Sr, Zn, Hg
TBB-1S	<input type="checkbox"/> Special	<input type="checkbox"/> State	RUSH	12/17/15 1545	G	GW	7	V	↓	Cations Ca, Mg, K, Na
TBB-3S	<input type="checkbox"/> Other	<input type="checkbox"/> Other	1 Day NSAP	12/18/15 0930	G	GW	7	V	↓	Ammonia Al, Carbonate Alk. Bicarbonate
Trip Danks			2 Day	12-17-15	G	AG	3	V	HCl	

Relinquished by	Date/Time	Received by	Date/Time	Field Notes
<i>[Signature]</i>	12-18-15 1355	<i>[Signature]</i>	12-18-15 1355	Received at lab on ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp: 3/1°C

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

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 F 812-375-6721

2151 East Washington Boulevard
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 F 260-471-7773

999 Executive Dr
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 P 574-267-3305
 F 574-269-6569

3371 Cleveland Road, Suite 100A
 South Bend, IN 46526-9789 USA
 P 574-277-6707
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04-12-18-15



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December 30, 2015

Greg Miller
ICON Environmental Services
2049 Commercial Drive
Port Allen, LA 70767
TEL: (225) 344-8490
FAX: (225) 344-6654

RE: East White Lake (VPSB) 9077-041-0800

Order No.: 15120877

Dear Greg Miller:

Element Materials Technology Lafayette received 5 sample(s) on 12/16/2015 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

All soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as -dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261-14-6. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

A handwritten signature in blue ink, appearing to read 'Cristina Thibeaux'.

Cristina Thibeaux
Customer Service Supervisor
2417 W. Pinhook Road
Lafayette, LA 70508-3344



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Case Narrative

WO#: 15120877
Date: 12/30/2015

CLIENT: ICON Environmental Services
Project: East White Lake (VPSB) 9077-041-0800

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).

Due to limited sample, the following Lab IDs were prepared for Leachate Chloride, using less than 100g of the soil (dry wt basis). The amount of the extraction fluid was proportionally reduced to yield a 1:4 sample to fluid ratio.

15120877-003A Insufficient volume for leachate chlorides, used 96.9g



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Analytical Report

(consolidated)

WO#: 15120877

Date Reported: 12/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/15/2015 1:00:00 PM
Project: East White Lake (VPSB) 9077-041-0800
Lab ID: 15120877-001 **Matrix:** SOIL
Client Sample ID TBB-1s (16-20)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS CATION EXCHANGE CAPACITY					LDNR 29-B	LDNR 29-B Analyst: MMT
Cation Exchange Capacity	35.9	0.100		meq/100g	1	12/22/2015 3:33:00 PM
29B SALTS ELECTRICAL CONDUCTIVITY @ SATURATION					LDNR 29-B	Analyst: MRM
Electrical Conductivity	15.2	0.10	*	mmhos/cm	1	12/22/2015 3:30:00 PM
29B SALTS EXCHANGEABLE SODIUM PERCENTAGE					LDNR 29-B	LDNR 29-B Analyst: MMT
Exchangeable Sodium %	36.2	0.100	*	%	1	12/22/2015 3:33:00 PM
29B SALTS SODIUM ADSORPTION RATIO					LDNR 29-B	LDNR 29-B Analyst: STS
Sodium Adsorption Ratio	73.1	0.100	*		1	12/22/2015
Soluble Calcium	4.24	1.00		meq/L	1	12/22/2015
Soluble Magnesium	2.69	1.00		meq/L	1	12/22/2015
Soluble Sodium	136	1.00		meq/L	1	12/22/2015
INORGANIC ANIONS IN LEACHATE BY IC					SW9056A	LDNR 29-B Analyst: SGP
Chloride	1,950	25.0		mg/L	100	12/29/2015 4:35:54 PM
SOLUBLE INORGANIC ANIONS IN SOIL BY IC					SW9056A	Analyst: SGP
Chloride	5,390	150		mg/Kg-dry	500	12/22/2015 6:05:45 PM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	23.6	1.00		wt%	1	12/17/2015 7:05:00 AM

Qualifiers: * Value exceeds Maximum Contaminant Level. H Holding times for preparation or analysis exceeded
 M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: **15120877**

Date Reported: **12/30/2015**

CLIENT: ICON Environmental Services **Collection Date:** 12/15/2015 1:05:00 PM
Project: East White Lake (VPSB) 9077-041-0800
Lab ID: 15120877-002 **Matrix:** SOIL
Client Sample ID TBB-1s (20-21)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ELECTRICAL CONDUCTIVITY @ SATURATION				LDNR 29-B		Analyst: MRM
Electrical Conductivity	18.2	0.10	*	mmhos/cm	1	12/22/2015 3:30:00 PM
INORGANIC ANIONS IN LEACHATE BY IC				SW9056A		LDNR 29-B Analyst: SGP
Chloride	1,560	25.0		mg/L	100	12/29/2015 5:17:05 PM
SOLUBLE INORGANIC ANIONS IN SOIL BY IC				SW9056A		Analyst: SGP
Chloride	5,630	121		mg/Kg-dry	500	12/22/2015 6:19:29 PM
PERCENT MOISTURE				LDNR 29-B		Analyst: MMT
Percent Moisture	19.2	1.00		wt%	1	12/17/2015 7:05:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



Element Materials Technology Lafayette
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 Website: www.element.com

Analytical Report

(consolidated)

WO#: 15120877

Date Reported: 12/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/15/2015 1:10:00 PM
Project: East White Lake (VPSB) 9077-041-0800
Lab ID: 15120877-003 **Matrix:** SOIL
Client Sample ID TBB-1s (24-26)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ELECTRICAL CONDUCTIVITY @ SATURATION				LDNR 29-B		Analyst: MRM
Electrical Conductivity	15.3	0.10	*	mmhos/cm	1	12/22/2015 3:30:00 PM
INORGANIC ANIONS IN LEACHATE BY IC				SW9056A		LDNR 29-B Analyst: SGP
Chloride	943	12.5		mg/L	50	12/29/2015 5:30:49 PM
SOLUBLE INORGANIC ANIONS IN SOIL BY IC				SW9056A		Analyst: SGP
Chloride	3,720	100		mg/Kg-dry	500	12/22/2015 6:33:13 PM
PERCENT MOISTURE				LDNR 29-B		Analyst: MMT
Percent Moisture	16.6	1.00		wt%	1	12/17/2015 7:05:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120877

Date Reported: 12/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/15/2015 1:15:00 PM
Project: East White Lake (VPSB) 9077-041-0800
Lab ID: 15120877-004 **Matrix:** SOIL
Client Sample ID TBB-1s (34-38)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ELECTRICAL CONDUCTIVITY @ SATURATION				LDNR 29-B		Analyst: MRM
Electrical Conductivity	26.5	0.10	*	mmhos/cm	1	12/22/2015 3:30:00 PM
INORGANIC ANIONS IN LEACHATE BY IC				SW9056A		LDNR 29-B Analyst: SGP
Chloride	994	12.5		mg/L	50	12/29/2015 5:44:33 PM
SOLUBLE INORGANIC ANIONS IN SOIL BY IC				SW9056A		Analyst: SGP
Chloride	4,210	61.4		mg/Kg-dry	500	12/22/2015 6:46:58 PM
PERCENT MOISTURE				LDNR 29-B		Analyst: MMT
Percent Moisture	21.9	1.00		wt%	1	12/17/2015 7:05:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: **15120877**

Date Reported: **12/30/2015**

CLIENT: ICON Environmental Services **Collection Date:** 12/15/2015 1:20:00 PM
Project: East White Lake (VPSB) 9077-041-0800
Lab ID: 15120877-005 **Matrix:** SOIL
Client Sample ID TBB-1s (38-42)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ELECTRICAL CONDUCTIVITY @ SATURATION				LDNR 29-B		Analyst: MRM
Electrical Conductivity	31.8	0.10	*	mmhos/cm	1	12/22/2015 3:30:00 PM
INORGANIC ANIONS IN LEACHATE BY IC				SW9056A		LDNR 29-B Analyst: SGP
Chloride	1,100	25.0		mg/L	100	12/29/2015 5:58:17 PM
SOLUBLE INORGANIC ANIONS IN SOIL BY IC				SW9056A		Analyst: SGP
Chloride	4,020	96.5		mg/Kg-dry	1000	12/22/2015 7:00:43 PM
PERCENT MOISTURE				LDNR 29-B		Analyst: MMT
Percent Moisture	23.1	1.00		wt%	1	12/17/2015 7:05:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 15120877

30-Dec-15

Client: ICON Environmental Services
Project: East White Lake (VPSB) 9077-041-0800

BatchID: 17766

Sample ID: 15120700-003ADUP	SampType: DUP	TestCode: SAR_S	Units:	Prep Date: 12/21/2015	RunNo: 49378						
Client ID: ZZZZZZ	Batch ID: 17766	TestNo: LDNR 29-B	LDNR 29-B	Analysis Date: 12/22/2015	SeqNo: 1205827						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium Adsorption Ratio	69.5	0.100						69.65	0.248	20	*
Soluble Calcium	25.5	1.00						25.65	0.605	20	
Soluble Magnesium	11.7	1.00						11.77	0.420	20	
Soluble Sodium	300	1.00						301.2	0.521	20	

Sample ID: 15120700-042ADUP	SampType: DUP	TestCode: SAR_S	Units:	Prep Date: 12/21/2015	RunNo: 49378						
Client ID: ZZZZZZ	Batch ID: 17766	TestNo: LDNR 29-B	LDNR 29-B	Analysis Date: 12/22/2015	SeqNo: 1205848						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium Adsorption Ratio	32.1	0.100						32.19	0.418	20	*
Soluble Calcium	6.64	1.00						6.617	0.376	20	
Soluble Magnesium	2.16	1.00						2.168	0.380	20	
Soluble Sodium	67.3	1.00						67.47	0.323	20	

Qualifiers: * Value exceeds Maximum Contaminant Level. H Holding times for preparation or analysis exceeded M Matrix Interference
 ND Not Detected at the Reporting Limit RL Reporting Limit U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120877
 30-Dec-15

Client: ICON Environmental Services
Project: East White Lake (VPSB) 9077-041-0800

BatchID: 17770

Sample ID: 15120617-001ADUP	SampType: dup	TestCode: ESP_S	Units: %	Prep Date: 12/21/2015	RunNo: 49382						
Client ID: ZZZZZZ	Batch ID: 17770	TestNo: LDNR 29-B	LDNR 29-B	Analysis Date: 12/22/2015	SeqNo: 1206062						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Exchangeable Sodium %	28.3	0.100						27.58	2.64	20	*

Qualifiers:

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ND	Not Detected at the Reporting Limit	RL	Reporting Limit	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 15120877
 30-Dec-15

Client: ICON Environmental Services
Project: East White Lake (VPSB) 9077-041-0800

BatchID: 17771

Sample ID: 15120617-001ADUP	SampType: dup	TestCode: CEC	Units: meq/100g	Prep Date: 12/21/2015	RunNo: 49381						
Client ID: ZZZZZ	Batch ID: 17771	TestNo: LDNR 29-B	LDNR 29-B	Analysis Date: 12/22/2015	SeqNo: 1206041						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cation Exchange Capacity	30.8	0.100						27.62	10.9	20	

Sample ID: lcs-17771	SampType: lcs	TestCode: CEC	Units: meq/100g	Prep Date: 12/21/2015	RunNo: 49381						
Client ID: LCSS	Batch ID: 17771	TestNo: LDNR 29-B	LDNR 29-B	Analysis Date: 12/22/2015	SeqNo: 1206059						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cation Exchange Capacity	20.6	0.100	25.00	0	82.4	76	124				

Sample ID: lcsd-17771	SampType: lcsd	TestCode: CEC	Units: meq/100g	Prep Date: 12/21/2015	RunNo: 49381						
Client ID: LCSS02	Batch ID: 17771	TestNo: LDNR 29-B	LDNR 29-B	Analysis Date: 12/22/2015	SeqNo: 1206060						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cation Exchange Capacity	20.3	0.100	25.00	0	81.2	76	124	20.61	1.57	20	

Qualifiers:

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ND	Not Detected at the Reporting Limit	RL	Reporting Limit	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 15120877
 30-Dec-15

Client: ICON Environmental Services
Project: East White Lake (VPSB) 9077-041-0800

BatchID: 17789

Sample ID: MBLK	SampType: MBLK	TestCode: 9056_LEACH	Units: mg/L	Prep Date:	RunNo: 49470						
Client ID: PBW	Batch ID: 17789	TestNo: SW9056A	LDNR 29-B	Analysis Date: 12/29/2015	SeqNo: 1209418						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride < 0.250 0.250

Sample ID: LCS	SampType: LCS	TestCode: 9056_LEACH	Units: mg/L	Prep Date:	RunNo: 49470						
Client ID: LCSW	Batch ID: 17789	TestNo: SW9056A	LDNR 29-B	Analysis Date: 12/29/2015	SeqNo: 1209419						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 10.2 0.250 10.00 0 102 80 120

Sample ID: LCSD	SampType: LCSD	TestCode: 9056_LEACH	Units: mg/L	Prep Date:	RunNo: 49470						
Client ID: LCSS02	Batch ID: 17789	TestNo: SW9056A	LDNR 29-B	Analysis Date: 12/29/2015	SeqNo: 1209420						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 10.1 0.250 10.00 0 101 80 120 10.16 0.932 15

Sample ID: 15120877-001AMS	SampType: MS	TestCode: 9056_LEACH	Units: mg/L	Prep Date:	RunNo: 49470						
Client ID: TBB-1s (16-20)	Batch ID: 17789	TestNo: SW9056A	LDNR 29-B	Analysis Date: 12/29/2015	SeqNo: 1209422						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 2,360 25.0 500.0 1,951 82.3 80 120

Qualifiers: * Value exceeds Maximum Contaminant Level. H Holding times for preparation or analysis exceeded M Matrix Interference
 ND Not Detected at the Reporting Limit RL Reporting Limit U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120877
 30-Dec-15

Client: ICON Environmental Services
Project: East White Lake (VPSB) 9077-041-0800

BatchID: 17789

Sample ID: 15120877-001AMSD	SampType: MSD	TestCode: 9056_LEACH	Units: mg/L	Prep Date:	RunNo: 49470						
Client ID: TBB-1s (16-20)	Batch ID: 17789	TestNo: SW9056A	LDNR 29-B	Analysis Date: 12/29/2015	SeqNo: 1209423						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2,370	25.0	500.0	1,951	83.3	80	120	2,362	0.221	15	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 15120877
 30-Dec-15

Client: ICON Environmental Services
Project: East White Lake (VPSB) 9077-041-0800

BatchID: R49369

Sample ID: MB-R49369	SampType: MBLK	TestCode: EC_S	Units: mmhos/cm	Prep Date:	RunNo: 49369						
Client ID: PBS	Batch ID: R49369	TestNo: LDNR 29-B		Analysis Date: 12/22/2015	SeqNo: 1205671						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Electrical Conductivity < 0.10 0.10

Sample ID: R49369LCS1	SampType: LCS1	TestCode: EC_S	Units: mmhos/cm	Prep Date:	RunNo: 49369						
Client ID: ZZZZZ	Batch ID: R49369	TestNo: LDNR 29-B		Analysis Date: 12/22/2015	SeqNo: 1205672						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Electrical Conductivity 0.39 0.10 0.36 0 108 89.9 110.08

Sample ID: R49369LCS2	SampType: LCS2	TestCode: EC_S	Units: mmhos/cm	Prep Date:	RunNo: 49369						
Client ID: ZZZZZ	Batch ID: R49369	TestNo: LDNR 29-B		Analysis Date: 12/22/2015	SeqNo: 1205673						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Electrical Conductivity 54.5 0.10 53.00 0 103 90 110

Sample ID: 15120761-001ADUP	SampType: DUP	TestCode: EC_S	Units: mmhos/cm	Prep Date:	RunNo: 49369						
Client ID: ZZZZZ	Batch ID: R49369	TestNo: LDNR 29-B		Analysis Date: 12/22/2015	SeqNo: 1205675						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Electrical Conductivity 4.11 0.10 3.78 8.37 20 *

Qualifiers: * Value exceeds Maximum Contaminant Level. H Holding times for preparation or analysis exceeded M Matrix Interference
 ND Not Detected at the Reporting Limit RL Reporting Limit U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120877
 30-Dec-15

Client: ICON Environmental Services
Project: East White Lake (VPSB) 9077-041-0800

BatchID: R49373

Sample ID: MBLK	SampType: MBLK	TestCode: 9056_S	Units: mg/Kg-dry	Prep Date:	RunNo: 49373						
Client ID: PBS	Batch ID: R49373	TestNo: SW9056A		Analysis Date: 12/22/2015	SeqNo: 1206130						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride < 0.250 0.250

Sample ID: LCS	SampType: LCS	TestCode: 9056_S	Units: mg/Kg-dry	Prep Date:	RunNo: 49373						
Client ID: LCSS	Batch ID: R49373	TestNo: SW9056A		Analysis Date: 12/22/2015	SeqNo: 1206131						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 9.67 0.250 10.00 0 96.7 80 120

Sample ID: LCSD	SampType: LCSD	TestCode: 9056_S	Units: mg/Kg-dry	Prep Date:	RunNo: 49373						
Client ID: LCSS02	Batch ID: R49373	TestNo: SW9056A		Analysis Date: 12/22/2015	SeqNo: 1206132						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 9.61 0.250 10.00 0 96.1 80 120 9.674 0.630 15

Sample ID: 15120877-005AMS	SampType: MS	TestCode: 9056_S	Units: mg/Kg-dry	Prep Date:	RunNo: 49373						
Client ID: TBB-1s (38-42)	Batch ID: R49373	TestNo: SW9056A		Analysis Date: 12/22/2015	SeqNo: 1206138						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 5,890 96.5 1,930 4,019 97.2 80 120

Qualifiers: * Value exceeds Maximum Contaminant Level. H Holding times for preparation or analysis exceeded M Matrix Interference
 ND Not Detected at the Reporting Limit RL Reporting Limit U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120877
 30-Dec-15

Client: ICON Environmental Services
Project: East White Lake (VPSB) 9077-041-0800

BatchID: R49373

Sample ID: 15120877-005AMSD	SampType: MSD	TestCode: 9056_S	Units: mg/Kg-dry	Prep Date:	RunNo: 49373						
Client ID: TBB-1s (38-42)	Batch ID: R49373	TestNo: SW9056A		Analysis Date: 12/22/2015	SeqNo: 1206139						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	5,910	96.5	1,930	4,019	98.3	80	120	5,895	0.346	15	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 15120877
 30-Dec-15

Client: ICON Environmental Services
Project: East White Lake (VPSB) 9077-041-0800

BatchID: R49395

Sample ID: 15120819-023ADUP	SampType: dup	TestCode: PMOIST	Units: wt%	Prep Date:	RunNo: 49395						
Client ID: ZZZZZZ	Batch ID: R49395	TestNo: LDNR 29-B		Analysis Date: 12/16/2015	SeqNo: 1206278						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	24.0	1.00						25.75	7.24	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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Sample Log-In Check List

Client Name: **ICON_ENV** Work Order Number: **15120877** RcptNo: **1**

Logged by:	Danielle Hollier	12/16/2015 4:00:00 PM	<i>Danielle Hollier</i>
Completed By:	Danielle Hollier	12/16/2015 4:54:47 PM	<i>Danielle Hollier</i>
Reviewed By:	Cristina Thibeaux	12/23/2015 9:44:21 AM	<i>Cristina Thibeaux</i>

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 Custody seals intact on shipping container/cooler? Yes No Not Present
 No. Seal Date: Signed By:
 5. Was an attempt made to cool the samples? Yes No NA
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
Not required
 7. Sample(s) in proper container(s)? Yes No
 8. Sufficient sample volume for indicated test(s)? Yes No
 9. Are samples (except VOA and ONG) properly preserved? Yes No
 10. Was preservative added to bottles? Yes No NA
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
 12. Were any sample containers received broken? Yes No
 13. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 14. Are matrices correctly identified on Chain of Custody? Yes No
 15. Is it clear what analyses were requested? Yes No
 16. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:
 Improper error correction(s) made by client

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
-----------	---------	-----------	-------------	---------	-----------	-----------



Chain of Custody

Laboratory Number: **1512-0977**

Client Information:
 Company Name: **FCO**
 Contact Name: **Greg Miller**
 Address: **449 Commercial Dr**
 City, State Zip: **Port Allen LA 70767**
 Phone Number: **225-394-8490** Ext:
 Fax Number:
 E-mail Address:

Billing Information:
 PO Number:
 Quote Number:
 Required QC Level:
 Bill Monthly: Yes No

Project Name/Number: **East White Lake (VPS)**
9071 - 011 - 0500
Sampler's Signature: *[Signature]*
Shipping Method: **UPS / FedEx / NOW**
DHL / Element / Hand / Mail

Matrix Code
 DW = Drinking Water
 WW = Waste Water
 GW = Ground Water
 AQ = Aqueous
 OT = Other
 SL = Sludge
 O = Oil
 F = Food
 NG = Natural Gas
 NGL = Natural Gas Liquid
 PW = Produced Water
 CF = Completion Fluid

Which Regulations Apply: <input type="checkbox"/> RCRA <input type="checkbox"/> POTW <input type="checkbox"/> NPDES <input type="checkbox"/> USDA/FDA <input type="checkbox"/> RECAP/IRIS	Turn Time <input type="checkbox"/> Standard <input checked="" type="checkbox"/> RUSH <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <i>Special weeks</i>	Rush turn times will incur a surcharge and must be pre-approved by <i>[Signature]</i>	Collection Information		Container Type Plastic V=Val G=Glass	Pres. HCl, HNO ₃ , H ₂ SO ₄ , NaOH, Na ₂ O ₂	Requested Tests	Comments
			Date	Time				
			Sample ID/Description	Matrix				
			12-15-13	1300	G	none	CEC SP SR FR	
			12-15-13	1305	G			
			12-15-13	1310	G			
			12-15-13	1315	G			
			12-15-13	1320	G			

Relinquished by: *[Signature]* **Date/Time:** **12-15-13 1600**
Received by: *[Signature]* **Date/Time:** **12-16-13 1600**
 Field Notes:
 Received at lab on ice? Yes No Temp:

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

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 F 768-378-4108

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 47201-6231 USA
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 P 574-297-3365
 F 574-269-6569

3371 Cleveland Road, Suite 100A
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 46626-9760 USA
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2417 W. Pinhook Rd
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 70508-3344 USA
 P 337-235-0483
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December 22, 2015

Greg Miller
ICON Environmental Services
2049 Commercial Drive
Port Allen, LA 70767
TEL: (225) 344-8490
FAX (225) 344-6654

RE: East White Lake/9077-041-0800

Order No.: 15120875

Dear Greg Miller:

Element Materials Technology Lafayette received 3 sample(s) on 12/16/2015 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

All soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as –dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261-14-6. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

A handwritten signature in blue ink, appearing to read 'Cristina Thibeaux', is written over a light blue circular stamp.

Cristina Thibeaux
Customer Service Supervisor
2417 W. Pinhook Road
Lafayette, LA 70508-3344



Element Materials Technology Lafayette
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Case Narrative

WO#: 15120875
Date: 12/22/2015

CLIENT: ICON Environmental Services
Project: East White Lake/9077-041-0800

12/22/15: This report is being re-issued and replaces the original report in its entirety. The original report was missing Selenium.

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).



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Analytical Report

(consolidated)

WO#: 15120875

Date Reported: 12/22/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/15/2015 11:00:00 AM
Project: East White Lake/9077-041-0800
Lab ID: 15120875-001 **Matrix:** AQUEOUS
Client Sample ID TBB-2D

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	0.218	0.130		mg/L	1	12/17/2015 6:50:00 PM
TPH (Oil Range)	< 0.120	0.120		mg/L	1	12/17/2015 6:50:00 PM
Surr: 4-Terphenyl-d14	50.5	36.8 - 128		%REC	1	12/17/2015 6:50:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	12/17/2015 12:48:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	103	70 - 130		%REC	1	12/17/2015 12:48:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	12/17/2015 12:48:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	12/17/2015 12:48:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	12/17/2015 12:48:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	12/17/2015 12:48:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	102	70 - 130		%REC	1	12/17/2015 12:48:00 PM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: TJH
Mercury	< 0.0002	0.0002		mg/L	1	12/18/2015 4:56:56 PM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	0.893	0.500		mg/L	5	12/17/2015 10:51:01 AM
Chloride	942	25.0		mg/L	100	12/17/2015 9:40:18 AM
Sulfate	44.0	1.25		mg/L	5	12/17/2015 10:51:01 AM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	< 0.010	0.010		mg/L	1	12/17/2015 7:45:13 PM
Barium	1.12	0.100		mg/L	10	12/17/2015 8:11:34 PM
Cadmium	< 0.005	0.005		mg/L	1	12/17/2015 7:45:13 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120875

Date Reported: 12/22/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/15/2015 11:00:00 AM
Project: East White Lake/9077-041-0800
Lab ID: 15120875-001 **Matrix:** AQUEOUS
Client Sample ID TBB-2D

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS		SW6010B			Analyst: STS	
Calcium	121	5.00		mg/L	10	12/17/2015 8:11:34 PM
Chromium	0.018	0.010		mg/L	1	12/17/2015 7:45:13 PM
Iron	15.7	0.100		mg/L	10	12/17/2015 8:11:34 PM
Lead	< 0.010	0.010		mg/L	1	12/17/2015 7:45:13 PM
Magnesium	50.9	0.500		mg/L	1	12/17/2015 7:45:13 PM
Manganese	0.751	0.010		mg/L	1	12/17/2015 7:45:13 PM
Potassium	7.77	5.00		mg/L	1	12/17/2015 7:45:13 PM
Selenium	< 0.020	0.020		mg/L	1	12/17/2015 7:45:13 PM
Sodium	509	50.0		mg/L	10	12/17/2015 8:11:34 PM
Strontium	1.26	0.100		mg/L	10	12/17/2015 8:11:34 PM
Zinc	0.061	0.010		mg/L	1	12/17/2015 7:45:13 PM
ALKALINITY; TOTAL, CARB, BICARB		SM2320 B			Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO3)	338	10.0		mgCaCO3/L	1	12/17/2015 11:49:59 AM
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0		mgCaCO3/L	1	12/17/2015 11:49:59 AM
Alkalinity, Total (As CaCO3)	338	10.0		mgCaCO3/L	1	12/17/2015 11:49:59 AM
TOTAL DISSOLVED SOLIDS		SM2540C			Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	2,030	100		mg/L	5	12/18/2015 7:49:00 AM

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference
 ND Not Detected at the Reporting Limit RL Reporting Limit
 S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15120875

Date Reported: 12/22/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/15/2015 1:30:00 PM
Project: East White Lake/9077-041-0800
Lab ID: 15120875-002 **Matrix:** AQUEOUS
Client Sample ID TBB-3D

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	2.28	0.130		mg/L	1	12/17/2015 7:06:00 PM
TPH (Oil Range)	< 0.120	0.120		mg/L	1	12/17/2015 7:06:00 PM
Surr: 4-Terphenyl-d14	72.3	36.8 - 128		%REC	1	12/17/2015 7:06:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	12/17/2015 1:15:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	99.8	70 - 130		%REC	1	12/17/2015 1:15:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	12/17/2015 1:15:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	12/17/2015 1:15:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	12/17/2015 1:15:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	12/17/2015 1:15:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	98.4	70 - 130		%REC	1	12/17/2015 1:15:00 PM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: TJH
Mercury	< 0.0002	0.0002		mg/L	1	12/18/2015 5:05:22 PM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	0.663	0.500		mg/L	5	12/17/2015 11:04:45 AM
Chloride	666	12.5		mg/L	50	12/17/2015 10:21:14 AM
Sulfate	6.83	1.25		mg/L	5	12/17/2015 11:04:45 AM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	< 0.010	0.010		mg/L	1	12/17/2015 7:48:58 PM
Barium	0.886	0.010		mg/L	1	12/17/2015 7:48:58 PM
Cadmium	< 0.005	0.005		mg/L	1	12/17/2015 7:48:58 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120875

Date Reported: 12/22/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/15/2015 1:30:00 PM
Project: East White Lake/9077-041-0800
Lab ID: 15120875-002 **Matrix:** AQUEOUS
Client Sample ID TBB-3D

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS		SW6010B			Analyst: STS	
Calcium	122	0.500		mg/L	1	12/17/2015 7:48:58 PM
Chromium	< 0.010	0.010		mg/L	1	12/17/2015 7:48:58 PM
Iron	1.92	0.010		mg/L	1	12/17/2015 7:48:58 PM
Lead	< 0.010	0.010		mg/L	1	12/17/2015 7:48:58 PM
Magnesium	37.3	0.500		mg/L	1	12/17/2015 7:48:58 PM
Manganese	0.160	0.010		mg/L	1	12/17/2015 7:48:58 PM
Potassium	5.23	5.00		mg/L	1	12/17/2015 7:48:58 PM
Selenium	< 0.020	0.020		mg/L	1	12/17/2015 7:48:58 PM
Sodium	318	5.00		mg/L	1	12/17/2015 7:48:58 PM
Strontium	0.877	0.010		mg/L	1	12/17/2015 7:48:58 PM
Zinc	0.014	0.010		mg/L	1	12/17/2015 7:48:58 PM
ALKALINITY; TOTAL, CARB, BICARB		SM2320 B			Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO3)	315	10.0		mgCaCO3/L	1	12/17/2015 11:49:59 AM
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0		mgCaCO3/L	1	12/17/2015 11:49:59 AM
Alkalinity, Total (As CaCO3)	315	10.0		mgCaCO3/L	1	12/17/2015 11:49:59 AM
TOTAL DISSOLVED SOLIDS		SM2540C			Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	1,470	100		mg/L	5	12/18/2015 7:49:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120875

Date Reported: 12/22/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/16/2015 11:30:00 AM
Project: East White Lake/9077-041-0800
Lab ID: 15120875-003 **Matrix:** AQUEOUS
Client Sample ID MC-1

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	< 0.130	0.130		mg/L	1	12/17/2015 7:21:00 PM
TPH (Oil Range)	< 0.120	0.120		mg/L	1	12/17/2015 7:21:00 PM
Surr: 4-Terphenyl-d14	47.2	36.8 - 128		%REC	1	12/17/2015 7:21:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	12/17/2015 1:42:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	98.6	70 - 130		%REC	1	12/17/2015 1:42:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	12/17/2015 1:42:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	12/17/2015 1:42:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	12/17/2015 1:42:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	12/17/2015 1:42:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	97.8	70 - 130		%REC	1	12/17/2015 1:42:00 PM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: TJH
Mercury	< 0.0002	0.0002		mg/L	1	12/18/2015 5:07:49 PM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	1.48	0.500		mg/L	5	12/17/2015 11:18:29 AM
Chloride	769	12.5		mg/L	50	12/17/2015 10:34:58 AM
Sulfate	61.4	1.25		mg/L	5	12/17/2015 11:18:29 AM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	< 0.010	0.010		mg/L	1	12/17/2015 7:53:18 PM
Barium	1.55	0.100		mg/L	10	12/17/2015 8:16:21 PM
Cadmium	< 0.005	0.005		mg/L	1	12/17/2015 7:53:18 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120875

Date Reported: 12/22/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/16/2015 11:30:00 AM
Project: East White Lake/9077-041-0800
Lab ID: 15120875-003 **Matrix:** AQUEOUS
Client Sample ID MC-1

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS		SW6010B			Analyst: STS	
Calcium	118	5.00		mg/L	10	12/17/2015 8:16:21 PM
Chromium	< 0.010	0.010		mg/L	1	12/17/2015 7:53:18 PM
Iron	1.48	0.100		mg/L	10	12/17/2015 8:16:21 PM
Lead	< 0.010	0.010		mg/L	1	12/17/2015 7:53:18 PM
Magnesium	43.9	0.500		mg/L	1	12/17/2015 7:53:18 PM
Manganese	0.468	0.010		mg/L	1	12/17/2015 7:53:18 PM
Potassium	6.02	5.00		mg/L	1	12/17/2015 7:53:18 PM
Selenium	< 0.020	0.020		mg/L	1	12/17/2015 7:53:18 PM
Sodium	409	50.0		mg/L	10	12/17/2015 8:16:21 PM
Strontium	1.27	0.100		mg/L	10	12/17/2015 8:16:21 PM
Zinc	0.012	0.010		mg/L	1	12/17/2015 7:53:18 PM
ALKALINITY; TOTAL, CARB, BICARB		SM2320 B			Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO3)	332	10.0		mgCaCO3/L	1	12/17/2015 11:49:59 AM
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0		mgCaCO3/L	1	12/17/2015 11:49:59 AM
Alkalinity, Total (As CaCO3)	332	10.0		mgCaCO3/L	1	12/17/2015 11:49:59 AM
TOTAL DISSOLVED SOLIDS		SM2540C			Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	1,640	100		mg/L	5	12/18/2015 7:49:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 15120875
 22-Dec-15

Client: ICON Environmental Services
Project: East White Lake/9077-041-0800

BatchID: 17700

Sample ID	LCS-D-17700	SampType: LCS	TestCode: 8015_DO_W	Units: mg/L	Prep Date: 12/17/2015	RunNo: 49270					
Client ID:	LCSW	Batch ID: 17700	TestNo: SW8015B	SW3510C	Analysis Date: 12/17/2015	SeqNo: 1202447					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel Range)	2.78	0.130	3.000	0	92.6	62.3	110				
Surr: 4-Terphenyl-d14	0.0681		0.1000		68.1	36.8	128				

Sample ID	LCSD-D-17700	SampType: LCSD	TestCode: 8015_DO_W	Units: mg/L	Prep Date: 12/17/2015	RunNo: 49270					
Client ID:	LCSS02	Batch ID: 17700	TestNo: SW8015B	SW3510C	Analysis Date: 12/17/2015	SeqNo: 1202448					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel Range)	2.81	0.130	3.000	0	93.8	62.3	110	2.779	1.23	14.1	
Surr: 4-Terphenyl-d14	0.0435		0.1000		43.5	36.8	128		0	40	

Sample ID	LCSD-M-17700	SampType: LCSD	TestCode: 8015_DO_W	Units: mg/L	Prep Date: 12/17/2015	RunNo: 49270					
Client ID:	LCSS02	Batch ID: 17700	TestNo: SW8015B	SW3510C	Analysis Date: 12/17/2015	SeqNo: 1202449					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Oil Range)	2.44	0.120	3.000	0	81.4	63.8	124	2.338	4.39	23.2	
Surr: 4-Terphenyl-d14	0.0476		0.1000		47.6	36.8	128		0	40	

Sample ID	LCS-M-17700	SampType: LCS	TestCode: 8015_DO_W	Units: mg/L	Prep Date: 12/17/2015	RunNo: 49270					
Client ID:	LCSW	Batch ID: 17700	TestNo: SW8015B	SW3510C	Analysis Date: 12/17/2015	SeqNo: 1202450					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Oil Range)	2.34	0.120	3.000	0	78.0	63.8	124				

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120875
 22-Dec-15

Client: ICON Environmental Services
Project: East White Lake/9077-041-0800

BatchID: 17700

Sample ID	LCS-M-17700	SampType:	LCS	TestCode:	8015_DO_W	Units:	mg/L	Prep Date:	12/17/2015	RunNo:	49270			
Client ID:	LCSW	Batch ID:	17700	TestNo:	SW8015B	SW3510C		Analysis Date:	12/17/2015	SeqNo:	1202450			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14		0.0432			0.1000			43.2	36.8	128				

Sample ID	MB-17700	SampType:	MBLK	TestCode:	8015_DO_W	Units:	mg/L	Prep Date:	12/17/2015	RunNo:	49270			
Client ID:	PBW	Batch ID:	17700	TestNo:	SW8015B	SW3510C		Analysis Date:	12/17/2015	SeqNo:	1202451			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel Range)		< 0.130		0.130										
TPH (Oil Range)		< 0.120		0.120										
Surr: 4-Terphenyl-d14		0.0559			0.1000			55.9	36.8	128				

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120875
 22-Dec-15

Client: ICON Environmental Services
Project: East White Lake/9077-041-0800

BatchID: 17702

Sample ID	MB-17702	SampType:	MBLK	TestCode:	6010_W	Units:	mg/L	Prep Date:	12/17/2015	RunNo:	49267
Client ID:	PBW	Batch ID:	17702	TestNo:	SW6010B			Analysis Date:	12/17/2015	SeqNo:	1202127
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 0.010	0.010									
Barium	< 0.010	0.010									
Cadmium	< 0.005	0.005									
Calcium	< 0.500	0.500									
Chromium	< 0.010	0.010									
Iron	< 0.010	0.010									
Lead	< 0.010	0.010									
Magnesium	< 0.500	0.500									
Manganese	< 0.010	0.010									
Potassium	< 5.00	5.00									
Selenium	< 0.020	0.020									
Sodium	< 5.00	5.00									
Strontium	< 0.010	0.010									
Zinc	< 0.010	0.010									

Sample ID	LCS-17702	SampType:	LCS	TestCode:	6010_W	Units:	mg/L	Prep Date:	12/17/2015	RunNo:	49267
Client ID:	LCSW	Batch ID:	17702	TestNo:	SW6010B			Analysis Date:	12/17/2015	SeqNo:	1202128
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.484	0.010	0.500	0	96.8	80	120				
Barium	0.482	0.010	0.500	0	96.3	80	120				
Cadmium	0.476	0.005	0.500	0	95.2	80	120				
Calcium	47.4	0.500	50.00	0	94.9	80	120				
Chromium	0.480	0.010	0.500	0	95.9	80	120				
Iron	0.481	0.010	0.500	0	96.2	80	120				

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120875
 22-Dec-15

Client: ICON Environmental Services
Project: East White Lake/9077-041-0800

BatchID: 17702

Sample ID	LCSS-17702	SampType:	LCS	TestCode:	6010_W	Units:	mg/L	Prep Date:	12/17/2015	RunNo:	49267
Client ID:	LCSSW	Batch ID:	17702	TestNo:	SW6010B			Analysis Date:	12/17/2015	SeqNo:	1202128
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.480	0.010	0.500	0	96.0	80	120				
Magnesium	47.1	0.500	50.00	0	94.1	80	120				
Manganese	0.483	0.010	0.500	0	96.6	80	120				
Potassium	46.9	5.00	50.00	0	93.7	80	120				
Selenium	0.487	0.020	0.500	0	97.4	80	120				
Sodium	47.4	5.00	50.00	0	94.8	80	120				
Strontium	0.491	0.010	0.500	0	98.1	80	120				
Zinc	0.483	0.010	0.500	0	96.6	80	120				

Sample ID	LCSD-17702	SampType:	LCSD	TestCode:	6010_W	Units:	mg/L	Prep Date:	12/17/2015	RunNo:	49267
Client ID:	LCSS02	Batch ID:	17702	TestNo:	SW6010B			Analysis Date:	12/17/2015	SeqNo:	1202129
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.485	0.010	0.500	0	97.0	80	120	0.484	0.206	20	
Barium	0.481	0.010	0.500	0	96.2	80	120	0.482	0.062	20	
Cadmium	0.475	0.005	0.500	0	95.0	80	120	0.476	0.168	20	
Calcium	46.2	0.500	50.00	0	92.4	80	120	47.43	2.63	20	
Chromium	0.478	0.010	0.500	0	95.7	80	120	0.480	0.230	20	
Iron	0.480	0.010	0.500	0	96.0	80	120	0.481	0.146	20	
Lead	0.482	0.010	0.500	0	96.4	80	120	0.480	0.416	20	
Magnesium	45.9	0.500	50.00	0	91.8	80	120	47.06	2.54	20	
Manganese	0.482	0.010	0.500	0	96.5	80	120	0.483	0.124	20	
Potassium	47.0	5.00	50.00	0	94.0	80	120	46.86	0.277	20	
Selenium	0.485	0.020	0.500	0	97.0	80	120	0.487	0.391	20	
Sodium	45.8	5.00	50.00	0	91.7	80	120	47.42	3.41	20	

Qualifiers:
 H Holding times for preparation or analysis exceeded
 RL Reporting Limit
 W Sample container temperature is out of limit as specified at testcode

M Matrix Interference
 S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit
 U Analyte not detected



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QC SUMMARY REPORT

WO#: 15120875
 22-Dec-15

Client: ICON Environmental Services
Project: East White Lake/9077-041-0800

BatchID: 17702

Sample ID	LCSD-17702	SampType:	LCSD	TestCode:	6010_W	Units:	mg/L	Prep Date:	12/17/2015	RunNo:	49267					
Client ID:	LCSS02	Batch ID:	17702	TestNo:	SW6010B			Analysis Date:	12/17/2015	SeqNo:	1202129					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Strontium		0.484		0.010		0.500		0		96.9	80	120	0.491	1.31	20	
Zinc		0.482		0.010		0.500		0		96.3	80	120	0.483	0.311	20	

Sample ID	15120868-002DMS	SampType:	MS	TestCode:	6010_W	Units:	mg/L	Prep Date:	12/17/2015	RunNo:	49267					
Client ID:	ZZZZZZ	Batch ID:	17702	TestNo:	SW6010B			Analysis Date:	12/17/2015	SeqNo:	1202132					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		0.488		0.010		0.500		0.021		93.2	75	125				
Barium		0.719		0.010		0.500		0.279		88.0	75	125				
Cadmium		0.441		0.005		0.500		0.002		87.7	75	125				
Calcium		108		0.500		50.00		62.96		89.1	75	125				
Chromium		0.458		0.010		0.500		0.009		89.8	75	125				
Iron		5.18		0.010		0.500		4.950		45.6	75	125				S
Lead		0.448		0.010		0.500		0		89.5	75	125				
Magnesium		86.1		0.500		50.00		42.20		87.7	75	125				
Manganese		0.618		0.010		0.500		0.169		89.8	75	125				
Potassium		134		5.00		50.00		88.42		91.2	75	125				
Selenium		0.451		0.020		0.500		0.010		88.2	75	125				
Sodium		270		5.00		50.00		230.5		80.0	75	125				
Zinc		0.552		0.010		0.500		0.088		92.7	75	125				

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120875
 22-Dec-15

Client: ICON Environmental Services
Project: East White Lake/9077-041-0800

BatchID: 17702

Sample ID	15120868-002DMSD	SampType:	MSD	TestCode:	6010_W	Units:	mg/L	Prep Date:	12/17/2015	RunNo:	49267
Client ID:	ZZZZZZ	Batch ID:	17702	TestNo:	SW6010B			Analysis Date:	12/17/2015	SeqNo:	1202133
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.486	0.010	0.500	0.021	92.9	75	125	0.488	0.329	20	
Barium	0.734	0.010	0.500	0.279	91.1	75	125	0.719	2.09	20	
Cadmium	0.447	0.005	0.500	0.002	88.9	75	125	0.441	1.33	20	
Calcium	109	0.500	50.00	62.96	92.1	75	125	107.5	1.39	20	
Chromium	0.465	0.010	0.500	0.009	91.2	75	125	0.458	1.43	20	
Iron	5.25	0.010	0.500	4.950	59.6	75	125	5.178	1.34	20	S
Lead	0.448	0.010	0.500	0	89.6	75	125	0.448	0.089	20	
Magnesium	87.0	0.500	50.00	42.20	89.6	75	125	86.07	1.06	20	
Manganese	0.629	0.010	0.500	0.169	91.9	75	125	0.618	1.67	20	
Potassium	137	5.00	50.00	88.42	96.4	75	125	134.0	1.92	20	
Selenium	0.453	0.020	0.500	0.010	88.7	75	125	0.451	0.619	20	
Sodium	278	5.00	50.00	230.5	94.2	75	125	270.5	2.59	20	
Zinc	0.497	0.010	0.500	0.088	81.8	75	125	0.552	10.4	20	

NOTES:

S - Analyte concentration in native sample was too high for accurate spike recovery(ies). The method is in control as indicated by the laboratory control sample (LCS).

Sample ID	15120868-002DMS	SampType:	MS	TestCode:	6010_W	Units:	mg/L	Prep Date:	12/17/2015	RunNo:	49267
Client ID:	ZZZZZZ	Batch ID:	17702	TestNo:	SW6010B			Analysis Date:	12/17/2015	SeqNo:	1202143
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Strontium	1.31	0.100	0.500	0.872	86.8	75	125				

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 15120875
 22-Dec-15

Client: ICON Environmental Services
Project: East White Lake/9077-041-0800

BatchID: 17702

Sample ID	15120868-002DMSD	SampType:	MSD	TestCode:	6010_W	Units:	mg/L	Prep Date:	12/17/2015	RunNo:	49267											
Client ID:	ZZZZZZ	Batch ID:	17702	TestNo:	SW6010B			Analysis Date:	12/17/2015	SeqNo:	1202144											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
Strontium		1.47		0.100		0.500		0.872		119		75		125		1.306		11.6		20		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 15120875
 22-Dec-15

Client: ICON Environmental Services
Project: East White Lake/9077-041-0800

BatchID: 17723

Sample ID	MB-17723	SampType:	MBLK	TestCode:	HG_W_7470	Units:	mg/L	Prep Date:	12/18/2015	RunNo:	49307			
Client ID:	PBW	Batch ID:	17723	TestNo:	SW7470A			Analysis Date:	12/18/2015	SeqNo:	1203638			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury < 0.0002 0.0002

Sample ID	LCS-17723	SampType:	LCS	TestCode:	HG_W_7470	Units:	mg/L	Prep Date:	12/18/2015	RunNo:	49307			
Client ID:	LCSW	Batch ID:	17723	TestNo:	SW7470A			Analysis Date:	12/18/2015	SeqNo:	1203639			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.0097 0.0002 0.0100 0 97.3 80 120

Sample ID	15120875-001EMS	SampType:	MS	TestCode:	HG_W_7470	Units:	mg/L	Prep Date:	12/18/2015	RunNo:	49307			
Client ID:	TBB-2D	Batch ID:	17723	TestNo:	SW7470A			Analysis Date:	12/18/2015	SeqNo:	1203644			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.0101 0.0002 0.0100 0 101 75 125

Sample ID	15120875-001EMSD	SampType:	MSD	TestCode:	HG_W_7470	Units:	mg/L	Prep Date:	12/18/2015	RunNo:	49307			
Client ID:	TBB-2D	Batch ID:	17723	TestNo:	SW7470A			Analysis Date:	12/18/2015	SeqNo:	1203645			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.0102 0.0002 0.0100 0 101 75 125 0.0101 0.596 20

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120875
 22-Dec-15

Client: ICON Environmental Services
Project: East White Lake/9077-041-0800

BatchID: R49231

Sample ID	MBLK	SampType:	MBLK	TestCode:	9056_W	Units:	mg/L	Prep Date:		RunNo:	49231					
Client ID:	PBW	Batch ID:	R49231	TestNo:	SW9056A			Analysis Date:	12/17/2015	SeqNo:	1201956					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide		< 0.100		0.100												
Chloride		< 0.250		0.250												
Sulfate		< 0.250		0.250												

Sample ID	LCS	SampType:	LCS	TestCode:	9056_W	Units:	mg/L	Prep Date:		RunNo:	49231					
Client ID:	LCSW	Batch ID:	R49231	TestNo:	SW9056A			Analysis Date:	12/17/2015	SeqNo:	1201957					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide		3.78		0.100		4.000		0		94.5	80	120				
Chloride		9.67		0.250		10.00		0		96.7	80	120				
Sulfate		9.74		0.250		10.00		0		97.4	80	120				

Sample ID	LCSD	SampType:	LCSD	TestCode:	9056_W	Units:	mg/L	Prep Date:		RunNo:	49231					
Client ID:	LCSS02	Batch ID:	R49231	TestNo:	SW9056A			Analysis Date:	12/17/2015	SeqNo:	1201958					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide		3.78		0.100		4.000		0		94.4	80	120	3.782	0.116	15	
Chloride		9.67		0.250		10.00		0		96.7	80	120	9.667	0.0401	15	
Sulfate		9.60		0.250		10.00		0		96.0	80	120	9.744	1.52	15	

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120875
 22-Dec-15

Client: ICON Environmental Services
Project: East White Lake/9077-041-0800

BatchID: R49231

Sample ID	15120875-001DMS	SampType:	MS	TestCode:	9056_W	Units:	mg/L	Prep Date:		RunNo:	49231		
Client ID:	TBB-2D	Batch ID:	R49231	TestNo:	SW9056A			Analysis Date:	12/17/2015	SeqNo:	1201960		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide		192		10.0	200.0	0.8052	95.4	80	120				
Chloride		1,420		25.0	500.0	941.9	94.8	80	120				
Sulfate		553		25.0	500.0	47.86	101	80	120				

Sample ID	15120875-001DMSD	SampType:	MSD	TestCode:	9056_W	Units:	mg/L	Prep Date:		RunNo:	49231		
Client ID:	TBB-2D	Batch ID:	R49231	TestNo:	SW9056A			Analysis Date:	12/17/2015	SeqNo:	1201961		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide		194		10.0	200.0	0.8052	96.7	80	120	191.6	1.36	15	
Chloride		1,430		25.0	500.0	941.9	96.8	80	120	1,416	0.710	15	
Sulfate		557		25.0	500.0	47.86	102	80	120	553.4	0.579	15	

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120875
 22-Dec-15

Client: ICON Environmental Services
Project: East White Lake/9077-041-0800

BatchID: R49245

Sample ID	MB-R49245	SampType:	MBLK	TestCode:	ALK	Units:	mgCaCO3/L	Prep Date:		RunNo:	49245
Client ID:	PBW	Batch ID:	R49245	TestNo:	SM2320 B			Analysis Date:	12/17/2015	SeqNo:	1201286
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Alkalinity, Bicarbonate (As CaCO3)	< 10.0	10.0									
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0									
Alkalinity, Total (As CaCO3)	< 10.0	10.0									

Sample ID	LCS-R49245	SampType:	LCS	TestCode:	ALK	Units:	mgCaCO3/L	Prep Date:		RunNo:	49245
Client ID:	LCSW	Batch ID:	R49245	TestNo:	SM2320 B			Analysis Date:	12/17/2015	SeqNo:	1201287
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Alkalinity, Total (As CaCO3)	47.5	10.0	50.00	0	95.0	80	120				
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Sample ID	15120720-001DDUP	SampType:	DUP	TestCode:	ALK	Units:	mgCaCO3/L	Prep Date:		RunNo:	49245
Client ID:	ZZZZZ	Batch ID:	R49245	TestNo:	SM2320 B			Analysis Date:	12/17/2015	SeqNo:	1201289
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Alkalinity, Bicarbonate (As CaCO3)	400	10.0								410.0	2.47	20
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0								0	0	20
Alkalinity, Total (As CaCO3)	400	10.0								410.0	2.47	20

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 15120875
 22-Dec-15

Client: ICON Environmental Services
Project: East White Lake/9077-041-0800

BatchID: R49261

Sample ID	BTEX LCS_W	SampType: LCS	TestCode: 8021_BTEX_	Units: mg/L	Prep Date:	RunNo: 49261					
Client ID:	LCSW	Batch ID: R49261	TestNo: SW8021B	Analysis Date: 12/17/2015	SeqNo: 1201658						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0519	0.00500	0.05000	0	104	72	120				
Ethylbenzene	0.0454	0.00500	0.05000	0	90.8	76	129				
Toluene	0.0480	0.0100	0.05000	0	96.0	78	120				
Xylenes, Total	0.137	0.0500	0.1500	0	91.1	75	125				
Surr: alpha, alpha, alpha-Trifluorotoluene	0.0515		0.05000		103	70	130				

Sample ID	BTEX LCSD_W	SampType: LCSD	TestCode: 8021_BTEX_	Units: mg/L	Prep Date:	RunNo: 49261					
Client ID:	LCSS02	Batch ID: R49261	TestNo: SW8021B	Analysis Date: 12/17/2015	SeqNo: 1201659						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0523	0.00500	0.05000	0	105	72	120	0.05190	0.768	20	
Ethylbenzene	0.0463	0.00500	0.05000	0	92.6	76	129	0.04540	1.96	20	
Toluene	0.0485	0.0100	0.05000	0	97.0	78	120	0.04800	1.04	20	
Xylenes, Total	0.140	0.0500	0.1500	0	93.7	75	125	0.1366	2.81	20	
Surr: alpha, alpha, alpha-Trifluorotoluene	0.0496		0.05000		99.2	70	130		0	20	

Sample ID	MB ACID	SampType: MBLK	TestCode: 8021_BTEX_	Units: mg/L	Prep Date:	RunNo: 49261					
Client ID:	PBW	Batch ID: R49261	TestNo: SW8021B	Analysis Date: 12/17/2015	SeqNo: 1201660						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	< 0.00500	0.00500									
Ethylbenzene	< 0.00500	0.00500									

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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 TEL: (337) 235-0483 FAX: (337) 233-6540
 Website: www.element.com

QC SUMMARY REPORT

WO#: 15120875
 22-Dec-15

Client: ICON Environmental Services
Project: East White Lake/9077-041-0800

BatchID: R49261

Sample ID	MB ACID	SampType:	MBLK	TestCode:	8021_BTEX_	Units:	mg/L	Prep Date:		RunNo:	49261		
Client ID:	PBW	Batch ID:	R49261	TestNo:	SW8021B			Analysis Date:	12/17/2015	SeqNo:	1201660		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene		< 0.0100		0.0100									
Xylenes, Total		< 0.0500		0.0500									
Surr: alpha, alpha, alpha-Trifluorotoluene		0.0494			0.05000		98.8	70	130				

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120875
 22-Dec-15

Client: ICON Environmental Services
Project: East White Lake/9077-041-0800

BatchID: R49262

Sample ID	GAS LCS_W	SampType:	LCS	TestCode:	8015_G_W	Units:	mg/L	Prep Date:		RunNo:	49262			
Client ID:	LCSW	Batch ID:	R49262	TestNo:	SW8015B			Analysis Date:	12/17/2015	SeqNo:	1201687			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline Range) 13.0 0.150 12.50 0 104 80 130

Sample ID	GAS LCSD_W	SampType:	LCSD	TestCode:	8015_G_W	Units:	mg/L	Prep Date:		RunNo:	49262			
Client ID:	LCSS02	Batch ID:	R49262	TestNo:	SW8015B			Analysis Date:	12/17/2015	SeqNo:	1201689			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline Range) 13.4 0.150 12.50 0 107 80 130 12.97 3.08 20

Sample ID	MB ACID	SampType:	MBLK	TestCode:	8015_G_W	Units:	mg/L	Prep Date:		RunNo:	49262			
Client ID:	PBW	Batch ID:	R49262	TestNo:	SW8015B			Analysis Date:	12/17/2015	SeqNo:	1201691			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline Range) < 0.150 0.150
 Surr: alpha, alpha, alpha-Trifluorotoluene 0.0492 0.05000 98.4 70 130

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
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QC SUMMARY REPORT

WO#: 15120875
 22-Dec-15

Client: ICON Environmental Services
Project: East White Lake/9077-041-0800

BatchID: R49269

Sample ID	15120992-003CDUP	SampType:	DUP	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	49269											
Client ID:	ZZZZZZ	Batch ID:	R49269	TestNo:	SM2540C			Analysis Date:	12/18/2015	SeqNo:	1204594											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual

Total Dissolved Solids (Residue, Filterable) 2,100 100 2,080 0.719 10

Sample ID	MB-R49269	SampType:	MBLK	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	49269											
Client ID:	PBW	Batch ID:	R49269	TestNo:	SM2540C			Analysis Date:	12/18/2015	SeqNo:	1204595											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual

Total Dissolved Solids (Residue, Filterable) < 20.0 20.0

Sample ID	LCS-R49269	SampType:	LCS	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	49269											
Client ID:	LCSW	Batch ID:	R49269	TestNo:	SM2540C			Analysis Date:	12/18/2015	SeqNo:	1204596											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual

Total Dissolved Solids (Residue, Filterable) 983 20.0 1,000 0 98.3 85 115

Sample ID	LCSD-R49269	SampType:	LCSD	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	49269											
Client ID:	LCSS02	Batch ID:	R49269	TestNo:	SM2540C			Analysis Date:	12/18/2015	SeqNo:	1204597											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual

Total Dissolved Solids (Residue, Filterable) 994 20.0 1,000 0 99.4 85 115 983.0 1.11 10

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120875
 22-Dec-15

Client: ICON Environmental Services
Project: East White Lake/9077-041-0800

BatchID: R49269

Sample ID	LCSD-R49269	SampType:	LCSD	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	49269			
Client ID:	LCSS02	Batch ID:	R49269	TestNo:	SM2540C			Analysis Date:	12/18/2015	SeqNo:	1204597			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID	15120875-001CDUP	SampType:	DUP	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	49269			
Client ID:	TBB-2D	Batch ID:	R49269	TestNo:	SM2540C			Analysis Date:	12/18/2015	SeqNo:	1204599			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterable)		2,050		100							2,030	0.980	10	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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Sample Log-In Check List

Client Name: **ICON_ENV**

Work Order Number: **15120875**

RcptNo: **1**

Logged by:	Danielle Hollier	12/16/2015 3:20:00 PM	<i>Danielle Hollier</i>
Completed By:	Danielle Hollier	12/16/2015 4:50:02 PM	<i>Danielle Hollier</i>
Reviewed By:	Caitlin Duplantis	12/18/2015 4:12:10 PM	<i>Caitlin Duplantis</i>

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 Custody seals intact on shipping container/cooler? Yes No Not Present
 No. Seal Date: Signed By:
 5. Was an attempt made to cool the samples? Yes No NA
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 7. Sample(s) in proper container(s)? Yes No
 8. Sufficient sample volume for indicated test(s)? Yes No
 9. Are samples (except VOA and ONG) properly preserved? Yes No
 10. Was preservative added to bottles? Yes No NA
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
 12. Were any sample containers received broken? Yes No
 13. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 14. Are matrices correctly identified on Chain of Custody? Yes No
 15. Is it clear what analyses were requested? Yes No
 16. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:
 Improper error correction(s) made by client

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.4	Good	Not Present			

Caitlin Duplantis

From: Jason Sills <jsills@iconenv.com>
Sent: Friday, December 18, 2015 4:03 PM
To: Caitlin Duplantis
Cc: gregm@iconenv.com
Subject: RE: Bromide Needed?: 15120875, East White Lake/9077-041-0800

Yes. Please add Bromide to COC.

Thanks,
Jason

-----Original Message-----

From: CustomerService.Lafayette@Element.com
[<mailto:CustomerService.Lafayette@Element.com>]
Sent: Friday, December 18, 2015 3:23 PM
To: gregm@iconenv.com; jsills@iconenv.com
Cc: Caitlin.Duplantis@element.com
Subject: Bromide Needed?: 15120875, East White Lake/9077-041-0800

Good Afternoon,

We have done Bromide testing for this site in the past. Do you want for me to add it to the testing suite?

Please feel free to contact me by email at Caitlin.Duplantis@element.com with any questions.

Sincerely,

Caitlin Duplantis
Project Manager
Caitlin.Duplantis@element.com
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December 17, 2015

Greg Miller
ICON Environmental Services
2049 Commercial Drive
Port Allen, LA 70767
TEL: (225) 344-8490
FAX: (225) 344-6654

RE: East White Lake 9077-041-0800

Order No.: 15120720

Dear Greg Miller:

Element Materials Technology Lafayette received 1 sample(s) on 12/15/2015 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

All soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as –dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261-14-6. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

A handwritten signature in blue ink, appearing to read 'Cristina Thibeaux'.

Cristina Thibeaux
Customer Service Supervisor
2417 W. Pinhook Road
Lafayette, LA 70508-3344



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Case Narrative

WO#: 15120720
Date: 12/17/2015

CLIENT: ICON Environmental Services
Project: East White Lake 9077-041-0800

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

In the Mercury analytical batch 49180, the MS/MSD (sample ID: 15120720-001) recovery failed low. A post digestion/post digestion duplicate was performed and recovery failed low as well, suggesting matrix interference. The LCS/LCSD recovery met the acceptance criteria.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).



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Analytical Report

(consolidated)

WO#: 15120720

Date Reported: 12/17/2015

CLIENT: ICON Environmental Services
Project: East White Lake 9077-041-0800
Lab ID: 15120720-001
Client Sample ID TBB-2M

Collection Date: 12/14/2015 12:30:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	< 0.131	0.131		mg/L	1	12/15/2015 7:00:00 PM
TPH (Oil Range)	< 0.121	0.121		mg/L	1	12/15/2015 7:00:00 PM
Surr: 4-Terphenyl-d14	42.1	36.8 - 128		%REC	1	12/15/2015 7:00:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	12/15/2015 1:05:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	98.8	70 - 130		%REC	1	12/15/2015 1:05:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	12/15/2015 1:05:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	12/15/2015 1:05:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	12/15/2015 1:05:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	12/15/2015 1:05:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	98.0	70 - 130		%REC	1	12/15/2015 1:05:00 PM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: TJH
Mercury	< 0.0002	0.0002		mg/L	1	12/15/2015 2:06:24 PM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	4.04	2.00		mg/L	20	12/15/2015 11:44:22 AM
Chloride	4,520	50.0		mg/L	200	12/15/2015 11:30:37 AM
Sulfate	< 5.00	5.00		mg/L	20	12/15/2015 11:44:22 AM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	< 0.010	0.010		mg/L	1	12/17/2015 12:13:07 PM
Barium	5.12	0.100		mg/L	10	12/17/2015 12:34:26 PM
Cadmium	< 0.005	0.005		mg/L	1	12/17/2015 12:13:07 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120720

Date Reported: 12/17/2015

CLIENT: ICON Environmental Services
Project: East White Lake 9077-041-0800
Lab ID: 15120720-001
Client Sample ID TBB-2M

Collection Date: 12/14/2015 12:30:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS		SW6010B			Analyst: STS	
Calcium	463	5.00		mg/L	10	12/17/2015 12:34:26 PM
Chromium	< 0.010	0.010		mg/L	1	12/17/2015 12:13:07 PM
Iron	13.4	0.100		mg/L	10	12/17/2015 12:34:26 PM
Lead	< 0.010	0.010		mg/L	1	12/17/2015 12:13:07 PM
Magnesium	248	5.00		mg/L	10	12/17/2015 12:34:26 PM
Manganese	3.08	0.100		mg/L	10	12/17/2015 12:34:26 PM
Potassium	11.2	5.00		mg/L	1	12/17/2015 12:13:07 PM
Selenium	0.030	0.020		mg/L	1	12/17/2015 12:13:07 PM
Sodium	1,780	50.0		mg/L	10	12/17/2015 12:34:26 PM
Strontium	4.77	0.100		mg/L	10	12/17/2015 12:34:26 PM
Zinc	0.346	0.010		mg/L	1	12/17/2015 12:13:07 PM
ALKALINITY; TOTAL, CARB, BICARB		SM2320 B			Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO3)	410	10.0		mgCaCO3/L	1	12/17/2015 11:49:59 AM
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0		mgCaCO3/L	1	12/17/2015 11:49:59 AM
Alkalinity, Total (As CaCO3)	410	10.0		mgCaCO3/L	1	12/17/2015 11:49:59 AM
TOTAL DISSOLVED SOLIDS		SM2540C			Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	9,350	500		mg/L	25	12/16/2015 7:31:00 AM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 15120720
 17-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17678

Sample ID: MB-17678	SampType: MBLK	TestCode: HG_W_7470A	Units: mg/L	Prep Date: 12/15/2015	RunNo: 49180						
Client ID: PBW	Batch ID: 17678	TestNo: SW7470A		Analysis Date: 12/15/2015	SeqNo: 1200201						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury < 0.0002 0.0002

Sample ID: LCS-17678	SampType: LCS	TestCode: HG_W_7470A	Units: mg/L	Prep Date: 12/15/2015	RunNo: 49180						
Client ID: LCSW	Batch ID: 17678	TestNo: SW7470A		Analysis Date: 12/15/2015	SeqNo: 1200205						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.0101 0.0002 0.0100 0 101 80 120

Sample ID: LCSD-17678	SampType: LCSD	TestCode: HG_W_7470A	Units: mg/L	Prep Date: 12/15/2015	RunNo: 49180						
Client ID: LCSS02	Batch ID: 17678	TestNo: SW7470A		Analysis Date: 12/15/2015	SeqNo: 1200206						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.0103 0.0002 0.0100 0 103 80 120 0.0101 2.15 20

Sample ID: 15120720-001CMS	SampType: MS	TestCode: HG_W_7470A	Units: mg/L	Prep Date: 12/15/2015	RunNo: 49180						
Client ID: TBB-2M	Batch ID: 17678	TestNo: SW7470A		Analysis Date: 12/15/2015	SeqNo: 1200208						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.0065 0.0002 0.0100 0 64.9 75 125 S

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120720
 17-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17678

Sample ID: 15120720-001CMSD	SampType: MSD	TestCode: HG_W_7470A	Units: mg/L	Prep Date: 12/15/2015	RunNo: 49180						
Client ID: TBB-2M	Batch ID: 17678	TestNo: SW7470A		Analysis Date: 12/15/2015	SeqNo: 1200209						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.0066	0.0002	0.0100	0	65.6	75	125	0.0065	0.998	20	S

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120720

17-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17679

Sample ID: LCS-D-17679	SampType: LCS	TestCode: 8015_DO_W	Units: mg/L	Prep Date: 12/15/2015	RunNo: 49188						
Client ID: LCSW	Batch ID: 17679	TestNo: SW8015B	SW3510C	Analysis Date: 12/15/2015	SeqNo: 1200392						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range) 2.63 0.130 3.000 0 87.6 62.3 110
 Surr: 4-Terphenyl-d14 0.0517 0.1000 51.7 36.8 128

Sample ID: LCSD-D-17679	SampType: LCSD	TestCode: 8015_DO_W	Units: mg/L	Prep Date: 12/15/2015	RunNo: 49188						
Client ID: LCSS02	Batch ID: 17679	TestNo: SW8015B	SW3510C	Analysis Date: 12/15/2015	SeqNo: 1200393						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range) 2.71 0.130 3.000 0 90.5 62.3 110 2.629 3.20 14.1
 Surr: 4-Terphenyl-d14 0.0511 0.1000 51.1 36.8 128 0 40

Sample ID: LCSD-M-17679	SampType: LCSD	TestCode: 8015_DO_W	Units: mg/L	Prep Date: 12/15/2015	RunNo: 49188						
Client ID: LCSS02	Batch ID: 17679	TestNo: SW8015B	SW3510C	Analysis Date: 12/15/2015	SeqNo: 1200394						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Oil Range) 2.31 0.120 3.000 0 77.0 63.8 124 2.344 1.47 23.2
 Surr: 4-Terphenyl-d14 0.0463 0.1000 46.3 36.8 128 0 40

Sample ID: LCS-M-17679	SampType: LCS	TestCode: 8015_DO_W	Units: mg/L	Prep Date: 12/15/2015	RunNo: 49188						
Client ID: LCSW	Batch ID: 17679	TestNo: SW8015B	SW3510C	Analysis Date: 12/15/2015	SeqNo: 1200395						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Oil Range) 2.34 0.120 3.000 0 78.1 63.8 124

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120720
 17-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17679

Sample ID: LCS-M-17679	SampType: LCS	TestCode: 8015_DO_W	Units: mg/L	Prep Date: 12/15/2015	RunNo: 49188						
Client ID: LCSW	Batch ID: 17679	TestNo: SW8015B	SW3510C	Analysis Date: 12/15/2015	SeqNo: 1200395						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 4-Terphenyl-d14 0.0420 0.1000 42.0 36.8 128

Sample ID: MB-17679	SampType: MBLK	TestCode: 8015_DO_W	Units: mg/L	Prep Date: 12/15/2015	RunNo: 49188						
Client ID: PBW	Batch ID: 17679	TestNo: SW8015B	SW3510C	Analysis Date: 12/15/2015	SeqNo: 1200396						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range) < 0.130 0.130
 TPH (Oil Range) < 0.120 0.120
 Surr: 4-Terphenyl-d14 0.0393 0.1000 39.3 36.8 128

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120720
 17-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17689

Sample ID: MB-17689	SampType: MBLK	TestCode: 6010_W	Units: mg/L	Prep Date: 12/16/2015	RunNo: 49254						
Client ID: PBW	Batch ID: 17689	TestNo: SW6010B		Analysis Date: 12/17/2015	SeqNo: 1201437						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	< 0.010	0.010									
Barium	< 0.010	0.010									
Cadmium	< 0.005	0.005									
Calcium	< 0.500	0.500									
Chromium	< 0.010	0.010									
Iron	< 0.010	0.010									
Lead	< 0.010	0.010									
Magnesium	< 0.500	0.500									
Manganese	< 0.010	0.010									
Potassium	< 5.00	5.00									
Selenium	< 0.020	0.020									
Sodium	< 5.00	5.00									
Strontium	< 0.010	0.010									
Zinc	< 0.010	0.010									

Sample ID: LCS-17689	SampType: LCS	TestCode: 6010_W	Units: mg/L	Prep Date: 12/16/2015	RunNo: 49254						
Client ID: LCSW	Batch ID: 17689	TestNo: SW6010B		Analysis Date: 12/17/2015	SeqNo: 1201438						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.454	0.010	0.500	0	90.8	80	120				
Barium	0.456	0.010	0.500	0	91.2	80	120				
Cadmium	0.454	0.005	0.500	0	90.8	80	120				
Calcium	45.7	0.500	50.00	0	91.4	80	120				
Chromium	0.454	0.010	0.500	0	90.8	80	120				
Iron	0.455	0.010	0.500	0	91.1	80	120				

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120720

17-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17689

Sample ID: LCSS-17689	SampType: LCS	TestCode: 6010_W	Units: mg/L	Prep Date: 12/16/2015	RunNo: 49254						
Client ID: LCSSW	Batch ID: 17689	TestNo: SW6010B		Analysis Date: 12/17/2015	SeqNo: 1201438						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	0.458	0.010	0.500	0	91.5	80	120				
Magnesium	45.4	0.500	50.00	0	90.8	80	120				
Manganese	0.458	0.010	0.500	0	91.6	80	120				
Potassium	45.2	5.00	50.00	0	90.4	80	120				
Selenium	0.460	0.020	0.500	0	92.1	80	120				
Sodium	44.8	5.00	50.00	0	89.5	80	120				
Strontium	0.462	0.010	0.500	0	92.4	80	120				
Zinc	0.454	0.010	0.500	0	90.8	80	120				

Sample ID: LCSD-17689	SampType: LCSD	TestCode: 6010_W	Units: mg/L	Prep Date: 12/16/2015	RunNo: 49254						
Client ID: LCSS02	Batch ID: 17689	TestNo: SW6010B		Analysis Date: 12/17/2015	SeqNo: 1201439						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.470	0.010	0.500	0	94.0	80	120	0.454	3.48	20	
Barium	0.467	0.010	0.500	0	93.5	80	120	0.456	2.40	20	
Cadmium	0.465	0.005	0.500	0	93.0	80	120	0.454	2.44	20	
Calcium	46.5	0.500	50.00	0	92.9	80	120	45.70	1.65	20	
Chromium	0.466	0.010	0.500	0	93.2	80	120	0.454	2.54	20	
Iron	0.466	0.010	0.500	0	93.2	80	120	0.455	2.28	20	
Lead	0.477	0.010	0.500	0	95.4	80	120	0.458	4.19	20	
Magnesium	46.4	0.500	50.00	0	92.7	80	120	45.41	2.09	20	
Manganese	0.471	0.010	0.500	0	94.2	80	120	0.458	2.80	20	
Potassium	46.1	5.00	50.00	0	92.2	80	120	45.21	1.93	20	
Selenium	0.464	0.020	0.500	0	92.8	80	120	0.460	0.779	20	
Sodium	46.6	5.00	50.00	0	93.1	80	120	44.76	3.96	20	

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120720

17-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17689

Sample ID: LCSD-17689	SampType: LCSD	TestCode: 6010_W	Units: mg/L	Prep Date: 12/16/2015	RunNo: 49254						
Client ID: LCSS02	Batch ID: 17689	TestNo: SW6010B		Analysis Date: 12/17/2015	SeqNo: 1201439						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Strontium	0.474	0.010	0.500	0	94.7	80	120	0.462	2.46	20	
Zinc	0.465	0.010	0.500	0	93.0	80	120	0.454	2.39	20	

Sample ID: 15120720-001CMS	SampType: MS	TestCode: 6010_W	Units: mg/L	Prep Date: 12/16/2015	RunNo: 49254						
Client ID: TBB-2M	Batch ID: 17689	TestNo: SW6010B		Analysis Date: 12/17/2015	SeqNo: 1201441						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.482	0.010	0.500	0	96.4	75	125				
Cadmium	0.468	0.005	0.500	0.002	93.1	75	125				
Chromium	0.466	0.010	0.500	0.008	91.4	75	125				
Lead	0.442	0.010	0.500	0	88.4	75	125				
Manganese	3.45	0.010	0.500	2.980	94.6	75	125				
Potassium	66.1	5.00	50.00	11.22	110	75	125				
Selenium	0.481	0.020	0.500	0.030	90.2	75	125				
Zinc	0.594	0.010	0.500	0.346	49.7	75	125				S

Sample ID: 15120720-001CMSD	SampType: MSD	TestCode: 6010_W	Units: mg/L	Prep Date: 12/16/2015	RunNo: 49254						
Client ID: TBB-2M	Batch ID: 17689	TestNo: SW6010B		Analysis Date: 12/17/2015	SeqNo: 1201444						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.496	0.010	0.500	0	99.1	75	125	0.482	2.84	20	
Cadmium	0.467	0.005	0.500	0.002	93.1	75	125	0.468	0.064	20	
Chromium	0.465	0.010	0.500	0.008	91.3	75	125	0.466	0.150	20	

Qualifiers:
 H Holding times for preparation or analysis exceeded
 RL Reporting Limit
 W Sample container temperature is out of limit as specified at testcode

M Matrix Interference
 S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit
 U Analyte not detected



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QC SUMMARY REPORT

WO#: 15120720
 17-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17689

Sample ID: 15120720-001CMSD	SampType: MSD	TestCode: 6010_W	Units: mg/L	Prep Date: 12/16/2015	RunNo: 49254						
Client ID: TBB-2M	Batch ID: 17689	TestNo: SW6010B		Analysis Date: 12/17/2015	SeqNo: 1201444						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.441	0.010	0.500	0	88.3	75	125	0.442	0.181	20	
Manganese	3.48	0.010	0.500	2.980	99.8	75	125	3.453	0.750	20	
Potassium	65.3	5.00	50.00	11.22	108	75	125	66.08	1.13	20	
Selenium	0.491	0.020	0.500	0.030	92.1	75	125	0.481	1.91	20	
Zinc	0.583	0.010	0.500	0.346	47.4	75	125	0.594	1.94	20	S

NOTES:
 S - Spike recovery indicates matrix interference. The method is in control as indicated by the Lab Control Sample.

Sample ID: 15120720-001CMS	SampType: MS	TestCode: 6010_W	Units: mg/L	Prep Date: 12/16/2015	RunNo: 49254						
Client ID: TBB-2M	Batch ID: 17689	TestNo: SW6010B		Analysis Date: 12/17/2015	SeqNo: 1201446						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	5.50	0.100	0.500	5.124	74.2	75	125				S
Calcium	498	5.00	50.00	463.2	69.6	75	125				S
Iron	13.9	0.100	0.500	13.36	114	75	125				
Magnesium	288	5.00	50.00	248.4	78.2	75	125				
Manganese	3.50	0.100	0.500	3.080	84.2	75	125				
Sodium	1,780	50.0	50.00	1,783	4.00	75	125				S
Strontium	5.17	0.100	0.500	4.773	78.4	75	125				

Sample ID: 15120720-001CMSD	SampType: MSD	TestCode: 6010_W	Units: mg/L	Prep Date: 12/16/2015	RunNo: 49254						
Client ID: TBB-2M	Batch ID: 17689	TestNo: SW6010B		Analysis Date: 12/17/2015	SeqNo: 1201447						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120720

17-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17689

Sample ID: 15120720-001CMSD	SampType: MSD	TestCode: 6010_W	Units: mg/L	Prep Date: 12/16/2015	RunNo: 49254						
Client ID: TBB-2M	Batch ID: 17689	TestNo: SW6010B	Analysis Date: 12/17/2015	SeqNo: 1201447							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	5.46	0.100	0.500	5.124	68.2	75	125	5.495	0.547	20	S
Calcium	495	5.00	50.00	463.2	63.2	75	125	498.0	0.645	20	S
Iron	13.8	0.100	0.500	13.36	94.0	75	125	13.93	0.720	20	
Magnesium	286	5.00	50.00	248.4	75.2	75	125	287.5	0.523	20	
Manganese	3.51	0.100	0.500	3.080	86.4	75	125	3.501	0.314	20	
Sodium	1,750	50.0	50.00	1,783	-66.0	75	125	1,785	1.98	20	S
Strontium	5.16	0.100	0.500	4.773	77.6	75	125	5.165	0.077	20	

NOTES:

S - Spike recovery outside of recovery limits due to dilution. The method is in control as indicated by the laboratory control sample(s).

Qualifiers: H Holding times for preparation or analysis exceeded
 RL Reporting Limit
 W Sample container temperature is out of limit as specified at testcode

M Matrix Interference
 S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit
 U Analyte not detected



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QC SUMMARY REPORT

WO#: 15120720
 17-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R49159

Sample ID: MBLK	SampType: MBLK	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 49159						
Client ID: PBW	Batch ID: R49159	TestNo: SW9056A		Analysis Date: 12/15/2015	SeqNo: 1200216						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	< 0.100	0.100									
Chloride	< 0.250	0.250									
Sulfate	< 0.250	0.250									

Sample ID: LCS	SampType: LCS	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 49159						
Client ID: LCSW	Batch ID: R49159	TestNo: SW9056A		Analysis Date: 12/15/2015	SeqNo: 1200217						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	3.88	0.100	4.000	0	97.0	80	120				
Chloride	9.83	0.250	10.00	0	98.3	80	120				
Sulfate	10.0	0.250	10.00	0	100	80	120				

Sample ID: LCSD	SampType: LCSD	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 49159						
Client ID: LCSS02	Batch ID: R49159	TestNo: SW9056A		Analysis Date: 12/15/2015	SeqNo: 1200218						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	3.84	0.100	4.000	0	96.1	80	120	3.878	0.898	15	
Chloride	9.73	0.250	10.00	0	97.3	80	120	9.831	1.07	15	
Sulfate	9.80	0.250	10.00	0	98.0	80	120	10.01	2.10	15	

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120720
 17-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R49159

Sample ID: 15120500-012CMS	SampType: MS	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 49159						
Client ID: ZZZZZ	Batch ID: R49159	TestNo: SW9056A		Analysis Date: 12/15/2015	SeqNo: 1200223						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide	199	10.0	200.0	3.855	97.7	80	120				
Chloride	2,020	25.0	500.0	1,560	91.6	80	120				
Sulfate	520	25.0	500.0	11.88	102	80	120				

Sample ID: 15120500-012CMSD	SampType: MSD	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 49159						
Client ID: ZZZZZ	Batch ID: R49159	TestNo: SW9056A		Analysis Date: 12/15/2015	SeqNo: 1200224						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide	200	10.0	200.0	3.855	97.9	80	120	199.3	0.125	15	
Chloride	2,020	25.0	500.0	1,560	91.7	80	120	2,018	0.0213	15	
Sulfate	522	25.0	500.0	11.88	102	80	120	520.2	0.260	15	

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120720
 17-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R49172

Sample ID: BTEX LCS_W	SampType: LCS	TestCode: 8021_BTEX_	Units: mg/L	Prep Date:	RunNo: 49172						
Client ID: LCSW	Batch ID: R49172	TestNo: SW8021B	Analysis Date: 12/15/2015	SeqNo: 1200066							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0522	0.00500	0.05000	0	104	72	120				
Ethylbenzene	0.0459	0.00500	0.05000	0	91.8	76	129				
Toluene	0.0481	0.0100	0.05000	0	96.2	78	120				
Xylenes, Total	0.138	0.0500	0.1500	0	91.7	75	125				
Surr: alpha, alpha, alpha-Trifluorotoluene	0.0501		0.05000		100	70	130				

Sample ID: BTEX LCSD_W	SampType: LCSD	TestCode: 8021_BTEX_	Units: mg/L	Prep Date:	RunNo: 49172						
Client ID: LCSS02	Batch ID: R49172	TestNo: SW8021B	Analysis Date: 12/15/2015	SeqNo: 1200067							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0520	0.00500	0.05000	0	104	72	120	0.05220	0.384	20	
Ethylbenzene	0.0450	0.00500	0.05000	0	90.0	76	129	0.04590	1.98	20	
Toluene	0.0478	0.0100	0.05000	0	95.6	78	120	0.04810	0.626	20	
Xylenes, Total	0.137	0.0500	0.1500	0	91.2	75	125	0.1376	0.583	20	
Surr: alpha, alpha, alpha-Trifluorotoluene	0.0506		0.05000		101	70	130		0	20	

Sample ID: MB ACID	SampType: MBLK	TestCode: 8021_BTEX_	Units: mg/L	Prep Date:	RunNo: 49172						
Client ID: PBW	Batch ID: R49172	TestNo: SW8021B	Analysis Date: 12/15/2015	SeqNo: 1200068							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	< 0.00500	0.00500									
Ethylbenzene	< 0.00500	0.00500									

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



Element Materials Technology Lafayette
 2417 W. Pinhook Road
 Lafayette, LA 70508-3344
 TEL: (337) 235-0483 FAX: (337) 233-6540
 Website: www.element.com

QC SUMMARY REPORT

WO#: 15120720
 17-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R49172

Sample ID: MB ACID	SampType: MBLK	TestCode: 8021_BTEX_	Units: mg/L	Prep Date:	RunNo: 49172						
Client ID: PBW	Batch ID: R49172	TestNo: SW8021B		Analysis Date: 12/15/2015	SeqNo: 1200068						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.0100	0.0100									
Xylenes, Total	< 0.0500	0.0500									
Surr: alpha, alpha, alpha-Trifluorotoluene	0.0497		0.05000		99.4	70	130				

Qualifiers:
 H Holding times for preparation or analysis exceeded
 RL Reporting Limit
 W Sample container temperature is out of limit as specified at testcode

M Matrix Interference
 S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit
 U Analyte not detected



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QC SUMMARY REPORT

WO#: 15120720
 17-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R49173

Sample ID: GAS LCS_W	SampType: LCS	TestCode: 8015_G_W	Units: mg/L	Prep Date:	RunNo: 49173						
Client ID: LCSW	Batch ID: R49173	TestNo: SW8015B		Analysis Date: 12/15/2015	SeqNo: 1200069						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline Range) 12.5 0.150 12.50 0 100 80 130

Sample ID: GAS LCSD_W	SampType: LCSD	TestCode: 8015_G_W	Units: mg/L	Prep Date:	RunNo: 49173						
Client ID: LCSS02	Batch ID: R49173	TestNo: SW8015B		Analysis Date: 12/15/2015	SeqNo: 1200070						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline Range) 12.6 0.150 12.50 0 101 80 130 12.51 1.08 20

Sample ID: MB ACID	SampType: MBLK	TestCode: 8015_G_W	Units: mg/L	Prep Date:	RunNo: 49173						
Client ID: PBW	Batch ID: R49173	TestNo: SW8015B		Analysis Date: 12/15/2015	SeqNo: 1200071						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline Range) < 0.150 0.150
 Surr: alpha, alpha, alpha-Trifluorotoluene 0.0494 0.05000 98.8 70 130

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120720
 17-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R49183

Sample ID: MB-R49183	SampType: MBLK	TestCode: TDS_2540C	Units: mg/L	Prep Date:	RunNo: 49183						
Client ID: PBW	Batch ID: R49183	TestNo: SM2540C		Analysis Date: 12/16/2015	SeqNo: 1201754						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable) < 20.0 20.0

Sample ID: LCS-R49183	SampType: LCS	TestCode: TDS_2540C	Units: mg/L	Prep Date:	RunNo: 49183						
Client ID: LCSW	Batch ID: R49183	TestNo: SM2540C		Analysis Date: 12/16/2015	SeqNo: 1201755						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable) 1,000 20.0 1,000 0 100 85 115

Sample ID: LCSD-R49183	SampType: LCSD	TestCode: TDS_2540C	Units: mg/L	Prep Date:	RunNo: 49183						
Client ID: LCSS02	Batch ID: R49183	TestNo: SM2540C		Analysis Date: 12/16/2015	SeqNo: 1201756						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable) 993 20.0 1,000 0 99.3 85 115 1,001 0.802 10

Sample ID: 15120491-001BDUP	SampType: DUP	TestCode: TDS_2540C	Units: mg/L	Prep Date:	RunNo: 49183						
Client ID: ZZZZZZ	Batch ID: R49183	TestNo: SM2540C		Analysis Date: 12/16/2015	SeqNo: 1201758						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable) 26,100 2,000 26,300 0.763 10 H

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120720
 17-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R49183

Sample ID: 15120491-001BDUP	SampType: DUP	TestCode: TDS_2540C	Units: mg/L	Prep Date:	RunNo: 49183						
Client ID: ZZZZZ	Batch ID: R49183	TestNo: SM2540C		Analysis Date: 12/16/2015	SeqNo: 1201758						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 15120714-001CDUP	SampType: DUP	TestCode: TDS_2540C	Units: mg/L	Prep Date:	RunNo: 49183						
Client ID: ZZZZZ	Batch ID: R49183	TestNo: SM2540C		Analysis Date: 12/16/2015	SeqNo: 1201761						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterable)	1,320	100						1,270	3.86	10	

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15120720
 17-Dec-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R49245

Sample ID: MB-R49245	SampType: MBLK	TestCode: ALK	Units: mgCaCO3/L	Prep Date:	RunNo: 49245						
Client ID: PBW	Batch ID: R49245	TestNo: SM2320 B		Analysis Date: 12/17/2015	SeqNo: 1201286						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Bicarbonate (As CaCO3) < 10.0 10.0
 Alkalinity, Carbonate (As CaCO3) < 10.0 10.0
 Alkalinity, Total (As CaCO3) < 10.0 10.0

Sample ID: LCS-R49245	SampType: LCS	TestCode: ALK	Units: mgCaCO3/L	Prep Date:	RunNo: 49245						
Client ID: LCSW	Batch ID: R49245	TestNo: SM2320 B		Analysis Date: 12/17/2015	SeqNo: 1201287						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Total (As CaCO3) 47.5 10.0 50.00 0 95.0 80 120

Sample ID: 15120720-001DDUP	SampType: DUP	TestCode: ALK	Units: mgCaCO3/L	Prep Date:	RunNo: 49245						
Client ID: TBB-2M	Batch ID: R49245	TestNo: SM2320 B		Analysis Date: 12/17/2015	SeqNo: 1201289						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Bicarbonate (As CaCO3) 400 10.0 410.0 2.47 20
 Alkalinity, Carbonate (As CaCO3) < 10.0 10.0 0 0 20
 Alkalinity, Total (As CaCO3) 400 10.0 410.0 2.47 20

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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Sample Log-In Check List

Client Name: **ICON_ENV** Work Order Number: **15120720** RcptNo: **1**

Logged by:	Tammy Thibodeaux	12/15/2015 7:35:00 AM	<i>Tammy Thibodeaux</i>
Completed By:	Tammy Thibodeaux	12/15/2015 4:23:03 PM	<i>Tammy Thibodeaux</i>
Reviewed By:	Caitlin Duplantis	12/15/2015 4:41:45 PM	<i>Caitlin Duplantis</i>

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 Custody seals intact on shipping container/cooler? Yes No Not Present
 No. Seal Date: Signed By:
 5. Was an attempt made to cool the samples? Yes No NA
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 7. Sample(s) in proper container(s)? Yes No
 8. Sufficient sample volume for indicated test(s)? Yes No
 9. Are samples (except VOA and ONG) properly preserved? Yes No
 10. Was preservative added to bottles? Yes No NA
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
 12. Were any sample containers received broken? Yes No
 13. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 14. Are matrices correctly identified on Chain of Custody? Yes No
 15. Is it clear what analyses were requested? Yes No
 16. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Not Present			



Chain of Custody

Laboratory Number: 1572020

Client Information: I-CON Environmental
 Contact Name: Greg Miller
 Address: 2049 Commercial Dr.
 City, State Zip: Port Allen, LA 70767
 Phone Number: (225) 344-8490
 Fax Number: Ext: 8490

Billing Information: PO Number: SA ME
 Quote Number: Required QC Level: Standard
 Bill Monthly: Yes No

Shipping Method: UPS / FedEx / NOW
 DHL / Element / (Hand) / Mail

Project Name/Number: East White Lake
 9077-041-0800
 Sample's Signature: [Signature]
 Matrix Code: DW = Drinking Water
 WW = Waste Water
 GW = Ground Water
 AQ = Aqueous
 OT = Other
 SL = Sludge
 O = Oil
 F = Food
 NG = Natural Gas
 NGL = Natural Gas Liquid
 PW = Produced Water
 CF = Completion Fluid

Sample ID/Description	Which Regulations Apply: <input type="checkbox"/> RCRA <input type="checkbox"/> POTW <input type="checkbox"/> NPDES <input type="checkbox"/> USDA/FDA <input type="checkbox"/> RECAP/RISC	Turn Time <input type="checkbox"/> Standard <input checked="" type="checkbox"/> RUSH <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> Other	Collection Information		Container Type Quantity	Pres. HCl, HNO ₃ , H ₂ SO ₄ NaOH, Na ₂ O ₃	Requested Tests	Comments
			Date	Time				
TBB-2M			12/14/15	1230	G P.G.V 7		X BTEX/THG X TPH-D/D X TDS/CI- X Cations X Anions X Total Metals X + Bromide	Metals As, Ba, Cd, Cr Pb, Fe, Mn, Se, Sr, Zn, Hg Cations Ca, Mg, K, Na Anions Alk-Carbonate Alk-Bicarbonate SO ₄

Relinquished by: [Signature] Date/Time: 12/15/15 0735

Received by: [Signature] Date/Time: 12/15/15 7:35

Field Notes: Received at lab on ice? Yes No Temp: 1.2

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

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December 17, 2015

Greg Miller
ICON Environmental Services
2049 Commercial Drive
Port Allen, LA 70767
TEL: (225) 344-8490
FAX: (225) 344-6654

RE: EWL(East White Lake)

Order No.: 15120222

Dear Greg Miller:

Element Materials Technology Lafayette received 8 sample(s) on 12/3/2015 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

All soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as –dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261-14-6. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

A handwritten signature in blue ink that reads 'Cristina Thibeaux'.

Cristina Thibeaux
Customer Service Supervisor
2417 W. Pinhook Road
Lafayette, LA 70508-3344



Element Materials Technology Lafayette
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Lafayette, LA 70508-3344
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Website: www.element.com

Case Narrative

WO#: 15120222
Date: 12/17/2015

CLIENT: ICON Environmental Services
Project: EWL(East White Lake)

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).



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Analytical Report

(consolidated)

WO#: 15120222

Date Reported: 12/17/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/1/2015 9:10:00 AM
Project: EWL(East White Lake)
Lab ID: 15120222-001 **Matrix:** SOIL
Client Sample ID TBB-2 Grab

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	64.6	0.100		meq/100g	1	12/10/2015 3:15:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	8.41	0.10	*	mmhos/cm	1	12/10/2015 1:05:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	8.56	0.100		%	1	12/10/2015 3:15:00 PM
HEM, OIL & GREASE						
SW9071B						
HEM, Oil & Grease	0.45	0.05		% dry wt	1	12/10/2015 7:54:00 AM
PH MEASUREMENT						
LDNR 29-B						
pH Measurement	5.80	1.68	C	S.U.	1	12/9/2015 1:50:00 PM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	20.1	0.100	*		1	12/10/2015
Soluble Calcium	5.78	1.00		meq/L	1	12/10/2015
Soluble Magnesium	12.6	1.00		meq/L	1	12/10/2015
Soluble Sodium	60.9	1.00		meq/L	1	12/10/2015
TPH-D/O IN SOIL BY SW8015						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	244	50.0		mg/Kg	5	12/9/2015 1:28:00 PM
TPH (Oil Range)	247	50.0		mg/Kg	5	12/9/2015 1:28:00 PM
Surr: 4-Terphenyl-d14	63.5	33 - 152		%REC	5	12/9/2015 1:28:00 PM
29B METALS						
MERCURY IN SOIL OR SLUDGE						
29B/SW7471A SW7471A						
Analyst: TJH						

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120222

Date Reported: 12/17/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/1/2015 9:10:00 AM
Project: EWL(East White Lake)
Lab ID: 15120222-001 **Matrix:** SOIL
Client Sample ID TBB-2 Grab

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					29B/SW7471A	SW7471A Analyst: TJH
MERCURY IN SOIL OR SLUDGE						
Mercury	< 0.09	0.09		mg/Kg-dry	1	12/8/2015 1:49:52 PM
INORGANIC ANIONS IN LEACHATE BY IC					SW9056A	LDNR 29-B Analyst: SGP
Chloride	428	12.5		mg/L	50	12/16/2015 12:25:19 PM
SOLUBLE INORGANIC ANIONS IN SOIL BY IC					SW9056A	Analyst: SGP
Chloride	1,730	42.4		mg/Kg-dry	200	12/10/2015 9:44:23 AM
29B METALS					SW6010B	SW3050B Analyst: STS
METALS IN SOIL OR SLUDGE BY ICP						
Arsenic	8.40	1.98		mg/Kg-dry	1	12/8/2015 9:07:51 PM
Barium	654	0.992		mg/Kg-dry	1	12/8/2015 9:07:51 PM
Cadmium	< 0.496	0.496		mg/Kg-dry	1	12/8/2015 9:07:51 PM
Chromium	12.9	0.992		mg/Kg-dry	1	12/8/2015 9:07:51 PM
Lead	19.6	0.992		mg/Kg-dry	1	12/8/2015 9:07:51 PM
Selenium	< 1.98	1.98		mg/Kg-dry	1	12/8/2015 9:07:51 PM
Strontium	84.4	0.992		mg/Kg-dry	1	12/8/2015 9:07:51 PM
Zinc	67.6	0.992		mg/Kg-dry	1	12/8/2015 9:07:51 PM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	1,060	45.7		mg/Kg-dry	1	12/9/2015 4:32:19 PM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	65.1	1.00		wt%	1	12/4/2015 3:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120222

Date Reported: 12/17/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/2/2015 11:50:00 AM
Project: EWL(East White Lake)
Lab ID: 15120222-002 **Matrix:** SOIL
Client Sample ID TBB-2M (0-7')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	55.3	0.100		meq/100g	1	12/10/2015 3:15:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	13.7	0.10	*	mmhos/cm	1	12/10/2015 1:05:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	20.9	0.100	*	%	1	12/10/2015 3:15:00 PM
HEM, OIL & GREASE						
SW9071B						
HEM, Oil & Grease	0.22	0.05		% dry wt	1	12/10/2015 7:54:00 AM
PH MEASUREMENT						
LDNR 29-B						
pH Measurement	6.16	1.68		S.U.	1	12/9/2015 1:50:00 PM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	36.2	0.100	*		1	12/10/2015
Soluble Calcium	6.06	1.00		meq/L	1	12/10/2015
Soluble Magnesium	10.2	1.00		meq/L	1	12/10/2015
Soluble Sodium	103	1.00		meq/L	1	12/10/2015
TPH-D/O IN SOIL BY SW8015						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	254	50.0		mg/Kg	5	12/9/2015 1:43:00 PM
TPH (Oil Range)	118	50.0		mg/Kg	5	12/9/2015 1:43:00 PM
Surr: 4-Terphenyl-d14	141	33 - 152		%REC	5	12/9/2015 1:43:00 PM
29B METALS						
MERCURY IN SOIL OR SLUDGE						
29B/SW7471A SW7471A						
Analyst: TJH						

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120222

Date Reported: 12/17/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/2/2015 11:50:00 AM
Project: EWL(East White Lake)
Lab ID: 15120222-002 **Matrix:** SOIL
Client Sample ID TBB-2M (0-7')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS				29B/SW7471A	SW7471A	Analyst: TJH
MERCURY IN SOIL OR SLUDGE						
Mercury	< 0.09	0.09		mg/Kg-dry	1	12/8/2015 1:57:51 PM
INORGANIC ANIONS IN LEACHATE BY IC				SW9056A	LDNR 29-B	Analyst: SGP
Chloride	1,500	25.0		mg/L	100	12/16/2015 1:06:17 PM
SOLUBLE INORGANIC ANIONS IN SOIL BY IC				SW9056A		Analyst: SGP
Chloride	3,300	114		mg/Kg-dry	500	12/10/2015 9:58:08 AM
29B METALS				SW6010B	SW3050B	Analyst: STS
METALS IN SOIL OR SLUDGE BY ICP						
Arsenic	6.62	1.99		mg/Kg-dry	1	12/8/2015 9:12:07 PM
Barium	180	0.996		mg/Kg-dry	1	12/8/2015 9:12:07 PM
Cadmium	< 0.498	0.498		mg/Kg-dry	1	12/8/2015 9:12:07 PM
Chromium	12.8	0.996		mg/Kg-dry	1	12/8/2015 9:12:07 PM
Lead	15.0	0.996		mg/Kg-dry	1	12/8/2015 9:12:07 PM
Selenium	< 1.99	1.99		mg/Kg-dry	1	12/8/2015 9:12:07 PM
Strontium	80.7	0.996		mg/Kg-dry	1	12/8/2015 9:12:07 PM
Zinc	42.6	0.996		mg/Kg-dry	1	12/8/2015 9:12:07 PM
29B METALS				LDNR 29-B		Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	277	47.8		mg/Kg-dry	1	12/9/2015 4:35:01 PM
PERCENT MOISTURE				LDNR 29-B		Analyst: MMT
Percent Moisture	45.8	1.00		wt%	1	12/4/2015 3:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120222

Date Reported: 12/17/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/2/2015 12:00:00 PM
Project: EWL(East White Lake)
Lab ID: 15120222-003 **Matrix:** SOIL
Client Sample ID TBB-2M (7-15')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	78.0	0.100		meq/100g	1	12/10/2015 3:15:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	44.4	0.10	*	mmhos/cm	1	12/10/2015 1:05:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	23.4	0.100	*	%	1	12/10/2015 3:15:00 PM
HEM, OIL & GREASE						
SW9071B						
HEM, Oil & Grease	0.48	0.05		% dry wt	1	12/10/2015 7:54:00 AM
PH MEASUREMENT						
LDNR 29-B						
pH Measurement	6.28	1.68		S.U.	1	12/9/2015 1:50:00 PM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	35.4	0.100	*		1	12/10/2015
Soluble Calcium	39.1	1.00		meq/L	1	12/10/2015
Soluble Magnesium	102	1.00		meq/L	1	12/10/2015
Soluble Sodium	297	1.00		meq/L	1	12/10/2015
TPH-D/O IN SOIL BY SW8015						
SW8015B SW3550C						
Analyst: CRM						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	18.7	10.0		mg/Kg	1	12/9/2015 11:05:00 AM
TPH (Oil Range)	42.7	10.0		mg/Kg	1	12/9/2015 11:05:00 AM
Surr: 4-Terphenyl-d14	85.1	33 - 152		%REC	1	12/9/2015 11:05:00 AM
29B METALS						
MERCURY IN SOIL OR SLUDGE						
29B/SW7471A SW7471A						
Analyst: TJH						

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120222

Date Reported: 12/17/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/2/2015 12:00:00 PM
Project: EWL(East White Lake)
Lab ID: 15120222-003 **Matrix:** SOIL
Client Sample ID TBB-2M (7-15')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS				29B/SW7471A	SW7471A	Analyst: TJH
MERCURY IN SOIL OR SLUDGE						
Mercury	< 0.09	0.09		mg/Kg-dry	1	12/8/2015 2:00:11 PM
INORGANIC ANIONS IN LEACHATE BY IC				SW9056A	LDNR 29-B	Analyst: SGP
Chloride	4,360	50.0		mg/L	200	12/16/2015 1:20:01 PM
SOLUBLE INORGANIC ANIONS IN SOIL BY IC				SW9056A		Analyst: SGP
Chloride	14,900	256		mg/Kg-dry	1000	12/10/2015 10:11:53 AM
29B METALS				SW6010B	SW3050B	Analyst: STS
METALS IN SOIL OR SLUDGE BY ICP						
Arsenic	6.77	1.98		mg/Kg-dry	1	12/8/2015 9:16:00 PM
Barium	154	0.991		mg/Kg-dry	1	12/8/2015 9:16:00 PM
Cadmium	< 0.495	0.495		mg/Kg-dry	1	12/8/2015 9:16:00 PM
Chromium	10.4	0.991		mg/Kg-dry	1	12/8/2015 9:16:00 PM
Lead	10.9	0.991		mg/Kg-dry	1	12/8/2015 9:16:00 PM
Selenium	< 1.98	1.98		mg/Kg-dry	1	12/8/2015 9:16:00 PM
Strontium	82.2	0.991		mg/Kg-dry	1	12/8/2015 9:16:00 PM
Zinc	34.6	0.991		mg/Kg-dry	1	12/8/2015 9:16:00 PM
29B METALS				LDNR 29-B		Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	213	47.4		mg/Kg-dry	1	12/9/2015 4:37:43 PM
PERCENT MOISTURE				LDNR 29-B		Analyst: MMT
Percent Moisture	72.4	1.00		wt%	1	12/4/2015 3:00:00 PM

Qualifiers:

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H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120222

Date Reported: 12/17/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/2/2015 1:00:00 PM
Project: EWL(East White Lake)
Lab ID: 15120222-004 **Matrix:** SOIL
Client Sample ID TBB-2M (15-17')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS					LDNR 29-B	LDNR 29-B Analyst: MMT
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	34.4	0.100		meq/100g	1	12/10/2015 3:15:00 PM
29B SALTS					LDNR 29-B	Analyst: MMT
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	1.90	0.10		mmhos/cm	1	12/10/2015 1:05:00 PM
29B SALTS					LDNR 29-B	LDNR 29-B Analyst: MMT
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	13.1	0.100		%	1	12/10/2015 3:15:00 PM
29B SALTS					LDNR 29-B	LDNR 29-B Analyst: STS
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	13.2	0.100	*		1	12/10/2015
Soluble Calcium	< 1.00	1.00		meq/L	1	12/10/2015
Soluble Magnesium	1.22	1.00		meq/L	1	12/10/2015
Soluble Sodium	13.7	1.00		meq/L	1	12/10/2015
29B METALS					29B/SW7471A	SW7471A Analyst: TJH
MERCURY IN SOIL OR SLUDGE						
Mercury	< 0.10	0.10		mg/Kg-dry	1	12/8/2015 2:25:23 PM
INORGANIC ANIONS IN LEACHATE BY IC					SW9056A	LDNR 29-B Analyst: SGP
Chloride	89.5	2.50		mg/L	10	12/16/2015 1:33:46 PM
SOLUBLE INORGANIC ANIONS IN SOIL BY IC					SW9056A	Analyst: SGP
Chloride	329	12.9		mg/Kg-dry	50	12/10/2015 10:53:08 AM
29B METALS					SW6010B	SW3050B Analyst: STS
METALS IN SOIL OR SLUDGE BY ICP						
Arsenic	5.11	1.98		mg/Kg-dry	1	12/8/2015 9:29:13 PM
Barium	218	0.991		mg/Kg-dry	1	12/8/2015 9:29:13 PM

Qualifiers:

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H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120222

Date Reported: 12/17/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/2/2015 1:00:00 PM
Project: EWL(East White Lake)
Lab ID: 15120222-004 **Matrix:** SOIL
Client Sample ID TBB-2M (15-17')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B
METALS IN SOIL OR SLUDGE BY ICP						Analyst: STS
Cadmium	< 0.496	0.496		mg/Kg-dry	1	12/8/2015 9:29:13 PM
Chromium	12.3	0.991		mg/Kg-dry	1	12/8/2015 9:29:13 PM
Lead	11.1	0.991		mg/Kg-dry	1	12/8/2015 9:29:13 PM
Selenium	< 1.98	1.98		mg/Kg-dry	1	12/8/2015 9:29:13 PM
Strontium	38.0	0.991		mg/Kg-dry	1	12/8/2015 9:29:13 PM
Zinc	22.7	0.991		mg/Kg-dry	1	12/8/2015 9:29:13 PM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	247	46.4		mg/Kg-dry	1	12/9/2015 4:40:22 PM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	27.6	1.00		wt%	1	12/4/2015 3:00:00 PM

Qualifiers:

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ND	Not Detected at the Reporting Limit	RL	Reporting Limit
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Analytical Report

(consolidated)

WO#: 15120222

Date Reported: 12/17/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/2/2015 1:10:00 PM
Project: EWL(East White Lake)
Lab ID: 15120222-005 **Matrix:** SOIL
Client Sample ID TBB-2M (17-19')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS CATION EXCHANGE CAPACITY					LDNR 29-B	LDNR 29-B Analyst: MMT
Cation Exchange Capacity	33.0	0.100		meq/100g	1	12/10/2015 3:15:00 PM
29B SALTS ELECTRICAL CONDUCTIVITY @ SATURATION					LDNR 29-B	Analyst: MMT
Electrical Conductivity	1.44	0.10		mmhos/cm	1	12/10/2015 1:05:00 PM
29B SALTS EXCHANGEABLE SODIUM PERCENTAGE					LDNR 29-B	LDNR 29-B Analyst: MMT
Exchangeable Sodium %	14.8	0.100		%	1	12/10/2015 3:15:00 PM
29B SALTS SODIUM ADSORPTION RATIO					LDNR 29-B	LDNR 29-B Analyst: STS
Sodium Adsorption Ratio	14.5	0.100	*		1	12/10/2015
Soluble Calcium	< 1.00	1.00		meq/L	1	12/10/2015
Soluble Magnesium	< 1.00	1.00		meq/L	1	12/10/2015
Soluble Sodium	10.4	1.00		meq/L	1	12/10/2015
29B METALS MERCURY IN SOIL OR SLUDGE					29B/SW7471A	SW7471A Analyst: TJH
Mercury	< 0.10	0.10		mg/Kg-dry	1	12/8/2015 2:27:43 PM
INORGANIC ANIONS IN LEACHATE BY IC					SW9056A	LDNR 29-B Analyst: SGP
Chloride	64.2	5.00		mg/L	20	12/16/2015 1:47:31 PM
SOLUBLE INORGANIC ANIONS IN SOIL BY IC					SW9056A	Analyst: SGP
Chloride	304	12.8		mg/Kg-dry	50	12/10/2015 11:06:53 AM
29B METALS METALS IN SOIL OR SLUDGE BY ICP					SW6010B	SW3050B Analyst: STS
Arsenic	5.27	1.99		mg/Kg-dry	1	12/8/2015 9:40:46 PM
Barium	219	0.995		mg/Kg-dry	1	12/8/2015 9:40:46 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120222

Date Reported: 12/17/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/2/2015 1:10:00 PM
Project: EWL(East White Lake)
Lab ID: 15120222-005 **Matrix:** SOIL
Client Sample ID TBB-2M (17-19')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B
METALS IN SOIL OR SLUDGE BY ICP						Analyst: STS
Cadmium	< 0.498	0.498		mg/Kg-dry	1	12/8/2015 9:40:46 PM
Chromium	10.6	0.995		mg/Kg-dry	1	12/8/2015 9:40:46 PM
Lead	13.4	0.995		mg/Kg-dry	1	12/8/2015 9:40:46 PM
Selenium	< 1.99	1.99		mg/Kg-dry	1	12/8/2015 9:40:46 PM
Strontium	28.1	0.995		mg/Kg-dry	1	12/8/2015 9:40:46 PM
Zinc	31.2	0.995		mg/Kg-dry	1	12/8/2015 9:40:46 PM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	260	45.7		mg/Kg-dry	1	12/9/2015 4:43:01 PM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	23.9	1.00		wt%	1	12/4/2015 3:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120222

Date Reported: 12/17/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/2/2015 1:40:00 PM
Project: EWL(East White Lake)
Lab ID: 15120222-006 **Matrix:** SOIL
Client Sample ID TBB-2M (19-21')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ELECTRICAL CONDUCTIVITY @ SATURATION				LDNR 29-B		Analyst: MMT
Electrical Conductivity	1.52	0.10		mmhos/cm	1	12/10/2015 1:05:00 PM
INORGANIC ANIONS IN LEACHATE BY IC				SW9056A		LDNR 29-B Analyst: SGP
Chloride	49.2	2.50		mg/L	10	12/16/2015 2:01:16 PM
SOLUBLE INORGANIC ANIONS IN SOIL BY IC				SW9056A		Analyst: SGP
Chloride	311	11.6		mg/Kg-dry	50	12/10/2015 11:20:38 AM
PERCENT MOISTURE				LDNR 29-B		Analyst: MMT
Percent Moisture	20.4	1.00		wt%	1	12/4/2015 3:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120222

Date Reported: 12/17/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/2/2015 2:20:00 PM
Project: EWL(East White Lake)
Lab ID: 15120222-007 **Matrix:** SOIL
Client Sample ID TBB-2M (23-25')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ELECTRICAL CONDUCTIVITY @ SATURATION				LDNR 29-B		Analyst: MMT
Electrical Conductivity	0.99	0.10		mmhos/cm	1	12/10/2015 1:05:00 PM
INORGANIC ANIONS IN LEACHATE BY IC				SW9056A		LDNR 29-B Analyst: SGP
Chloride	39.8	5.00		mg/L	20	12/16/2015 2:15:01 PM
SOLUBLE INORGANIC ANIONS IN SOIL BY IC				SW9056A		Analyst: SGP
Chloride	182	6.01		mg/Kg-dry	20	12/10/2015 11:34:23 AM
PERCENT MOISTURE				LDNR 29-B		Analyst: MMT
Percent Moisture	24.0	1.00		wt%	1	12/4/2015 3:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15120222

Date Reported: 12/17/2015

CLIENT: ICON Environmental Services **Collection Date:** 12/2/2015 2:30:00 PM
Project: EWL(East White Lake)
Lab ID: 15120222-008 **Matrix:** SOIL
Client Sample ID TBB-2M (29-31')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ELECTRICAL CONDUCTIVITY @ SATURATION				LDNR 29-B		Analyst: MMT
Electrical Conductivity	0.87	0.10		mmhos/cm	1	12/10/2015 1:05:00 PM
INORGANIC ANIONS IN LEACHATE BY IC				SW9056A		LDNR 29-B Analyst: SGP
Chloride	30.1	5.00		mg/L	20	12/16/2015 2:28:47 PM
SOLUBLE INORGANIC ANIONS IN SOIL BY IC				SW9056A		Analyst: SGP
Chloride	143	4.40		mg/Kg-dry	20	12/10/2015 11:48:08 AM
PERCENT MOISTURE				LDNR 29-B		Analyst: MMT
Percent Moisture	21.8	1.00		wt%	1	12/4/2015 3:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 15120222

17-Dec-15

Client: ICON Environmental Services
Project: EWL(East White Lake)

BatchID: 17575

Sample ID: 15120222-001BMS-D	SampType: MS	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 12/7/2015	RunNo: 49026						
Client ID: TBB-2 Grab	Batch ID: 17575	TestNo: SW8015B	SW3550C	Analysis Date: 12/9/2015	SeqNo: 1196643						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range)	198	50.0	100.0	244.3	-46.4	23.4	123				SM
Surr: 4-Terphenyl-d14	1.95		3.330		58.7	33	152				

Sample ID: 15120222-001BMDS-	SampType: MSD	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 12/7/2015	RunNo: 49026						
Client ID: TBB-2 Grab	Batch ID: 17575	TestNo: SW8015B	SW3550C	Analysis Date: 12/9/2015	SeqNo: 1196644						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Oil Range)	254	50.0	100.0	246.7	7.08	14.5	174	197.0	25.2	48.8	SM
Surr: 4-Terphenyl-d14	2.06		3.330		61.8	33	152		0	40	

Sample ID: LCS-D-17575	SampType: LCS	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 12/7/2015	RunNo: 49026						
Client ID: LCSS	Batch ID: 17575	TestNo: SW8015B	SW3550C	Analysis Date: 12/9/2015	SeqNo: 1196648						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range)	90.6	10.0	100.0	0	90.6	63.4	109				
Surr: 4-Terphenyl-d14	2.92		3.330		87.7	33	152				

Sample ID: LCSD-D-17575	SampType: LCSD	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 12/7/2015	RunNo: 49026						
Client ID: LCSS02	Batch ID: 17575	TestNo: SW8015B	SW3550C	Analysis Date: 12/9/2015	SeqNo: 1196649						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range)	94.3	10.0	100.0	0	94.3	63.4	109	90.63	3.93	17.2	
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Qualifiers:

* Value exceeds Maximum Contaminant Level.	C Value is below Minimum Compound Limit.	H Holding times for preparation or analysis exceed
M Matrix Interference	ND Not Detected at the Reporting Limit	RL Reporting Limit
S Spike Recovery outside accepted recovery limits	U Analyte not detected	W Sample container temperature is out of limit as sf



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 TEL: (337) 235-0483 FAX: (337) 233-6540
 Website: www.element.com

QC SUMMARY REPORT

WO#: 15120222
 17-Dec-15

Client: ICON Environmental Services
Project: EWL(East White Lake)

BatchID: 17575

Sample ID: LCSD-D-17575	SampType: LCSD	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 12/7/2015	RunNo: 49026						
Client ID: LCSS02	Batch ID: 17575	TestNo: SW8015B	SW3550C	Analysis Date: 12/9/2015	SeqNo: 1196649						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 4-Terphenyl-d14	3.03		3.330		90.9	33	152		0	40	
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Sample ID: LCSD-M-17575	SampType: LCSD	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 12/7/2015	RunNo: 49026						
Client ID: LCSS02	Batch ID: 17575	TestNo: SW8015B	SW3550C	Analysis Date: 12/9/2015	SeqNo: 1196650						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Oil Range)	82.0	10.0	100.0	0	82.0	63.9	120	86.70	5.63	16.6	
Surr: 4-Terphenyl-d14	2.96		3.330		88.8	33	152		0	40	

Sample ID: LCS-M-17575	SampType: LCS	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 12/7/2015	RunNo: 49026						
Client ID: LCSS	Batch ID: 17575	TestNo: SW8015B	SW3550C	Analysis Date: 12/9/2015	SeqNo: 1196651						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Oil Range)	86.7	10.0	100.0	0	86.7	63.9	120				
Surr: 4-Terphenyl-d14	3.08		3.330		92.5	33	152				

Sample ID: MB-17575	SampType: MBLK	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 12/7/2015	RunNo: 49026						
Client ID: PBS	Batch ID: 17575	TestNo: SW8015B	SW3550C	Analysis Date: 12/9/2015	SeqNo: 1196652						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range)	< 10.0	10.0									
TPH (Oil Range)	< 10.0	10.0									

Qualifiers:

* Value exceeds Maximum Contaminant Level.	C Value is below Minimum Compound Limit.	H Holding times for preparation or analysis exceed
M Matrix Interference	ND Not Detected at the Reporting Limit	RL Reporting Limit
S Spike Recovery outside accepted recovery limits	U Analyte not detected	W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15120222

17-Dec-15

Client: ICON Environmental Services

Project: EWL(East White Lake)

BatchID: 17575

Sample ID: MB-17575	SampType: MBLK	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 12/7/2015	RunNo: 49026						
Client ID: PBS	Batch ID: 17575	TestNo: SW8015B	SW3550C	Analysis Date: 12/9/2015	SeqNo: 1196652						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 4-Terphenyl-d14 3.06 3.330 91.9 33 152

Sample ID: 15120222-001BMS-M	SampType: MS	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 12/7/2015	RunNo: 49026						
Client ID: TBB-2 Grab	Batch ID: 17575	TestNo: SW8015B	SW3550C	Analysis Date: 12/9/2015	SeqNo: 1196653						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Oil Range) 197 50.0 100.0 246.7 -49.7 14.5 174 SM

Surr: 4-Terphenyl-d14 1.95 3.330 58.6 33 152

Sample ID: 15120222-001BMSD-	SampType: MSD	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 12/7/2015	RunNo: 49026						
Client ID: TBB-2 Grab	Batch ID: 17575	TestNo: SW8015B	SW3550C	Analysis Date: 12/9/2015	SeqNo: 1196736						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range) 239 50.0 100.0 244.3 -4.80 23.4 123 197.9 19.0 35.6 SM

Surr: 4-Terphenyl-d14 1.88 3.330 56.3 33 152 0 40

Qualifiers:

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M Matrix Interference	ND Not Detected at the Reporting Limit	RL Reporting Limit
S Spike Recovery outside accepted recovery limits	U Analyte not detected	W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15120222
 17-Dec-15

Client: ICON Environmental Services
Project: EWL(East White Lake)

BatchID: 17588

Sample ID: MB-17588	SampType: MBLK	TestCode: 6010_S_29B	Units: mg/Kg-dry	Prep Date: 12/8/2015	RunNo: 49025						
Client ID: PBS	Batch ID: 17588	TestNo: SW6010B	SW3050B	Analysis Date: 12/8/2015	SeqNo: 1196580						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	< 2.00	2.00									
Barium	< 1.00	1.00									
Cadmium	< 0.500	0.500									
Chromium	< 1.00	1.00									
Lead	< 1.00	1.00									
Selenium	< 2.00	2.00									
Strontium	< 1.00	1.00									
Zinc	< 1.00	1.00									

Sample ID: LCS-17588	SampType: LCS	TestCode: 6010_S_29B	Units: mg/Kg-dry	Prep Date: 12/8/2015	RunNo: 49025						
Client ID: LCSS	Batch ID: 17588	TestNo: SW6010B	SW3050B	Analysis Date: 12/8/2015	SeqNo: 1196581						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	48.4	2.00	50.00	0	96.7	80	120				
Barium	48.4	1.00	50.00	0	96.8	80	120				
Cadmium	48.0	0.500	50.00	0	95.9	80	120				
Chromium	48.2	1.00	50.00	0	96.3	80	120				
Lead	48.4	1.00	50.00	0	96.8	80	120				
Selenium	48.8	2.00	50.00	0	97.5	80	120				
Strontium	48.3	1.00	50.00	0	96.6	80	120				
Zinc	48.3	1.00	50.00	0	96.6	80	120				

Qualifiers:

* Value exceeds Maximum Contaminant Level.	C Value is below Minimum Compound Limit.	H Holding times for preparation or analysis exceed
M Matrix Interference	ND Not Detected at the Reporting Limit	RL Reporting Limit
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QC SUMMARY REPORT

WO#: 15120222

17-Dec-15

Client: ICON Environmental Services

Project: EWL(East White Lake)

BatchID: 17588

Sample ID: LCSD-17588	SampType: LCSD	TestCode: 6010_S_29B	Units: mg/Kg-dry	Prep Date: 12/8/2015	RunNo: 49025						
Client ID: LCSS02	Batch ID: 17588	TestNo: SW6010B	SW3050B	Analysis Date: 12/8/2015	SeqNo: 1196582						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	48.8	2.00	50.00	0	97.5	80	120	48.37	0.824	20	
Barium	48.1	1.00	50.00	0	96.2	80	120	48.38	0.580	20	
Cadmium	47.8	0.500	50.00	0	95.6	80	120	47.96	0.313	20	
Chromium	48.0	1.00	50.00	0	95.9	80	120	48.15	0.416	20	
Lead	48.3	1.00	50.00	0	96.7	80	120	48.40	0.145	20	
Selenium	48.8	2.00	50.00	0	97.5	80	120	48.75	0	20	
Strontium	48.4	1.00	50.00	0	96.8	80	120	48.28	0.269	20	
Zinc	48.1	1.00	50.00	0	96.1	80	120	48.28	0.457	20	

Sample ID: 15120222-004AMS	SampType: MS	TestCode: 6010_S_29B	Units: mg/Kg-dry	Prep Date: 12/8/2015	RunNo: 49025						
Client ID: TBB-2M (15-17')	Batch ID: 17588	TestNo: SW6010B	SW3050B	Analysis Date: 12/8/2015	SeqNo: 1196590						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	48.4	1.98	49.56	5.114	87.4	75	125				
Barium	257	0.991	49.56	217.9	78.2	75	125				
Cadmium	43.4	0.496	49.56	0.1982	87.2	75	125				
Chromium	56.9	0.991	49.56	12.30	90.1	75	125				
Lead	54.9	0.991	49.56	11.09	88.4	75	125				
Selenium	39.8	1.98	49.56	0	80.3	75	125				
Strontium	81.5	0.991	49.56	38.04	87.6	75	125				
Zinc	65.3	0.991	49.56	22.71	86.0	75	125				

Qualifiers:

* Value exceeds Maximum Contaminant Level.	C Value is below Minimum Compound Limit.	H Holding times for preparation or analysis exceed
M Matrix Interference	ND Not Detected at the Reporting Limit	RL Reporting Limit
S Spike Recovery outside accepted recovery limits	U Analyte not detected	W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15120222
 17-Dec-15

Client: ICON Environmental Services
Project: EWL(East White Lake)

BatchID: 17588

Sample ID: 15120222-004AMSD	SampType: MSD	TestCode: 6010_S_29B	Units: mg/Kg-dry	Prep Date: 12/8/2015	RunNo: 49025						
Client ID: TBB-2M (15-17')	Batch ID: 17588	TestNo: SW6010B	SW3050B	Analysis Date: 12/8/2015	SeqNo: 1196591						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	48.3	1.98	49.54	5.114	87.1	75	125	48.41	0.337	20	
Barium	256	0.991	49.54	217.9	77.0	75	125	256.6	0.243	20	
Cadmium	43.4	0.495	49.54	0.1982	87.2	75	125	43.44	0.141	20	
Chromium	56.9	0.991	49.54	12.30	90.0	75	125	56.94	0.119	20	
Lead	55.1	0.991	49.54	11.09	88.9	75	125	54.93	0.401	20	
Selenium	41.1	1.98	49.54	0	82.9	75	125	39.80	3.18	20	
Strontium	81.6	0.991	49.54	38.04	87.9	75	125	81.47	0.157	20	
Zinc	65.3	0.991	49.54	22.71	86.0	75	125	65.34	0.0647	20	

Qualifiers:

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M Matrix Interference	ND Not Detected at the Reporting Limit	RL Reporting Limit
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QC SUMMARY REPORT

WO#: 15120222

17-Dec-15

Client: ICON Environmental Services
Project: EWL(East White Lake)

BatchID: 17589

Sample ID: MB-17589	SampType: MBLK	TestCode: TTBA	Units: mg/Kg-dry	Prep Date: 12/8/2015	RunNo: 49045						
Client ID: PBS	Batch ID: 17589	TestNo: LDNR 29-B		Analysis Date: 12/9/2015	SeqNo: 1196995						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

True Total Barium < 50.0 50.0

Sample ID: LCS-17589	SampType: LCS	TestCode: TTBA	Units: mg/Kg-dry	Prep Date: 12/8/2015	RunNo: 49045						
Client ID: LCSS	Batch ID: 17589	TestNo: LDNR 29-B		Analysis Date: 12/9/2015	SeqNo: 1196996						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

True Total Barium 4,660 50.0 5,000 0 93.2 75 125

Sample ID: LCSD-17589	SampType: LCSD	TestCode: TTBA	Units: mg/Kg-dry	Prep Date: 12/8/2015	RunNo: 49045						
Client ID: LCSS02	Batch ID: 17589	TestNo: LDNR 29-B		Analysis Date: 12/9/2015	SeqNo: 1196997						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

True Total Barium 4,640 50.0 5,000 0 92.8 75 125 4,660 0.409 20

Sample ID: 15120004-029AMS	SampType: MS	TestCode: TTBA	Units: mg/Kg-dry	Prep Date: 12/8/2015	RunNo: 49045						
Client ID: ZZZZZ	Batch ID: 17589	TestNo: LDNR 29-B		Analysis Date: 12/9/2015	SeqNo: 1196999						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

True Total Barium 4,310 46.0 4,596 120.0 91.2 75 125

Qualifiers: * Value exceeds Maximum Contaminant Level. C Value is below Minimum Compound Limit. H Holding times for preparation or analysis exceed
 M Matrix Interference ND Not Detected at the Reporting Limit RL Reporting Limit
 S Spike Recovery outside accepted recovery limits U Analyte not detected W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15120222
 17-Dec-15

Client: ICON Environmental Services
Project: EWL(East White Lake)

BatchID: 17589

Sample ID: 15120004-029AMSD	SampType: MSD	TestCode: TTBA	Units: mg/Kg-dry	Prep Date: 12/8/2015	RunNo: 49045						
Client ID: ZZZZZZ	Batch ID: 17589	TestNo: LDNR 29-B		Analysis Date: 12/9/2015	SeqNo: 1197002						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
True Total Barium	4,280	45.7	4,575	120.0	90.9	75	125	4,311	0.779	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	C Value is below Minimum Compound Limit.	H Holding times for preparation or analysis exceeds
M Matrix Interference	ND Not Detected at the Reporting Limit	RL Reporting Limit
S Spike Recovery outside accepted recovery limits	U Analyte not detected	W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15120222

17-Dec-15

Client: ICON Environmental Services
Project: EWL(East White Lake)

BatchID: 17591

Sample ID: MB-17591	SampType: MBLK	TestCode: HG_S_29B	Units: mg/Kg-dry	Prep Date: 12/8/2015	RunNo: 48997						
Client ID: PBS	Batch ID: 17591	TestNo: 29B/SW7471 SW7471A		Analysis Date: 12/8/2015	SeqNo: 1195925						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury < 0.10 0.10

Sample ID: LCS-17591	SampType: LCS	TestCode: HG_S_29B	Units: mg/Kg-dry	Prep Date: 12/8/2015	RunNo: 48997						
Client ID: LCSS	Batch ID: 17591	TestNo: 29B/SW7471 SW7471A		Analysis Date: 12/8/2015	SeqNo: 1195926						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.87 0.10 0.83 0 104 80 120

Sample ID: LCSD-17591	SampType: LCSD	TestCode: HG_S_29B	Units: mg/Kg-dry	Prep Date: 12/8/2015	RunNo: 48997						
Client ID: LCSS02	Batch ID: 17591	TestNo: 29B/SW7471 SW7471A		Analysis Date: 12/8/2015	SeqNo: 1195927						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.86 0.10 0.83 0 104 80 120 0.87 0.16 20

Sample ID: 15120222-001AMS	SampType: MS	TestCode: HG_S_29B	Units: mg/Kg-dry	Prep Date: 12/8/2015	RunNo: 48997						
Client ID: TBB-2 Grab	Batch ID: 17591	TestNo: 29B/SW7471 SW7471A		Analysis Date: 12/8/2015	SeqNo: 1195929						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.87 0.09 0.79 0.09 99.8 75 125

Qualifiers: * Value exceeds Maximum Contaminant Level. C Value is below Minimum Compound Limit. H Holding times for preparation or analysis exceed
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QC SUMMARY REPORT

WO#: 15120222
 17-Dec-15

Client: ICON Environmental Services
Project: EWL(East White Lake)

BatchID: 17591

Sample ID: 15120222-001AMSD	SampType: MSD	TestCode: HG_S_29B	Units: mg/Kg-dry	Prep Date: 12/8/2015	RunNo: 48997						
Client ID: TBB-2 Grab	Batch ID: 17591	TestNo: 29B/SW7471	SW7471A	Analysis Date: 12/8/2015	SeqNo: 1195930						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.86	0.10	0.82	0.09	94.6	75	125	0.87	1.71	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	C Value is below Minimum Compound Limit.	H Holding times for preparation or analysis exceeds
M Matrix Interference	ND Not Detected at the Reporting Limit	RL Reporting Limit
S Spike Recovery outside accepted recovery limits	U Analyte not detected	W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15120222

17-Dec-15

Client: ICON Environmental Services
Project: EWL(East White Lake)

BatchID: 17608

Sample ID: 15120004-021ADUP	SampType: dup	TestCode: ESP_S	Units: %	Prep Date: 12/3/2015	RunNo: 49076						
Client ID: ZZZZZZ	Batch ID: 17608	TestNo: LDNR 29-B	LDNR 29-B	Analysis Date: 12/10/2015	SeqNo: 1197620						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Exchangeable Sodium %	2.35	0.100						2.533	7.47	20	

Sample ID: 15120222-002ADUP	SampType: dup	TestCode: ESP_S	Units: %	Prep Date: 12/3/2015	RunNo: 49076						
Client ID: TBB-2M (0-7')	Batch ID: 17608	TestNo: LDNR 29-B	LDNR 29-B	Analysis Date: 12/10/2015	SeqNo: 1197634						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Exchangeable Sodium %	23.6	0.100						20.90	12.1	20	*

Qualifiers:

* Value exceeds Maximum Contaminant Level.	C Value is below Minimum Compound Limit.	H Holding times for preparation or analysis exceeds
M Matrix Interference	ND Not Detected at the Reporting Limit	RL Reporting Limit
S Spike Recovery outside accepted recovery limits	U Analyte not detected	W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15120222
 17-Dec-15

Client: ICON Environmental Services
Project: EWL(East White Lake)

BatchID: 17609

Sample ID: 15120004-021ADUP	SampType: dup	TestCode: CEC	Units: meq/100g	Prep Date: 12/3/2015	RunNo: 49075						
Client ID: ZZZZZZ	Batch ID: 17609	TestNo: LDNR 29-B	LDNR 29-B	Analysis Date: 12/10/2015	SeqNo: 1197599						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cation Exchange Capacity	22.4	0.100						20.33	9.46	20
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Sample ID: 15120222-002ADUP	SampType: dup	TestCode: CEC	Units: meq/100g	Prep Date: 12/3/2015	RunNo: 49075						
Client ID: TBB-2M (0-7')	Batch ID: 17609	TestNo: LDNR 29-B	LDNR 29-B	Analysis Date: 12/10/2015	SeqNo: 1197613						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cation Exchange Capacity	51.6	0.100						55.35	7.05	20
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Sample ID: lcs-17609	SampType: lcs	TestCode: CEC	Units: meq/100g	Prep Date: 12/3/2015	RunNo: 49075						
Client ID: LCSS	Batch ID: 17609	TestNo: LDNR 29-B	LDNR 29-B	Analysis Date: 12/10/2015	SeqNo: 1197617						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cation Exchange Capacity	20.7	0.100	25.00	0	82.7	76	124			
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Sample ID: lcsd-17609	SampType: lcsd	TestCode: CEC	Units: meq/100g	Prep Date: 12/3/2015	RunNo: 49075						
Client ID: LCSS02	Batch ID: 17609	TestNo: LDNR 29-B	LDNR 29-B	Analysis Date: 12/10/2015	SeqNo: 1197618						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cation Exchange Capacity	20.9	0.100	25.00	0	83.6	76	124	20.67	1.13	20
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Qualifiers:

* Value exceeds Maximum Contaminant Level.	C Value is below Minimum Compound Limit.	H Holding times for preparation or analysis exceed
M Matrix Interference	ND Not Detected at the Reporting Limit	RL Reporting Limit
S Spike Recovery outside accepted recovery limits	U Analyte not detected	W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15120222
 17-Dec-15

Client: ICON Environmental Services
Project: EWL(East White Lake)

BatchID: 17622

Sample ID: 15120222-002ADUP	SampType: DUP	TestCode: SAR_S	Units:	Prep Date: 12/9/2015	RunNo: 49071						
Client ID: TBB-2M (0-7')	Batch ID: 17622	TestNo: LDNR 29-B	LDNR 29-B	Analysis Date: 12/10/2015	SeqNo: 1197669						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium Adsorption Ratio	36.0	0.100						36.16	0.438	20	*
Soluble Calcium	5.99	1.00						6.063	1.24	20	
Soluble Magnesium	10.1	1.00						10.20	1.38	20	
Soluble Sodium	102	1.00						103.1	1.10	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	C Value is below Minimum Compound Limit.	H Holding times for preparation or analysis exceeds
M Matrix Interference	ND Not Detected at the Reporting Limit	RL Reporting Limit
S Spike Recovery outside accepted recovery limits	U Analyte not detected	W Sample container temperature is out of limit as sf



Element Materials Technology Lafayette
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 TEL: (337) 235-0483 FAX: (337) 233-6540
 Website: www.element.com

QC SUMMARY REPORT

WO#: 15120222
 17-Dec-15

Client: ICON Environmental Services
Project: EWL(East White Lake)

BatchID: 17698

Sample ID: MBLK	SampType: MBLK	TestCode: 9056_LEACH	Units: mg/L	Prep Date:	RunNo: 49192						
Client ID: PBW	Batch ID: 17698	TestNo: SW9056A	LDNR 29-B	Analysis Date: 12/16/2015	SeqNo: 1201145						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride < 0.250 0.250

Sample ID: LCS	SampType: LCS	TestCode: 9056_LEACH	Units: mg/L	Prep Date:	RunNo: 49192						
Client ID: LCSW	Batch ID: 17698	TestNo: SW9056A	LDNR 29-B	Analysis Date: 12/16/2015	SeqNo: 1201146						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 9.98 0.250 10.00 0 99.8 80 120

Sample ID: LCSD	SampType: LCSD	TestCode: 9056_LEACH	Units: mg/L	Prep Date:	RunNo: 49192						
Client ID: LCSS02	Batch ID: 17698	TestNo: SW9056A	LDNR 29-B	Analysis Date: 12/16/2015	SeqNo: 1201147						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 9.76 0.250 10.00 0 97.6 80 120 9.981 2.28 15

Sample ID: 15120222-001AMS	SampType: MS	TestCode: 9056_LEACH	Units: mg/L	Prep Date:	RunNo: 49192						
Client ID: TBB-2 Grab	Batch ID: 17698	TestNo: SW9056A	LDNR 29-B	Analysis Date: 12/16/2015	SeqNo: 1201149						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 659 12.5 250.0 428.1 92.2 80 120

Qualifiers: * Value exceeds Maximum Contaminant Level. C Value is below Minimum Compound Limit. H Holding times for preparation or analysis exceed
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 S Spike Recovery outside accepted recovery limits U Analyte not detected W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15120222
 17-Dec-15

Client: ICON Environmental Services
Project: EWL(East White Lake)

BatchID: 17698

Sample ID: 15120222-001AMSD	SampType: MSD	TestCode: 9056_LEACH	Units: mg/L	Prep Date:	RunNo: 49192						
Client ID: TBB-2 Grab	Batch ID: 17698	TestNo: SW9056A	LDNR 29-B	Analysis Date: 12/16/2015	SeqNo: 1201150						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	659	12.5	250.0	428.1	92.2	80	120	658.7	0.00955	15	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	C Value is below Minimum Compound Limit.	H Holding times for preparation or analysis exceeds
M Matrix Interference	ND Not Detected at the Reporting Limit	RL Reporting Limit
S Spike Recovery outside accepted recovery limits	U Analyte not detected	W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15120222
 17-Dec-15

Client: ICON Environmental Services
Project: EWL(East White Lake)

BatchID: R48996

Sample ID: 15120222-002ADUP	SampType: dup	TestCode: PMOIST	Units: wt%	Prep Date:	RunNo: 48996						
Client ID: TBB-2M (0-7')	Batch ID: R48996	TestNo: LDNR 29-B		Analysis Date: 12/4/2015	SeqNo: 1195880						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	47.8	1.00						45.76	4.32	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.	H	Holding times for preparation or analysis exceeds
M	Matrix Interference	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected	W	Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15120222
 17-Dec-15

Client: ICON Environmental Services
Project: EWL(East White Lake)

BatchID: R49031

Sample ID: LCS-R49031	SampType: LCS	TestCode: PH_S	Units: S.U.	Prep Date:	RunNo: 49031						
Client ID: LCSS	Batch ID: R49031	TestNo: LDNR 29-B		Analysis Date: 12/9/2015	SeqNo: 1196776						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

pH Measurement 7.07 1.68 7.00 0 101 97.14 102.86

Sample ID: 15120222-002ADUP	SampType: DUP	TestCode: PH_S	Units: S.U.	Prep Date:	RunNo: 49031						
Client ID: TBB-2M (0-7')	Batch ID: R49031	TestNo: LDNR 29-B		Analysis Date: 12/9/2015	SeqNo: 1196790						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

pH Measurement 6.17 1.68 6.16 0.16 20

Qualifiers:

* Value exceeds Maximum Contaminant Level.	C Value is below Minimum Compound Limit.	H Holding times for preparation or analysis exceed
M Matrix Interference	ND Not Detected at the Reporting Limit	RL Reporting Limit
S Spike Recovery outside accepted recovery limits	U Analyte not detected	W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15120222

17-Dec-15

Client: ICON Environmental Services
Project: EWL(East White Lake)

BatchID: R49046

Sample ID: MB-R49046	SampType: MBLK	TestCode: HEM_S	Units: % dry wt	Prep Date:	RunNo: 49046						
Client ID: PBS	Batch ID: R49046	TestNo: SW9071B		Analysis Date: 12/10/2015	SeqNo: 1197508						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM, Oil & Grease	< 0.05	0.05									

Sample ID: LCS-R49046	SampType: LCS	TestCode: HEM_S	Units: % dry wt	Prep Date:	RunNo: 49046						
Client ID: LCSS	Batch ID: R49046	TestNo: SW9071B		Analysis Date: 12/10/2015	SeqNo: 1197509						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM, Oil & Grease	0.23	0.05	0.20	0	116	70	130				

Sample ID: LCSD-R49046	SampType: LCSD	TestCode: HEM_S	Units: % dry wt	Prep Date:	RunNo: 49046						
Client ID: LCSS02	Batch ID: R49046	TestNo: SW9071B		Analysis Date: 12/10/2015	SeqNo: 1197510						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM, Oil & Grease	0.21	0.05	0.20	0	107	70	130	0.23	7.84	40	

Sample ID: 15120222-002BMS	SampType: MS	TestCode: HEM_S	Units: % dry wt	Prep Date:	RunNo: 49046						
Client ID: TBB-2M (0-7')	Batch ID: R49046	TestNo: SW9071B		Analysis Date: 12/10/2015	SeqNo: 1197511						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM, Oil & Grease	0.82	0.05	0.37	0.22	164	70	130				S

NOTES:

S - Spike recovery indicates matrix interference. The method is in control as indicated by the Lab Control Sample.

Qualifiers:

* Value exceeds Maximum Contaminant Level.	C Value is below Minimum Compound Limit.	H Holding times for preparation or analysis exceed
M Matrix Interference	ND Not Detected at the Reporting Limit	RL Reporting Limit
S Spike Recovery outside accepted recovery limits	U Analyte not detected	W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15120222
 17-Dec-15

Client: ICON Environmental Services
Project: EWL(East White Lake)

BatchID: R49046

Sample ID: 15120222-002BDUP	SampType: DUP	TestCode: HEM_S	Units: % dry wt	Prep Date:	RunNo: 49046						
Client ID: TBB-2M (0-7')	Batch ID: R49046	TestNo: SW9071B		Analysis Date: 12/10/2015	SeqNo: 1197512						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM, Oil & Grease	0.26	0.05						0.22	18.3	40	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	C Value is below Minimum Compound Limit.	H Holding times for preparation or analysis exceeds
M Matrix Interference	ND Not Detected at the Reporting Limit	RL Reporting Limit
S Spike Recovery outside accepted recovery limits	U Analyte not detected	W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15120222
 17-Dec-15

Client: ICON Environmental Services
Project: EWL(East White Lake)

BatchID: R49052

Sample ID: MBLK	SampType: MBLK	TestCode: 9056_S	Units: mg/Kg-dry	Prep Date:	RunNo: 49052						
Client ID: PBS	Batch ID: R49052	TestNo: SW9056A		Analysis Date: 12/10/2015	SeqNo: 1197452						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride < 0.250 0.250

Sample ID: LCS	SampType: LCS	TestCode: 9056_S	Units: mg/Kg-dry	Prep Date:	RunNo: 49052						
Client ID: LCSS	Batch ID: R49052	TestNo: SW9056A		Analysis Date: 12/10/2015	SeqNo: 1197453						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 9.70 0.250 10.00 0 97.0 80 120

Sample ID: LCSD	SampType: LCSD	TestCode: 9056_S	Units: mg/Kg-dry	Prep Date:	RunNo: 49052						
Client ID: LCSS02	Batch ID: R49052	TestNo: SW9056A		Analysis Date: 12/10/2015	SeqNo: 1197454						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 9.60 0.250 10.00 0 96.0 80 120 9.701 1.09 15

Sample ID: 15120222-003AMS	SampType: MS	TestCode: 9056_S	Units: mg/Kg-dry	Prep Date:	RunNo: 49052						
Client ID: TBB-2M (7-15')	Batch ID: R49052	TestNo: SW9056A		Analysis Date: 12/10/2015	SeqNo: 1197458						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 19,500 256 5,125 14,900 89.7 80 120

Qualifiers: * Value exceeds Maximum Contaminant Level. C Value is below Minimum Compound Limit. H Holding times for preparation or analysis exceed
 M Matrix Interference ND Not Detected at the Reporting Limit RL Reporting Limit
 S Spike Recovery outside accepted recovery limits U Analyte not detected W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15120222
 17-Dec-15

Client: ICON Environmental Services
Project: EWL(East White Lake)

BatchID: R49052

Sample ID: 15120222-003AMSD	SampType: MSD	TestCode: 9056_S	Units: mg/Kg-dry	Prep Date:	RunNo: 49052						
Client ID: TBB-2M (7-15')	Batch ID: R49052	TestNo: SW9056A		Analysis Date: 12/10/2015	SeqNo: 1197459						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	19,700	256	5,125	14,900	92.8	80	120	19,490	0.799	15	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	C Value is below Minimum Compound Limit.	H Holding times for preparation or analysis exceeds
M Matrix Interference	ND Not Detected at the Reporting Limit	RL Reporting Limit
S Spike Recovery outside accepted recovery limits	U Analyte not detected	W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15120222
 17-Dec-15

Client: ICON Environmental Services
Project: EWL(East White Lake)

BatchID: R49058

Sample ID: MB-R49058	SampType: MBLK	TestCode: EC_S	Units: mmhos/cm	Prep Date:	RunNo: 49058						
Client ID: PBS	Batch ID: R49058	TestNo: LDNR 29-B		Analysis Date: 12/10/2015	SeqNo: 1197352						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Electrical Conductivity < 0.10 0.10

Sample ID: R49058LCS1	SampType: LCS1	TestCode: EC_S	Units: mmhos/cm	Prep Date:	RunNo: 49058						
Client ID: ZZZZZ	Batch ID: R49058	TestNo: LDNR 29-B		Analysis Date: 12/10/2015	SeqNo: 1197353						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Electrical Conductivity 0.38 0.10 0.36 0 107 89.9 110.08

Sample ID: R49058LCS2	SampType: LCS2	TestCode: EC_S	Units: mmhos/cm	Prep Date:	RunNo: 49058						
Client ID: ZZZZZ	Batch ID: R49058	TestNo: LDNR 29-B		Analysis Date: 12/10/2015	SeqNo: 1197354						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Electrical Conductivity 56.3 0.10 53.00 0 106 90 110

Sample ID: 15120222-002ADUP	SampType: DUP	TestCode: EC_S	Units: mmhos/cm	Prep Date:	RunNo: 49058						
Client ID: TBB-2M (0-7')	Batch ID: R49058	TestNo: LDNR 29-B		Analysis Date: 12/10/2015	SeqNo: 1197363						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Electrical Conductivity 14.2 0.10 13.70 3.23 20 *

Qualifiers: * Value exceeds Maximum Contaminant Level. C Value is below Minimum Compound Limit. H Holding times for preparation or analysis exceed
 M Matrix Interference ND Not Detected at the Reporting Limit RL Reporting Limit
 S Spike Recovery outside accepted recovery limits U Analyte not detected W Sample container temperature is out of limit as sf



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Sample Log-In Check List

Client Name: **ICON_ENV** Work Order Number: **15120222** RcptNo: **1**

Logged by:	Tammy Thibodeaux	12/3/2015 5:15:00 PM	<i>Tammy Thibodeaux</i>
Completed By:	Tammy Thibodeaux	12/4/2015 1:54:35 PM	<i>Tammy Thibodeaux</i>
Reviewed By:	Caitlin Duplantis	12/4/2015 3:13:12 PM	<i>Caitlin Duplantis</i>

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 Custody seals intact on shipping container/cooler? Yes No Not Present
 No. Seal Date: Signed By:
 5. Was an attempt made to cool the samples? Yes No NA
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 7. Sample(s) in proper container(s)? Yes No
 8. Sufficient sample volume for indicated test(s)? Yes No
 9. Are samples (except VOA and ONG) properly preserved? Yes No
 10. Was preservative added to bottles? Yes No NA
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
 12. Were any sample containers received broken? Yes No
 13. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 14. Are matrices correctly identified on Chain of Custody? Yes No
 15. Is it clear what analyses were requested? Yes No
 16. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Not Present			



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December 16, 2015

Greg Miller
ICON Environmental Services
2049 Commercial Drive
Port Allen, LA 70767
TEL: (225) 344-8490
FAX: (225) 344-6654

RE: VPSB East WhiteLake/9077-041-0100

Order No.: 15111061

Dear Greg Miller:

Element Materials Technology Lafayette received 2 sample(s) on 11/25/2015 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

All soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as -dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261-14-6. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

A handwritten signature in blue ink, appearing to read 'Cristina Thibeaux', is written over a light blue horizontal line.

Cristina Thibeaux
Customer Service Supervisor
2417 W. Pinhook Road
Lafayette, LA 70508-3344



Element Materials Technology Lafayette
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Website: www.element.com

Case Narrative

WO#: 15111061
Date: 12/16/2015

CLIENT: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).



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Analytical Report

(consolidated)

WO#: 15111061

Date Reported: 12/16/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/25/2015 10:40:00 AM
Project: VPSB East WhiteLake/9077-041-0100
Lab ID: 15111061-001 **Matrix:** SOIL
Client Sample ID TBB-1d (0-5')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LA STATEWIDE ORDER 29-B TESTING						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	128	0.100		meq/100g	1	12/9/2015 1:13:00 PM
LA STATEWIDE ORDER 29-B TESTING						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	8.72	0.10	*	mmhos/cm	1	12/10/2015 12:35:00 PM
LA STATEWIDE ORDER 29-B TESTING						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	8.17	0.100		%	1	12/9/2015 1:13:00 PM
LA STATEWIDE ORDER 29-B TESTING						
HEM, OIL & GREASE						
HEM, Oil & Grease	0.63	0.05		% dry wt	1	12/3/2015 7:14:00 AM
LA STATEWIDE ORDER 29-B TESTING						
PH MEASUREMENT						
pH Measurement	6.84	1.68		S.U.	1	12/9/2015 2:17:00 PM
LA STATEWIDE ORDER 29-B TESTING						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	23.1	0.100	*		1	12/7/2015
Soluble Calcium	6.86	1.00		meq/L	1	12/7/2015
Soluble Magnesium	12.2	1.00		meq/L	1	12/7/2015
Soluble Sodium	71.4	1.00		meq/L	1	12/7/2015
TPH-D/O IN SOIL BY SW8015						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	1,590	100		mg/Kg	10	12/4/2015 7:41:00 PM
TPH (Oil Range)	824	100		mg/Kg	10	12/4/2015 7:41:00 PM
Surr: 4-Terphenyl-d14	68.4	33 - 152		%REC	10	12/4/2015 7:41:00 PM
LA STATEWIDE ORDER 29-B TESTING						
MERCURY IN SOIL OR SLUDGE						

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: **15111061**

Date Reported: **12/16/2015**

CLIENT: ICON Environmental Services **Collection Date:** 11/25/2015 10:40:00 AM
Project: VPSB East WhiteLake/9077-041-0100
Lab ID: 15111061-001 **Matrix:** SOIL
Client Sample ID TBB-1d (0-5')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LA STATEWIDE ORDER 29-B TESTING MERCURY IN SOIL OR SLUDGE					29B/SW7471A	SW7471A Analyst: BAS
Mercury	< 0.10	0.10		mg/Kg-dry	1	12/4/2015 11:02:19 AM
INORGANIC ANIONS IN LEACHATE BY IC					SW9056A	LDNR 29-B Analyst: SGP
Chloride	716	12.5		mg/L	50	12/10/2015 1:50:30 PM
SOLUBLE INORGANIC ANIONS IN SOIL BY IC					SW9056A	Analyst: SGP
Chloride	3,110	65.4		mg/Kg-dry	200	12/4/2015 12:12:47 PM
LA STATEWIDE ORDER 29-B TESTING METALS IN SOIL OR SLUDGE BY ICP					SW6010B	SW3050B Analyst: STS
Arsenic	6.07	1.99		mg/Kg-dry	1	12/4/2015 4:19:57 PM
Barium	1,010	0.996		mg/Kg-dry	1	12/4/2015 4:19:57 PM
Cadmium	< 0.498	0.498		mg/Kg-dry	1	12/4/2015 4:19:57 PM
Chromium	10.5	0.996		mg/Kg-dry	1	12/4/2015 4:19:57 PM
Lead	13.2	0.996		mg/Kg-dry	1	12/4/2015 4:19:57 PM
Selenium	< 1.99	1.99		mg/Kg-dry	1	12/4/2015 4:19:57 PM
Strontium	229	9.96		mg/Kg-dry	10	12/4/2015 4:24:08 PM
Zinc	97.6	0.996		mg/Kg-dry	1	12/4/2015 4:19:57 PM
LA STATEWIDE ORDER 29-B TESTING TRUE TOTAL BARIUM					LDNR 29-B	Analyst: STS
True Total Barium	4,480	46.9		mg/Kg-dry	1	12/4/2015 6:10:44 PM
LA STATEWIDE ORDER 29-B TESTING PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	78.2	1.00		wt%	1	11/30/2015 11:10:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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 Website: www.element.com

Analytical Report

(consolidated)

WO#: 15111061

Date Reported: 12/16/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/25/2015 10:45:00 AM
Project: VPSB East WhiteLake/9077-041-0100
Lab ID: 15111061-002 **Matrix:** SOIL
Client Sample ID TBB 1d (5-10')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LA STATEWIDE ORDER 29-B TESTING						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	60.5	0.100		meq/100g	1	12/9/2015 1:13:00 PM
LA STATEWIDE ORDER 29-B TESTING						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	5.73	0.10	*	mmhos/cm	1	12/10/2015 12:35:00 PM
LA STATEWIDE ORDER 29-B TESTING						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	32.9	0.100	*	%	1	12/9/2015 1:13:00 PM
LA STATEWIDE ORDER 29-B TESTING						
HEM, OIL & GREASE						
HEM, Oil & Grease	0.12	0.05		% dry wt	1	12/3/2015 7:14:00 AM
LA STATEWIDE ORDER 29-B TESTING						
PH MEASUREMENT						
pH Measurement	7.78	1.68		S.U.	1	12/9/2015 2:17:00 PM
LA STATEWIDE ORDER 29-B TESTING						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	36.4	0.100	*		1	12/7/2015
Soluble Calcium	2.10	1.00		meq/L	1	12/7/2015
Soluble Magnesium	2.57	1.00		meq/L	1	12/7/2015
Soluble Sodium	55.6	1.00		meq/L	1	12/7/2015
TPH-D/O IN SOIL BY SW8015						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	15.5	10.0		mg/Kg	1	12/4/2015 8:41:00 AM
TPH (Oil Range)	36.5	10.0		mg/Kg	1	12/4/2015 8:41:00 AM
Surr: 4-Terphenyl-d14	84.1	33 - 152		%REC	1	12/4/2015 8:41:00 AM
LA STATEWIDE ORDER 29-B TESTING						
MERCURY IN SOIL OR SLUDGE						

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15111061

Date Reported: 12/16/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/25/2015 10:45:00 AM
Project: VPSB East WhiteLake/9077-041-0100
Lab ID: 15111061-002 **Matrix:** SOIL
Client Sample ID TBB 1d (5-10')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LA STATEWIDE ORDER 29-B TESTING MERCURY IN SOIL OR SLUDGE					29B/SW7471A	SW7471A Analyst: BAS
Mercury	< 0.10	0.10		mg/Kg-dry	1	12/4/2015 11:10:11 AM
INORGANIC ANIONS IN LEACHATE BY IC					SW9056A	LDNR 29-B Analyst: SGP
Chloride	621	12.5		mg/L	50	12/10/2015 2:04:15 PM
SOLUBLE INORGANIC ANIONS IN SOIL BY IC					SW9056A	Analyst: SGP
Chloride	2,020	33.3		mg/Kg-dry	100	12/4/2015 12:26:31 PM
LA STATEWIDE ORDER 29-B TESTING METALS IN SOIL OR SLUDGE BY ICP					SW6010B	SW3050B Analyst: STS
Arsenic	5.74	2.00		mg/Kg-dry	1	12/4/2015 4:27:56 PM
Barium	198	0.998		mg/Kg-dry	1	12/4/2015 4:27:56 PM
Cadmium	< 0.499	0.499		mg/Kg-dry	1	12/4/2015 4:27:56 PM
Chromium	13.2	0.998		mg/Kg-dry	1	12/4/2015 4:27:56 PM
Lead	17.2	0.998		mg/Kg-dry	1	12/4/2015 4:27:56 PM
Selenium	< 2.00	2.00		mg/Kg-dry	1	12/4/2015 4:27:56 PM
Strontium	111	0.998		mg/Kg-dry	1	12/4/2015 4:27:56 PM
Zinc	41.9	0.998		mg/Kg-dry	1	12/4/2015 4:27:56 PM
LA STATEWIDE ORDER 29-B TESTING TRUE TOTAL BARIUM					LDNR 29-B	Analyst: STS
True Total Barium	361	45.5		mg/Kg-dry	1	12/4/2015 6:13:24 PM
LA STATEWIDE ORDER 29-B TESTING PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	47.0	1.00		wt%	1	11/30/2015 11:10:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 15111061
 16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: 17519

Sample ID: 15111064-001BMSD-	SampType: MSD	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/30/2015	RunNo: 48942						
Client ID: ZZZZZZ	Batch ID: 17519	TestNo: SW8015B	SW3550C	Analysis Date: 12/4/2015	SeqNo: 1194816						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range)	821	100	100.0	752.4	69.0	23.4	123	1,754	72.4	35.6	RM
Surr: 4-Terphenyl-d14	2.06		3.330		61.9	33	152		0	40	

Sample ID: 15111064-002BMS-M	SampType: MS	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/30/2015	RunNo: 48942						
Client ID: ZZZZZZ	Batch ID: 17519	TestNo: SW8015B	SW3550C	Analysis Date: 12/4/2015	SeqNo: 1194818						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Oil Range)	3,370	1,000	100.0	3,471	-105	14.5	174				SD
Surr: 4-Terphenyl-d14	0		3.330		0	33	152				SD

NOTES:
 SD - Surrogate and matrix spike diluted out due to dilution.

Sample ID: 15111064-002BMSD-	SampType: MSD	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/30/2015	RunNo: 48942						
Client ID: ZZZZZZ	Batch ID: 17519	TestNo: SW8015B	SW3550C	Analysis Date: 12/4/2015	SeqNo: 1194819						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Oil Range)	3,750	1,000	100.0	3,471	274	14.5	174	3,366	10.7	48.8	SD
Surr: 4-Terphenyl-d14	0		3.330		0	33	152		0	40	SD

NOTES:
 SD - Surrogate and matrix spike diluted out due to dilution.

Qualifiers:

* Value exceeds Maximum Contaminant Level.	H Holding times for preparation or analysis exceeded	M Matrix Interference
ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits	RL Reporting Limit
S Spike Recovery outside accepted recovery limits	U Analyte not detected	W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15111061
 16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: 17519

Sample ID: LCS-D-17519	SampType: LCS	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/30/2015	RunNo: 48942						
Client ID: LCSS	Batch ID: 17519	TestNo: SW8015B	SW3550C	Analysis Date: 12/4/2015	SeqNo: 1194826						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range)	86.9	10.0	100.0	0	86.9	63.4	109				
Surr: 4-Terphenyl-d14	2.73		3.330		82.0	33	152				

Sample ID: LCSD-D-17519	SampType: LCSD	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/30/2015	RunNo: 48942						
Client ID: LCSS02	Batch ID: 17519	TestNo: SW8015B	SW3550C	Analysis Date: 12/4/2015	SeqNo: 1194827						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range)	94.0	10.0	100.0	0	94.0	63.4	109	86.90	7.89	17.2
Surr: 4-Terphenyl-d14	2.98		3.330		89.4	33	152		0	40

Sample ID: LCSD-M-17519	SampType: LCSD	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/30/2015	RunNo: 48942						
Client ID: LCSS02	Batch ID: 17519	TestNo: SW8015B	SW3550C	Analysis Date: 12/4/2015	SeqNo: 1194828						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Oil Range)	84.0	10.0	100.0	0	84.0	63.9	120	83.01	1.13	16.6
Surr: 4-Terphenyl-d14	2.71		3.330		81.5	33	152		0	40

Sample ID: LCS-M-17519	SampType: LCS	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/30/2015	RunNo: 48942						
Client ID: LCSS	Batch ID: 17519	TestNo: SW8015B	SW3550C	Analysis Date: 12/4/2015	SeqNo: 1194829						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Oil Range)	83.0	10.0	100.0	0	83.0	63.9	120			
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Qualifiers:

* Value exceeds Maximum Contaminant Level.	H Holding times for preparation or analysis exceeded	M Matrix Interference
ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits	RL Reporting Limit
S Spike Recovery outside accepted recovery limits	U Analyte not detected	W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15111061

16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: 17519

Sample ID: LCS-M-17519	SampType: LCS	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/30/2015	RunNo: 48942						
Client ID: LCSS	Batch ID: 17519	TestNo: SW8015B	SW3550C	Analysis Date: 12/4/2015	SeqNo: 1194829						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 4-Terphenyl-d14 3.11 3.330 93.3 33 152

Sample ID: MB-17519	SampType: MBLK	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/30/2015	RunNo: 48942						
Client ID: PBS	Batch ID: 17519	TestNo: SW8015B	SW3550C	Analysis Date: 12/4/2015	SeqNo: 1194830						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range) < 5.00 5.00
 TPH (Oil Range) < 5.00 5.00
 Surr: 4-Terphenyl-d14 2.84 3.330 85.3 33 152

Sample ID: 15111064-001BMS-D	SampType: MS	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/30/2015	RunNo: 48942						
Client ID: ZZZZZ	Batch ID: 17519	TestNo: SW8015B	SW3550C	Analysis Date: 12/4/2015	SeqNo: 1195753						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range) 1,750 100 100.0 752.4 1,000 23.4 123 SM
 Surr: 4-Terphenyl-d14 2.30 3.330 69.2 33 152

Qualifiers: * Value exceeds Maximum Contaminant Level. H Holding times for preparation or analysis exceeded M Matrix Interference
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits RL Reporting Limit
 S Spike Recovery outside accepted recovery limits U Analyte not detected W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15111061
 16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: 17538

Sample ID: MB-17538	SampType: MBLK	TestCode: HG_S_29B	Units: mg/Kg-dry	Prep Date: 12/4/2015	RunNo: 48915						
Client ID: PBS	Batch ID: 17538	TestNo: 29B/SW7471 SW7471A		Analysis Date: 12/4/2015	SeqNo: 1194160						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury < 0.10 0.10

Sample ID: LCS-17538	SampType: LCS	TestCode: HG_S_29B	Units: mg/Kg-dry	Prep Date: 12/4/2015	RunNo: 48915						
Client ID: LCSS	Batch ID: 17538	TestNo: 29B/SW7471 SW7471A		Analysis Date: 12/4/2015	SeqNo: 1194161						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.88 0.10 0.83 0 106 80 120

Sample ID: LCSD-17538	SampType: LCSD	TestCode: HG_S_29B	Units: mg/Kg-dry	Prep Date: 12/4/2015	RunNo: 48915						
Client ID: LCSS02	Batch ID: 17538	TestNo: 29B/SW7471 SW7471A		Analysis Date: 12/4/2015	SeqNo: 1194162						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.89 0.10 0.83 0 107 80 120 0.88 0.90 20

Sample ID: 15111061-001AMS	SampType: MS	TestCode: HG_S_29B	Units: mg/Kg-dry	Prep Date: 12/4/2015	RunNo: 48915						
Client ID: TBB-1d (0-5')	Batch ID: 17538	TestNo: 29B/SW7471 SW7471A		Analysis Date: 12/4/2015	SeqNo: 1194164						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.83 0.10 0.82 0 100 75 125

Qualifiers: * Value exceeds Maximum Contaminant Level. H Holding times for preparation or analysis exceeded M Matrix Interference
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits RL Reporting Limit
 S Spike Recovery outside accepted recovery limits U Analyte not detected W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15111061

16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: 17538

Sample ID: 15111061-001AMSD	SampType: MSD	TestCode: HG_S_29B	Units: mg/Kg-dry	Prep Date: 12/4/2015	RunNo: 48915						
Client ID: TBB-1d (0-5')	Batch ID: 17538	TestNo: 29B/SW7471	SW7471A	Analysis Date: 12/4/2015	SeqNo: 1194165						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.83	0.10	0.82	0	101	75	125	0.83	0.72	20	
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Qualifiers:

* Value exceeds Maximum Contaminant Level.	H Holding times for preparation or analysis exceeded	M Matrix Interference
ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits	RL Reporting Limit
S Spike Recovery outside accepted recovery limits	U Analyte not detected	W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15111061
 16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: 17548

Sample ID: MB-17548	SampType: MBLK	TestCode: 6010_S_29B	Units: mg/Kg-dry	Prep Date: 12/3/2015	RunNo: 48934						
Client ID: PBS	Batch ID: 17548	TestNo: SW6010B	SW3050B	Analysis Date: 12/4/2015	SeqNo: 1194700						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	< 2.00	2.00									
Barium	< 1.00	1.00									
Cadmium	< 0.500	0.500									
Chromium	< 1.00	1.00									
Lead	< 1.00	1.00									
Selenium	< 2.00	2.00									
Strontium	< 1.00	1.00									
Zinc	< 1.00	1.00									

Sample ID: LCS-17548	SampType: LCS	TestCode: 6010_S_29B	Units: mg/Kg-dry	Prep Date: 12/3/2015	RunNo: 48934						
Client ID: LCSS	Batch ID: 17548	TestNo: SW6010B	SW3050B	Analysis Date: 12/4/2015	SeqNo: 1194701						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	49.5	2.00	50.00	0	99.0	80	120				
Barium	51.2	1.00	50.00	0	102	80	120				
Cadmium	48.6	0.500	50.00	0	97.2	80	120				
Chromium	50.6	1.00	50.00	0	101	80	120				
Lead	51.0	1.00	50.00	0	102	80	120				
Selenium	46.8	2.00	50.00	0	93.6	80	120				
Strontium	50.9	1.00	50.00	0	102	80	120				
Zinc	48.4	1.00	50.00	0	96.7	80	120				

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected	W	Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15111061
 16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: 17548

Sample ID:	LCSD-17548	SampType:	LCSD	TestCode:	6010_S_29B	Units:	mg/Kg-dry	Prep Date:	12/3/2015	RunNo:	48934
Client ID:	LCSS02	Batch ID:	17548	TestNo:	SW6010B	SW3050B		Analysis Date:	12/4/2015	SeqNo:	1194702
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	49.9	2.00	50.00	0	99.8	80	120	49.52	0.724	20	
Barium	51.6	1.00	50.00	0	103	80	120	51.18	0.895	20	
Cadmium	49.0	0.500	50.00	0	97.9	80	120	48.58	0.800	20	
Chromium	51.1	1.00	50.00	0	102	80	120	50.64	0.983	20	
Lead	51.1	1.00	50.00	0	102	80	120	51.04	0.137	20	
Selenium	46.9	2.00	50.00	0	93.8	80	120	46.81	0.235	20	
Strontium	51.2	1.00	50.00	0	102	80	120	50.86	0.627	20	
Zinc	48.8	1.00	50.00	0	97.7	80	120	48.37	0.987	20	

Sample ID:	15111064-001AMS	SampType:	MS	TestCode:	6010_S_29B	Units:	mg/Kg-dry	Prep Date:	12/3/2015	RunNo:	48934
Client ID:	ZZZZZ	Batch ID:	17548	TestNo:	SW6010B	SW3050B		Analysis Date:	12/4/2015	SeqNo:	1194702
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	59.0	1.99	49.87	6.795	105	75	125				
Barium	986	0.997	49.87	959.9	53.0	75	125				S
Cadmium	52.1	0.499	49.87	0.2993	104	75	125				
Chromium	65.1	0.997	49.87	11.00	109	75	125				
Lead	67.6	0.997	49.87	14.42	107	75	125				
Selenium	46.4	1.99	49.87	0	93.0	75	125				
Zinc	111	0.997	49.87	60.84	101	75	125				

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected	W	Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15111061
 16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: 17548

Sample ID: 15111064-001AMSD	SampType: MSD	TestCode: 6010_S_29B	Units: mg/Kg-dry	Prep Date: 12/3/2015	RunNo: 48934						
Client ID: ZZZZZZ	Batch ID: 17548	TestNo: SW6010B	SW3050B	Analysis Date: 12/4/2015	SeqNo: 1194708						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	57.8	2.00	49.91	6.795	102	75	125	59.03	2.08	20	
Barium	982	0.998	49.91	959.9	45.0	75	125	986.3	0.407	20	S
Cadmium	51.8	0.499	49.91	0.2993	103	75	125	52.08	0.583	20	
Chromium	64.8	0.998	49.91	11.00	108	75	125	65.13	0.437	20	
Lead	67.3	0.998	49.91	14.42	106	75	125	67.56	0.419	20	
Selenium	45.6	2.00	49.91	0	91.3	75	125	46.39	1.75	20	
Zinc	111	0.998	49.91	60.84	99.9	75	125	111.2	0.470	20	

NOTES:

S - Analyte concentration in native sample was too high for accurate spike recovery(ies). The method is in control as indicated by the laboratory control sample (LCS).

Sample ID: 15111064-001AMS	SampType: MS	TestCode: 6010_S_29B	Units: mg/Kg-dry	Prep Date: 12/3/2015	RunNo: 48934						
Client ID: ZZZZZZ	Batch ID: 17548	TestNo: SW6010B	SW3050B	Analysis Date: 12/4/2015	SeqNo: 1194712						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Strontium	134	9.97	49.87	79.82	110	75	125				

Sample ID: 15111064-001AMSD	SampType: MSD	TestCode: 6010_S_29B	Units: mg/Kg-dry	Prep Date: 12/3/2015	RunNo: 48934						
Client ID: ZZZZZZ	Batch ID: 17548	TestNo: SW6010B	SW3050B	Analysis Date: 12/4/2015	SeqNo: 1194713						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Strontium	133	9.98	49.91	79.82	107	75	125	134.5	0.824	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	H Holding times for preparation or analysis exceeded	M Matrix Interference
ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits	RL Reporting Limit
S Spike Recovery outside accepted recovery limits	U Analyte not detected	W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15111061
 16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: 17549

Sample ID: MB-17549	SampType: MBLK	TestCode: TTBA	Units: mg/Kg-dry	Prep Date: 12/3/2015	RunNo: 48955						
Client ID: PBS	Batch ID: 17549	TestNo: LDNR 29-B		Analysis Date: 12/4/2015	SeqNo: 1194989						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

True Total Barium < 50.0 50.0

Sample ID: LCS-17549	SampType: LCS	TestCode: TTBA	Units: mg/Kg-dry	Prep Date: 12/3/2015	RunNo: 48955						
Client ID: LCSS	Batch ID: 17549	TestNo: LDNR 29-B		Analysis Date: 12/4/2015	SeqNo: 1194990						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

True Total Barium 5,180 50.0 5,000 0 104 75 125

Sample ID: LCSD-17549	SampType: LCSD	TestCode: TTBA	Units: mg/Kg-dry	Prep Date: 12/3/2015	RunNo: 48955						
Client ID: LCSS02	Batch ID: 17549	TestNo: LDNR 29-B		Analysis Date: 12/4/2015	SeqNo: 1194991						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

True Total Barium 5,180 50.0 5,000 0 104 75 125 5,175 0.0966 20

Sample ID: 15111064-001AMS	SampType: MS	TestCode: TTBA	Units: mg/Kg-dry	Prep Date: 12/3/2015	RunNo: 48955						
Client ID: ZZZZZ	Batch ID: 17549	TestNo: LDNR 29-B		Analysis Date: 12/4/2015	SeqNo: 1194995						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

True Total Barium 7,160 49.3 4,931 1,500 115 75 125

Qualifiers: * Value exceeds Maximum Contaminant Level. H Holding times for preparation or analysis exceeded M Matrix Interference
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits RL Reporting Limit
 S Spike Recovery outside accepted recovery limits U Analyte not detected W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15111061
 16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: 17549

Sample ID: 15111064-001AMSD	SampType: MSD	TestCode: TTBA	Units: mg/Kg-dry	Prep Date: 12/3/2015	RunNo: 48955						
Client ID: ZZZZZZ	Batch ID: 17549	TestNo: LDNR 29-B		Analysis Date: 12/4/2015	SeqNo: 1194996						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

True Total Barium	7,270	49.3	4,931	1,500	117	75	125	7,165	1.50	20
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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected	W	Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15111061
 16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: 17569

Sample ID: 15111064-001ADUP	SampType: DUP	TestCode: SAR_S	Units:	Prep Date: 12/3/2015	RunNo: 48967						
Client ID: ZZZZZZ	Batch ID: 17569	TestNo: LDNR 29-B	LDNR 29-B	Analysis Date: 12/7/2015	SeqNo: 1195336						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium Adsorption Ratio	31.0	0.100						31.01	0.0639	20	*
Soluble Calcium	10.5	1.00						10.34	1.29	20	
Soluble Magnesium	26.5	1.00						26.20	1.31	20	
Soluble Sodium	133	1.00						132.5	0.589	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
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S	Spike Recovery outside accepted recovery limits	U	Analyte not detected	W	Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15111061
 16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: 17604

Sample ID: 15111064-001ADUP	SampType: dup	TestCode: ESP_S	Units: %	Prep Date: 12/3/2015	RunNo: 49035						
Client ID: ZZZZZZ	Batch ID: 17604	TestNo: LDNR 29-B	LDNR 29-B	Analysis Date: 12/9/2015	SeqNo: 1196844						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Exchangeable Sodium %	19.3	0.100						18.47	4.36	20	*

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
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S	Spike Recovery outside accepted recovery limits	U	Analyte not detected	W	Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15111061
 16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: 17605

Sample ID: 15111064-001ADUP	SampType: dup	TestCode: CEC	Units: meq/100g	Prep Date: 12/3/2015	RunNo: 49034						
Client ID: ZZZZZ	Batch ID: 17605	TestNo: LDNR 29-B	LDNR 29-B	Analysis Date: 12/9/2015	SeqNo: 1196826						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cation Exchange Capacity	54.2	0.100						58.08	6.83	20	

Sample ID: lcs-17605	SampType: lcs	TestCode: CEC	Units: meq/100g	Prep Date: 12/3/2015	RunNo: 49034						
Client ID: LCSS	Batch ID: 17605	TestNo: LDNR 29-B	LDNR 29-B	Analysis Date: 12/9/2015	SeqNo: 1196839						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cation Exchange Capacity	22.7	0.100	25.00	0	90.6	76	124				

Sample ID: lcsd-17605	SampType: lcsd	TestCode: CEC	Units: meq/100g	Prep Date: 12/3/2015	RunNo: 49034						
Client ID: LCSS02	Batch ID: 17605	TestNo: LDNR 29-B	LDNR 29-B	Analysis Date: 12/9/2015	SeqNo: 1196840						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cation Exchange Capacity	20.8	0.100	25.00	0	83.0	76	124	22.65	8.74	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
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S	Spike Recovery outside accepted recovery limits	U	Analyte not detected	W	Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15111061
 16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: 17610

Sample ID: 15111068-001ams	SampType: MS	TestCode: 9056_LEACH	Units: mg/L	Prep Date:	RunNo: 49067						
Client ID: ZZZZZ	Batch ID: 17610	TestNo: SW9056A	LDNR 29-B	Analysis Date: 12/10/2015	SeqNo: 1198094						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 1,430 25.0 500.0 975.4 90.5 80 120

Sample ID: 15111068-001amsd	SampType: MSD	TestCode: 9056_LEACH	Units: mg/L	Prep Date:	RunNo: 49067						
Client ID: ZZZZZ	Batch ID: 17610	TestNo: SW9056A	LDNR 29-B	Analysis Date: 12/10/2015	SeqNo: 1198095						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 1,430 25.0 500.0 975.4 90.9 80 120 1,428 0.123 15

Sample ID: mblk	SampType: MBLK	TestCode: 9056_LEACH	Units: mg/L	Prep Date:	RunNo: 49067						
Client ID: PBW	Batch ID: 17610	TestNo: SW9056A	LDNR 29-B	Analysis Date: 12/10/2015	SeqNo: 1198111						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride < 0.250 0.250

Sample ID: lcs	SampType: LCS	TestCode: 9056_LEACH	Units: mg/L	Prep Date:	RunNo: 49067						
Client ID: LCSW	Batch ID: 17610	TestNo: SW9056A	LDNR 29-B	Analysis Date: 12/10/2015	SeqNo: 1198112						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 9.71 0.250 10.00 0 97.1 80 120

Qualifiers: * Value exceeds Maximum Contaminant Level. H Holding times for preparation or analysis exceeded M Matrix Interference
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits RL Reporting Limit
 S Spike Recovery outside accepted recovery limits U Analyte not detected W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15111061
 16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: 17610

Sample ID: lcsd	SampType: LCSD	TestCode: 9056_LEACH	Units: mg/L	Prep Date:	RunNo: 49067						
Client ID: LCSS02	Batch ID: 17610	TestNo: SW9056A	LDNR 29-B	Analysis Date: 12/10/2015	SeqNo: 1198113						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	9.61	0.250	10.00	0	96.1	80	120	9.713	1.02	15	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
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S	Spike Recovery outside accepted recovery limits	U	Analyte not detected	W	Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15111061

16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: R48873

Sample ID: MB-R48873	SampType: MBLK	TestCode: HEM_S	Units: % dry wt	Prep Date:	RunNo: 48873						
Client ID: PBS	Batch ID: R48873	TestNo: SW9071B		Analysis Date: 12/3/2015	SeqNo: 1195259						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM, Oil & Grease	< 0.05	0.05									

Sample ID: LCS-R48873	SampType: LCS	TestCode: HEM_S	Units: % dry wt	Prep Date:	RunNo: 48873						
Client ID: LCSS	Batch ID: R48873	TestNo: SW9071B		Analysis Date: 12/3/2015	SeqNo: 1195260						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM, Oil & Grease	0.23	0.05	0.20	0	115	70	130				

Sample ID: LCSD-R48873	SampType: LCSD	TestCode: HEM_S	Units: % dry wt	Prep Date:	RunNo: 48873						
Client ID: LCSS02	Batch ID: R48873	TestNo: SW9071B		Analysis Date: 12/3/2015	SeqNo: 1195261						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM, Oil & Grease	0.23	0.05	0.20	0	115	70	130	0.23	0.22	40	

Sample ID: 15111027-004AMS	SampType: MS	TestCode: HEM_S	Units: % dry wt	Prep Date:	RunNo: 48873						
Client ID: ZZZZZ	Batch ID: R48873	TestNo: SW9071B		Analysis Date: 12/3/2015	SeqNo: 1195262						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM, Oil & Grease	0.54	0.05	0.25	0.21	133	70	130				S

NOTES:
 S - Spike recovery indicates matrix interference. The method is in control as indicated by the Lab Control Sample.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected	W	Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15111061

16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: R48873

Sample ID: 15111027-004ADUP	SampType: DUP	TestCode: HEM_S	Units: % dry wt	Prep Date:	RunNo: 48873						
Client ID: ZZZZZ	Batch ID: R48873	TestNo: SW9071B		Analysis Date: 12/3/2015	SeqNo: 1195263						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM, Oil & Grease	0.18	0.05						0.21	12.4	40	

Qualifiers:

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S	Spike Recovery outside accepted recovery limits	U	Analyte not detected	W	Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15111061
 16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: R48906

Sample ID: MBLK	SampType: MBLK	TestCode: 9056_S	Units: mg/Kg-dry	Prep Date:	RunNo: 48906						
Client ID: PBS	Batch ID: R48906	TestNo: SW9056A		Analysis Date: 12/4/2015	SeqNo: 1194431						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride < 0.250 0.250

Sample ID: LCS	SampType: LCS	TestCode: 9056_S	Units: mg/Kg-dry	Prep Date:	RunNo: 48906						
Client ID: LCSS	Batch ID: R48906	TestNo: SW9056A		Analysis Date: 12/4/2015	SeqNo: 1194432						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 10.0 0.250 10.00 0 100 80 120

Sample ID: LCSD	SampType: LCSD	TestCode: 9056_S	Units: mg/Kg-dry	Prep Date:	RunNo: 48906						
Client ID: LCSS02	Batch ID: R48906	TestNo: SW9056A		Analysis Date: 12/4/2015	SeqNo: 1194433						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 10.1 0.250 10.00 0 101 80 120 10.05 0.665 15

Sample ID: 15111061-002AMS	SampType: MS	TestCode: 9056_S	Units: mg/Kg-dry	Prep Date:	RunNo: 48906						
Client ID: TBB 1d (5-10')	Batch ID: R48906	TestNo: SW9056A		Analysis Date: 12/4/2015	SeqNo: 1194439						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride 2,590 33.3 666.5 2,021 85.8 80 120

Qualifiers: * Value exceeds Maximum Contaminant Level. H Holding times for preparation or analysis exceeded M Matrix Interference
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits RL Reporting Limit
 S Spike Recovery outside accepted recovery limits U Analyte not detected W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15111061

16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: R48906

Sample ID: 15111061-002AMSD	SampType: MSD	TestCode: 9056_S	Units: mg/Kg-dry	Prep Date:	RunNo: 48906						
Client ID: TBB 1d (5-10')	Batch ID: R48906	TestNo: SW9056A		Analysis Date: 12/4/2015	SeqNo: 1194440						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2,600	33.3	666.5	2,021	86.4	80	120	2,593	0.149	15	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected	W	Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15111061

16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: R48957

Sample ID: 15111064-001ADUP	SampType: dup	TestCode: PMOIST	Units: wt%	Prep Date:	RunNo: 48957						
Client ID: ZZZZZZ	Batch ID: R48957	TestNo: LDNR 29-B		Analysis Date: 11/30/2015	SeqNo: 1195049						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	55.0	1.00						57.59	4.55	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected	W	Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15111061
 16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: R49033

Sample ID: LCS-R49033	SampType: LCS	TestCode: PH_S	Units: S.U.	Prep Date:	RunNo: 49033						
Client ID: LCSS	Batch ID: R49033	TestNo: LDNR 29-B		Analysis Date: 12/9/2015	SeqNo: 1196806						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

pH Measurement 7.07 1.68 7.00 0 101 97.14 102.86

Sample ID: 15111066-002ADUP	SampType: DUP	TestCode: PH_S	Units: S.U.	Prep Date:	RunNo: 49033						
Client ID: ZZZZZ	Batch ID: R49033	TestNo: LDNR 29-B		Analysis Date: 12/9/2015	SeqNo: 1196811						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

pH Measurement 7.19 1.68 7.15 0.56 20

Qualifiers: * Value exceeds Maximum Contaminant Level. H Holding times for preparation or analysis exceeded M Matrix Interference
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits RL Reporting Limit
 S Spike Recovery outside accepted recovery limits U Analyte not detected W Sample container temperature is out of limit as sf



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QC SUMMARY REPORT

WO#: 15111061

16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: R49056

Sample ID: MB-R49056	SampType: MBLK	TestCode: EC_S	Units: mmhos/cm	Prep Date:	RunNo: 49056						
Client ID: PBS	Batch ID: R49056	TestNo: LDNR 29-B		Analysis Date: 12/10/2015	SeqNo: 1197297						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Electrical Conductivity < 0.10 0.10

Sample ID: R49056LCS1	SampType: LCS1	TestCode: EC_S	Units: mmhos/cm	Prep Date:	RunNo: 49056						
Client ID: ZZZZZ	Batch ID: R49056	TestNo: LDNR 29-B		Analysis Date: 12/10/2015	SeqNo: 1197298						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Electrical Conductivity 0.38 0.10 0.36 0 108 89.9 110.08

Sample ID: R49056LCS2	SampType: LCS2	TestCode: EC_S	Units: mmhos/cm	Prep Date:	RunNo: 49056						
Client ID: ZZZZZ	Batch ID: R49056	TestNo: LDNR 29-B		Analysis Date: 12/10/2015	SeqNo: 1197299						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Electrical Conductivity 56.7 0.10 53.00 0 107 90 110

Sample ID: 15111064-001ADUP	SampType: DUP	TestCode: EC_S	Units: mmhos/cm	Prep Date:	RunNo: 49056						
Client ID: ZZZZZ	Batch ID: R49056	TestNo: LDNR 29-B		Analysis Date: 12/10/2015	SeqNo: 1197303						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Electrical Conductivity 16.9 0.10 17.62 3.94 20 *

Qualifiers: * Value exceeds Maximum Contaminant Level. H Holding times for preparation or analysis exceeded M Matrix Interference
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits RL Reporting Limit
 S Spike Recovery outside accepted recovery limits U Analyte not detected W Sample container temperature is out of limit as sf



Element Materials Technology Lafayette
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 TEL: (337) 235-0483 FAX: (337) 233-6540
 Website: www.element.com

QC SUMMARY REPORT

WO#: 15111061
 16-Dec-15

Client: ICON Environmental Services
Project: VPSB East WhiteLake/9077-041-0100

BatchID: R49056

Sample ID: 15120004-001ADUP	SampType: DUP	TestCode: EC_S	Units: mmhos/cm	Prep Date:	RunNo: 49056						
Client ID: ZZZZZZ	Batch ID: R49056	TestNo: LDNR 29-B		Analysis Date: 12/10/2015	SeqNo: 1197319						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Electrical Conductivity	0.81	0.10						0.80	1.12	20	
-------------------------	------	------	--	--	--	--	--	------	------	----	--

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected	W	Sample container temperature is out of limit as sf



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Sample Log-In Check List

Client Name: **ICON_ENV**

Work Order Number: **15111061**

RcptNo: **1**

Logged by:	Tammy Thibodeaux	11/25/2015 2:55:00 PM	<i>Tammy Thibodeaux</i>
Completed By:	Tammy Thibodeaux	11/25/2015 4:09:29 PM	<i>Tammy Thibodeaux</i>
Reviewed By:	Caitlin Duplantis	12/1/2015 11:45:50 AM	<i>Caitlin Duplantis</i>

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
 Custody seals intact on shipping container/cooler? Yes No Not Present
- No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes No NA
6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
7. Sample(s) in proper container(s)? Yes No
8. Sufficient sample volume for indicated test(s)? Yes No
9. Are samples (except VOA and ONG) properly preserved? Yes No
10. Was preservative added to bottles? Yes No NA
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
12. Were any sample containers received broken? Yes No
13. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes No
15. Is it clear what analyses were requested? Yes No
16. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text" value="Grea Miller"/>	Date:	<input type="text" value="12/1/2015"/>
By Whom:	<input type="text" value="Caitlin Duplantis"/>	Via:	<input type="checkbox"/> eMail <input checked="" type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text" value="Please add soluble chloride testing to both samples."/>		

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.6	Good	Not Present			



Chain of Custody

Laboratory Number: **1511061**

Client Information:
 Company Name: **ICON**
 Contact Name: **Greg Miller**
 Address: **2049 Cambridge Ln Dr.**
 City, State Zip: **Bethel, LA 70107**
 Phone Number: **225-344-8490**
 Fax Number:
 E-mail Address:

Billing Information:
 PO Number:
 Quote Number:
 Required QC Level:
 Bill Monthly: Yes No

Project Name/Number: **0177-041-0100**
Matrix Code:
 DW = Drinking Water
 WW = Waste Water
 GW = Ground Water
 AG = Aqueous
 OT = Other
 SL = Sludge
 SO = Soil
 O = Oil
 F = Food
 NG = Natural Gas
 NGL = Natural Gas Liquid
 PW = Produced Water
 CF = Completion Fluid

Shipping Method:
 UPS / FedEx / NOW
 DHL / Element / Mail

Sampler's Signature: *[Signature]*

Sample ID/Description	Turn Time		Rush turn times will incur a surcharge and must be pre-approved by (lab.)	Container		Pres.	Requested Tests	Comments
	Date	Time		Type	Quantity			
TBB-1d (5-5)	11/25/15	1040	GRAB	SL	3	none	X X 29B (EC) X X 29B (ESP) X X 29B (SAR) X X 29B (Metals)	X X HEM-D X X TPH-D X X Lead/Cd X X PH X X Drinking X X LFC
TBB-1d (5-10)	11/25/15	1045	GRAB	SL	4	none	X X 29B (EC) X X 29B (ESP) X X 29B (SAR) X X 29B (Metals)	X X HEM-D X X TPH-D X X Lead/Cd X X PH X X Drinking X X LFC

Relinquished by: *[Signature]* **Date/Time:** 11/25/15 1455

Received by: *[Signature]* **Date/Time:** 11/25-15 1455

Field Notes: *For everything by weight*
 Received at lab on 10/27/15
 Yes No Temp: 4.6°C

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

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 Odenton, IN
 47334-0968 USA
 P 765-376-4163
 F 765-376-4109

625 Washington St, Suite 300
 Columbus, IN
 47201-6231 USA
 P 317-375-0331
 F 317-375-0731

908 Executive Dr
 Warsaw, IN
 46580-2568 USA
 P 574-257-3335
 F 574-269-6969

3271 Cleveland Road, Suite 100A
 South Bend, IN
 46626-9780 USA
 P 574-277-0707
 F 574-279-0698

2417 W. Fishback Rd
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 70508-3344 USA
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 F 337-233-6540



Element Materials Technology Lafayette
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November 30, 2015

Greg Miller
ICON Environmental Services
2049 Commercial Drive
Port Allen, LA 70767
TEL: (225) 344-8490
FAX (225) 344-6654

RE: East White Lake 9077-041-0800

Order No.: 15110727

Dear Greg Miller:

Element Materials Technology Lafayette received 9 sample(s) on 11/17/2015 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

All soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as –dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261-14-6. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

A handwritten signature in blue ink, appearing to read 'Cristina Thibeaux', is written over a light blue horizontal line.

Cristina Thibeaux
Customer Service Supervisor
2417 W. Pinhook Road
Lafayette, LA 70508-3344



Element Materials Technology Lafayette
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Case Narrative

WO#: 15110727
Date: 11/30/2015

CLIENT: ICON Environmental Services
Project: East White Lake 9077-041-0800

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).



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Analytical Report

(consolidated)

WO#: 15110727

Date Reported: 11/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/16/2015 12:25:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15110727-001 **Matrix:** SOIL
Client Sample ID SS-21 (0-2')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	71.1	0.100		meq/100g	1	11/25/2015 1:05:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	18.7	0.10	*	mmhos/cm	1	11/24/2015 2:28:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	12.6	0.100		%	1	11/25/2015 1:05:00 PM
HEM, OIL & GREASE						
SW9071B						
HEM, Oil & Grease	1.23	0.05	*	% dry wt	1	11/24/2015 7:00:00 AM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	36.3	0.100	*		1	11/24/2015
Soluble Calcium	13.6	1.00		meq/L	1	11/24/2015
Soluble Magnesium	22.1	1.00		meq/L	1	11/24/2015
Soluble Sodium	153	1.00		meq/L	1	11/24/2015
TPH-D/O IN SOIL BY SW8015						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	1,130	100		mg/Kg	10	11/20/2015 6:21:00 PM
TPH (Oil Range)	473	100		mg/Kg	10	11/20/2015 6:21:00 PM
Surr: 4-Terphenyl-d14	62.6	33 - 152		%REC	10	11/20/2015 6:21:00 PM
29B METALS						
MERCURY IN SOIL OR SLUDGE						
Mercury	0.29	0.10		mg/Kg-dry	1	11/24/2015 6:23:36 AM
29B METALS						
METALS IN SOIL OR SLUDGE BY ICP						
SW6010B SW3050B						
Analyst: STS						

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
	M	Matrix Interference	ND	Not Detected at the Reporting Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

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WO#: 15110727

Date Reported: 11/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/16/2015 12:25:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15110727-001 **Matrix:** SOIL
Client Sample ID SS-21 (0-2')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B
METALS IN SOIL OR SLUDGE BY ICP						Analyst: STS
Arsenic	6.71	1.99		mg/Kg-dry	1	11/25/2015 2:16:05 AM
Barium	460	0.997		mg/Kg-dry	1	11/25/2015 2:16:05 AM
Cadmium	< 0.498	0.498		mg/Kg-dry	1	11/25/2015 2:16:05 AM
Chromium	14.1	0.997		mg/Kg-dry	1	11/25/2015 2:16:05 AM
Lead	21.7	0.997		mg/Kg-dry	1	11/25/2015 2:16:05 AM
Selenium	< 1.99	1.99		mg/Kg-dry	1	11/25/2015 2:16:05 AM
Silver	< 0.498	0.498		mg/Kg-dry	1	11/25/2015 2:16:05 AM
Zinc	62.5	0.997		mg/Kg-dry	1	11/25/2015 2:16:05 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	699	46.3		mg/Kg-dry	1	11/25/2015 7:14:04 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	64.6	1.00		wt%	1	11/17/2015 2:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15110727

Date Reported: 11/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/16/2015 12:30:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15110727-002 **Matrix:** SOIL
Client Sample ID SS-21 (2-4')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS					LDNR 29-B	LDNR 29-B Analyst: MMT
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	114	0.100		meq/100g	1	11/25/2015 1:05:00 PM
29B SALTS					LDNR 29-B	Analyst: MRM
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	93.5	0.10	*	mmhos/cm	1	11/24/2015 2:28:00 PM
29B SALTS					LDNR 29-B	LDNR 29-B Analyst: MMT
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	2.69	0.100		%	1	11/25/2015 1:05:00 PM
HEM, OIL & GREASE					SW9071B	Analyst: MMT
HEM, Oil & Grease	0.78	0.05		% dry wt	1	11/24/2015 7:00:00 AM
29B SALTS					LDNR 29-B	LDNR 29-B Analyst: STS
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	100	0.100	*		1	11/24/2015
Soluble Calcium	85.3	1.00		meq/L	1	11/24/2015
Soluble Magnesium	84.7	1.00		meq/L	1	11/24/2015
Soluble Sodium	926	1.00		meq/L	1	11/24/2015
TPH-D/O IN SOIL BY SW8015					SW8015B	SW3550C Analyst: KKD
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	133	10.0		mg/Kg	1	11/20/2015 6:53:00 PM
TPH (Oil Range)	79.3	10.0		mg/Kg	1	11/20/2015 6:53:00 PM
Surr: 4-Terphenyl-d14	81.6	33 - 152		%REC	1	11/20/2015 6:53:00 PM
29B METALS					29B/SW7471A	SW7471A Analyst: BAS
MERCURY IN SOIL OR SLUDGE						
Mercury	< 0.11	0.11		mg/Kg-dry	1	11/24/2015 6:31:34 AM
29B METALS					SW6010B	SW3050B Analyst: STS
METALS IN SOIL OR SLUDGE BY ICP						

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
	M	Matrix Interference	ND	Not Detected at the Reporting Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15110727

Date Reported: 11/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/16/2015 12:30:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15110727-002 **Matrix:** SOIL
Client Sample ID SS-21 (2-4')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B Analyst: STS
METALS IN SOIL OR SLUDGE BY ICP						
Arsenic	11.8	1.99	*	mg/Kg-dry	1	11/25/2015 2:32:32 AM
Barium	420	0.996		mg/Kg-dry	1	11/25/2015 2:32:32 AM
Cadmium	< 0.498	0.498		mg/Kg-dry	1	11/25/2015 2:32:32 AM
Chromium	6.74	0.996		mg/Kg-dry	1	11/25/2015 2:32:32 AM
Lead	6.75	0.996		mg/Kg-dry	1	11/25/2015 2:32:32 AM
Selenium	< 1.99	1.99		mg/Kg-dry	1	11/25/2015 2:32:32 AM
Silver	< 0.498	0.498		mg/Kg-dry	1	11/25/2015 2:32:32 AM
Zinc	23.0	0.996		mg/Kg-dry	1	11/25/2015 2:32:32 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	557	47.8		mg/Kg-dry	1	11/25/2015 7:18:33 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	85.6	1.00		wt%	1	11/17/2015 2:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15110727

Date Reported: 11/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/16/2015 1:05:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15110727-003 **Matrix:** SOIL
Client Sample ID SS-23 (0-2')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS					LDNR 29-B	LDNR 29-B Analyst: MMT
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	66.7	0.100		meq/100g	1	11/25/2015 1:05:00 PM
29B SALTS					LDNR 29-B	Analyst: MRM
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	9.26	0.10	*	mmhos/cm	1	11/24/2015 2:28:00 PM
29B SALTS					LDNR 29-B	LDNR 29-B Analyst: MMT
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	12.6	0.100		%	1	11/25/2015 1:05:00 PM
HEM, OIL & GREASE					SW9071B	Analyst: MMT
HEM, Oil & Grease	0.13	0.05		% dry wt	1	11/24/2015 7:00:00 AM
29B SALTS					LDNR 29-B	LDNR 29-B Analyst: STS
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	20.6	0.100	*		1	11/24/2015
Soluble Calcium	6.36	1.00		meq/L	1	11/24/2015
Soluble Magnesium	12.7	1.00		meq/L	1	11/24/2015
Soluble Sodium	63.6	1.00		meq/L	1	11/24/2015
TPH-D/O IN SOIL BY SW8015					SW8015B	SW3550C Analyst: KKD
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	63.7	10.0		mg/Kg	1	11/20/2015 2:26:00 PM
TPH (Oil Range)	79.1	10.0		mg/Kg	1	11/20/2015 2:26:00 PM
Surr: 4-Terphenyl-d14	77.5	33 - 152		%REC	1	11/20/2015 2:26:00 PM
29B METALS					29B/SW7471A	SW7471A Analyst: BAS
MERCURY IN SOIL OR SLUDGE						
Mercury	< 0.10	0.10		mg/Kg-dry	1	11/24/2015 6:34:12 AM
29B METALS					SW6010B	SW3050B Analyst: STS
METALS IN SOIL OR SLUDGE BY ICP						

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
	M	Matrix Interference	ND	Not Detected at the Reporting Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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 Website: www.element.com

Analytical Report

(consolidated)

WO#: 15110727

Date Reported: 11/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/16/2015 1:05:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15110727-003 **Matrix:** SOIL
Client Sample ID SS-23 (0-2')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B Analyst: STS
METALS IN SOIL OR SLUDGE BY ICP						
Arsenic	4.67	1.99		mg/Kg-dry	1	11/25/2015 2:37:43 AM
Barium	255	0.997		mg/Kg-dry	1	11/25/2015 2:37:43 AM
Cadmium	< 0.499	0.499		mg/Kg-dry	1	11/25/2015 2:37:43 AM
Chromium	14.0	0.997		mg/Kg-dry	1	11/25/2015 2:37:43 AM
Lead	17.2	0.997		mg/Kg-dry	1	11/25/2015 2:37:43 AM
Selenium	< 1.99	1.99		mg/Kg-dry	1	11/25/2015 2:37:43 AM
Silver	< 0.499	0.499		mg/Kg-dry	1	11/25/2015 2:37:43 AM
Zinc	86.9	0.997		mg/Kg-dry	1	11/25/2015 2:37:43 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	367	48.0		mg/Kg-dry	1	11/25/2015 7:23:01 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	54.5	1.00		wt%	1	11/17/2015 2:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

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WO#: 15110727

Date Reported: 11/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/16/2015 1:10:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15110727-004 **Matrix:** SOIL
Client Sample ID SS-23 (2-4')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	114	0.100		meq/100g	1	11/25/2015 1:05:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	29.9	0.10	*	mmhos/cm	1	11/24/2015 2:28:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	9.67	0.100		%	1	11/25/2015 1:05:00 PM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	27.6	0.100	*		1	11/24/2015
Soluble Calcium	32.4	1.00		meq/L	1	11/24/2015
Soluble Magnesium	65.4	1.00		meq/L	1	11/24/2015
Soluble Sodium	193	1.00		meq/L	1	11/24/2015
29B METALS						
MERCURY IN SOIL OR SLUDGE						
Mercury	0.11	0.10		mg/Kg-dry	1	11/24/2015 6:36:33 AM
29B METALS						
METALS IN SOIL OR SLUDGE BY ICP						
Arsenic	10.0	2.00	*	mg/Kg-dry	1	11/25/2015 2:52:11 AM
Barium	262	0.998		mg/Kg-dry	1	11/25/2015 2:52:11 AM
Cadmium	< 0.499	0.499		mg/Kg-dry	1	11/25/2015 2:52:11 AM
Chromium	10.1	0.998		mg/Kg-dry	1	11/25/2015 2:52:11 AM
Lead	10.1	0.998		mg/Kg-dry	1	11/25/2015 2:52:11 AM
Selenium	< 2.00	2.00		mg/Kg-dry	1	11/25/2015 2:52:11 AM
Silver	< 0.499	0.499		mg/Kg-dry	1	11/25/2015 2:52:11 AM
Zinc	36.1	0.998		mg/Kg-dry	1	11/25/2015 2:52:11 AM
29B METALS						
TRUE TOTAL BARIUM						

Qualifiers:			
*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



Element Materials Technology Lafayette
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Analytical Report

(consolidated)

WO#: 15110727

Date Reported: 11/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/16/2015 1:10:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15110727-004 **Matrix:** SOIL
Client Sample ID SS-23 (2-4')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS						Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	385	49.0		mg/Kg-dry	1	11/25/2015 7:27:30 AM
PERCENT MOISTURE						Analyst: MMT
Percent Moisture	80.7	1.00		wt%	1	11/17/2015 2:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15110727

Date Reported: 11/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/16/2015 2:00:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15110727-005 **Matrix:** SOIL
Client Sample ID SS-24 (0-2')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	74.2	0.100		meq/100g	1	11/25/2015 1:05:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	7.32	0.10	*	mmhos/cm	1	11/24/2015 2:28:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	5.96	0.100		%	1	11/25/2015 1:05:00 PM
HEM, OIL & GREASE						
SW9071B						
HEM, Oil & Grease	0.40	0.05		% dry wt	1	11/24/2015 7:00:00 AM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	11.6	0.100			1	11/24/2015
Soluble Calcium	8.13	1.00		meq/L	1	11/24/2015
Soluble Magnesium	19.2	1.00		meq/L	1	11/24/2015
Soluble Sodium	42.8	1.00		meq/L	1	11/24/2015
TPH-D/O IN SOIL BY SW8015						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	361	50.0		mg/Kg	5	11/20/2015 6:37:00 PM
TPH (Oil Range)	129	10.0		mg/Kg	1	11/20/2015 2:42:00 PM
Surr: 4-Terphenyl-d14	86.7	33 - 152		%REC	1	11/20/2015 2:42:00 PM
29B METALS						
MERCURY IN SOIL OR SLUDGE						
Mercury	0.10	0.10		mg/Kg-dry	1	11/24/2015 6:39:11 AM
29B METALS						
METALS IN SOIL OR SLUDGE BY ICP						
SW6010B SW3050B						
Analyst: STS						

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

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WO#: 15110727

Date Reported: 11/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/16/2015 2:00:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15110727-005 **Matrix:** SOIL
Client Sample ID SS-24 (0-2')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B Analyst: STS
METALS IN SOIL OR SLUDGE BY ICP						
Arsenic	7.29	2.00		mg/Kg-dry	1	11/25/2015 2:58:06 AM
Barium	151	0.999		mg/Kg-dry	1	11/25/2015 2:58:06 AM
Cadmium	< 0.499	0.499		mg/Kg-dry	1	11/25/2015 2:58:06 AM
Chromium	14.7	0.999		mg/Kg-dry	1	11/25/2015 2:58:06 AM
Lead	16.1	0.999		mg/Kg-dry	1	11/25/2015 2:58:06 AM
Selenium	< 2.00	2.00		mg/Kg-dry	1	11/25/2015 2:58:06 AM
Silver	< 0.499	0.499		mg/Kg-dry	1	11/25/2015 2:58:06 AM
Zinc	62.4	0.999		mg/Kg-dry	1	11/25/2015 2:58:06 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	267	47.9		mg/Kg-dry	1	11/25/2015 7:31:58 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	63.7	1.00		wt%	1	11/17/2015 2:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

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WO#: 15110727

Date Reported: 11/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/16/2015 2:05:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15110727-006 **Matrix:** SOIL
Client Sample ID SS-24 (2-4')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS					LDNR 29-B	LDNR 29-B Analyst: MMT
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	122	0.100		meq/100g	1	11/25/2015 1:05:00 PM
29B SALTS					LDNR 29-B	Analyst: MRM
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	16.9	0.10	*	mmhos/cm	1	11/24/2015 2:28:00 PM
29B SALTS					LDNR 29-B	LDNR 29-B Analyst: MMT
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	5.66	0.100		%	1	11/25/2015 1:05:00 PM
HEM, OIL & GREASE					SW9071B	Analyst: MMT
HEM, Oil & Grease	0.43	0.05		% dry wt	1	11/24/2015 7:00:00 AM
29B SALTS					LDNR 29-B	LDNR 29-B Analyst: STS
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	17.4	0.100	*		1	11/24/2015
Soluble Calcium	18.8	1.00		meq/L	1	11/24/2015
Soluble Magnesium	41.7	1.00		meq/L	1	11/24/2015
Soluble Sodium	95.6	1.00		meq/L	1	11/24/2015
TPH-D/O IN SOIL BY SW8015					SW8015B	SW3550C Analyst: KKD
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	27.8	10.0		mg/Kg	1	11/20/2015 7:08:00 PM
TPH (Oil Range)	32.4	10.0		mg/Kg	1	11/20/2015 2:57:00 PM
Surr: 4-Terphenyl-d14	77.7	33 - 152		%REC	1	11/20/2015 2:57:00 PM
29B METALS					29B/SW7471A	SW7471A Analyst: BAS
MERCURY IN SOIL OR SLUDGE						
Mercury	< 0.09	0.09		mg/Kg-dry	1	11/24/2015 6:46:47 AM
29B METALS					SW6010B	SW3050B Analyst: STS
METALS IN SOIL OR SLUDGE BY ICP						

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
	M	Matrix Interference	ND	Not Detected at the Reporting Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

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WO#: 15110727

Date Reported: 11/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/16/2015 2:05:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15110727-006 **Matrix:** SOIL
Client Sample ID SS-24 (2-4')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B Analyst: STS
METALS IN SOIL OR SLUDGE BY ICP						
Arsenic	11.6	1.99	*	mg/Kg-dry	1	11/25/2015 3:03:28 AM
Barium	252	0.995		mg/Kg-dry	1	11/25/2015 3:03:28 AM
Cadmium	< 0.498	0.498		mg/Kg-dry	1	11/25/2015 3:03:28 AM
Chromium	9.10	0.995		mg/Kg-dry	1	11/25/2015 3:03:28 AM
Lead	8.73	0.995		mg/Kg-dry	1	11/25/2015 3:03:28 AM
Selenium	< 1.99	1.99		mg/Kg-dry	1	11/25/2015 3:03:28 AM
Silver	< 0.498	0.498		mg/Kg-dry	1	11/25/2015 3:03:28 AM
Zinc	23.8	0.995		mg/Kg-dry	1	11/25/2015 3:03:28 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	317	46.7		mg/Kg-dry	1	11/25/2015 7:36:27 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	84.3	1.00		wt%	1	11/17/2015 2:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

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WO#: 15110727

Date Reported: 11/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/16/2015 3:50:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15110727-007 **Matrix:** SOIL
Client Sample ID SS-25 (0-2')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	59.6	0.100		meq/100g	1	11/25/2015 1:05:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	8.25	0.10	*	mmhos/cm	1	11/24/2015 2:28:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	7.00	0.100		%	1	11/25/2015 1:05:00 PM
HEM, OIL & GREASE						
SW9071B						
HEM, Oil & Grease	0.13	0.05		% dry wt	1	11/24/2015 7:00:00 AM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	14.2	0.100	*		1	11/24/2015
Soluble Calcium	6.62	1.00		meq/L	1	11/24/2015
Soluble Magnesium	18.5	1.00		meq/L	1	11/24/2015
Soluble Sodium	50.3	1.00		meq/L	1	11/24/2015
TPH-D/O IN SOIL BY SW8015						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	73.7	10.0		mg/Kg	1	11/20/2015 3:13:00 PM
TPH (Oil Range)	52.9	10.0		mg/Kg	1	11/20/2015 3:13:00 PM
Surr: 4-Terphenyl-d14	76.3	33 - 152		%REC	1	11/20/2015 3:13:00 PM
29B METALS						
MERCURY IN SOIL OR SLUDGE						
Mercury	< 0.10	0.10		mg/Kg-dry	1	11/24/2015 6:49:08 AM
29B METALS						
METALS IN SOIL OR SLUDGE BY ICP						
SW6010B SW3050B						
Analyst: STS						

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15110727

Date Reported: 11/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/16/2015 3:50:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15110727-007 **Matrix:** SOIL
Client Sample ID SS-25 (0-2')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B
METALS IN SOIL OR SLUDGE BY ICP						Analyst: STS
Arsenic	7.38	1.99		mg/Kg-dry	1	11/25/2015 3:09:05 AM
Barium	425	0.997		mg/Kg-dry	1	11/25/2015 3:09:05 AM
Cadmium	< 0.498	0.498		mg/Kg-dry	1	11/25/2015 3:09:05 AM
Chromium	15.5	0.997		mg/Kg-dry	1	11/25/2015 3:09:05 AM
Lead	19.3	0.997		mg/Kg-dry	1	11/25/2015 3:09:05 AM
Selenium	< 1.99	1.99		mg/Kg-dry	1	11/25/2015 3:09:05 AM
Silver	< 0.498	0.498		mg/Kg-dry	1	11/25/2015 3:09:05 AM
Zinc	57.4	0.997		mg/Kg-dry	1	11/25/2015 3:09:05 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	573	46.4		mg/Kg-dry	1	11/25/2015 7:50:01 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	67.3	1.00		wt%	1	11/17/2015 2:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15110727

Date Reported: 11/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/16/2015 3:55:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15110727-008 **Matrix:** SOIL
Client Sample ID SS-25 (2-4')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	57.4	0.100		meq/100g	1	11/25/2015 1:05:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	10.8	0.10	*	mmhos/cm	1	11/24/2015 2:28:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	6.46	0.100		%	1	11/25/2015 1:05:00 PM
HEM, OIL & GREASE						
SW9071B						
HEM, Oil & Grease	0.52	0.05		% dry wt	1	11/24/2015 7:00:00 AM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	18.0	0.100	*		1	11/24/2015
Soluble Calcium	9.32	1.00		meq/L	1	11/24/2015
Soluble Magnesium	18.4	1.00		meq/L	1	11/24/2015
Soluble Sodium	66.9	1.00		meq/L	1	11/24/2015
TPH-D/O IN SOIL BY SW8015						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	313	20.0		mg/Kg	2	11/23/2015 11:32:00 AM
TPH (Oil Range)	126	10.0		mg/Kg	1	11/20/2015 3:29:00 PM
Surr: 4-Terphenyl-d14	71.5	33 - 152		%REC	1	11/20/2015 3:29:00 PM
29B METALS						
MERCURY IN SOIL OR SLUDGE						
Mercury	0.27	0.10		mg/Kg-dry	1	11/24/2015 6:51:46 AM
29B METALS						
METALS IN SOIL OR SLUDGE BY ICP						
SW6010B SW3050B						
Analyst: STS						

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15110727

Date Reported: 11/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/16/2015 3:55:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15110727-008 **Matrix:** SOIL
Client Sample ID SS-25 (2-4')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B
METALS IN SOIL OR SLUDGE BY ICP						Analyst: STS
Arsenic	6.42	2.00		mg/Kg-dry	1	11/25/2015 3:14:48 AM
Barium	692	0.999		mg/Kg-dry	1	11/25/2015 3:14:48 AM
Cadmium	< 0.500	0.500		mg/Kg-dry	1	11/25/2015 3:14:48 AM
Chromium	14.0	0.999		mg/Kg-dry	1	11/25/2015 3:14:48 AM
Lead	20.5	0.999		mg/Kg-dry	1	11/25/2015 3:14:48 AM
Selenium	< 2.00	2.00		mg/Kg-dry	1	11/25/2015 3:14:48 AM
Silver	< 0.500	0.500		mg/Kg-dry	1	11/25/2015 3:14:48 AM
Zinc	57.7	0.999		mg/Kg-dry	1	11/25/2015 3:14:48 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	916	46.1		mg/Kg-dry	1	11/25/2015 7:54:28 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	63.3	1.00		wt%	1	11/17/2015 2:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15110727

Date Reported: 11/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/16/2015 4:00:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15110727-009 **Matrix:** SOIL
Client Sample ID SS-25 (4-6')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	62.0	0.100		meq/100g	1	11/25/2015 1:05:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	12.3	0.10	*	mmhos/cm	1	11/24/2015 2:28:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	9.18	0.100		%	1	11/25/2015 1:05:00 PM
HEM, OIL & GREASE						
SW9071B						
HEM, Oil & Grease	0.44	0.05		% dry wt	1	11/24/2015 7:00:00 AM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	20.5	0.100	*		1	11/24/2015
Soluble Calcium	12.5	1.00		meq/L	1	11/24/2015
Soluble Magnesium	19.9	1.00		meq/L	1	11/24/2015
Soluble Sodium	82.7	1.00		meq/L	1	11/24/2015
TPH-D/O IN SOIL BY SW8015						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	437	50.0		mg/Kg	5	11/23/2015 11:17:00 AM
TPH (Oil Range)	179	10.0		mg/Kg	1	11/20/2015 3:45:00 PM
Surr: 4-Terphenyl-d14	88.0	33 - 152		%REC	1	11/20/2015 3:45:00 PM
29B METALS						
MERCURY IN SOIL OR SLUDGE						
Mercury	0.19	0.10		mg/Kg-dry	1	11/24/2015 6:54:26 AM
29B METALS						
METALS IN SOIL OR SLUDGE BY ICP						
SW6010B SW3050B						
Analyst: STS						

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
	M	Matrix Interference	ND	Not Detected at the Reporting Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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 Website: www.element.com

Analytical Report

(consolidated)

WO#: 15110727

Date Reported: 11/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/16/2015 4:00:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15110727-009 **Matrix:** SOIL
Client Sample ID SS-25 (4-6')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B Analyst: STS
METALS IN SOIL OR SLUDGE BY ICP						
Arsenic	8.00	2.00		mg/Kg-dry	1	11/25/2015 3:20:09 AM
Barium	460	0.999		mg/Kg-dry	1	11/25/2015 3:20:09 AM
Cadmium	< 0.500	0.500		mg/Kg-dry	1	11/25/2015 3:20:09 AM
Chromium	15.1	0.999		mg/Kg-dry	1	11/25/2015 3:20:09 AM
Lead	19.0	0.999		mg/Kg-dry	1	11/25/2015 3:20:09 AM
Selenium	< 2.00	2.00		mg/Kg-dry	1	11/25/2015 3:20:09 AM
Silver	< 0.500	0.500		mg/Kg-dry	1	11/25/2015 3:20:09 AM
Zinc	57.8	0.999		mg/Kg-dry	1	11/25/2015 3:20:09 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	719	49.2		mg/Kg-dry	1	11/25/2015 7:58:56 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	61.5	1.00		wt%	1	11/17/2015 2:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
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QC SUMMARY REPORT

WO#: 15110727
 30-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17426

Sample ID	LCS-D17426	SampType: LCS	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/19/2015	RunNo: 48678					
Client ID:	LCSS	Batch ID: 17426	TestNo: SW8015B	SW3550C	Analysis Date: 11/20/2015	SeqNo: 1189070					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel Range)	86.1	10.0	100.0	0	86.1	63.4	109				
Surr: 4-Terphenyl-d14	2.69		3.330		80.8	33	152				

Sample ID	LCSD-D17426	SampType: LCSD	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/19/2015	RunNo: 48678					
Client ID:	LCSS02	Batch ID: 17426	TestNo: SW8015B	SW3550C	Analysis Date: 11/20/2015	SeqNo: 1189071					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel Range)	93.5	10.0	100.0	0	93.5	63.4	109	86.13	8.15	17.2	
Surr: 4-Terphenyl-d14	3.46		3.330		104	33	152		0	40	

Sample ID	LCSD-M17426	SampType: LCSD	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/19/2015	RunNo: 48678					
Client ID:	LCSS02	Batch ID: 17426	TestNo: SW8015B	SW3550C	Analysis Date: 11/20/2015	SeqNo: 1189072					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Oil Range)	89.0	10.0	100.0	0	89.0	63.9	120	87.19	2.08	16.6	
Surr: 4-Terphenyl-d14	3.04		3.330		91.3	33	152		0	40	

Sample ID	LCS-M17426	SampType: LCS	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/19/2015	RunNo: 48678					
Client ID:	LCSS	Batch ID: 17426	TestNo: SW8015B	SW3550C	Analysis Date: 11/20/2015	SeqNo: 1189073					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Oil Range)	87.2	10.0	100.0	0	87.2	63.9	120				

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 15110727
 30-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17426

Sample ID	LCS-M17426	SampType:	LCS	TestCode:	8015_DO_S	Units:	mg/Kg	Prep Date:	11/19/2015	RunNo:	48678			
Client ID:	LCSS	Batch ID:	17426	TestNo:	SW8015B		SW3550C	Analysis Date:	11/20/2015	SeqNo:	1189073			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14		3.05			3.330			91.5	33	152				

Sample ID	MB-17426	SampType:	MBLK	TestCode:	8015_DO_S	Units:	mg/Kg	Prep Date:	11/19/2015	RunNo:	48678			
Client ID:	PBS	Batch ID:	17426	TestNo:	SW8015B		SW3550C	Analysis Date:	11/20/2015	SeqNo:	1189074			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel Range)		< 10.0		10.0										
TPH (Oil Range)		< 10.0		10.0										
Surr: 4-Terphenyl-d14		2.81			3.330			84.4	33	152				

Sample ID	15110727-001BMS-	SampType:	MS	TestCode:	8015_DO_S	Units:	mg/Kg	Prep Date:	11/19/2015	RunNo:	48678			
Client ID:	SS-21 (0-2')	Batch ID:	17426	TestNo:	SW8015B		SW3550C	Analysis Date:	11/20/2015	SeqNo:	1189083			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Oil Range)		671		100	100.0	472.5		199	14.5	174				SM
Surr: 4-Terphenyl-d14		2.43			3.330			72.8	33	152				

Sample ID	15110727-001BMSD	SampType:	MSD	TestCode:	8015_DO_S	Units:	mg/Kg	Prep Date:	11/19/2015	RunNo:	48678			
Client ID:	SS-21 (0-2')	Batch ID:	17426	TestNo:	SW8015B		SW3550C	Analysis Date:	11/20/2015	SeqNo:	1189084			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Oil Range)		529		100	100.0	472.5		56.3	14.5	174	671.4	23.8	48.8	

Qualifiers:

- | | | |
|--|---|---|
| * Value exceeds Maximum Contaminant Level. | H Holding times for preparation or analysis exceeded | M Matrix Interference |
| ND Not Detected at the Reporting Limit | RL Reporting Limit | S Spike Recovery outside accepted recovery limits |
| U Analyte not detected | W Sample container temperature is out of limit as specified at testcode | |



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QC SUMMARY REPORT

WO#: 15110727
 30-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17426

Sample ID	15110727-001BMSD	SampType:	MSD	TestCode:	8015_DO_S	Units:	mg/Kg	Prep Date:	11/19/2015	RunNo:	48678		
Client ID:	SS-21 (0-2')	Batch ID:	17426	TestNo:	SW8015B	SW3550C		Analysis Date:	11/20/2015	SeqNo:	1189084		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 4-Terphenyl-d14 2.29 3.330 68.9 33 152 0 40

Sample ID	15110727-001BMS-	SampType:	MS	TestCode:	8015_DO_S	Units:	mg/Kg	Prep Date:	11/19/2015	RunNo:	48678		
Client ID:	SS-21 (0-2')	Batch ID:	17426	TestNo:	SW8015B	SW3550C		Analysis Date:	11/20/2015	SeqNo:	1189085		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range) 1,130 100 100.0 1,127 -1.69 23.4 123 SM
 Surr: 4-Terphenyl-d14 2.21 3.330 66.2 33 152

Sample ID	15110727-001BMSD	SampType:	MSD	TestCode:	8015_DO_S	Units:	mg/Kg	Prep Date:	11/19/2015	RunNo:	48678		
Client ID:	SS-21 (0-2')	Batch ID:	17426	TestNo:	SW8015B	SW3550C		Analysis Date:	11/20/2015	SeqNo:	1189086		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range) 1,060 100 100.0 1,127 -63.3 23.4 123 1,125 5.63 35.6 SM
 Surr: 4-Terphenyl-d14 2.58 3.330 77.4 33 152 0 40

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
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U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 15110727
 30-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17466

Sample ID	MB-17466	SampType:	MBLK	TestCode:	TTBA	Units:	mg/Kg-dry	Prep Date:	11/23/2015	RunNo:	48813
Client ID:	PBS	Batch ID:	17466	TestNo:	LDNR 29-B			Analysis Date:	11/25/2015	SeqNo:	1191988
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

True Total Barium < 50.0 50.0

Sample ID	LCS-17466	SampType:	LCS	TestCode:	TTBA	Units:	mg/Kg-dry	Prep Date:	11/23/2015	RunNo:	48813
Client ID:	LCSS	Batch ID:	17466	TestNo:	LDNR 29-B			Analysis Date:	11/25/2015	SeqNo:	1191989
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

True Total Barium 5,050 50.0 5,000 0 101 75 125

Sample ID	LCSD-17466	SampType:	LCSD	TestCode:	TTBA	Units:	mg/Kg-dry	Prep Date:	11/23/2015	RunNo:	48813
Client ID:	LCSS02	Batch ID:	17466	TestNo:	LDNR 29-B			Analysis Date:	11/25/2015	SeqNo:	1191990
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

True Total Barium 5,030 50.0 5,000 0 101 75 125 5,045 0.298 20

Sample ID	15110726-001AMS	SampType:	MS	TestCode:	TTBA	Units:	mg/Kg-dry	Prep Date:	11/23/2015	RunNo:	48813
Client ID:	ZZZZZZ	Batch ID:	17466	TestNo:	LDNR 29-B			Analysis Date:	11/25/2015	SeqNo:	1191992
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

True Total Barium 5,590 47.2 4,721 809.3 101 75 125

Qualifiers: * Value exceeds Maximum Contaminant Level. H Holding times for preparation or analysis exceeded M Matrix Interference
 ND Not Detected at the Reporting Limit RL Reporting Limit S Spike Recovery outside accepted recovery limits
 U Analyte not detected W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15110727
 30-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17466

Sample ID	15110726-001AMSD	SampType:	MSD	TestCode:	TTBA	Units:	mg/Kg-dry	Prep Date:	11/23/2015	RunNo:	48813		
Client ID:	ZZZZZZ	Batch ID:	17466	TestNo:	LDNR 29-B			Analysis Date:	11/25/2015	SeqNo:	1191993		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
True Total Barium		5,530		47.3	4,735	809.3	99.7	75	125	5,590	1.08	20	

Qualifiers:

- | | | |
|--|---|---|
| * Value exceeds Maximum Contaminant Level. | H Holding times for preparation or analysis exceeded | M Matrix Interference |
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QC SUMMARY REPORT

WO#: 15110727
 30-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17467

Sample ID	MB-17467	SampType:	MBLK	TestCode:	HG_S_29B	Units:	mg/Kg-dry	Prep Date:	11/23/2015	RunNo:	48702
Client ID:	PBS	Batch ID:	17467	TestNo:	29B/SW7471 SW7471A	Analysis Date:	11/24/2015	SeqNo:	1189587		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Mercury < 0.10 0.10

Sample ID	LCS-17467	SampType:	LCS	TestCode:	HG_S_29B	Units:	mg/Kg-dry	Prep Date:	11/23/2015	RunNo:	48702
Client ID:	LCSS	Batch ID:	17467	TestNo:	29B/SW7471 SW7471A	Analysis Date:	11/24/2015	SeqNo:	1189588		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Mercury 0.88 0.10 0.83 0 105 80 120

Sample ID	LCSD-17467	SampType:	LCSD	TestCode:	HG_S_29B	Units:	mg/Kg-dry	Prep Date:	11/23/2015	RunNo:	48702
Client ID:	LCSS02	Batch ID:	17467	TestNo:	29B/SW7471 SW7471A	Analysis Date:	11/24/2015	SeqNo:	1189589		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Mercury 0.91 0.10 0.83 0 109 80 120 0.88 3.39 20

Sample ID	15110727-001AMS	SampType:	MS	TestCode:	HG_S_29B	Units:	mg/Kg-dry	Prep Date:	11/23/2015	RunNo:	48702
Client ID:	SS-21 (0-2')	Batch ID:	17467	TestNo:	29B/SW7471 SW7471A	Analysis Date:	11/24/2015	SeqNo:	1189591		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Mercury 0.97 0.09 0.78 0.29 86.2 75 125

Qualifiers: * Value exceeds Maximum Contaminant Level. H Holding times for preparation or analysis exceeded M Matrix Interference
 ND Not Detected at the Reporting Limit RL Reporting Limit S Spike Recovery outside accepted recovery limits
 U Analyte not detected W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15110727
 30-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17467

Sample ID	15110727-001AMSD	SampType:	MSD	TestCode:	HG_S_29B	Units:	mg/Kg-dry	Prep Date:	11/23/2015	RunNo:	48702		
Client ID:	SS-21 (0-2')	Batch ID:	17467	TestNo:	29B/SW7471 SW7471A			Analysis Date:	11/24/2015	SeqNo:	1189592		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		1.03		0.10	0.84	0.29	88.2	75	125	0.97	6.45	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- U Analyte not detected
- H Holding times for preparation or analysis exceeded
- RL Reporting Limit
- W Sample container temperature is out of limit as specified at testcode
- M Matrix Interference
- S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 15110727
 30-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17470

Sample ID	MB-17470	SampType:	MBLK	TestCode:	6010_S_29B	Units:	mg/Kg-dry	Prep Date:	11/23/2015	RunNo:	48813
Client ID:	PBS	Batch ID:	17470	TestNo:	SW6010B	SW3050B		Analysis Date:	11/25/2015	SeqNo:	1191942
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Arsenic	< 2.00	2.00									
Barium	< 1.00	1.00									
Cadmium	< 0.500	0.500									
Chromium	< 1.00	1.00									
Lead	< 1.00	1.00									
Selenium	< 2.00	2.00									
Silver	< 0.500	0.500									
Zinc	< 1.00	1.00									

Sample ID	LCS-17470	SampType:	LCS	TestCode:	6010_S_29B	Units:	mg/Kg-dry	Prep Date:	11/23/2015	RunNo:	48813
Client ID:	LCSS	Batch ID:	17470	TestNo:	SW6010B	SW3050B		Analysis Date:	11/25/2015	SeqNo:	1191943
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Arsenic	53.1	2.00	50.00	0	106	80	120				
Barium	54.4	1.00	50.00	0	109	80	120				
Cadmium	54.0	0.500	50.00	0	108	80	120				
Chromium	54.3	1.00	50.00	0	109	80	120				
Lead	54.8	1.00	50.00	0	110	80	120				
Selenium	54.1	2.00	50.00	0	108	80	120				
Silver	26.9	0.500	25.00	0	108	80	120				
Zinc	54.4	1.00	50.00	0	109	80	120				

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 15110727
 30-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17470

Sample ID	LCSD-17470	SampType:	LCSD	TestCode:	6010_S_29B	Units:	mg/Kg-dry	Prep Date:	11/23/2015	RunNo:	48813											
Client ID:	LCSS02	Batch ID:	17470	TestNo:	SW6010B		SW3050B	Analysis Date:	11/25/2015	SeqNo:	1191944											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
Arsenic		52.2		2.00		50.00		0		104		80		120		53.13		1.75		20		
Barium		53.8		1.00		50.00		0		108		80		120		54.37		0.998		20		
Cadmium		53.4		0.500		50.00		0		107		80		120		54.02		1.06		20		
Chromium		53.7		1.00		50.00		0		107		80		120		54.32		1.13		20		
Lead		54.4		1.00		50.00		0		109		80		120		54.81		0.677		20		
Selenium		53.5		2.00		50.00		0		107		80		120		54.08		1.15		20		
Silver		26.6		0.500		25.00		0		107		80		120		26.90		1.01		20		
Zinc		53.9		1.00		50.00		0		108		80		120		54.41		0.997		20		

Sample ID	15110727-001AMS	SampType:	MS	TestCode:	6010_S_29B	Units:	mg/Kg-dry	Prep Date:	11/23/2015	RunNo:	48813											
Client ID:	SS-21 (0-2')	Batch ID:	17470	TestNo:	SW6010B		SW3050B	Analysis Date:	11/25/2015	SeqNo:	1191946											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
Arsenic		59.5		1.99		49.85		6.707		106		75		125								
Barium		498		0.997		49.85		459.9		77.0		75		125								
Cadmium		51.7		0.498		49.85		0.3687		103		75		125								
Chromium		66.8		0.997		49.85		14.11		106		75		125								
Lead		72.4		0.997		49.85		21.73		102		75		125								
Selenium		47.0		1.99		49.85		0		94.2		75		125								
Silver		26.1		0.498		24.92		0		105		75		125								
Zinc		113		0.997		49.85		62.45		101		75		125								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- U Analyte not detected
- H Holding times for preparation or analysis exceeded
- RL Reporting Limit
- W Sample container temperature is out of limit as specified at testcode
- M Matrix Interference
- S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 15110727
 30-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17470

Sample ID	15110727-001AMSD	SampType:	MSD	TestCode:	6010_S_29B	Units:	mg/Kg-dry	Prep Date:	11/23/2015	RunNo:	48813
Client ID:	SS-21 (0-2')	Batch ID:	17470	TestNo:	SW6010B		SW3050B	Analysis Date:	11/25/2015	SeqNo:	1191947
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	60.1	2.00	49.88	6.707	107	75	125	59.53	1.04	20	
Barium	502	0.998	49.88	459.9	84.3	75	125	498.3	0.738	20	
Cadmium	52.1	0.499	49.88	0.3687	104	75	125	51.68	0.733	20	
Chromium	67.5	0.998	49.88	14.11	107	75	125	66.84	0.936	20	
Lead	73.6	0.998	49.88	21.73	104	75	125	72.37	1.74	20	
Selenium	47.3	2.00	49.88	0	94.9	75	125	46.95	0.758	20	
Silver	26.3	0.499	24.94	0	106	75	125	26.12	0.858	20	
Zinc	114	0.998	49.88	62.45	103	75	125	112.7	1.03	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- U Analyte not detected
- H Holding times for preparation or analysis exceeded
- RL Reporting Limit
- W Sample container temperature is out of limit as specified at testcode
- M Matrix Interference
- S Spike Recovery outside accepted recovery limits



Element Materials Technology Lafayette
 2417 W. Pinhook Road
 Lafayette, LA 70508-3344
 TEL: (337) 235-0483 FAX: (337) 233-6540
 Website: www.element.com

QC SUMMARY REPORT

WO#: 15110727
 30-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17481

Sample ID	15110726-001ADUP	SampType:	DUP	TestCode:	SAR_S	Units:		Prep Date:	11/23/2015	RunNo:	48736
Client ID:	ZZZZZZ	Batch ID:	17481	TestNo:	LDNR 29-B	LDNR 29-B		Analysis Date:	11/24/2015	SeqNo:	1190260
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium Adsorption Ratio	32.3	0.100						32.55	0.732	20	*
Soluble Calcium	7.31	1.00						7.390	1.09	20	
Soluble Magnesium	13.3	1.00						13.40	0.493	20	
Soluble Sodium	104	1.00						104.9	1.08	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- U Analyte not detected
- H Holding times for preparation or analysis exceeded
- RL Reporting Limit
- W Sample container temperature is out of limit as specified at testcode
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QC SUMMARY REPORT

WO#: 15110727
 30-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17497

Sample ID	15110726-001ADUP	SampType:	dup	TestCode:	ESP_S	Units:	%	Prep Date:	11/24/2015	RunNo:	48779		
Client ID:	ZZZZZZ	Batch ID:	17497	TestNo:	LDNR 29-B	LDNR 29-B		Analysis Date:	11/25/2015	SeqNo:	1191091		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Exchangeable Sodium %		14.1		0.100						14.79	4.58	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- U Analyte not detected
- H Holding times for preparation or analysis exceeded
- RL Reporting Limit
- W Sample container temperature is out of limit as specified at testcode
- M Matrix Interference
- S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 15110727
 30-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17498

Sample ID	15110726-001ADUP	SampType:	dup	TestCode:	CEC	Units:	meq/100g	Prep Date:	11/24/2015	RunNo:	48778
Client ID:	ZZZZZZ	Batch ID:	17498	TestNo:	LDNR 29-B	LDNR 29-B		Analysis Date:	11/25/2015	SeqNo:	1191088
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Cation Exchange Capacity		65.6		0.100						65.15	0.665 20

Sample ID	lcs-17498	SampType:	lcs	TestCode:	CEC	Units:	meq/100g	Prep Date:	11/24/2015	RunNo:	48778
Client ID:	LCSS	Batch ID:	17498	TestNo:	LDNR 29-B	LDNR 29-B		Analysis Date:	11/25/2015	SeqNo:	1191088
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Cation Exchange Capacity		22.5		0.100	25.00	0	90.1	76	124		

Sample ID	lcsd-17498	SampType:	lcsd	TestCode:	CEC	Units:	meq/100g	Prep Date:	11/24/2015	RunNo:	48778
Client ID:	LCSS02	Batch ID:	17498	TestNo:	LDNR 29-B	LDNR 29-B		Analysis Date:	11/25/2015	SeqNo:	1191089
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Cation Exchange Capacity		22.2		0.100	25.00	0	88.8	76	124	22.52	1.48 20

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- U Analyte not detected
- H Holding times for preparation or analysis exceeded
- RL Reporting Limit
- W Sample container temperature is out of limit as specified at testcode
- M Matrix Interference
- S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 15110727
 30-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R48700

Sample ID	MB-R48700	SampType:	MBLK	TestCode:	HEM_S	Units:	% dry wt	Prep Date:		RunNo:	48700
Client ID:	PBS	Batch ID:	R48700	TestNo:	SW9071B			Analysis Date:	11/24/2015	SeqNo:	1190472
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

HEM, Oil & Grease

< 0.05 0.05

Sample ID	LCS-R48700	SampType:	LCS	TestCode:	HEM_S	Units:	% dry wt	Prep Date:		RunNo:	48700
Client ID:	LCSS	Batch ID:	R48700	TestNo:	SW9071B			Analysis Date:	11/24/2015	SeqNo:	1190473
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

HEM, Oil & Grease

0.22 0.05 0.20 0 109 70 130

Sample ID	LCSD-R48700	SampType:	LCSD	TestCode:	HEM_S	Units:	% dry wt	Prep Date:		RunNo:	48700
Client ID:	LCSS02	Batch ID:	R48700	TestNo:	SW9071B			Analysis Date:	11/24/2015	SeqNo:	1190474
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

HEM, Oil & Grease

0.21 0.05 0.20 0 103 70 130 0.22 5.67 40

Sample ID	15110726-001AMS	SampType:	MS	TestCode:	HEM_S	Units:	% dry wt	Prep Date:		RunNo:	48700
Client ID:	ZZZZZZ	Batch ID:	R48700	TestNo:	SW9071B			Analysis Date:	11/24/2015	SeqNo:	1190475
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

HEM, Oil & Grease

2.25 0.05 0.49 1.10 234 70 130 S

NOTES:
 S - Spike recovery indicates matrix interference. The method is in control as indicated by the Lab Control Sample.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 15110727
 30-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R48700

Sample ID	15110726-001ADUP	SampType:	DUP	TestCode:	HEM_S	Units:	% dry wt	Prep Date:		RunNo:	48700		
Client ID:	ZZZZZZ	Batch ID:	R48700	TestNo:	SW9071B			Analysis Date:	11/24/2015	SeqNo:	1190476		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM, Oil & Grease		1.19		0.05						1.10	7.40	40	*

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- U Analyte not detected
- H Holding times for preparation or analysis exceeded
- RL Reporting Limit
- W Sample container temperature is out of limit as specified at testcode
- M Matrix Interference
- S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 15110727
 30-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R48726

Sample ID	MB-R48726	SampType:	MBLK	TestCode:	EC_S	Units:	mmhos/cm	Prep Date:		RunNo:	48726
Client ID:	PBS	Batch ID:	R48726	TestNo:	LDNR 29-B			Analysis Date:	11/24/2015	SeqNo:	1190008
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Electrical Conductivity < 0.10 0.10

Sample ID	R48726LCS1	SampType:	LCS1	TestCode:	EC_S	Units:	mmhos/cm	Prep Date:		RunNo:	48726
Client ID:	ZZZZZZ	Batch ID:	R48726	TestNo:	LDNR 29-B			Analysis Date:	11/24/2015	SeqNo:	1190009
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Electrical Conductivity 0.47 0.10 0.47 0 98.9 89.87 110.12

Sample ID	R48726LCS2	SampType:	LCS2	TestCode:	EC_S	Units:	mmhos/cm	Prep Date:		RunNo:	48726
Client ID:	ZZZZZZ	Batch ID:	R48726	TestNo:	LDNR 29-B			Analysis Date:	11/24/2015	SeqNo:	1190010
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Electrical Conductivity 56.7 0.10 53.00 0 107 90 110

Sample ID	15110726-001ADUP	SampType:	DUP	TestCode:	EC_S	Units:	mmhos/cm	Prep Date:		RunNo:	48726
Client ID:	ZZZZZZ	Batch ID:	R48726	TestNo:	LDNR 29-B			Analysis Date:	11/24/2015	SeqNo:	1190012
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Electrical Conductivity 15.0 0.10 14.71 2.02 20 *

Qualifiers: * Value exceeds Maximum Contaminant Level. H Holding times for preparation or analysis exceeded M Matrix Interference
 ND Not Detected at the Reporting Limit RL Reporting Limit S Spike Recovery outside accepted recovery limits
 U Analyte not detected W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15110727
 30-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R48743

Sample ID	15110726-001ADUP	SampType:	dup	TestCode:	PMOIST	Units:	wt%	Prep Date:		RunNo:	48743		
Client ID:	ZZZZZZ	Batch ID:	R48743	TestNo:	LDNR 29-B			Analysis Date:	11/17/2015	SeqNo:	1190453		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture		59.0		1.00						59.24	0.486	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- U Analyte not detected
- H Holding times for preparation or analysis exceeded
- RL Reporting Limit
- W Sample container temperature is out of limit as specified at testcode
- M Matrix Interference
- S Spike Recovery outside accepted recovery limits



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Sample Log-In Check List

Client Name: **ICON_ENV**

Work Order Number: **15110727**

RcptNo: **1**

Logged by:	Danielle Hollier	11/17/2015 11:00:00 AM	<i>Danielle Hollier</i>
Completed By:	Danielle Hollier	11/17/2015 12:54:21 PM	<i>Danielle Hollier</i>
Reviewed By:	Caitlin Duplantis	11/23/2015 12:49:52 PM	<i>Caitlin Duplantis</i>

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 Custody seals intact on shipping container/cooler? Yes No Not Present
 No. Seal Date: Signed By:
 5. Was an attempt made to cool the samples? Yes No NA
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 7. Sample(s) in proper container(s)? Yes No
 8. Sufficient sample volume for indicated test(s)? Yes No
 9. Are samples (except VOA and ONG) properly preserved? Yes No
 10. Was preservative added to bottles? Yes No NA
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
 12. Were any sample containers received broken? Yes No
 13. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 14. Are matrices correctly identified on Chain of Custody? Yes No
 15. Is it clear what analyses were requested? Yes No
 16. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:
 Improper error correction(s) made by client

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.8	Good	Not Present			



Chain of Custody

Laboratory Number: 15110727

Client Information: **ICON Environmental**
 Jason Sills
 2019 Commercial Dr
 Bart Allen, CA 20707
 202-344-8400

Billing Information: PO Number: Quote Number: Required QC Level: Bill Monthly: Yes No

Project Name/Number: **EWL**
 9077-041-0800
 Sampler's Signature: [Signature]
 Shipping Method: UPS / FedEx / NOW
 DHL / Element / Hand / Mail

Matrix Code: DW = Drinking Water, WW = Waste Water, GW = Ground Water, AQ = Aqueous, OT = Other, SL = Sludge, O = Oil, F = Food, NG = Natural Gas, NGL = Natural Gas Liquid, PW = Produced Water, CF = Completion Fluid

Sample ID/Description	Turn Time		(Rush turn times will incur a surcharge and must be pre-approved by lab.)	Container Type	Pres.	Requested Tests	Comments
	Date	Time					
SS-13 0-2'	11/16/15	1335	Grab / Composite	2	NA	X SAR/ESP X EC X HEM O/G X TPH O/G X 266 Metals	* include Mercury
SS-13 2-4'		1430					
SS-15 0-2'		1305					
SS-15 2-4'		1340					
SS-16 0-2'		1400					
SS-16 2-4'		1405					
SS-17 0-2'		1550					
SS-17 2-4'		1555					
SS-17 4-6'		1600					

Relinquished by: [Signature] Date/Time: 11/17/15 1100

Received by: [Signature] Date/Time: 11-17-15 1100

Field Notes: Received at lab on ice? Yes No Temp: 4.8°C

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

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629 Washington St, Suite 300
 Columbus, IN 47201-6231 USA
 P 812-375-0531 F 812-375-0731

2121 East Washington Boulevard
 Fort Wayne, IN 46803-1328 USA
 P 260-471-7000 F 260-471-7777

909 Executive Dr
 Warsaw, IN 46580-2368 USA
 P 574-267-3305 F 574-269-5669

3371 Cleveland Road, Suite 100A
 South Bend, IN 46628-8780 USA
 P 574-277-0707 F 574-273-5699

2417 W. Pinhook Rd
 Lafayette, LA 70508-3344 USA
 P 337-235-0483 F 337-233-6540

Caitlin Duplantis

From: Jason Sills <jsills@iconenv.com>
Sent: Tuesday, November 17, 2015 1:40 PM
To: Caitlin Duplantis
Subject: EWL Sample Correction 2

Caitlin,

I just got the COC for samples submitted today:

We need to change the following labels:

COC Label	Corrected label:
SS-13 (??-??)	SS-21 (??-??)
SS-15 (??-??)	SS-23 (??-??)
SS-16 (??-??)	SS-24 (??-??)
SS-17 (??-??)	SS-25 (??-??)

Thanks,

Jason Sills
Project Manager
Icon Environmental Services
2049 Commercial Drive
Port Allen, LA 70767
Office: (225) 344-8490
Fax: (225) 344-6654
jsills@iconenv.com

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November 25, 2015

Greg Miller
ICON Environmental Services
2049 Commercial Drive
Port Allen, LA 70767
TEL: (225) 344-8490
FAX (225) 344-6654

RE: VPSB East White Lake 9077-041-0800

Order No.: 15110637

Dear Greg Miller:

Element Materials Technology Lafayette received 18 sample(s) on 11/13/2015 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

All soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as –dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261-14-6. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

A handwritten signature in blue ink, appearing to read 'Cristina Thibeaux', is written over a faint, illegible background.

Cristina Thibeaux
Customer Service Supervisor
2417 W. Pinhook Road
Lafayette, LA 70508-3344



Element Materials Technology Lafayette
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Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Case Narrative

WO#: 15110637
Date: 11/25/2015

CLIENT: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

Samples IDs were corrected as per email communication from the client. A copy of the email is attached to the chain of custody record.

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).



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Analytical Report

(consolidated)

WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 8:45:00 AM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-001 **Matrix:** SOIL
Client Sample ID SS-19 (0-2')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	47.6	0.100		meq/100g	1	11/20/2015 2:38:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	8.91	0.10	*	mmhos/cm	1	11/19/2015 12:27:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	2.87	0.100		%	1	11/20/2015 2:38:00 PM
HEM, OIL & GREASE						
SW9071B						
HEM, Oil & Grease	0.32	0.05		% dry wt	1	11/19/2015 7:15:00 AM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	8.36	0.100			1	11/19/2015
Soluble Calcium	12.3	1.00		meq/L	1	11/19/2015
Soluble Magnesium	32.6	1.00		meq/L	1	11/19/2015
Soluble Sodium	39.6	1.00		meq/L	1	11/19/2015
TPH-D/O IN SOIL BY SW8015						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	49.9	10.0		mg/Kg	1	11/20/2015 1:44:00 AM
TPH (Oil Range)	45.1	10.0		mg/Kg	1	11/21/2015 12:52:00 AM
Surr: 4-Terphenyl-d14	76.6	33 - 152		%REC	1	11/20/2015 1:44:00 AM
29B METALS						
MERCURY IN SOIL OR SLUDGE						
Mercury	0.74	0.11		mg/Kg-dry	1	11/20/2015 10:15:26 AM
29B METALS						
METALS IN SOIL OR SLUDGE BY ICP						
SW6010B SW3050B						
Analyst: STS						

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 8:45:00 AM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-001 **Matrix:** SOIL
Client Sample ID SS-19 (0-2')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B
METALS IN SOIL OR SLUDGE BY ICP						Analyst: STS
Arsenic	8.87	2.00		mg/Kg-dry	1	11/20/2015 12:16:13 AM
Barium	514	0.998		mg/Kg-dry	1	11/20/2015 12:16:13 AM
Cadmium	0.839	0.499		mg/Kg-dry	1	11/20/2015 12:16:13 AM
Chromium	18.3	0.998		mg/Kg-dry	1	11/20/2015 12:16:13 AM
Lead	19.2	0.998		mg/Kg-dry	1	11/20/2015 12:16:13 AM
Selenium	< 2.00	2.00		mg/Kg-dry	1	11/20/2015 12:16:13 AM
Strontium	189	9.98		mg/Kg-dry	10	11/20/2015 12:52:12 AM
Zinc	164	0.998		mg/Kg-dry	1	11/20/2015 12:16:13 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	1,030	48.8		mg/Kg-dry	1	11/20/2015 3:02:09 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	62.7	1.00		wt%	1	11/13/2015 5:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



Element Materials Technology Lafayette
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 TEL: (337) 235-0483 FAX: (337) 233-6540
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Analytical Report

(consolidated)

WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 8:50:00 AM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-002 **Matrix:** SOIL
Client Sample ID SS-19 (2-4')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	65.4	0.100		meq/100g	1	11/20/2015 2:38:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	11.1	0.10	*	mmhos/cm	1	11/19/2015 12:27:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	3.01	0.100		%	1	11/20/2015 2:38:00 PM
HEM, OIL & GREASE						
SW9071B						
HEM, Oil & Grease	0.26	0.05		% dry wt	1	11/19/2015 7:15:00 AM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	6.40	0.100			1	11/19/2015
Soluble Calcium	12.7	1.00		meq/L	1	11/19/2015
Soluble Magnesium	60.6	1.00		meq/L	1	11/19/2015
Soluble Sodium	38.8	1.00		meq/L	1	11/19/2015
TPH-D/O IN SOIL BY SW8015						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	119	10.0		mg/Kg	1	11/20/2015 1:59:00 AM
TPH (Oil Range)	83.5	10.0		mg/Kg	1	11/21/2015 1:55:00 AM
Surr: 4-Terphenyl-d14	72.3	33 - 152		%REC	1	11/20/2015 1:59:00 AM
29B METALS						
MERCURY IN SOIL OR SLUDGE						
Mercury	0.84	0.11		mg/Kg-dry	1	11/20/2015 10:23:37 AM
29B METALS						
METALS IN SOIL OR SLUDGE BY ICP						
SW6010B SW3050B						
Analyst: STS						

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

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WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 8:50:00 AM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-002 **Matrix:** SOIL
Client Sample ID SS-19 (2-4')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B
METALS IN SOIL OR SLUDGE BY ICP						Analyst: STS
Arsenic	8.65	1.99		mg/Kg-dry	1	11/20/2015 12:25:55 AM
Barium	419	0.994		mg/Kg-dry	1	11/20/2015 12:25:55 AM
Cadmium	0.607	0.497		mg/Kg-dry	1	11/20/2015 12:25:55 AM
Chromium	15.6	0.994		mg/Kg-dry	1	11/20/2015 12:25:55 AM
Lead	30.7	0.994		mg/Kg-dry	1	11/20/2015 12:25:55 AM
Selenium	< 1.99	1.99		mg/Kg-dry	1	11/20/2015 12:25:55 AM
Strontium	87.1	0.994		mg/Kg-dry	1	11/20/2015 12:25:55 AM
Zinc	78.7	0.994		mg/Kg-dry	1	11/20/2015 12:25:55 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	1,210	47.2		mg/Kg-dry	1	11/20/2015 3:05:35 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	63.2	1.00		wt%	1	11/13/2015 5:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 10:15:00 AM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-003 **Matrix:** SOIL
Client Sample ID SS-20 (0-2')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	61.9	0.100		meq/100g	1	11/20/2015 2:38:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	10.1	0.10	*	mmhos/cm	1	11/19/2015 12:27:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	6.86	0.100		%	1	11/20/2015 2:38:00 PM
HEM, OIL & GREASE						
SW9071B						
HEM, Oil & Grease	0.24	0.05		% dry wt	1	11/19/2015 7:15:00 AM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	15.3	0.100	*		1	11/19/2015
Soluble Calcium	7.09	1.00		meq/L	1	11/19/2015
Soluble Magnesium	23.5	1.00		meq/L	1	11/19/2015
Soluble Sodium	59.8	1.00		meq/L	1	11/19/2015
TPH-D/O IN SOIL BY SW8015						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	134	10.0		mg/Kg	1	11/20/2015 2:15:00 AM
TPH (Oil Range)	106	10.0		mg/Kg	1	11/21/2015 2:10:00 AM
Surr: 4-Terphenyl-d14	56.3	33 - 152		%REC	1	11/20/2015 2:15:00 AM
29B METALS						
MERCURY IN SOIL OR SLUDGE						
Mercury	0.14	0.10		mg/Kg-dry	1	11/20/2015 10:26:22 AM
29B METALS						
METALS IN SOIL OR SLUDGE BY ICP						
SW6010B SW3050B						
Analyst: STS						

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 10:15:00 AM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-003 **Matrix:** SOIL
Client Sample ID SS-20 (0-2')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B
METALS IN SOIL OR SLUDGE BY ICP						Analyst: STS
Arsenic	9.02	2.00		mg/Kg-dry	1	11/20/2015 12:29:44 AM
Barium	774	1.00		mg/Kg-dry	1	11/20/2015 12:29:44 AM
Cadmium	< 0.500	0.500		mg/Kg-dry	1	11/20/2015 12:29:44 AM
Chromium	12.8	1.00		mg/Kg-dry	1	11/20/2015 12:29:44 AM
Lead	24.3	1.00		mg/Kg-dry	1	11/20/2015 12:29:44 AM
Selenium	< 2.00	2.00		mg/Kg-dry	1	11/20/2015 12:29:44 AM
Strontium	53.9	1.00		mg/Kg-dry	1	11/20/2015 12:29:44 AM
Zinc	58.2	1.00		mg/Kg-dry	1	11/20/2015 12:29:44 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	2,150	47.0		mg/Kg-dry	1	11/20/2015 3:09:00 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	67.5	1.00		wt%	1	11/13/2015 5:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 10:20:00 AM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-004 **Matrix:** SOIL
Client Sample ID SS-20 (2-4')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	78.8	0.100		meq/100g	1	11/20/2015 2:38:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	11.5	0.10	*	mmhos/cm	1	11/19/2015 12:27:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	7.40	0.100		%	1	11/20/2015 2:38:00 PM
HEM, OIL & GREASE						
SW9071B						
HEM, Oil & Grease	0.26	0.05		% dry wt	1	11/19/2015 7:15:00 AM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	15.7	0.100	*		1	11/19/2015
Soluble Calcium	9.60	1.00		meq/L	1	11/19/2015
Soluble Magnesium	28.2	1.00		meq/L	1	11/19/2015
Soluble Sodium	68.1	1.00		meq/L	1	11/19/2015
TPH-D/O IN SOIL BY SW8015						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	108	10.0		mg/Kg	1	11/20/2015 2:31:00 AM
TPH (Oil Range)	121	10.0		mg/Kg	1	11/21/2015 2:26:00 AM
Surr: 4-Terphenyl-d14	87.8	33 - 152		%REC	1	11/20/2015 2:31:00 AM
29B METALS						
MERCURY IN SOIL OR SLUDGE						
Mercury	< 0.11	0.11		mg/Kg-dry	1	11/20/2015 10:29:08 AM
29B METALS						
METALS IN SOIL OR SLUDGE BY ICP						
SW6010B SW3050B						
Analyst: STS						

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

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WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 10:20:00 AM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-004 **Matrix:** SOIL
Client Sample ID SS-20 (2-4')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B
METALS IN SOIL OR SLUDGE BY ICP						Analyst: STS
Arsenic	7.26	1.98		mg/Kg-dry	1	11/20/2015 12:33:23 AM
Barium	421	0.991		mg/Kg-dry	1	11/20/2015 12:33:23 AM
Cadmium	< 0.495	0.495		mg/Kg-dry	1	11/20/2015 12:33:23 AM
Chromium	11.4	0.991		mg/Kg-dry	1	11/20/2015 12:33:23 AM
Lead	16.8	0.991		mg/Kg-dry	1	11/20/2015 12:33:23 AM
Selenium	< 1.98	1.98		mg/Kg-dry	1	11/20/2015 12:33:23 AM
Strontium	67.5	0.991		mg/Kg-dry	1	11/20/2015 12:33:23 AM
Zinc	52.6	0.991		mg/Kg-dry	1	11/20/2015 12:33:23 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	1,080	47.4		mg/Kg-dry	1	11/20/2015 3:12:24 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	68.3	1.00		wt%	1	11/13/2015 5:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 10:25:00 AM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-005 **Matrix:** SOIL
Client Sample ID SS-20 (4-6')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	75.7	0.100		meq/100g	1	11/20/2015 2:38:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	9.87	0.10	*	mmhos/cm	1	11/19/2015 12:27:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	5.99	0.100		%	1	11/20/2015 2:38:00 PM
HEM, OIL & GREASE						
SW9071B						
HEM, Oil & Grease	0.25	0.05		% dry wt	1	11/19/2015 7:15:00 AM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	15.1	0.100	*		1	11/19/2015
Soluble Calcium	8.70	1.00		meq/L	1	11/19/2015
Soluble Magnesium	25.6	1.00		meq/L	1	11/19/2015
Soluble Sodium	62.4	1.00		meq/L	1	11/19/2015
TPH-D/O IN SOIL BY SW8015						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	180	10.0		mg/Kg	1	11/20/2015 2:46:00 AM
TPH (Oil Range)	144	10.0		mg/Kg	1	11/21/2015 2:42:00 AM
Surr: 4-Terphenyl-d14	76.7	33 - 152		%REC	1	11/20/2015 2:46:00 AM
29B METALS						
MERCURY IN SOIL OR SLUDGE						
Mercury	0.13	0.10		mg/Kg-dry	1	11/20/2015 10:31:31 AM
29B METALS						
METALS IN SOIL OR SLUDGE BY ICP						
SW6010B SW3050B						
Analyst: STS						

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: **15110637**

Date Reported: **11/25/2015**

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 10:25:00 AM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-005 **Matrix:** SOIL
Client Sample ID SS-20 (4-6')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B
METALS IN SOIL OR SLUDGE BY ICP						Analyst: STS
Arsenic	8.73	1.98		mg/Kg-dry	1	11/20/2015 12:36:58 AM
Barium	596	0.991		mg/Kg-dry	1	11/20/2015 12:36:58 AM
Cadmium	< 0.495	0.495		mg/Kg-dry	1	11/20/2015 12:36:58 AM
Chromium	12.0	0.991		mg/Kg-dry	1	11/20/2015 12:36:58 AM
Lead	19.9	0.991		mg/Kg-dry	1	11/20/2015 12:36:58 AM
Selenium	< 1.98	1.98		mg/Kg-dry	1	11/20/2015 12:36:58 AM
Strontium	62.2	0.991		mg/Kg-dry	1	11/20/2015 12:36:58 AM
Zinc	52.9	0.991		mg/Kg-dry	1	11/20/2015 12:36:58 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	1,250	48.5		mg/Kg-dry	1	11/20/2015 3:23:02 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	66.2	1.00		wt%	1	11/13/2015 5:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 12:05:00 PM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-006 **Matrix:** SOIL
Client Sample ID SS-22 (0-2')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	59.3	0.100		meq/100g	1	11/20/2015 2:38:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	6.39	0.10	*	mmhos/cm	1	11/19/2015 12:27:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	4.61	0.100		%	1	11/20/2015 2:38:00 PM
HEM, OIL & GREASE						
SW9071B						
HEM, Oil & Grease	2.91	0.05	*	% dry wt	1	11/19/2015 7:15:00 AM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	14.6	0.100	*		1	11/19/2015
Soluble Calcium	6.73	1.00		meq/L	1	11/19/2015
Soluble Magnesium	19.1	1.00		meq/L	1	11/19/2015
Soluble Sodium	52.5	1.00		meq/L	1	11/19/2015
TPH-D/O IN SOIL BY SW8015						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	513	100		mg/Kg	10	11/23/2015 12:19:00 PM
TPH (Oil Range)	1,240	100		mg/Kg	10	11/23/2015 12:19:00 PM
Surr: 4-Terphenyl-d14	50.2	33 - 152		%REC	10	11/23/2015 12:19:00 PM
29B METALS						
MERCURY IN SOIL OR SLUDGE						
Mercury	0.36	0.10		mg/Kg-dry	1	11/20/2015 10:39:31 AM
29B METALS						
METALS IN SOIL OR SLUDGE BY ICP						
SW6010B SW3050B						
Analyst: STS						

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

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WO#: **15110637**

Date Reported: **11/25/2015**

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 12:05:00 PM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-006 **Matrix:** SOIL
Client Sample ID SS-22 (0-2')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B Analyst: STS
METALS IN SOIL OR SLUDGE BY ICP						
Arsenic	8.87	2.00		mg/Kg-dry	1	11/20/2015 1:03:01 AM
Barium	581	0.999		mg/Kg-dry	1	11/20/2015 1:03:01 AM
Cadmium	0.789	0.500		mg/Kg-dry	1	11/20/2015 1:03:01 AM
Chromium	22.4	0.999		mg/Kg-dry	1	11/20/2015 1:03:01 AM
Lead	27.2	0.999		mg/Kg-dry	1	11/20/2015 1:03:01 AM
Selenium	< 2.00	2.00		mg/Kg-dry	1	11/20/2015 1:03:01 AM
Strontium	53.1	0.999		mg/Kg-dry	1	11/20/2015 1:03:01 AM
Zinc	182	0.999		mg/Kg-dry	1	11/20/2015 1:03:01 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	1,030	47.3		mg/Kg-dry	1	11/20/2015 3:26:25 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	74.5	1.00		wt%	1	11/13/2015 5:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 12:10:00 PM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-007 **Matrix:** SOIL
Client Sample ID SS-22 (2-4')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	55.1	0.100		meq/100g	1	11/20/2015 2:38:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	7.06	0.10	*	mmhos/cm	1	11/19/2015 12:27:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	6.72	0.100		%	1	11/20/2015 2:38:00 PM
HEM, OIL & GREASE						
SW9071B						
HEM, Oil & Grease	1.56	0.05	*	% dry wt	1	11/19/2015 7:15:00 AM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	12.7	0.100	*		1	11/19/2015
Soluble Calcium	7.97	1.00		meq/L	1	11/19/2015
Soluble Magnesium	10.6	1.00		meq/L	1	11/19/2015
Soluble Sodium	38.6	1.00		meq/L	1	11/19/2015
TPH-D/O IN SOIL BY SW8015						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	1,240	100		mg/Kg	10	11/23/2015 12:35:00 PM
TPH (Oil Range)	1,900	100		mg/Kg	10	11/23/2015 12:35:00 PM
Surr: 4-Terphenyl-d14	69.3	33 - 152		%REC	10	11/23/2015 12:35:00 PM
29B METALS						
MERCURY IN SOIL OR SLUDGE						
Mercury	0.19	0.10		mg/Kg-dry	1	11/20/2015 10:42:17 AM
29B METALS						
METALS IN SOIL OR SLUDGE BY ICP						
SW6010B SW3050B						
Analyst: STS						

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

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WO#: **15110637**

Date Reported: **11/25/2015**

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 12:10:00 PM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-007 **Matrix:** SOIL
Client Sample ID SS-22 (2-4')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B
METALS IN SOIL OR SLUDGE BY ICP						Analyst: STS
Arsenic	7.23	2.00		mg/Kg-dry	1	11/20/2015 1:06:36 AM
Barium	949	0.998		mg/Kg-dry	1	11/20/2015 1:06:36 AM
Cadmium	0.529	0.499		mg/Kg-dry	1	11/20/2015 1:06:36 AM
Chromium	18.1	0.998		mg/Kg-dry	1	11/20/2015 1:06:36 AM
Lead	26.3	0.998		mg/Kg-dry	1	11/20/2015 1:06:36 AM
Selenium	< 2.00	2.00		mg/Kg-dry	1	11/20/2015 1:06:36 AM
Strontium	72.4	0.998		mg/Kg-dry	1	11/20/2015 1:06:36 AM
Zinc	113	0.998		mg/Kg-dry	1	11/20/2015 1:06:36 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	1,740	48.8		mg/Kg-dry	1	11/20/2015 3:29:48 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	62.0	1.00		wt%	1	11/13/2015 5:00:00 PM

Qualifiers:

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M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
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Analytical Report

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WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 12:15:00 PM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-008 **Matrix:** SOIL
Client Sample ID SS-22(4-6')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS					LDNR 29-B	LDNR 29-B Analyst: MMT
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	61.2	0.100		meq/100g	1	11/20/2015 2:38:00 PM
29B SALTS					LDNR 29-B	Analyst: MRM
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	7.08	0.10	*	mmhos/cm	1	11/19/2015 12:27:00 PM
29B SALTS					LDNR 29-B	LDNR 29-B Analyst: MMT
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	5.40	0.100		%	1	11/20/2015 2:38:00 PM
HEM, OIL & GREASE					SW9071B	Analyst: MMT
HEM, Oil & Grease	1.02	0.05	*	% dry wt	1	11/19/2015 7:15:00 AM
29B SALTS					LDNR 29-B	LDNR 29-B Analyst: STS
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	9.59	0.100			1	11/19/2015
Soluble Calcium	11.0	1.00		meq/L	1	11/19/2015
Soluble Magnesium	11.8	1.00		meq/L	1	11/19/2015
Soluble Sodium	32.4	1.00		meq/L	1	11/19/2015
TPH-D/O IN SOIL BY SW8015					SW8015B	SW3550C Analyst: KKD
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	1,120	100		mg/Kg	10	11/20/2015 10:00:00 PM
TPH (Oil Range)	973	100		mg/Kg	10	11/20/2015 10:00:00 PM
Surr: 4-Terphenyl-d14	84.8	33 - 152		%REC	10	11/20/2015 10:00:00 PM
29B METALS					29B/SW7471A	SW7471A Analyst: BAS
MERCURY IN SOIL OR SLUDGE						
Mercury	0.20	0.09		mg/Kg-dry	1	11/20/2015 10:45:05 AM
29B METALS					SW6010B	SW3050B Analyst: STS
METALS IN SOIL OR SLUDGE BY ICP						

Qualifiers:

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M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: **15110637**

Date Reported: **11/25/2015**

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 12:15:00 PM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-008 **Matrix:** SOIL
Client Sample ID SS-22(4-6')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B
METALS IN SOIL OR SLUDGE BY ICP						Analyst: STS
Arsenic	6.76	1.99		mg/Kg-dry	1	11/20/2015 1:10:21 AM
Barium	719	0.996		mg/Kg-dry	1	11/20/2015 1:10:21 AM
Cadmium	< 0.498	0.498		mg/Kg-dry	1	11/20/2015 1:10:21 AM
Chromium	18.1	0.996		mg/Kg-dry	1	11/20/2015 1:10:21 AM
Lead	20.5	0.996		mg/Kg-dry	1	11/20/2015 1:10:21 AM
Selenium	< 1.99	1.99		mg/Kg-dry	1	11/20/2015 1:10:21 AM
Strontium	99.1	0.996		mg/Kg-dry	1	11/20/2015 1:10:21 AM
Zinc	76.4	0.996		mg/Kg-dry	1	11/20/2015 1:10:21 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	1,140	46.5		mg/Kg-dry	1	11/20/2015 3:33:12 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	62.9	1.00		wt%	1	11/13/2015 5:00:00 PM

Qualifiers:

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RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
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Analytical Report

(consolidated)

WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 12:20:00 PM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-009 **Matrix:** SOIL
Client Sample ID SS-22(6-8')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS					LDNR 29-B	LDNR 29-B Analyst: MMT
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	53.6	0.100		meq/100g	1	11/20/2015 2:38:00 PM
29B SALTS					LDNR 29-B	Analyst: MRM
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	6.72	0.10	*	mmhos/cm	1	11/19/2015 12:27:00 PM
29B SALTS					LDNR 29-B	LDNR 29-B Analyst: MMT
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	2.32	0.100		%	1	11/20/2015 2:38:00 PM
HEM, OIL & GREASE					SW9071B	Analyst: MMT
HEM, Oil & Grease	0.19	0.05		% dry wt	1	11/19/2015 7:15:00 AM
29B SALTS					LDNR 29-B	LDNR 29-B Analyst: STS
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	10.6	0.100			1	11/19/2015
Soluble Calcium	15.5	1.00		meq/L	1	11/19/2015
Soluble Magnesium	15.3	1.00		meq/L	1	11/19/2015
Soluble Sodium	41.7	1.00		meq/L	1	11/19/2015
TPH-D/O IN SOIL BY SW8015					SW8015B	SW3550C Analyst: KKD
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	249	50.0		mg/Kg	5	11/20/2015 11:03:00 PM
TPH (Oil Range)	285	50.0		mg/Kg	5	11/20/2015 11:03:00 PM
Surr: 4-Terphenyl-d14	67.1	33 - 152		%REC	5	11/20/2015 11:03:00 PM
29B METALS					29B/SW7471A	SW7471A Analyst: BAS
MERCURY IN SOIL OR SLUDGE						
Mercury	< 0.10	0.10		mg/Kg-dry	1	11/20/2015 10:47:52 AM
29B METALS					SW6010B	SW3050B Analyst: STS
METALS IN SOIL OR SLUDGE BY ICP						

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: **15110637**

Date Reported: **11/25/2015**

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 12:20:00 PM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-009 **Matrix:** SOIL
Client Sample ID SS-22(6-8')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B
METALS IN SOIL OR SLUDGE BY ICP						Analyst: STS
Arsenic	7.98	1.99		mg/Kg-dry	1	11/20/2015 1:13:56 AM
Barium	344	0.994		mg/Kg-dry	1	11/20/2015 1:13:56 AM
Cadmium	< 0.497	0.497		mg/Kg-dry	1	11/20/2015 1:13:56 AM
Chromium	14.3	0.994		mg/Kg-dry	1	11/20/2015 1:13:56 AM
Lead	15.3	0.994		mg/Kg-dry	1	11/20/2015 1:13:56 AM
Selenium	< 1.99	1.99		mg/Kg-dry	1	11/20/2015 1:13:56 AM
Strontium	57.3	0.994		mg/Kg-dry	1	11/20/2015 1:13:56 AM
Zinc	61.2	0.994		mg/Kg-dry	1	11/20/2015 1:13:56 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	660	48.4		mg/Kg-dry	1	11/20/2015 3:36:36 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	57.6	1.00		wt%	1	11/13/2015 5:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
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Analytical Report

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WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 2:20:00 PM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-010 **Matrix:** SOIL
Client Sample ID SS-17 (0-2')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS					LDNR 29-B	LDNR 29-B Analyst: MMT
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	42.4	0.100		meq/100g	1	11/20/2015 2:38:00 PM
29B SALTS					LDNR 29-B	Analyst: MRM
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	4.83	0.10	*	mmhos/cm	1	11/19/2015 12:27:00 PM
29B SALTS					LDNR 29-B	LDNR 29-B Analyst: MMT
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	6.77	0.100		%	1	11/20/2015 2:38:00 PM
HEM, OIL & GREASE					SW9071B	Analyst: MMT
HEM, Oil & Grease	0.10	0.05		% dry wt	1	11/19/2015 7:15:00 AM
29B SALTS					LDNR 29-B	LDNR 29-B Analyst: STS
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	7.71	0.100			1	11/19/2015
Soluble Calcium	13.9	1.00		meq/L	1	11/19/2015
Soluble Magnesium	15.4	1.00		meq/L	1	11/19/2015
Soluble Sodium	29.5	1.00		meq/L	1	11/19/2015
TPH-D/O IN SOIL BY SW8015					SW8015B	SW3550C Analyst: KKD
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	27.9	10.0		mg/Kg	1	11/23/2015 1:06:00 PM
TPH (Oil Range)	48.4	10.0		mg/Kg	1	11/20/2015 4:00:00 PM
Surr: 4-Terphenyl-d14	71.7	33 - 152		%REC	1	11/20/2015 4:00:00 PM
29B METALS					29B/SW7471A	SW7471A Analyst: BAS
MERCURY IN SOIL OR SLUDGE						
Mercury	0.20	0.10		mg/Kg-dry	1	11/20/2015 10:50:15 AM
29B METALS					SW6010B	SW3050B Analyst: STS
METALS IN SOIL OR SLUDGE BY ICP						

Qualifiers: * Value exceeds Maximum Contaminant Level. H Holding times for preparation or analysis exceeded
 M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits
 U Analyte not detected W Sample container temperature is out of limit as specified at testcode



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Analytical Report

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WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 2:20:00 PM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-010 **Matrix:** SOIL
Client Sample ID SS-17 (0-2')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B
METALS IN SOIL OR SLUDGE BY ICP						Analyst: STS
Arsenic	6.52	2.00		mg/Kg-dry	1	11/20/2015 1:17:31 AM
Barium	690	1.00		mg/Kg-dry	1	11/20/2015 1:17:31 AM
Cadmium	< 0.500	0.500		mg/Kg-dry	1	11/20/2015 1:17:31 AM
Chromium	14.6	1.00		mg/Kg-dry	1	11/20/2015 1:17:31 AM
Lead	23.3	1.00		mg/Kg-dry	1	11/20/2015 1:17:31 AM
Selenium	< 2.00	2.00		mg/Kg-dry	1	11/20/2015 1:17:31 AM
Strontium	42.3	1.00		mg/Kg-dry	1	11/20/2015 1:17:31 AM
Zinc	47.7	1.00		mg/Kg-dry	1	11/20/2015 1:17:31 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	2,620	48.9		mg/Kg-dry	1	11/20/2015 3:39:59 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	57.1	1.00		wt%	1	11/13/2015 5:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

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WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 2:25:00 PM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-011 **Matrix:** SOIL
Client Sample ID SS-17 (2-4')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	47.3	0.100		meq/100g	1	11/20/2015 2:38:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	5.83	0.10	*	mmhos/cm	1	11/19/2015 12:27:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	5.25	0.100		%	1	11/20/2015 2:38:00 PM
HEM, OIL & GREASE						
SW9071B						
HEM, Oil & Grease	0.14	0.05		% dry wt	1	11/19/2015 7:15:00 AM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	13.1	0.100	*		1	11/19/2015
Soluble Calcium	10.4	1.00		meq/L	1	11/19/2015
Soluble Magnesium	5.66	1.00		meq/L	1	11/19/2015
Soluble Sodium	37.1	1.00		meq/L	1	11/19/2015
TPH-D/O IN SOIL BY SW8015						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	149	10.0		mg/Kg	1	11/20/2015 4:16:00 PM
TPH (Oil Range)	113	10.0		mg/Kg	1	11/20/2015 4:16:00 PM
Surr: 4-Terphenyl-d14	78.3	33 - 152		%REC	1	11/20/2015 4:16:00 PM
29B METALS						
MERCURY IN SOIL OR SLUDGE						
Mercury	< 0.10	0.10		mg/Kg-dry	1	11/20/2015 10:53:03 AM
29B METALS						
METALS IN SOIL OR SLUDGE BY ICP						
SW6010B SW3050B						
Analyst: STS						

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

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WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 2:25:00 PM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-011 **Matrix:** SOIL
Client Sample ID SS-17 (2-4')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B
METALS IN SOIL OR SLUDGE BY ICP						Analyst: STS
Arsenic	5.07	2.00		mg/Kg-dry	1	11/20/2015 1:28:38 AM
Barium	1,260	1.00		mg/Kg-dry	1	11/20/2015 1:28:38 AM
Cadmium	< 0.500	0.500		mg/Kg-dry	1	11/20/2015 1:28:38 AM
Chromium	16.3	1.00		mg/Kg-dry	1	11/20/2015 1:28:38 AM
Lead	21.4	1.00		mg/Kg-dry	1	11/20/2015 1:28:38 AM
Selenium	< 2.00	2.00		mg/Kg-dry	1	11/20/2015 1:28:38 AM
Strontium	85.1	1.00		mg/Kg-dry	1	11/20/2015 1:28:38 AM
Zinc	50.7	1.00		mg/Kg-dry	1	11/20/2015 1:28:38 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	4,160	46.8		mg/Kg-dry	1	11/20/2015 3:43:22 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	56.8	1.00		wt%	1	11/13/2015 5:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 2:30:00 PM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-012 **Matrix:** SOIL
Client Sample ID SS-17 (4-6')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	49.2	0.100		meq/100g	1	11/20/2015 2:38:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	6.14	0.10	*	mmhos/cm	1	11/19/2015 12:27:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	5.03	0.100		%	1	11/20/2015 2:38:00 PM
HEM, OIL & GREASE						
SW9071B						
HEM, Oil & Grease	0.36	0.05		% dry wt	1	11/23/2015 8:02:00 AM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	12.1	0.100	*		1	11/19/2015
Soluble Calcium	9.71	1.00		meq/L	1	11/19/2015
Soluble Magnesium	7.84	1.00		meq/L	1	11/19/2015
Soluble Sodium	35.9	1.00		meq/L	1	11/19/2015
TPH-D/O IN SOIL BY SW8015						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	142	10.0		mg/Kg	1	11/20/2015 7:24:00 PM
TPH (Oil Range)	84.2	10.0		mg/Kg	1	11/20/2015 7:24:00 PM
Surr: 4-Terphenyl-d14	76.5	33 - 152		%REC	1	11/20/2015 7:24:00 PM
29B METALS						
MERCURY IN SOIL OR SLUDGE						
Mercury	< 0.11	0.11		mg/Kg-dry	1	11/20/2015 10:55:47 AM
29B METALS						
METALS IN SOIL OR SLUDGE BY ICP						
SW6010B SW3050B						
Analyst: STS						

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



Element Materials Technology Lafayette
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Analytical Report

(consolidated)

WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 2:30:00 PM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-012 **Matrix:** SOIL
Client Sample ID SS-17 (4-6')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B
METALS IN SOIL OR SLUDGE BY ICP						Analyst: STS
Arsenic	9.37	2.00		mg/Kg-dry	1	11/20/2015 1:32:46 AM
Barium	2,250	0.998		mg/Kg-dry	1	11/20/2015 1:32:46 AM
Cadmium	< 0.499	0.499		mg/Kg-dry	1	11/20/2015 1:32:46 AM
Chromium	19.0	0.998		mg/Kg-dry	1	11/20/2015 1:32:46 AM
Lead	34.9	0.998		mg/Kg-dry	1	11/20/2015 1:32:46 AM
Selenium	< 2.00	2.00		mg/Kg-dry	1	11/20/2015 1:32:46 AM
Strontium	105	0.998		mg/Kg-dry	1	11/20/2015 1:32:46 AM
Zinc	66.5	0.998		mg/Kg-dry	1	11/20/2015 1:32:46 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	11,400	46.6		mg/Kg-dry	1	11/20/2015 3:46:45 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	58.9	1.00		wt%	1	11/13/2015 5:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 2:35:00 PM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-013 **Matrix:** SOIL
Client Sample ID SS-17 (6-8')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	52.2	0.100		meq/100g	1	11/20/2015 2:38:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	3.22	0.10		mmhos/cm	1	11/19/2015 12:27:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	5.94	0.100		%	1	11/20/2015 2:38:00 PM
HEM, OIL & GREASE						
SW9071B						
HEM, Oil & Grease	0.14	0.05		% dry wt	1	11/23/2015 8:02:00 AM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	12.0	0.100			1	11/19/2015
Soluble Calcium	4.00	1.00		meq/L	1	11/19/2015
Soluble Magnesium	5.70	1.00		meq/L	1	11/19/2015
Soluble Sodium	26.3	1.00		meq/L	1	11/19/2015
TPH-D/O IN SOIL BY SW8015						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	19.7	10.0		mg/Kg	1	11/20/2015 7:40:00 PM
TPH (Oil Range)	16.3	10.0		mg/Kg	1	11/20/2015 7:40:00 PM
Surr: 4-Terphenyl-d14	75.4	33 - 152		%REC	1	11/20/2015 7:40:00 PM
29B METALS						
MERCURY IN SOIL OR SLUDGE						
Mercury	< 0.11	0.11		mg/Kg-dry	1	11/20/2015 10:58:10 AM
29B METALS						
METALS IN SOIL OR SLUDGE BY ICP						
SW6010B SW3050B						
Analyst: STS						

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 2:35:00 PM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-013 **Matrix:** SOIL
Client Sample ID SS-17 (6-8')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B
METALS IN SOIL OR SLUDGE BY ICP						Analyst: STS
Arsenic	8.56	1.99		mg/Kg-dry	1	11/20/2015 1:36:41 AM
Barium	356	0.993		mg/Kg-dry	1	11/20/2015 1:36:41 AM
Cadmium	< 0.497	0.497		mg/Kg-dry	1	11/20/2015 1:36:41 AM
Chromium	15.1	0.993		mg/Kg-dry	1	11/20/2015 1:36:41 AM
Lead	16.5	0.993		mg/Kg-dry	1	11/20/2015 1:36:41 AM
Selenium	< 1.99	1.99		mg/Kg-dry	1	11/20/2015 1:36:41 AM
Strontium	47.6	0.993		mg/Kg-dry	1	11/20/2015 1:36:41 AM
Zinc	68.1	0.993		mg/Kg-dry	1	11/20/2015 1:36:41 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	1,320	47.5		mg/Kg-dry	1	11/20/2015 3:50:10 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	51.0	1.00		wt%	1	11/13/2015 5:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

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WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 3:55:00 PM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-014 **Matrix:** SOIL
Client Sample ID SS-26(0-2')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	48.5	0.100		meq/100g	1	11/20/2015 2:38:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	6.32	0.10	*	mmhos/cm	1	11/19/2015 12:27:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	14.0	0.100		%	1	11/20/2015 2:38:00 PM
HEM, OIL & GREASE						
SW9071B						
HEM, Oil & Grease	3.75	0.05	*	% dry wt	1	11/23/2015 8:02:00 AM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	24.0	0.100	*		1	11/19/2015
Soluble Calcium	2.58	1.00		meq/L	1	11/19/2015
Soluble Magnesium	4.58	1.00		meq/L	1	11/19/2015
Soluble Sodium	45.4	1.00		meq/L	1	11/19/2015
TPH-D/O IN SOIL BY SW8015						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	4,410	500		mg/Kg	50	11/23/2015 12:04:00 PM
TPH (Oil Range)	2,970	500		mg/Kg	50	11/23/2015 12:04:00 PM
Surr: 4-Terphenyl-d14	0	33 - 152	SD	%REC	50	11/23/2015 12:04:00 PM
NOTES:						
SD - Surrogate diluted out due to dilution.						
29B METALS						
MERCURY IN SOIL OR SLUDGE						
Mercury	0.12	0.11		mg/Kg-dry	1	11/20/2015 11:00:34 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
	M	Matrix Interference	ND	Not Detected at the Reporting Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: **15110637**

Date Reported: **11/25/2015**

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 3:55:00 PM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-014 **Matrix:** SOIL
Client Sample ID SS-26(0-2')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B
METALS IN SOIL OR SLUDGE BY ICP						Analyst: STS
Arsenic	4.46	1.99		mg/Kg-dry	1	11/20/2015 1:40:13 AM
Barium	806	0.995		mg/Kg-dry	1	11/20/2015 1:40:13 AM
Cadmium	< 0.498	0.498		mg/Kg-dry	1	11/20/2015 1:40:13 AM
Chromium	11.1	0.995		mg/Kg-dry	1	11/20/2015 1:40:13 AM
Lead	17.2	0.995		mg/Kg-dry	1	11/20/2015 1:40:13 AM
Selenium	< 1.99	1.99		mg/Kg-dry	1	11/20/2015 1:40:13 AM
Strontium	134	9.95		mg/Kg-dry	10	11/20/2015 2:10:30 AM
Zinc	41.4	0.995		mg/Kg-dry	1	11/20/2015 1:40:13 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	1,220	45.7		mg/Kg-dry	1	11/20/2015 3:53:33 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	52.2	1.00		wt%	1	11/13/2015 5:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 4:00:00 PM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-015 **Matrix:** SOIL
Client Sample ID SS-26(2-4')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	95.5	0.100		meq/100g	1	11/20/2015 2:38:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	18.3	0.10	*	mmhos/cm	1	11/19/2015 12:27:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	19.7	0.100	*	%	1	11/20/2015 2:38:00 PM
HEM, OIL & GREASE						
SW9071B						
HEM, Oil & Grease	1.78	0.05	*	% dry wt	1	11/23/2015 8:02:00 AM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	43.4	0.100	*		1	11/19/2015
Soluble Calcium	10.2	1.00		meq/L	1	11/19/2015
Soluble Magnesium	14.4	1.00		meq/L	1	11/19/2015
Soluble Sodium	152	1.00		meq/L	1	11/19/2015
TPH-D/O IN SOIL BY SW8015						
TPH DRO/ORO IN SOIL BY SW8015						
TPH (Diesel Range)	553	50.0		mg/Kg	5	11/23/2015 12:51:00 PM
TPH (Oil Range)	455	50.0		mg/Kg	5	11/23/2015 12:51:00 PM
Surr: 4-Terphenyl-d14	85.1	33 - 152		%REC	5	11/23/2015 12:51:00 PM
29B METALS						
MERCURY IN SOIL OR SLUDGE						
Mercury	< 0.10	0.10		mg/Kg-dry	1	11/20/2015 11:03:16 AM
29B METALS						
METALS IN SOIL OR SLUDGE BY ICP						
SW6010B SW3050B						
Analyst: STS						

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

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WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/12/2015 4:00:00 PM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-015 **Matrix:** SOIL
Client Sample ID SS-26(2-4')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS					SW6010B	SW3050B
METALS IN SOIL OR SLUDGE BY ICP						Analyst: STS
Arsenic	9.59	1.99		mg/Kg-dry	1	11/20/2015 1:43:26 AM
Barium	603	0.997		mg/Kg-dry	1	11/20/2015 1:43:26 AM
Cadmium	< 0.499	0.499		mg/Kg-dry	1	11/20/2015 1:43:26 AM
Chromium	9.06	0.997		mg/Kg-dry	1	11/20/2015 1:43:26 AM
Lead	10.7	0.997		mg/Kg-dry	1	11/20/2015 1:43:26 AM
Selenium	< 1.99	1.99		mg/Kg-dry	1	11/20/2015 1:43:26 AM
Strontium	272	9.97		mg/Kg-dry	10	11/20/2015 2:13:57 AM
Zinc	29.5	0.997		mg/Kg-dry	1	11/20/2015 1:43:26 AM
29B METALS					LDNR 29-B	Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	887	48.6		mg/Kg-dry	1	11/20/2015 4:04:09 AM
PERCENT MOISTURE					LDNR 29-B	Analyst: MMT
Percent Moisture	80.2	1.00		wt%	1	11/13/2015 5:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/13/2015 10:00:00 AM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-016 **Matrix:** SOIL
Client Sample ID SS-16 (4-6')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	84.1	0.100		meq/100g	1	11/20/2015 2:38:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	9.52	0.10	*	mmhos/cm	1	11/19/2015 12:27:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	31.5	0.100	*	%	1	11/20/2015 2:38:00 PM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	50.9	0.100	*		1	11/19/2015
Soluble Calcium	2.36	1.00		meq/L	1	11/19/2015
Soluble Magnesium	1.89	1.00		meq/L	1	11/19/2015
Soluble Sodium	74.2	1.00		meq/L	1	11/19/2015
29B METALS						
MERCURY IN SOIL OR SLUDGE						
Mercury	< 0.09	0.09		mg/Kg-dry	1	11/20/2015 11:11:15 AM
29B METALS						
METALS IN SOIL OR SLUDGE BY ICP						
Arsenic	6.34	2.00		mg/Kg-dry	1	11/20/2015 1:46:32 AM
Barium	333	0.999		mg/Kg-dry	1	11/20/2015 1:46:32 AM
Cadmium	< 0.500	0.500		mg/Kg-dry	1	11/20/2015 1:46:32 AM
Chromium	10.4	0.999		mg/Kg-dry	1	11/20/2015 1:46:32 AM
Lead	17.1	0.999		mg/Kg-dry	1	11/20/2015 1:46:32 AM
Selenium	< 2.00	2.00		mg/Kg-dry	1	11/20/2015 1:46:32 AM
Strontium	217	9.99		mg/Kg-dry	10	11/20/2015 2:17:25 AM
Zinc	45.2	0.999		mg/Kg-dry	1	11/20/2015 1:46:32 AM
29B METALS						
TRUE TOTAL BARIUM						

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/13/2015 10:00:00 AM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-016 **Matrix:** SOIL
Client Sample ID SS-16 (4-6')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS				LDNR 29-B		Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	546	48.7		mg/Kg-dry	1	11/20/2015 4:07:34 AM
PERCENT MOISTURE				LDNR 29-B		Analyst: MMT
Percent Moisture	72.3	1.00		wt%	1	11/13/2015 5:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

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WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/13/2015 10:05:00 AM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-017 **Matrix:** SOIL
Client Sample ID SS-16 (0-2')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	65.1	0.100		meq/100g	1	11/20/2015 2:38:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	5.80	0.10	*	mmhos/cm	1	11/19/2015 12:27:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	11.1	0.100		%	1	11/20/2015 2:38:00 PM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	17.7	0.100	*		1	11/19/2015
Soluble Calcium	3.23	1.00		meq/L	1	11/19/2015
Soluble Magnesium	5.76	1.00		meq/L	1	11/19/2015
Soluble Sodium	37.6	1.00		meq/L	1	11/19/2015
29B METALS						
MERCURY IN SOIL OR SLUDGE						
Mercury	0.24	0.11		mg/Kg-dry	1	11/20/2015 11:13:58 AM
29B METALS						
METALS IN SOIL OR SLUDGE BY ICP						
Arsenic	6.95	1.99		mg/Kg-dry	1	11/20/2015 1:49:39 AM
Barium	722	0.997		mg/Kg-dry	1	11/20/2015 1:49:39 AM
Cadmium	< 0.499	0.499		mg/Kg-dry	1	11/20/2015 1:49:39 AM
Chromium	14.0	0.997		mg/Kg-dry	1	11/20/2015 1:49:39 AM
Lead	19.9	0.997		mg/Kg-dry	1	11/20/2015 1:49:39 AM
Selenium	< 1.99	1.99		mg/Kg-dry	1	11/20/2015 1:49:39 AM
Strontium	111	9.97		mg/Kg-dry	10	11/20/2015 2:20:51 AM
Zinc	72.2	0.997		mg/Kg-dry	1	11/20/2015 1:49:39 AM
29B METALS						
TRUE TOTAL BARIUM						
					LDNR 29-B	Analyst: STS

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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 Website: www.element.com

Analytical Report

(consolidated)

WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/13/2015 10:05:00 AM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-017 **Matrix:** SOIL
Client Sample ID SS-16 (0-2')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS				LDNR 29-B		Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	1,640	49.1		mg/Kg-dry	1	11/20/2015 4:10:57 AM
PERCENT MOISTURE				LDNR 29-B		Analyst: MMT
Percent Moisture	65.9	1.00		wt%	1	11/13/2015 5:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/13/2015 10:10:00 AM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-018 **Matrix:** SOIL
Client Sample ID SS-16 (2-4')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B SALTS						
CATION EXCHANGE CAPACITY						
Cation Exchange Capacity	113	0.100		meq/100g	1	11/20/2015 2:38:00 PM
29B SALTS						
ELECTRICAL CONDUCTIVITY @ SATURATION						
Electrical Conductivity	12.6	0.10	*	mmhos/cm	1	11/19/2015 12:27:00 PM
29B SALTS						
EXCHANGEABLE SODIUM PERCENTAGE						
Exchangeable Sodium %	18.1	0.100	*	%	1	11/20/2015 2:38:00 PM
29B SALTS						
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	48.1	0.100	*		1	11/19/2015
Soluble Calcium	4.66	1.00		meq/L	1	11/19/2015
Soluble Magnesium	3.88	1.00		meq/L	1	11/19/2015
Soluble Sodium	99.4	1.00		meq/L	1	11/19/2015
29B METALS						
MERCURY IN SOIL OR SLUDGE						
Mercury	< 0.10	0.10		mg/Kg-dry	1	11/20/2015 11:16:42 AM
29B METALS						
METALS IN SOIL OR SLUDGE BY ICP						
Arsenic	9.59	1.99		mg/Kg-dry	1	11/20/2015 1:52:45 AM
Barium	578	0.996		mg/Kg-dry	1	11/20/2015 1:52:45 AM
Cadmium	< 0.498	0.498		mg/Kg-dry	1	11/20/2015 1:52:45 AM
Chromium	6.97	0.996		mg/Kg-dry	1	11/20/2015 1:52:45 AM
Lead	8.15	0.996		mg/Kg-dry	1	11/20/2015 1:52:45 AM
Selenium	< 1.99	1.99		mg/Kg-dry	1	11/20/2015 1:52:45 AM
Strontium	413	9.96		mg/Kg-dry	10	11/20/2015 2:24:18 AM
Zinc	31.8	0.996		mg/Kg-dry	1	11/20/2015 1:52:45 AM
29B METALS						
TRUE TOTAL BARIUM						
					LDNR 29-B	Analyst: STS

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 15110637

Date Reported: 11/25/2015

CLIENT: ICON Environmental Services **Collection Date:** 11/13/2015 10:10:00 AM
Project: VPSB East White Lake 9077-041-0800
Lab ID: 15110637-018 **Matrix:** SOIL
Client Sample ID SS-16 (2-4')

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
29B METALS				LDNR 29-B		Analyst: STS
TRUE TOTAL BARIUM						
True Total Barium	843	46.9		mg/Kg-dry	1	11/20/2015 4:14:21 AM
PERCENT MOISTURE				LDNR 29-B		Analyst: MMT
Percent Moisture	84.3	1.00		wt%	1	11/13/2015 5:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded
M	Matrix Interference	ND	Not Detected at the Reporting Limit
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QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: 17388

Sample ID	15110636-042AMS-	SampType: MS	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/17/2015	RunNo: 48638					
Client ID:	ZZZZZZ	Batch ID: 17388	TestNo: SW8015B	SW3550C	Analysis Date: 11/20/2015	SeqNo: 1188150					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel Range)	88.5	10.0	100.0	12.42	76.1	23.4	123				
Surr: 4-Terphenyl-d14	2.67		3.330		80.1	33	152				

Sample ID	15110636-042AMSD	SampType: MS	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/17/2015	RunNo: 48638					
Client ID:	ZZZZZZ	Batch ID: 17388	TestNo: SW8015B	SW3550C	Analysis Date: 11/20/2015	SeqNo: 1188151					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel Range)	91.7	10.0	100.0	12.42	79.2	23.4	123				
Surr: 4-Terphenyl-d14	2.69		3.330		80.8	33	152				

Sample ID	LCS-D17388	SampType: LCS	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/17/2015	RunNo: 48638					
Client ID:	LCSS	Batch ID: 17388	TestNo: SW8015B	SW3550C	Analysis Date: 11/19/2015	SeqNo: 1188157					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel Range)	90.0	10.0	100.0	0	90.0	63.4	109				
Surr: 4-Terphenyl-d14	2.80		3.330		84.2	33	152				

Sample ID	LCSD-D17388	SampType: LCSD	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/17/2015	RunNo: 48638					
Client ID:	LCSS02	Batch ID: 17388	TestNo: SW8015B	SW3550C	Analysis Date: 11/19/2015	SeqNo: 1188158					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel Range)	83.6	10.0	100.0	0	83.6	63.4	109	90.03	7.45	17.2	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: 17388

Sample ID	LCSD-D17388	SampType:	LCSD	TestCode:	8015_DO_S	Units:	mg/Kg	Prep Date:	11/17/2015	RunNo:	48638			
Client ID:	LCSS02	Batch ID:	17388	TestNo:	SW8015B		SW3550C	Analysis Date:	11/19/2015	SeqNo:	1188158			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14		2.73			3.330			82.1	33	152		0	40	

Sample ID	MB-17388	SampType:	MBLK	TestCode:	8015_DO_S	Units:	mg/Kg	Prep Date:	11/17/2015	RunNo:	48638			
Client ID:	PBS	Batch ID:	17388	TestNo:	SW8015B		SW3550C	Analysis Date:	11/19/2015	SeqNo:	1188159			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel Range)		< 10.0		10.0										
TPH (Oil Range)		< 10.0		10.0										
Surr: 4-Terphenyl-d14		2.64			3.330			79.4	33	152				

Sample ID	15110636-042AMS-	SampType:	MS	TestCode:	8015_DO_S	Units:	mg/Kg	Prep Date:	11/17/2015	RunNo:	48638			
Client ID:	ZZZZZ	Batch ID:	17388	TestNo:	SW8015B		SW3550C	Analysis Date:	11/21/2015	SeqNo:	1189090			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Oil Range)		129		10.0	100.0	50.55		78.8	14.5	174				
Surr: 4-Terphenyl-d14		2.76			3.330			82.8	33	152				

Sample ID	15110636-042AMSD	SampType:	MSD	TestCode:	8015_DO_S	Units:	mg/Kg	Prep Date:	11/17/2015	RunNo:	48638			
Client ID:	ZZZZZ	Batch ID:	17388	TestNo:	SW8015B		SW3550C	Analysis Date:	11/21/2015	SeqNo:	1189091			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Oil Range)		125		10.0	100.0	50.55		74.9	14.5	174	129.3	3.03	48.8	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- U Analyte not detected
- H Holding times for preparation or analysis exceeded
- RL Reporting Limit
- W Sample container temperature is out of limit as specified at testcode
- M Matrix Interference
- S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: 17388

Sample ID	15110636-042AMSD	SampType:	MSD	TestCode:	8015_DO_S	Units:	mg/Kg	Prep Date:	11/17/2015	RunNo:	48638		
Client ID:	ZZZZZZ	Batch ID:	17388	TestNo:	SW8015B	SW3550C		Analysis Date:	11/21/2015	SeqNo:	1189091		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14		2.47			3.330		74.2	33	152		0	40	

Sample ID	LCSD-M17388	SampType:	LCSD	TestCode:	8015_DO_S	Units:	mg/Kg	Prep Date:	11/17/2015	RunNo:	48638		
Client ID:	LCSS02	Batch ID:	17388	TestNo:	SW8015B	SW3550C		Analysis Date:	11/20/2015	SeqNo:	1189106		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Oil Range)		93.1		10.0	100.0	0	93.1	63.9	120	97.12	4.28	16.6	
Surr: 4-Terphenyl-d14		3.04			3.330		91.3	33	152		0	40	

Sample ID	LCS-M17388	SampType:	LCS	TestCode:	8015_DO_S	Units:	mg/Kg	Prep Date:	11/17/2015	RunNo:	48638		
Client ID:	LCSS	Batch ID:	17388	TestNo:	SW8015B	SW3550C		Analysis Date:	11/20/2015	SeqNo:	1189107		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Oil Range)		97.1		10.0	100.0	0	97.1	63.9	120				
Surr: 4-Terphenyl-d14		3.18			3.330		95.6	33	152				

Qualifiers:

- | | | |
|--|---|---|
| * Value exceeds Maximum Contaminant Level. | H Holding times for preparation or analysis exceeded | M Matrix Interference |
| ND Not Detected at the Reporting Limit | RL Reporting Limit | S Spike Recovery outside accepted recovery limits |
| U Analyte not detected | W Sample container temperature is out of limit as specified at testcode | |



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QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: 17410

Sample ID	MB-17410	SampType:	MBLK	TestCode:	6010_S_29B	Units:	mg/Kg-dry	Prep Date:	11/18/2015	RunNo:	48627
Client ID:	PBS	Batch ID:	17410	TestNo:	SW6010B	SW3050B		Analysis Date:	11/20/2015	SeqNo:	1187778
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Arsenic		< 2.00		2.00							
Barium		< 1.00		1.00							
Cadmium		< 0.500		0.500							
Chromium		< 1.00		1.00							
Lead		< 1.00		1.00							
Selenium		< 2.00		2.00							
Strontium		< 1.00		1.00							
Zinc		< 1.00		1.00							

Sample ID	LCS-17410	SampType:	LCS	TestCode:	6010_S_29B	Units:	mg/Kg-dry	Prep Date:	11/18/2015	RunNo:	48627
Client ID:	LCSS	Batch ID:	17410	TestNo:	SW6010B	SW3050B		Analysis Date:	11/20/2015	SeqNo:	1187779
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Arsenic		47.8		2.00	50.00	0	95.7	80	120		
Barium		48.8		1.00	50.00	0	97.6	80	120		
Cadmium		47.9		0.500	50.00	0	95.7	80	120		
Chromium		48.7		1.00	50.00	0	97.3	80	120		
Lead		48.8		1.00	50.00	0	97.6	80	120		
Selenium		48.1		2.00	50.00	0	96.2	80	120		
Strontium		48.6		1.00	50.00	0	97.3	80	120		
Zinc		48.6		1.00	50.00	0	97.1	80	120		

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- U Analyte not detected
- H Holding times for preparation or analysis exceeded
- RL Reporting Limit
- W Sample container temperature is out of limit as specified at testcode
- M Matrix Interference
- S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: 17410

Sample ID	LCSD-17410	SampType:	LCSD	TestCode:	6010_S_29B	Units:	mg/Kg-dry	Prep Date:	11/18/2015	RunNo:	48627
Client ID:	LCSS02	Batch ID:	17410	TestNo:	SW6010B		SW3050B	Analysis Date:	11/20/2015	SeqNo:	1187780
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	48.4	2.00	50.00	0	96.8	80	120	47.83	1.14	20	
Barium	48.7	1.00	50.00	0	97.4	80	120	48.78	0.185	20	
Cadmium	47.8	0.500	50.00	0	95.7	80	120	47.87	0.0418	20	
Chromium	48.6	1.00	50.00	0	97.2	80	120	48.67	0.165	20	
Lead	48.6	1.00	50.00	0	97.2	80	120	48.82	0.431	20	
Selenium	47.8	2.00	50.00	0	95.6	80	120	48.08	0.542	20	
Strontium	48.6	1.00	50.00	0	97.1	80	120	48.63	0.165	20	
Zinc	48.4	1.00	50.00	0	96.8	80	120	48.55	0.268	20	

Sample ID	15110637-001AMS	SampType:	MS	TestCode:	6010_S_29B	Units:	mg/Kg-dry	Prep Date:	11/18/2015	RunNo:	48627
Client ID:	SS-19 (0-2')	Batch ID:	17410	TestNo:	SW6010B		SW3050B	Analysis Date:	11/20/2015	SeqNo:	1187782
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	66.4	2.00	49.90	8.875	115	75	125				
Barium	555	0.998	49.90	513.5	82.2	75	125				
Cadmium	56.0	0.499	49.90	0.8386	111	75	125				
Chromium	74.6	0.998	49.90	18.35	113	75	125				
Lead	73.2	0.998	49.90	19.23	108	75	125				
Selenium	46.0	2.00	49.90	0	92.3	75	125				
Zinc	216	0.998	49.90	163.6	104	75	125				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- U Analyte not detected
- H Holding times for preparation or analysis exceeded
- RL Reporting Limit
- W Sample container temperature is out of limit as specified at testcode
- M Matrix Interference
- S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: 17410

Sample ID	15110637-001AMSD	SampType:	MSD	TestCode:	6010_S_29B	Units:	mg/Kg-dry	Prep Date:	11/18/2015	RunNo:	48627
Client ID:	SS-19 (0-2')	Batch ID:	17410	TestNo:	SW6010B	SW3050B		Analysis Date:	11/20/2015	SeqNo:	1187783
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	66.2	2.00	49.91	8.875	115	75	125	66.37	0.311	20	
Barium	556	0.998	49.91	513.5	84.8	75	125	554.5	0.236	20	
Cadmium	55.8	0.499	49.91	0.8386	110	75	125	56.00	0.355	20	
Chromium	74.5	0.998	49.91	18.35	112	75	125	74.64	0.248	20	
Lead	73.1	0.998	49.91	19.23	108	75	125	73.23	0.226	20	
Selenium	45.5	2.00	49.91	0	91.3	75	125	46.04	1.09	20	
Zinc	216	0.998	49.91	163.6	105	75	125	215.7	0.0200	20	

Sample ID	15110637-001AMS	SampType:	MS	TestCode:	6010_S_29B	Units:	mg/Kg-dry	Prep Date:	11/18/2015	RunNo:	48627
Client ID:	SS-19 (0-2')	Batch ID:	17410	TestNo:	SW6010B	SW3050B		Analysis Date:	11/20/2015	SeqNo:	1187792
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Strontium	243	9.98	49.90	188.6	108	75	125				

Sample ID	15110637-001AMSD	SampType:	MSD	TestCode:	6010_S_29B	Units:	mg/Kg-dry	Prep Date:	11/18/2015	RunNo:	48627
Client ID:	SS-19 (0-2')	Batch ID:	17410	TestNo:	SW6010B	SW3050B		Analysis Date:	11/20/2015	SeqNo:	1187793
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Strontium	240	9.98	49.91	188.6	103	75	125	242.6	1.01	20	

Qualifiers:

- | | | |
|--|---|---|
| * Value exceeds Maximum Contaminant Level. | H Holding times for preparation or analysis exceeded | M Matrix Interference |
| ND Not Detected at the Reporting Limit | RL Reporting Limit | S Spike Recovery outside accepted recovery limits |
| U Analyte not detected | W Sample container temperature is out of limit as specified at testcode | |



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QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: 17412

Sample ID	MB-17412	SampType:	MBLK	TestCode:	TTBA	Units:	mg/Kg-dry	Prep Date:	11/18/2015	RunNo:	48627			
Client ID:	PBS	Batch ID:	17412	TestNo:	LDNR 29-B			Analysis Date:	11/20/2015	SeqNo:	1187822			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
True Total Barium		< 50.0		50.0										

Sample ID	LCS-17412	SampType:	LCS	TestCode:	TTBA	Units:	mg/Kg-dry	Prep Date:	11/18/2015	RunNo:	48627			
Client ID:	LCSS	Batch ID:	17412	TestNo:	LDNR 29-B			Analysis Date:	11/20/2015	SeqNo:	1187823			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
True Total Barium		5,060		50.0	5,000	0		101	75	125				

Sample ID	LCSD-17412	SampType:	LCSD	TestCode:	TTBA	Units:	mg/Kg-dry	Prep Date:	11/18/2015	RunNo:	48627			
Client ID:	LCSS02	Batch ID:	17412	TestNo:	LDNR 29-B			Analysis Date:	11/20/2015	SeqNo:	1187824			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
True Total Barium		5,010		50.0	5,000	0		100	75	125	5,055	0.994	20	

Sample ID	15110531-001AMS	SampType:	MS	TestCode:	TTBA	Units:	mg/Kg-dry	Prep Date:	11/18/2015	RunNo:	48627			
Client ID:	ZZZZZZ	Batch ID:	17412	TestNo:	LDNR 29-B			Analysis Date:	11/20/2015	SeqNo:	1187826			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
True Total Barium		6,490		46.6	4,660	1,348		110	75	125				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- U Analyte not detected
- H Holding times for preparation or analysis exceeded
- RL Reporting Limit
- W Sample container temperature is out of limit as specified at testcode
- M Matrix Interference
- S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: 17412

Sample ID	15110531-001AMSD	SampType:	MSD	TestCode:	TTBA	Units:	mg/Kg-dry	Prep Date:	11/18/2015	RunNo:	48627		
Client ID:	ZZZZZZ	Batch ID:	17412	TestNo:	LDNR 29-B			Analysis Date:	11/20/2015	SeqNo:	1187827		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
True Total Barium		6,450		46.3	4,634	1,348	110	75	125	6,486	0.558	20	

Qualifiers:

- | | | | | | |
|----|--|----|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | H | Holding times for preparation or analysis exceeded | M | Matrix Interference |
| ND | Not Detected at the Reporting Limit | RL | Reporting Limit | S | Spike Recovery outside accepted recovery limits |
| U | Analyte not detected | W | Sample container temperature is out of limit as specified at testcode | | |



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QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: 17415

Sample ID	MB-17415	SampType:	MBLK	TestCode:	HG_S_29B	Units:	mg/Kg-dry	Prep Date:	11/19/2015	RunNo:	48642
Client ID:	PBS	Batch ID:	17415	TestNo:	29B/SW7471 SW7471A	Analysis Date:	11/20/2015	SeqNo:	1188290		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Mercury < 0.10 0.10

Sample ID	LCS-17415	SampType:	LCS	TestCode:	HG_S_29B	Units:	mg/Kg-dry	Prep Date:	11/19/2015	RunNo:	48642
Client ID:	LCSS	Batch ID:	17415	TestNo:	29B/SW7471 SW7471A	Analysis Date:	11/20/2015	SeqNo:	1188291		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Mercury 0.84 0.10 0.83 0 101 80 120

Sample ID	LCSD-17415	SampType:	LCSD	TestCode:	HG_S_29B	Units:	mg/Kg-dry	Prep Date:	11/19/2015	RunNo:	48642
Client ID:	LCSS02	Batch ID:	17415	TestNo:	29B/SW7471 SW7471A	Analysis Date:	11/20/2015	SeqNo:	1188292		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Mercury 0.87 0.10 0.83 0 104 80 120 0.84 2.43 20

Sample ID	15110637-001AMS	SampType:	MS	TestCode:	HG_S_29B	Units:	mg/Kg-dry	Prep Date:	11/19/2015	RunNo:	48642
Client ID:	SS-19 (0-2')	Batch ID:	17415	TestNo:	29B/SW7471 SW7471A	Analysis Date:	11/20/2015	SeqNo:	1188294		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Mercury 1.62 0.11 0.88 0.74 100 75 125

Qualifiers: * Value exceeds Maximum Contaminant Level. H Holding times for preparation or analysis exceeded M Matrix Interference
 ND Not Detected at the Reporting Limit RL Reporting Limit S Spike Recovery outside accepted recovery limits
 U Analyte not detected W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: 17415

Sample ID	15110637-001AMSD	SampType:	MSD	TestCode:	HG_S_29B	Units:	mg/Kg-dry	Prep Date:	11/19/2015	RunNo:	48642		
Client ID:	SS-19 (0-2')	Batch ID:	17415	TestNo:	29B/SW7471 SW7471A	Analysis Date:	11/20/2015	SeqNo:	1188295				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		1.56		0.10	0.85	0.74	95.8	75	125	1.62	3.91	20	

Qualifiers:

- | | | | | | |
|----|--|----|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | H | Holding times for preparation or analysis exceeded | M | Matrix Interference |
| ND | Not Detected at the Reporting Limit | RL | Reporting Limit | S | Spike Recovery outside accepted recovery limits |
| U | Analyte not detected | W | Sample container temperature is out of limit as specified at testcode | | |



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QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: 17426

Sample ID	LCS-D17426	SampType: LCS	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/19/2015	RunNo: 48678					
Client ID:	LCSS	Batch ID: 17426	TestNo: SW8015B	SW3550C	Analysis Date: 11/20/2015	SeqNo: 1189070					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel Range)	86.1	10.0	100.0	0	86.1	63.4	109				
Surr: 4-Terphenyl-d14	2.69		3.330		80.8	33	152				

Sample ID	LCSD-D17426	SampType: LCSD	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/19/2015	RunNo: 48678					
Client ID:	LCSS02	Batch ID: 17426	TestNo: SW8015B	SW3550C	Analysis Date: 11/20/2015	SeqNo: 1189071					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel Range)	93.5	10.0	100.0	0	93.5	63.4	109	86.13	8.15	17.2	
Surr: 4-Terphenyl-d14	3.46		3.330		104	33	152		0	40	

Sample ID	LCSD-M17426	SampType: LCSD	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/19/2015	RunNo: 48678					
Client ID:	LCSS02	Batch ID: 17426	TestNo: SW8015B	SW3550C	Analysis Date: 11/20/2015	SeqNo: 1189072					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Oil Range)	89.0	10.0	100.0	0	89.0	63.9	120	87.19	2.08	16.6	
Surr: 4-Terphenyl-d14	3.04		3.330		91.3	33	152		0	40	

Sample ID	LCS-M17426	SampType: LCS	TestCode: 8015_DO_S	Units: mg/Kg	Prep Date: 11/19/2015	RunNo: 48678					
Client ID:	LCSS	Batch ID: 17426	TestNo: SW8015B	SW3550C	Analysis Date: 11/20/2015	SeqNo: 1189073					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Oil Range)	87.2	10.0	100.0	0	87.2	63.9	120				

Qualifiers:

- | | | |
|--|---|---|
| * Value exceeds Maximum Contaminant Level. | H Holding times for preparation or analysis exceeded | M Matrix Interference |
| ND Not Detected at the Reporting Limit | RL Reporting Limit | S Spike Recovery outside accepted recovery limits |
| U Analyte not detected | W Sample container temperature is out of limit as specified at testcode | |



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QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: 17426

Sample ID	LCS-M17426	SampType:	LCS	TestCode:	8015_DO_S	Units:	mg/Kg	Prep Date:	11/19/2015	RunNo:	48678			
Client ID:	LCSS	Batch ID:	17426	TestNo:	SW8015B		SW3550C	Analysis Date:	11/20/2015	SeqNo:	1189073			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 4-Terphenyl-d14 3.05 3.330 91.5 33 152

Sample ID	MB-17426	SampType:	MBLK	TestCode:	8015_DO_S	Units:	mg/Kg	Prep Date:	11/19/2015	RunNo:	48678			
Client ID:	PBS	Batch ID:	17426	TestNo:	SW8015B		SW3550C	Analysis Date:	11/20/2015	SeqNo:	1189074			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range) < 10.0 10.0
 TPH (Oil Range) < 10.0 10.0
 Surr: 4-Terphenyl-d14 2.81 3.330 84.4 33 152

Sample ID	15110727-001BMS-	SampType:	MS	TestCode:	8015_DO_S	Units:	mg/Kg	Prep Date:	11/19/2015	RunNo:	48678			
Client ID:	ZZZZZZ	Batch ID:	17426	TestNo:	SW8015B		SW3550C	Analysis Date:	11/20/2015	SeqNo:	1189083			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Oil Range) 671 100 100.0 472.5 199 14.5 174
 Surr: 4-Terphenyl-d14 2.43 3.330 72.8 33 152

Sample ID	15110727-001BMSD	SampType:	MSD	TestCode:	8015_DO_S	Units:	mg/Kg	Prep Date:	11/19/2015	RunNo:	48678			
Client ID:	ZZZZZZ	Batch ID:	17426	TestNo:	SW8015B		SW3550C	Analysis Date:	11/20/2015	SeqNo:	1189084			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Oil Range) 529 100 100.0 472.5 56.3 14.5 174 671.4 23.8 48.8

Qualifiers: * Value exceeds Maximum Contaminant Level. H Holding times for preparation or analysis exceeded M Matrix Interference
 ND Not Detected at the Reporting Limit RL Reporting Limit S Spike Recovery outside accepted recovery limits
 U Analyte not detected W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: 17426

Sample ID	15110727-001BMSD	SampType:	MSD	TestCode:	8015_DO_S	Units:	mg/Kg	Prep Date:	11/19/2015	RunNo:	48678		
Client ID:	ZZZZZZ	Batch ID:	17426	TestNo:	SW8015B	SW3550C		Analysis Date:	11/20/2015	SeqNo:	1189084		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14		2.29			3.330		68.9	33	152		0	40	

Sample ID	15110727-001BMS-	SampType:	MS	TestCode:	8015_DO_S	Units:	mg/Kg	Prep Date:	11/19/2015	RunNo:	48678		
Client ID:	ZZZZZZ	Batch ID:	17426	TestNo:	SW8015B	SW3550C		Analysis Date:	11/20/2015	SeqNo:	1189085		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel Range)		1,130		100	100.0	1,127	-1.69	23.4	123				SM
Surr: 4-Terphenyl-d14		2.21			3.330		66.2	33	152				

Sample ID	15110727-001BMSD	SampType:	MSD	TestCode:	8015_DO_S	Units:	mg/Kg	Prep Date:	11/19/2015	RunNo:	48678		
Client ID:	ZZZZZZ	Batch ID:	17426	TestNo:	SW8015B	SW3550C		Analysis Date:	11/20/2015	SeqNo:	1189086		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel Range)		1,060		100	100.0	1,127	-63.3	23.4	123	1,125	5.63	35.6	SM
Surr: 4-Terphenyl-d14		2.58			3.330		77.4	33	152		0	40	

Qualifiers:

- | | | |
|--|---|---|
| * Value exceeds Maximum Contaminant Level. | H Holding times for preparation or analysis exceeded | M Matrix Interference |
| ND Not Detected at the Reporting Limit | RL Reporting Limit | S Spike Recovery outside accepted recovery limits |
| U Analyte not detected | W Sample container temperature is out of limit as specified at testcode | |



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QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: 17429

Sample ID	15110637-007ADUP	SampType:	DUP	TestCode:	SAR_S	Units:		Prep Date:	11/18/2015	RunNo:	48626
Client ID:	SS-22 (2-4')	Batch ID:	17429	TestNo:	LDNR 29-B	LDNR 29-B		Analysis Date:	11/19/2015	SeqNo:	1187401
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium Adsorption Ratio	12.6	0.100						12.67	0.163	20	*
Soluble Calcium	8.01	1.00						7.969	0.500	20	
Soluble Magnesium	10.7	1.00						10.65	0.0772	20	
Soluble Sodium	38.6	1.00						38.65	0.0338	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- U Analyte not detected
- H Holding times for preparation or analysis exceeded
- RL Reporting Limit
- W Sample container temperature is out of limit as specified at testcode
- M Matrix Interference
- S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: 17453

Sample ID	15110637-007ADUP	SampType:	dup	TestCode:	ESP_S	Units:	%	Prep Date:	11/19/2015	RunNo:	48658		
Client ID:	SS-22 (2-4')	Batch ID:	17453	TestNo:	LDNR 29-B	LDNR 29-B		Analysis Date:	11/20/2015	SeqNo:	1188630		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Exchangeable Sodium %		6.48		0.100						6.720	3.64	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- U Analyte not detected
- H Holding times for preparation or analysis exceeded
- RL Reporting Limit
- W Sample container temperature is out of limit as specified at testcode
- M Matrix Interference
- S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: 17454

Sample ID	15110637-007ADUP	SampType:	dup	TestCode:	CEC	Units:	meq/100g	Prep Date:	11/19/2015	RunNo:	48657
Client ID:	SS-22 (2-4')	Batch ID:	17454	TestNo:	LDNR 29-B	LDNR 29-B		Analysis Date:	11/20/2015	SeqNo:	1188609
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Cation Exchange Capacity		54.9		0.100						55.11	0.459 20

Sample ID	lcs-17454	SampType:	lcs	TestCode:	CEC	Units:	meq/100g	Prep Date:	11/19/2015	RunNo:	48657
Client ID:	LCSS	Batch ID:	17454	TestNo:	LDNR 29-B	LDNR 29-B		Analysis Date:	11/20/2015	SeqNo:	1188621
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Cation Exchange Capacity		20.6		0.100	25.00	0	82.5	76	124		

Sample ID	lcsd-17454	SampType:	lcsd	TestCode:	CEC	Units:	meq/100g	Prep Date:	11/19/2015	RunNo:	48657
Client ID:	LCSS02	Batch ID:	17454	TestNo:	LDNR 29-B	LDNR 29-B		Analysis Date:	11/20/2015	SeqNo:	1188622
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Cation Exchange Capacity		20.9		0.100	25.00	0	83.6	76	124	20.63	1.30 20

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- U Analyte not detected
- H Holding times for preparation or analysis exceeded
- RL Reporting Limit
- W Sample container temperature is out of limit as specified at testcode
- M Matrix Interference
- S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: R48583

Sample ID	MB-R48583	SampType:	MBLK	TestCode:	HEM_S	Units:	% dry wt	Prep Date:		RunNo:	48583
Client ID:	PBS	Batch ID:	R48583	TestNo:	SW9071B			Analysis Date:	11/19/2015	SeqNo:	1187017
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
HEM, Oil & Grease		< 0.05		0.05							

Sample ID	LCS-R48583	SampType:	LCS	TestCode:	HEM_S	Units:	% dry wt	Prep Date:		RunNo:	48583
Client ID:	LCSS	Batch ID:	R48583	TestNo:	SW9071B			Analysis Date:	11/19/2015	SeqNo:	1187018
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
HEM, Oil & Grease		0.22		0.05	0.20	0	108	70	130		

Sample ID	LCSD-R48583	SampType:	LCSD	TestCode:	HEM_S	Units:	% dry wt	Prep Date:		RunNo:	48583
Client ID:	LCSS02	Batch ID:	R48583	TestNo:	SW9071B			Analysis Date:	11/19/2015	SeqNo:	1187019
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
HEM, Oil & Grease		0.22		0.05	0.20	0	110	70	130	0.22	1.83 40

Sample ID	15110637-007BMS	SampType:	MS	TestCode:	HEM_S	Units:	% dry wt	Prep Date:		RunNo:	48583
Client ID:	SS-22 (2-4')	Batch ID:	R48583	TestNo:	SW9071B			Analysis Date:	11/19/2015	SeqNo:	1187020
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
HEM, Oil & Grease		2.22		0.05	0.53	1.56	126	70	130		

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: R48583

Sample ID	15110637-007BDUP	SampType:	DUP	TestCode:	HEM_S	Units:	% dry wt	Prep Date:		RunNo:	48583		
Client ID:	SS-22 (2-4')	Batch ID:	R48583	TestNo:	SW9071B			Analysis Date:	11/19/2015	SeqNo:	1187021		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM, Oil & Grease		1.42		0.05						1.56	8.99	40	*

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- U Analyte not detected
- H Holding times for preparation or analysis exceeded
- RL Reporting Limit
- W Sample container temperature is out of limit as specified at testcode
- M Matrix Interference
- S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: R48592

Sample ID	MB-R48592	SampType:	MBLK	TestCode:	EC_S	Units:	mmhos/cm	Prep Date:		RunNo:	48592
Client ID:	PBS	Batch ID:	R48592	TestNo:	LDNR 29-B			Analysis Date:	11/19/2015	SeqNo:	1186849
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Electrical Conductivity		< 0.10		0.10							

Sample ID	R48592LCS1	SampType:	LCS1	TestCode:	EC_S	Units:	mmhos/cm	Prep Date:		RunNo:	48592
Client ID:	ZZZZZ	Batch ID:	R48592	TestNo:	LDNR 29-B			Analysis Date:	11/19/2015	SeqNo:	1186850
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Electrical Conductivity		0.48		0.10	0.47	0	101	89.87	110.12		

Sample ID	R48592LCS2	SampType:	LCS2	TestCode:	EC_S	Units:	mmhos/cm	Prep Date:		RunNo:	48592
Client ID:	ZZZZZ	Batch ID:	R48592	TestNo:	LDNR 29-B			Analysis Date:	11/19/2015	SeqNo:	1186852
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Electrical Conductivity		56.9		0.10	53.00	0	107	90	110		

Sample ID	15110637-007ADUP	SampType:	DUP	TestCode:	EC_S	Units:	mmhos/cm	Prep Date:		RunNo:	48592
Client ID:	SS-22 (2-4')	Batch ID:	R48592	TestNo:	LDNR 29-B			Analysis Date:	11/19/2015	SeqNo:	1186870
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Electrical Conductivity		6.83		0.10						7.06	3.31 20 *

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



Element Materials Technology Lafayette
 2417 W. Pinhook Road
 Lafayette, LA 70508-3344
 TEL: (337) 235-0483 FAX: (337) 233-6540
 Website: www.element.com

QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: R48670

Sample ID	MB-R48670	SampType:	MBLK	TestCode:	HEM_S	Units:	% dry wt	Prep Date:		RunNo:	48670
Client ID:	PBS	Batch ID:	R48670	TestNo:	SW9071B			Analysis Date:	11/23/2015	SeqNo:	1190070
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

HEM, Oil & Grease

< 0.05 0.05

Sample ID	LCS-R48670	SampType:	LCS	TestCode:	HEM_S	Units:	% dry wt	Prep Date:		RunNo:	48670
Client ID:	LCSS	Batch ID:	R48670	TestNo:	SW9071B			Analysis Date:	11/23/2015	SeqNo:	1190071
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

HEM, Oil & Grease

0.20 0.05 0.20 0 101 70 130

Sample ID	LCSD-R48670	SampType:	LCSD	TestCode:	HEM_S	Units:	% dry wt	Prep Date:		RunNo:	48670
Client ID:	LCSS02	Batch ID:	R48670	TestNo:	SW9071B			Analysis Date:	11/23/2015	SeqNo:	1190072
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

HEM, Oil & Grease

0.21 0.05 0.20 0 104 70 130 0.20 3.17 40

Sample ID	15110631-001AMS	SampType:	MS	TestCode:	HEM_S	Units:	% dry wt	Prep Date:		RunNo:	48670
Client ID:	ZZZZZZ	Batch ID:	R48670	TestNo:	SW9071B			Analysis Date:	11/23/2015	SeqNo:	1190073
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

HEM, Oil & Grease

1.02 0.05 0.52 0.38 125 70 130

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- U Analyte not detected
- H Holding times for preparation or analysis exceeded
- RL Reporting Limit
- W Sample container temperature is out of limit as specified at testcode
- M Matrix Interference
- S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: R48670

Sample ID	15110631-001ADUP	SampType:	DUP	TestCode:	HEM_S	Units:	% dry wt	Prep Date:		RunNo:	48670		
Client ID:	ZZZZZZ	Batch ID:	R48670	TestNo:	SW9071B			Analysis Date:	11/23/2015	SeqNo:	1190074		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM, Oil & Grease		0.40		0.05						0.38	6.37	40	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- U Analyte not detected
- H Holding times for preparation or analysis exceeded
- RL Reporting Limit
- W Sample container temperature is out of limit as specified at testcode
- M Matrix Interference
- S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 15110637
 25-Nov-15

Client: ICON Environmental Services
Project: VPSB East White Lake 9077-041-0800

BatchID: R48699

Sample ID	15110637-007ADUP	SampType:	dup	TestCode:	PMOIST	Units:	wt%	Prep Date:		RunNo:	48699		
Client ID:	SS-22 (2-4')	Batch ID:	R48699	TestNo:	LDNR 29-B			Analysis Date:	11/13/2015	SeqNo:	1189493		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture		61.8		1.00						61.95	0.233	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- U Analyte not detected
- H Holding times for preparation or analysis exceeded
- RL Reporting Limit
- W Sample container temperature is out of limit as specified at testcode
- M Matrix Interference
- S Spike Recovery outside accepted recovery limits



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 Website: www.element.com

Sample Log-In Check List

Client Name: **ICON_ENV**

Work Order Number: **15110637**

RcptNo: **1**

Logged by:	Tammy Thibodeaux	11/13/2015 1:35:00 PM	<i>Tammy Thibodeaux</i>
Completed By:	Tammy Thibodeaux	11/13/2015 4:48:23 PM	<i>Tammy Thibodeaux</i>
Reviewed By:	Caitlin Duplantis	11/18/2015 1:20:03 PM	<i>Caitlin Duplantis</i>

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 Custody seals intact on shipping container/cooler? Yes No Not Present
 No. Seal Date: Signed By:
 5. Was an attempt made to cool the samples? Yes No NA
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 7. Sample(s) in proper container(s)? Yes No
 8. Sufficient sample volume for indicated test(s)? Yes No
 9. Are samples (except VOA and ONG) properly preserved? Yes No
 10. Was preservative added to bottles? Yes No NA
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
 12. Were any sample containers received broken? Yes No
 13. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 14. Are matrices correctly identified on Chain of Custody? Yes No
 15. Is it clear what analyses were requested? Yes No
 16. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:
 Improper error correction(s) made by client.

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	Not Present			



Chain of Custody

Laboratory Number: **15110637**

Client Information: Company Name: **ICON** PO Number: **VP58** Project Name/Number: **VP58** Page **1** of **2**
 Contact Name: **JASON SILLS** Quote Number: **4077-041-0800** Matrix Code: **DW = Drinking Water, WW = Waste Water, GW = Ground Water, AQ = Aqueous, OT = Other, SL = Sludge, SOL = Solid, O = Oil, SO = Soil, F = Food, SW = Swab, NG = Natural Gas, NGL = Natural Gas Liquid, PW = Produced Water, CF = Completion Fluid**
 Address: **235-244-8490** Required QC Level: **Bill Monthly** Yes No
 City, State Zip: **Ext:** **UPS / FedEx / NOW** Shipping Method: **DHL / Element / Hand / Mail**

Sample ID/Description	Which Regulations Apply: <input type="checkbox"/> RCRA <input type="checkbox"/> Drinking Water <input type="checkbox"/> POTW <input type="checkbox"/> Distribution <input type="checkbox"/> NPDES <input type="checkbox"/> Special <input type="checkbox"/> USDA/FDA <input type="checkbox"/> State <input type="checkbox"/> RECAP/RISC <input type="checkbox"/> Other	Turn Time <input type="checkbox"/> Standard <input type="checkbox"/> RUSH <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> Other	Collection Information			Rush turn times will incur a surcharge and must be pre-approved by lab.)	Container Type Quantity	Pres. HCl, HNO ₃ , H ₂ SO ₄ NaOH, Na ₂ S ₂ O ₃	Requested Tests							Comments
			Date/Time		Matrix				SAR/ESP	CEL	316 Metals	TRH Dic	HEM OIG	% Moisture		
			Date	Time												
SS-11 0-2'			11/10/15	0845	C	P, 6	MA	X	X	X	X	X	X	X		
SS-11 2-4'			11/10/15	0850				X	X	X	X	X	X	X		
SS-12 0-2'			11/12/15	1015				X	X	X	X	X	X	X		
SS-12 2-4'			11/12/15	1020				X	X	X	X	X	X	X		
SS-12 4-6'			11/12/15	1025				X	X	X	X	X	X	X		
SS-14 0-2'			11/12/15	1205				X	X	X	X	X	X	X		
SS-14 2-4'			11/12/15	1210				X	X	X	X	X	X	X		
SS-14 4-6'			11/13/15	1215				X	X	X	X	X	X	X		
SS-14 6-8'			11/13/15	1220				X	X	X	X	X	X	X		

Relinquished by: *[Signature]* **Date/Time:** 11/13/15 13:35
Received by: *[Signature]* **Date/Time:** 11/13/15 13:35
 Field Notes: **Received at lab on ice?** Yes No **Temp:** **12**

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

9301 Innovation Drive, Suite 115 Daleville, IN 47334-0569 USA P 765-378-4103 F 765-378-4109
 629 Washington St. Suite 300 Columbus, IN 47201-6231 USA P 812-375-0531 F 812-375-0731
 2121 East Washington Boulevard Fort Wayne, IN 46803-1328 USA P 260-471-7000 F 260-471-7777
 909 Executive Dr Warsaw, IN 46580-2368 USA P 574-267-3305 F 574-269-6569
 3371 Cleveland Road, Suite 100A South Bend, IN 46628-9780 USA P 574-277-0707 F 574-273-5699
 2417 W. Pinhook Rd Lafayette, LA 70508-3344 USA P 337-235-0483 F 337-233-6540



Chain of Custody

Laboratory Number

15110637

Client Information: ICON Environmental
 Jason Sills
 2049 Commercial Dr
 Port Allen, LA
 225-344-8440
 Ext: _____

Billing Information: PO Number: _____
 Quote Number: _____
 Required QC Level: _____

Project Name/Number: EAST WHITE LAKE
 4077-041-0300

Matrix Code: DW = Drinking Water
 WW = Waste Water
 GW = Ground Water
 AQ = Aqueous
 OT = Other
 SL = Sludge
 O = Oil
 F = Food
 NG = Natural Gas
 NGL = Natural Gas Liquid
 PW = Produced Water
 CF = Completion Fluid

Requested Tests: % Moist, HEM O/C, TH O/C, 316 Metals, CEC, ES/STAR, EC

Shipping Method: UPS / FedEx / NOW
 DHL / Element (Hand) Mail

Sample ID/Description	Which Regulations Apply:		Turn Time	Rush turn times will incur a surcharge and must be pre-approved by lab.)	Collection Information		Container	Pres.	Requested Tests	Comments
	RCRA	POTW			Date	Time				
SS-9 0-2	<input type="checkbox"/>	<input type="checkbox"/>	11-13/15	1430	L	3	P 8.6	HCl, HNO ₃ , H ₂ SO ₄ NaOH, Na ₂ S ₂ O ₃	X X X X X	MEALS INCLUDE MERCURY.
SS-9 2-4	<input type="checkbox"/>	<input type="checkbox"/>	1435	1430	L	3	P 8.6		X X X X X	
SS-9 4-6	<input type="checkbox"/>	<input type="checkbox"/>	1435	1430	L	3	P 8.6		X X X X X	
SS-9 6-8	<input type="checkbox"/>	<input type="checkbox"/>	1555	1555	L	3	P 8.6		X X X X X	
SS-18 0-2	<input type="checkbox"/>	<input type="checkbox"/>	1600	1600	L	3	P 8.6		X X X X X	
SS-18 2-4	<input type="checkbox"/>	<input type="checkbox"/>	11/13/15	1000	L	3	P 8.6		X X X X X	
SS-8 0-2	<input type="checkbox"/>	<input type="checkbox"/>	11/13/15	1005	L	3	P 8.6		X X X X X	
SS-8 2-4	<input type="checkbox"/>	<input type="checkbox"/>	1010	1010	L	3	P 8.6		X X X X X	

Refurnished by: [Signature]

Date/Time: 11/15/15 1335

Received by: [Signature]

Date/Time: 11/13/15 1335

Field Notes: Received at lab on ice? Yes No Temp: 28

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

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629 Washington St. Suite 300 Columbus, IN 47201-6231 USA P 812-375-0531 F 812-375-0731

2121 East Washington Boulevard Fort Wayne, IN 46803-1328 USA P 260-471-7000 F 260-471-7777

909 Executive Dr Warsaw, IN 46580-2368 USA P 574-267-3305 F 574-269-6569

3371 Cleveland Road, Suite 100A South Bend, IN 46628-9780 USA P 574-277-0707 F 574-273-5699

2417 W. Pinhook Rd Lafayette, LA 70508-3344 USA P 337-235-0463 F 337-233-6540

Caitlin Duplantis

From: Jason Sills <jsills@iconenv.com>
Sent: Tuesday, November 17, 2015 12:35 PM
To: Caitlin Duplantis
Subject: EWL Samples

Caitlin,

Please change sample id's for the following work order 15110637:

COC Label	Corrected label:
SS-8 (??-??)	SS-16 (??-??)
SS-9 (??-??)	SS-17 (??-??)
SS-11 (??-??)	SS-19 (??-??)
SS-12 (??-??)	SS-20 (??-??)
SS-14 (??-??)	SS-22 (??-??)
SS-18 (??-??)	SS-26 (??-??)

Please let me know if you have any questions.

Thanks,

Jason Sills
Project Manager
Icon Environmental Services
2049 Commercial Drive
Port Allen, LA 70767
Office: (225) 344-8490
Fax: (225) 344-6654
jsills@iconenv.com

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Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

November 05, 2015

Greg Miller
ICON Environmental Services
2049 Commercial Drive
Port Allen, LA 70767
TEL: (225) 344-8490
FAX (225) 344-6654

RE: East White Lake 9077-041-0800

Order No.: 15101166

Dear Greg Miller:

Element Materials Technology Lafayette received 3 sample(s) on 10/30/2015 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

All soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as -dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261-14-6. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

A handwritten signature in blue ink, appearing to read 'Cristina Thibeaux', is written over a light blue horizontal line.

Cristina Thibeaux
Customer Service Supervisor
2417 W. Pinhook Road
Lafayette, LA 70508-3344



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Case Narrative

WO#: 15101166
Date: 11/5/2015

CLIENT: ICON Environmental Services
Project: East White Lake 9077-041-0800

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).



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 Lafayette, LA 70508-3344
 TEL: (337) 235-0483 FAX: (337) 233-6540
 Website: www.element.com

Analytical Report

(consolidated)

WO#: **15101166**

Date Reported: **11/5/2015**

CLIENT: ICON Environmental Services **Collection Date:** 10/30/2015 8:55:00 AM
Project: East White Lake 9077-041-0800
Lab ID: 15101166-001 **Matrix:** AQUEOUS
Client Sample ID Mike Broussard Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM, MF					SM9222D	Analyst: TJH
Fecal Coliform	< 10	10		CFU/100ml	10	10/30/2015 2:10:00 PM

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference
 ND Not Detected at the Reporting Limit RL Reporting Limit
 U Analyte not detected W Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: **15101166**

Date Reported: **11/5/2015**

CLIENT: ICON Environmental Services **Collection Date:** 10/30/2015 9:15:00 AM
Project: East White Lake 9077-041-0800
Lab ID: 15101166-002 **Matrix:** AQUEOUS
Client Sample ID Brock Miller Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM, MF				SM9222D		Analyst: TJH
Fecal Coliform	< 10	10		CFU/100ml	10	10/30/2015 2:10:00 PM

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference
 ND Not Detected at the Reporting Limit RL Reporting Limit
 U Analyte not detected W Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: **15101166**

Date Reported: **11/5/2015**

CLIENT: ICON Environmental Services **Collection Date:** 10/30/2015 9:25:00 AM
Project: East White Lake 9077-041-0800
Lab ID: 15101166-003 **Matrix:** AQUEOUS
Client Sample ID Wayne Miller Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM, MF				SM9222D		Analyst: TJH
Fecal Coliform	< 10	10		CFU/100ml	10	10/30/2015 2:10:00 PM

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference
 ND Not Detected at the Reporting Limit RL Reporting Limit
 U Analyte not detected W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15101166
 05-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R48135

Sample ID	MB-R48135	SampType:	MBLK	TestCode:	FECAL	Units:	CFU/100ml	Prep Date:		RunNo:	48135		
Client ID:	PBW	Batch ID:	R48135	TestNo:	SM9222D			Analysis Date:	10/30/2015	SeqNo:	1173671		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fecal Coliform		< 1.0		1.0									

Sample ID	15101166-001ADUP	SampType:	DUP	TestCode:	FECAL	Units:	CFU/100ml	Prep Date:		RunNo:	48135		
Client ID:	Mike Broussard Wel	Batch ID:	R48135	TestNo:	SM9222D			Analysis Date:	10/30/2015	SeqNo:	1173673		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fecal Coliform		< 10		10						0	0	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	U	Analyte not detected	W	Sample container temperature is out of limit as sp



Element Materials Technology Lafayette
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 Lafayette, LA 70508-3344
 TEL: (337) 235-0483 FAX: (337) 233-6540
 Website: www.element.com

Sample Log-In Check List

Client Name: **ICON_ENV**

Work Order Number: **15101166**

RcptNo: **1**

Logged by:	Danielle Hollier	10/30/2015 10:45:00 AM	<i>Danielle Hollier</i>
Completed By:	Danielle Hollier	10/30/2015 10:53:03 AM	<i>Danielle Hollier</i>
Reviewed By:	Caitlin Duplantis	11/4/2015 4:50:06 PM	<i>Caitlin Duplantis</i>

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
 Custody seals intact on shipping container/cooler? Yes No Not Present
- No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes No NA
6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA

Samples were collected the same day and chilled.

7. Sample(s) in proper container(s)? Yes No
8. Sufficient sample volume for indicated test(s)? Yes No
9. Are samples (except VOA and ONG) properly preserved? Yes No
10. Was preservative added to bottles? Yes No NA
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
12. Were any sample containers received broken? Yes No
13. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes No
15. Is it clear what analyses were requested? Yes No
16. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	10.9	Good	Not Present			



Chain of Custody

Laboratory Number: 15101166

Client Information: **ICOW Environmental**
 Contact Name: **Colby Miller**
 Address: **2014 Commercial Dr**
 City, State Zip: **Port Allen, LA 70767**
 Phone Number: **225-344-9440** Ext:
 Fax Number:
 E-mail Address:

Billing Information: **STATE**
 PO Number:
 Quote Number:
 Required QC Level:
 Bill Monthly: Yes No

Project Name/Number: **East White Lake**
 Sampler's Signature: *[Signature]*
 Shipping Method: **UPS / FedEx / NOW**
DHL / Element / Hand / Mail

Matrix Code
 DW = Drinking Water
 WW = Waste Water
 GW = Ground Water
 AQ = Aqueous
 OT = Other
 SL = Sludge
 O = Oil
 F = Food
 NG = Natural Gas
 NGL = Natural Gas Liquid
 PW = Produced Water
 CF = Completion Fluid

Sample ID/Description	Which Regulations Apply:		Turn Time	(Rush turn times will incur a surcharge and must be pre-approved by lab.)	Collection Information		Container	Pres.	Requested Tests	Comments
	<input type="checkbox"/> RCRA <input type="checkbox"/> POTW <input type="checkbox"/> NPDES <input type="checkbox"/> USDA/FDA <input type="checkbox"/> RECAP/RISC	<input type="checkbox"/> Drinking Water <input type="checkbox"/> Distribution <input type="checkbox"/> Special <input type="checkbox"/> State <input type="checkbox"/> Other			Date	Time				
Mike Brinson Well			10/30/15	0855	G	GW	HCl, HNO ₃ , H ₂ SO ₄ NaOH, Na ₂ S ₂ O ₃			
Brack Miller Well				0915						
Wayne Miller Well				0925						

Relinquished by	Date/Time	Received by	Date/Time	Field Notes
ADD	10-30-15 1045	OW	10-30-15 1045	Received at lab on ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp: 10.9°C

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

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 F 766-378-4109

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 47201-6231 USA
 P 812-375-0531
 F 812-375-0731

2121 East Washington Boulevard
 Fort Wayne, IN
 46603-1323 USA
 P 260-471-7000
 F 260-471-7777

909 Executive Dr
 Warsaw, IN
 46580-3263 USA
 P 574-287-3305
 F 574-289-6666

3371 Cleveland Road, Suite 108A
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 P 337-235-0483
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Website: www.element.com

November 02, 2015

Greg Miller
ICON Environmental Services
2049 Commercial Drive
Port Allen, LA 70767
TEL: (225) 344-8490
FAX (225) 344-6654

RE: East White Lake 9077-041-0800

Order No.: 15100988

Dear Greg Miller:

Element Materials Technology Lafayette received 1 sample(s) on 10/26/2015 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

All soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as -dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261-14-6. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

A handwritten signature in blue ink, appearing to read 'Cristina Thibeaux', is written over a light blue horizontal line.

Cristina Thibeaux
Customer Service Supervisor
2417 W. Pinhook Road
Lafayette, LA 70508-3344



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Case Narrative

WO#: 15100988
Date: 11/2/2015

CLIENT: ICON Environmental Services
Project: East White Lake 9077-041-0800

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).



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 TEL: (337) 235-0483 FAX: (337) 233-6540
 Website: www.element.com

Analytical Report

(consolidated)

WO#: 15100988

Date Reported: 11/2/2015

CLIENT: ICON Environmental Services **Collection Date:** 10/26/2015 2:35:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100988-001 **Matrix:** AQUEOUS
Client Sample ID Brock Miller Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	0.175	0.131		mg/L	1	10/29/2015 3:01:00 AM
TPH (Oil Range)	< 0.121	0.121		mg/L	1	10/29/2015 3:01:00 AM
Surr: 4-Terphenyl-d14	78.4	36.8 - 128		%REC	1	10/29/2015 3:01:00 AM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	10/28/2015 11:06:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	101	70 - 130		%REC	1	10/28/2015 11:06:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	10/28/2015 11:06:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	10/28/2015 11:06:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	10/28/2015 11:06:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	10/28/2015 11:06:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	88.8	70 - 130		%REC	1	10/28/2015 11:06:00 PM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: BAS
Mercury	< 0.0002	0.0002		mg/L	1	10/27/2015 11:43:17 AM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	0.280	0.100		mg/L	1	10/29/2015 9:46:42 PM
Chloride	224	12.5		mg/L	50	10/29/2015 4:12:44 PM
Sulfate	< 0.250	0.250		mg/L	1	10/29/2015 9:46:42 PM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	< 0.010	0.010		mg/L	1	10/28/2015 8:16:59 PM
Barium	0.764	0.010		mg/L	1	10/28/2015 8:16:59 PM
Cadmium	< 0.005	0.005		mg/L	1	10/28/2015 8:16:59 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: **15100988**

Date Reported: **11/2/2015**

CLIENT: ICON Environmental Services **Collection Date:** 10/26/2015 2:35:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100988-001 **Matrix:** AQUEOUS
Client Sample ID Brock Miller Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS		SW6010B			Analyst: STS	
Calcium	57.9	0.500		mg/L	1	10/28/2015 8:16:59 PM
Chromium	< 0.010	0.010		mg/L	1	10/28/2015 8:16:59 PM
Iron	0.616	0.010		mg/L	1	10/28/2015 8:16:59 PM
Lead	< 0.010	0.010		mg/L	1	10/28/2015 8:16:59 PM
Magnesium	21.8	0.500		mg/L	1	10/28/2015 8:16:59 PM
Manganese	0.026	0.010		mg/L	1	10/28/2015 8:16:59 PM
Potassium	< 5.00	5.00		mg/L	1	10/28/2015 8:16:59 PM
Sodium	154	5.00		mg/L	1	10/28/2015 8:16:59 PM
Strontium	0.743	0.010		mg/L	1	10/28/2015 8:16:59 PM
Zinc	0.220	0.010		mg/L	1	10/28/2015 8:16:59 PM
ALKALINITY; TOTAL, CARB, BICARB		SM2320 B			Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO3)	292	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Total (As CaCO3)	292	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
TOTAL DISSOLVED SOLIDS		SM2540C			Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	550	100		mg/L	5	10/29/2015 7:44:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference
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QC SUMMARY REPORT

WO#: 15100988
 02-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17114

Sample ID	MB-17114	SampType:	MBLK	TestCode:	HG_W_7470	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	47990			
Client ID:	PBW	Batch ID:	17114	TestNo:	SW7470A			Analysis Date:	10/27/2015	SeqNo:	1169606			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury < 0.0002 0.0002

Sample ID	LCS-17114	SampType:	LCS	TestCode:	HG_W_7470	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	47990			
Client ID:	LCSW	Batch ID:	17114	TestNo:	SW7470A			Analysis Date:	10/27/2015	SeqNo:	1169607			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.0101 0.0002 0.0100 0 101 80 120

Sample ID	LCSD-17114	SampType:	LCSD	TestCode:	HG_W_7470	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	47990			
Client ID:	LCSS02	Batch ID:	17114	TestNo:	SW7470A			Analysis Date:	10/27/2015	SeqNo:	1169608			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.0100 0.0002 0.0100 0 99.5 80 120 0.0101 1.77 20

Sample ID	15100907-001GMS	SampType:	MS	TestCode:	HG_W_7470	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	47990			
Client ID:	ZZZZZZ	Batch ID:	17114	TestNo:	SW7470A			Analysis Date:	10/27/2015	SeqNo:	1169610			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.0090 0.0002 0.0100 0 90.4 75 125

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits RL Reporting Limit S Spike Recovery outside accepted recovery limits
 U Analyte not detected W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15100988
 02-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17114

Sample ID	15100907-001GMSD	SampType:	MSD	TestCode:	HG_W_7470	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	47990											
Client ID:	ZZZZZZ	Batch ID:	17114	TestNo:	SW7470A			Analysis Date:	10/27/2015	SeqNo:	1169611											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
Mercury		0.0091		0.0002		0.0100		0		91.1		75		125		0.0090		0.682		20		

Qualifiers:

- | | | | | | |
|---|--|----|---|----|---|
| H | Holding times for preparation or analysis exceeded | M | Matrix Interference | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Limit | S | Spike Recovery outside accepted recovery limits |
| U | Analyte not detected | W | Sample container temperature is out of limit as specified at testcode | | |



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QC SUMMARY REPORT

WO#: 15100988
 02-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17118

Sample ID	LCS-D-17118	SampType:	LCS	TestCode:	8015_DO_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48058					
Client ID:	LCSW	Batch ID:	17118	TestNo:	SW8015B		SW3510C	Analysis Date:	10/28/2015	SeqNo:	1171635					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range) 2.29 0.130 3.000 0 76.4 62.3 110
 Surr: 4-Terphenyl-d14 0.0775 0.1000 77.5 36.8 128

Sample ID	LCSD-D-17118	SampType:	LCSD	TestCode:	8015_DO_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48058					
Client ID:	LCSS02	Batch ID:	17118	TestNo:	SW8015B		SW3510C	Analysis Date:	10/28/2015	SeqNo:	1171636					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range) 2.47 0.130 3.000 0 82.3 62.3 110 2.292 7.39 14.1
 Surr: 4-Terphenyl-d14 0.0822 0.1000 82.2 36.8 128 0 40

Sample ID	LCSD-M-17118	SampType:	LCSD	TestCode:	8015_DO_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48058					
Client ID:	LCSS02	Batch ID:	17118	TestNo:	SW8015B		SW3510C	Analysis Date:	10/28/2015	SeqNo:	1171637					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Oil Range) 2.36 0.120 3.000 0 78.6 63.8 124 2.308 2.08 23.2
 Surr: 4-Terphenyl-d14 0.0820 0.1000 82.0 36.8 128 0 40

Sample ID	LCS-M-17118	SampType:	LCS	TestCode:	8015_DO_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48058					
Client ID:	LCSW	Batch ID:	17118	TestNo:	SW8015B		SW3510C	Analysis Date:	10/28/2015	SeqNo:	1171638					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Oil Range) 2.31 0.120 3.000 0 76.9 63.8 124

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits RL Reporting Limit S Spike Recovery outside accepted recovery limits
 U Analyte not detected W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15100988
 02-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17118

Sample ID	LCS-M-17118	SampType:	LCS	TestCode:	8015_DO_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48058			
Client ID:	LCSW	Batch ID:	17118	TestNo:	SW8015B	SW3510C		Analysis Date:	10/28/2015	SeqNo:	1171638			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr:	4-Terphenyl-d14	0.0777			0.1000			77.7	36.8	128				

Sample ID	MB-17118	SampType:	MBLK	TestCode:	8015_DO_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48058			
Client ID:	PBW	Batch ID:	17118	TestNo:	SW8015B	SW3510C		Analysis Date:	10/30/2015	SeqNo:	1173219			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel Range)		< 0.130		0.130										
TPH (Oil Range)		< 0.120		0.120										
Surr:	4-Terphenyl-d14	0.0836			0.1000			83.6	36.8	128				

Qualifiers:

- | | | | | | |
|---|--|----|---|----|---|
| H | Holding times for preparation or analysis exceeded | M | Matrix Interference | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Limit | S | Spike Recovery outside accepted recovery limits |
| U | Analyte not detected | W | Sample container temperature is out of limit as specified at testcode | | |



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QC SUMMARY REPORT

WO#: 15100988
 02-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17140

Sample ID	MB-17140	SampType:	MBLK	TestCode:	6010_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48041
Client ID:	PBW	Batch ID:	17140	TestNo:	SW6010B			Analysis Date:	10/28/2015	SeqNo:	1171154
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 0.010	0.010									
Barium	< 0.010	0.010									
Cadmium	< 0.005	0.005									
Calcium	< 0.500	0.500									
Chromium	< 0.010	0.010									
Iron	< 0.010	0.010									
Lead	< 0.010	0.010									
Magnesium	< 0.500	0.500									
Manganese	< 0.010	0.010									
Potassium	< 5.00	5.00									
Sodium	< 5.00	5.00									
Strontium	< 0.010	0.010									
Zinc	< 0.010	0.010									

Sample ID	LCS-17140	SampType:	LCS	TestCode:	6010_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48041
Client ID:	LCSW	Batch ID:	17140	TestNo:	SW6010B			Analysis Date:	10/28/2015	SeqNo:	1171155
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.531	0.010	0.500	0	106	80	120				
Barium	0.564	0.010	0.500	0	113	80	120				
Cadmium	0.565	0.005	0.500	0	113	80	120				
Calcium	54.5	0.500	50.00	0	109	80	120				
Chromium	0.570	0.010	0.500	0	114	80	120				
Iron	0.573	0.010	0.500	0	115	80	120				
Lead	0.546	0.010	0.500	0	109	80	120				

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 15100988
 02-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17140

Sample ID	LCS-17140	SampType: LCS	TestCode: 6010_W	Units: mg/L	Prep Date: 10/27/2015	RunNo: 48041					
Client ID:	LCSW	Batch ID: 17140	TestNo: SW6010B	Analysis Date: 10/28/2015	SeqNo: 1171155						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Magnesium	54.8	0.500	50.00	0	110	80	120				
Manganese	0.564	0.010	0.500	0	113	80	120				
Potassium	53.8	5.00	50.00	0	108	80	120				
Sodium	54.8	5.00	50.00	0	110	80	120				
Strontium	0.569	0.010	0.500	0	114	80	120				
Zinc	0.570	0.010	0.500	0	114	80	120				

Sample ID	LCSD-17140	SampType: LCSD	TestCode: 6010_W	Units: mg/L	Prep Date: 10/27/2015	RunNo: 48041					
Client ID:	LCSS02	Batch ID: 17140	TestNo: SW6010B	Analysis Date: 10/28/2015	SeqNo: 1171156						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.515	0.010	0.500	0	103	80	120	0.531	3.04	20	
Barium	0.546	0.010	0.500	0	109	80	120	0.564	3.33	20	
Cadmium	0.548	0.005	0.500	0	110	80	120	0.565	3.18	20	
Calcium	53.0	0.500	50.00	0	106	80	120	54.46	2.79	20	
Chromium	0.549	0.010	0.500	0	110	80	120	0.570	3.72	20	
Iron	0.600	0.010	0.500	0	120	80	120	0.573	4.57	20	
Lead	0.530	0.010	0.500	0	106	80	120	0.546	3.10	20	
Magnesium	53.3	0.500	50.00	0	107	80	120	54.80	2.70	20	
Manganese	0.545	0.010	0.500	0	109	80	120	0.564	3.39	20	
Potassium	52.8	5.00	50.00	0	106	80	120	53.84	1.86	20	
Sodium	54.0	5.00	50.00	0	108	80	120	54.75	1.31	20	
Strontium	0.545	0.010	0.500	0	109	80	120	0.569	4.36	20	
Zinc	0.551	0.010	0.500	0	110	80	120	0.570	3.41	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 15100988
 02-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17140

Sample ID	15100948-004CMS	SampType:	MS	TestCode:	6010_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48041
Client ID:	ZZZZZZ	Batch ID:	17140	TestNo:	SW6010B			Analysis Date:	10/28/2015	SeqNo:	1171163
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.489	0.010	0.500	0	97.9	75	125				
Barium	1.33	0.010	0.500	0.910	83.6	75	125				
Cadmium	0.474	0.005	0.500	0	94.9	75	125				
Calcium	111	0.500	50.00	69.96	82.5	75	125				
Chromium	0.477	0.010	0.500	0	95.3	75	125				
Iron	5.42	0.010	0.500	5.194	46.2	75	125				S
Lead	0.471	0.010	0.500	0	94.2	75	125				
Magnesium	62.9	0.500	50.00	18.67	88.4	75	125				
Manganese	0.603	0.010	0.500	0.129	94.7	75	125				
Potassium	47.8	5.00	50.00	1.913	91.9	75	125				
Sodium	119	5.00	50.00	77.03	84.5	75	125				
Strontium	0.855	0.010	0.500	0.389	93.2	75	125				
Zinc	0.670	0.010	0.500	0.209	92.2	75	125				

Sample ID	15100948-004CMSD	SampType:	MSD	TestCode:	6010_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48041
Client ID:	ZZZZZZ	Batch ID:	17140	TestNo:	SW6010B			Analysis Date:	10/28/2015	SeqNo:	1171164
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.515	0.010	0.500	0	103	75	125	0.489	5.06	20	
Barium	1.38	0.010	0.500	0.910	95.0	75	125	1.328	4.20	20	
Cadmium	0.503	0.005	0.500	0	101	75	125	0.474	5.77	20	
Calcium	115	0.500	50.00	69.96	89.9	75	125	111.2	3.27	20	
Chromium	0.506	0.010	0.500	0	101	75	125	0.477	6.04	20	
Iron	5.56	0.010	0.500	5.194	73.2	75	125	5.425	2.46	20	S
Lead	0.498	0.010	0.500	0	99.6	75	125	0.471	5.53	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



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 TEL: (337) 235-0483 FAX: (337) 233-6540
 Website: www.element.com

QC SUMMARY REPORT

WO#: 15100988
 02-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17140

Sample ID	15100948-004CMSD	SampType:	MSD	TestCode:	6010_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48041
Client ID:	ZZZZZZ	Batch ID:	17140	TestNo:	SW6010B			Analysis Date:	10/28/2015	SeqNo:	1171164
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Magnesium	65.2	0.500	50.00	18.67	93.1	75	125	62.87	3.68	20	
Manganese	0.636	0.010	0.500	0.129	101	75	125	0.603	5.38	20	
Potassium	48.3	5.00	50.00	1.913	92.9	75	125	47.84	1.04	20	
Sodium	123	5.00	50.00	77.03	91.7	75	125	119.3	2.97	20	
Strontium	0.889	0.010	0.500	0.389	100	75	125	0.855	3.93	20	
Zinc	0.705	0.010	0.500	0.209	99.1	75	125	0.670	5.08	20	

Qualifiers:

- | | | | | | |
|---|--|----|---|----|---|
| H | Holding times for preparation or analysis exceeded | M | Matrix Interference | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Limit | S | Spike Recovery outside accepted recovery limits |
| U | Analyte not detected | W | Sample container temperature is out of limit as specified at testcode | | |



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QC SUMMARY REPORT

WO#: 15100988
 02-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R47979

Sample ID	MB-R47979	SampType:	MBLK	TestCode:	ALK	Units:	mgCaCO3/L	Prep Date:		RunNo:	47979
Client ID:	PBW	Batch ID:	R47979	TestNo:	SM2320 B			Analysis Date:	10/27/2015	SeqNo:	1169736
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Alkalinity, Bicarbonate (As CaCO3)	< 10.0	10.0									
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0									
Alkalinity, Total (As CaCO3)	< 10.0	10.0									

Sample ID	LCS-R47979	SampType:	LCS	TestCode:	ALK	Units:	mgCaCO3/L	Prep Date:		RunNo:	47979
Client ID:	LCSW	Batch ID:	R47979	TestNo:	SM2320 B			Analysis Date:	10/27/2015	SeqNo:	1169737
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Alkalinity, Total (As CaCO3)	48.5	10.0	50.0	0	97.0	80	120				
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Sample ID	15100907-001FDUP	SampType:	DUP	TestCode:	ALK	Units:	mgCaCO3/L	Prep Date:		RunNo:	47979
Client ID:	ZZZZZ	Batch ID:	R47979	TestNo:	SM2320 B			Analysis Date:	10/27/2015	SeqNo:	1169740
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Alkalinity, Bicarbonate (As CaCO3)	398	10.0								402.5	1.3	20
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0								0	0	20
Alkalinity, Total (As CaCO3)	398	10.0								402.5	1.3	20

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 15100988
 02-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R48029

Sample ID	MBLK	SampType:	MBLK	TestCode:	9056_W	Units:	mg/L	Prep Date:		RunNo:	48029					
Client ID:	PBW	Batch ID:	R48029	TestNo:	SW9056A			Analysis Date:	10/29/2015	SeqNo:	1172484					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide	< 0.100	0.100														
Chloride	< 0.250	0.250														
Sulfate	< 0.250	0.250														

Sample ID	LCS	SampType:	LCS	TestCode:	9056_W	Units:	mg/L	Prep Date:		RunNo:	48029					
Client ID:	LCSSW	Batch ID:	R48029	TestNo:	SW9056A			Analysis Date:	10/29/2015	SeqNo:	1172485					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide	3.98	0.100	4.000	0	99.5	80	120									
Chloride	9.75	0.250	10.00	0	97.5	80	120									
Sulfate	9.84	0.250	10.00	0	98.4	80	120									

Sample ID	LCSD	SampType:	LCSD	TestCode:	9056_W	Units:	mg/L	Prep Date:		RunNo:	48029					
Client ID:	LCSS02	Batch ID:	R48029	TestNo:	SW9056A			Analysis Date:	10/29/2015	SeqNo:	1172486					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide	4.05	0.100	4.000	0	101	80	120	3.980	1.77	15
Chloride	9.80	0.250	10.00	0	98.0	80	120	9.747	0.528	15
Sulfate	10.0	0.250	10.00	0	100	80	120	9.843	1.59	15

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
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U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 15100988
 02-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R48029

Sample ID	15100988-001CMS	SampType:	MS	TestCode:	9056_W	Units:	mg/L	Prep Date:		RunNo:	48029			
Client ID:	Brock Miller Well	Batch ID:	R48029	TestNo:	SW9056A			Analysis Date:	10/29/2015	SeqNo:	1172507			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide		98.5		5.00	100.0	0.3903		98.2	80	120				
Chloride		471		12.5	250.0	224.0		98.7	80	120				
Sulfate		244		12.5	250.0	0		97.8	80	120				

Sample ID	15100988-001CMSD	SampType:	MSD	TestCode:	9056_W	Units:	mg/L	Prep Date:		RunNo:	48029			
Client ID:	Brock Miller Well	Batch ID:	R48029	TestNo:	SW9056A			Analysis Date:	10/29/2015	SeqNo:	1172508			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide		99.5		5.00	100.0	0.3903		99.2	80	120	98.55	1.01	15	
Chloride		474		12.5	250.0	224.0		100	80	120	470.8	0.688	15	
Sulfate		248		12.5	250.0	0		99.1	80	120	244.4	1.35	15	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 15100988
 02-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R48044

Sample ID	MB-R48044	SampType:	MBLK	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	48044			
Client ID:	PBW	Batch ID:	R48044	TestNo:	SM2540C			Analysis Date:	10/29/2015	SeqNo:	1173438			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable) < 20.0 20.0

Sample ID	LCS-R48044	SampType:	LCS	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	48044			
Client ID:	LCSW	Batch ID:	R48044	TestNo:	SM2540C			Analysis Date:	10/29/2015	SeqNo:	1173439			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable) 995 20.0 1,000 0 99.5 85 115

Sample ID	LCSD-R48044	SampType:	LCSD	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	48044			
Client ID:	LCSS02	Batch ID:	R48044	TestNo:	SM2540C			Analysis Date:	10/29/2015	SeqNo:	1173440			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable) 987 20.0 1,000 0 98.7 85 115 995.0 0.807 10

Sample ID	15100963-001CDUP	SampType:	DUP	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	48044			
Client ID:	ZZZZZZ	Batch ID:	R48044	TestNo:	SM2540C			Analysis Date:	10/29/2015	SeqNo:	1173442			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable) 1,040 100 1,005 2.94 10

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits RL Reporting Limit S Spike Recovery outside accepted recovery limits
 U Analyte not detected W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15100988
 02-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R48044

Sample ID	15100963-001CDUP	SampType:	DUP	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	48044			
Client ID:	ZZZZZZ	Batch ID:	R48044	TestNo:	SM2540C			Analysis Date:	10/29/2015	SeqNo:	1173442			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID	15100988-001CDUP	SampType:	DUP	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	48044			
Client ID:	Brock Miller Well	Batch ID:	R48044	TestNo:	SM2540C			Analysis Date:	10/29/2015	SeqNo:	1173446			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable)	620	100							550.0	12.0	10	R
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NOTES:
 R - High RPD due to suspected sample matrix. The method is in control as indicated by the LCS/LCSD.

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 15100988
 02-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R48050

Sample ID	BTEX LCS_W	SampType: LCS	TestCode: 8021_BTEX_ Units: mg/L			Prep Date:			RunNo: 48050		
Client ID:	LCSW	Batch ID: R48050	TestNo: SW8021B			Analysis Date: 10/28/2015			SeqNo: 1171430		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0509	0.00500	0.05000	0	102	72	120				
Ethylbenzene	0.0462	0.00500	0.05000	0	92.4	76	129				
Toluene	0.0486	0.0100	0.05000	0	97.2	78	120				
Xylenes, Total	0.141	0.0500	0.1500	0	94.0	75	125				
Surr: alpha, alpha, alpha-Trifluorotoluene	0.0422		0.05000		84.4	70	130				

Sample ID	BTEX LCSD_W	SampType: LCSD	TestCode: 8021_BTEX_ Units: mg/L			Prep Date:			RunNo: 48050		
Client ID:	LCSS02	Batch ID: R48050	TestNo: SW8021B			Analysis Date: 10/28/2015			SeqNo: 1171434		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0516	0.00500	0.05000	0	103	72	120	0.05090	1.37	20	
Ethylbenzene	0.0469	0.00500	0.05000	0	93.8	76	129	0.04620	1.50	20	
Toluene	0.0490	0.0100	0.05000	0	98.0	78	120	0.04860	0.820	20	
Xylenes, Total	0.142	0.0500	0.1500	0	94.9	75	125	0.1410	0.918	20	
Surr: alpha, alpha, alpha-Trifluorotoluene	0.0437		0.05000		87.4	70	130		0	20	

Sample ID	MB ACID	SampType: MBLK	TestCode: 8021_BTEX_ Units: mg/L			Prep Date:			RunNo: 48050		
Client ID:	PBW	Batch ID: R48050	TestNo: SW8021B			Analysis Date: 10/28/2015			SeqNo: 1171438		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	< 0.00500	0.00500									
Ethylbenzene	< 0.00500	0.00500									

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 15100988
 02-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R48050

Sample ID	MB ACID	SampType:	MBLK	TestCode:	8021_BTEX_	Units:	mg/L	Prep Date:		RunNo:	48050		
Client ID:	PBW	Batch ID:	R48050	TestNo:	SW8021B			Analysis Date:	10/28/2015	SeqNo:	1171438		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene		< 0.0100		0.0100									
Xylenes, Total		< 0.0500		0.0500									
Surr: alpha, alpha, alpha-Trifluorotoluene		0.0433			0.05000		86.6	70	130				

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 15100988
 02-Nov-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R48052

Sample ID	GAS LCS_W	SampType:	LCS	TestCode:	8015_G_W	Units:	mg/L	Prep Date:		RunNo:	48052			
Client ID:	LCSW	Batch ID:	R48052	TestNo:	SW8015B			Analysis Date:	10/28/2015	SeqNo:	1171449			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline Range)		13.2		0.150	12.50	0		106	80	130				

Sample ID	GAS LCSD_W	SampType:	LCSD	TestCode:	8015_G_W	Units:	mg/L	Prep Date:		RunNo:	48052			
Client ID:	LCSS02	Batch ID:	R48052	TestNo:	SW8015B			Analysis Date:	10/28/2015	SeqNo:	1171450			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline Range)		13.1		0.150	12.50	0		105	80	130	13.24	1.33	20	

Sample ID	MB ACID	SampType:	MBLK	TestCode:	8015_G_W	Units:	mg/L	Prep Date:		RunNo:	48052			
Client ID:	PBW	Batch ID:	R48052	TestNo:	SW8015B			Analysis Date:	10/28/2015	SeqNo:	1171451			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline Range)		< 0.150		0.150										
Surr: alpha, alpha, alpha-Trifluorotoluene		0.0497			0.05000			99.4	70	130				

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits
U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



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Sample Log-In Check List

Client Name: **ICON_ENV**

Work Order Number: **15100988**

RcptNo: **1**

Logged by:	Danielle Hollier	10/26/2015 4:15:00 PM	<i>Danielle Hollier</i>
Completed By:	Danielle Hollier	10/26/2015 4:47:57 PM	<i>Danielle Hollier</i>
Reviewed By:	Caitlin Duplantis	10/29/2015 1:49:05 PM	<i>Caitlin Duplantis</i>

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 Custody seals intact on shipping container/cooler? Yes No Not Present
 No. Seal Date: Signed By:
 5. Was an attempt made to cool the samples? Yes No NA
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA

Samples were collected the same day and chilled.

7. Sample(s) in proper container(s)? Yes No
 8. Sufficient sample volume for indicated test(s)? Yes No
 9. Are samples (except VOA and ONG) properly preserved? Yes No
 10. Was preservative added to bottles? Yes No NA
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
 12. Were any sample containers received broken? Yes No
 13. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 14. Are matrices correctly identified on Chain of Custody? Yes No
 15. Is it clear what analyses were requested? Yes No
 16. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:
 Improper error correction(s) made by client

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	7.6	Good	Not Present			



Element Materials Technology Lafayette
2417 W. Pinhook Road
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Website: www.element.com

October 30, 2015

Greg Miller
ICON Environmental Services
2049 Commercial Drive
Port Allen, LA 70767
TEL: (225) 344-8490
FAX (225) 344-6654

RE: East White Lake 9077-041-0800

Order No.: 15100948

Dear Greg Miller:

Element Materials Technology Lafayette received 15 sample(s) on 10/23/2015 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

All soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as -dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261-14-6. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

A handwritten signature in blue ink, appearing to read 'Cristina Thibeaux', is written over a light blue horizontal line.

Cristina Thibeaux
Customer Service Supervisor
2417 W. Pinhook Road
Lafayette, LA 70508-3344



Element Materials Technology Lafayette
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Case Narrative

WO#: 15100948
Date: 10/30/2015

CLIENT: ICON Environmental Services
Project: East White Lake 9077-041-0800

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).



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Analytical Report

(consolidated)

WO#: 15100948

Date Reported: 10/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 10/20/2015 11:40:00 AM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-001 **Matrix:** AQUEOUS
Client Sample ID VE 5361z

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	< 0.133	0.133		mg/L	1	10/28/2015 10:35:00 PM
TPH (Oil Range)	< 0.122	0.122		mg/L	1	10/28/2015 10:35:00 PM
Surr: 4-Terphenyl-d14	69.4	36.8 - 128		%REC	1	10/28/2015 10:35:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	10/28/2015 3:53:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	97.4	70 - 130		%REC	1	10/28/2015 3:53:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	10/28/2015 3:53:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	10/28/2015 3:53:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	10/28/2015 3:53:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	10/28/2015 3:53:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	86.0	70 - 130		%REC	1	10/28/2015 3:53:00 PM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: BAS
Mercury	< 0.0002	0.0002		mg/L	1	10/27/2015 11:02:31 AM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	0.400	0.200		mg/L	2	10/29/2015 6:20:30 PM
Chloride	374	12.5		mg/L	50	10/29/2015 12:46:33 PM
Sulfate	< 0.500	0.500		mg/L	2	10/29/2015 6:20:30 PM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	< 0.010	0.010		mg/L	1	10/28/2015 6:54:02 PM
Barium	0.966	0.010		mg/L	1	10/28/2015 6:54:02 PM
Cadmium	< 0.005	0.005		mg/L	1	10/28/2015 6:54:02 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: **15100948**

Date Reported: **10/30/2015**

CLIENT: ICON Environmental Services **Collection Date:** 10/20/2015 11:40:00 AM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-001 **Matrix:** AQUEOUS
Client Sample ID VE 5361z

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS		SW6010B			Analyst: STS	
Calcium	100	0.500		mg/L	1	10/28/2015 6:54:02 PM
Chromium	< 0.010	0.010		mg/L	1	10/28/2015 6:54:02 PM
Iron	2.72	0.010		mg/L	1	10/28/2015 6:54:02 PM
Lead	< 0.010	0.010		mg/L	1	10/28/2015 6:54:02 PM
Magnesium	33.7	0.500		mg/L	1	10/28/2015 6:54:02 PM
Manganese	0.214	0.010		mg/L	1	10/28/2015 6:54:02 PM
Potassium	< 5.00	5.00		mg/L	1	10/28/2015 6:54:02 PM
Sodium	163	5.00		mg/L	1	10/28/2015 6:54:02 PM
Strontium	0.655	0.010		mg/L	1	10/28/2015 6:54:02 PM
Zinc	0.042	0.010		mg/L	1	10/28/2015 6:54:02 PM
ALKALINITY; TOTAL, CARB, BICARB		SM2320 B			Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO3)	285	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Total (As CaCO3)	285	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
TOTAL DISSOLVED SOLIDS		SM2540C			Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	1,010	100		mg/L	5	10/26/2015 10:49:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15100948

Date Reported: 10/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 10/20/2015 12:35:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-002 **Matrix:** AQUEOUS
Client Sample ID VE 7361z

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	< 0.133	0.133		mg/L	1	10/28/2015 10:50:00 PM
TPH (Oil Range)	< 0.122	0.122		mg/L	1	10/28/2015 10:50:00 PM
Surr: 4-Terphenyl-d14	79.7	36.8 - 128		%REC	1	10/28/2015 10:50:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	10/28/2015 4:20:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	97.4	70 - 130		%REC	1	10/28/2015 4:20:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	10/28/2015 4:20:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	10/28/2015 4:20:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	10/28/2015 4:20:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	10/28/2015 4:20:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	85.8	70 - 130		%REC	1	10/28/2015 4:20:00 PM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: BAS
Mercury	< 0.0002	0.0002		mg/L	1	10/27/2015 11:10:02 AM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	0.846	0.500		mg/L	5	10/29/2015 6:34:15 PM
Chloride	914	25.0		mg/L	100	10/29/2015 1:00:18 PM
Sulfate	< 1.25	1.25		mg/L	5	10/29/2015 6:34:15 PM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	< 0.010	0.010		mg/L	1	10/28/2015 6:58:08 PM
Barium	2.12	0.010		mg/L	1	10/28/2015 6:58:08 PM
Cadmium	< 0.005	0.005		mg/L	1	10/28/2015 6:58:08 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: **15100948**

Date Reported: **10/30/2015**

CLIENT: ICON Environmental Services **Collection Date:** 10/20/2015 12:35:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-002 **Matrix:** AQUEOUS
Client Sample ID VE 7361z

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS		SW6010B			Analyst: STS	
Calcium	169	0.500		mg/L	1	10/28/2015 6:58:08 PM
Chromium	< 0.010	0.010		mg/L	1	10/28/2015 6:58:08 PM
Iron	11.6	0.010		mg/L	1	10/28/2015 6:58:08 PM
Lead	< 0.010	0.010		mg/L	1	10/28/2015 6:58:08 PM
Magnesium	57.1	0.500		mg/L	1	10/28/2015 6:58:08 PM
Manganese	0.212	0.010		mg/L	1	10/28/2015 6:58:08 PM
Potassium	< 5.00	5.00		mg/L	1	10/28/2015 6:58:08 PM
Sodium	373	5.00		mg/L	1	10/28/2015 6:58:08 PM
Strontium	1.28	0.010		mg/L	1	10/28/2015 6:58:08 PM
Zinc	0.017	0.010		mg/L	1	10/28/2015 6:58:08 PM
ALKALINITY; TOTAL, CARB, BICARB		SM2320 B			Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO3)	283	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Total (As CaCO3)	283	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
TOTAL DISSOLVED SOLIDS		SM2540C			Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	2,010	100		mg/L	5	10/26/2015 10:49:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15100948

Date Reported: 10/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 10/20/2015 1:15:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-003 **Matrix:** AQUEOUS
Client Sample ID Donald Stelly Camp Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	< 0.133	0.133		mg/L	1	10/28/2015 11:06:00 PM
TPH (Oil Range)	< 0.122	0.122		mg/L	1	10/28/2015 11:06:00 PM
Surr: 4-Terphenyl-d14	80.8	36.8 - 128		%REC	1	10/28/2015 11:06:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	10/28/2015 4:47:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	98.0	70 - 130		%REC	1	10/28/2015 4:47:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	10/28/2015 4:47:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	10/28/2015 4:47:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	10/28/2015 4:47:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	10/28/2015 4:47:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	85.2	70 - 130		%REC	1	10/28/2015 4:47:00 PM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: BAS
Mercury	< 0.0002	0.0002		mg/L	1	10/27/2015 11:12:21 AM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	0.523	0.200		mg/L	2	10/29/2015 6:48:00 PM
Chloride	530	12.5		mg/L	50	10/29/2015 1:14:02 PM
Sulfate	< 0.500	0.500		mg/L	2	10/29/2015 6:48:00 PM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	< 0.010	0.010		mg/L	1	10/28/2015 7:11:23 PM
Barium	0.892	0.010		mg/L	1	10/28/2015 7:11:23 PM
Cadmium	< 0.005	0.005		mg/L	1	10/28/2015 7:11:23 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: **15100948**

Date Reported: **10/30/2015**

CLIENT: ICON Environmental Services **Collection Date:** 10/20/2015 1:15:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-003 **Matrix:** AQUEOUS
Client Sample ID Donald Stelly Camp Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS		SW6010B			Analyst: STS	
Calcium	122	0.500		mg/L	1	10/28/2015 7:11:23 PM
Chromium	< 0.010	0.010		mg/L	1	10/28/2015 7:11:23 PM
Iron	4.32	0.010		mg/L	1	10/28/2015 7:11:23 PM
Lead	< 0.010	0.010		mg/L	1	10/28/2015 7:11:23 PM
Magnesium	40.2	0.500		mg/L	1	10/28/2015 7:11:23 PM
Manganese	0.262	0.010		mg/L	1	10/28/2015 7:11:23 PM
Potassium	< 5.00	5.00		mg/L	1	10/28/2015 7:11:23 PM
Sodium	229	5.00		mg/L	1	10/28/2015 7:11:23 PM
Strontium	0.907	0.010		mg/L	1	10/28/2015 7:11:23 PM
Zinc	0.191	0.010		mg/L	1	10/28/2015 7:11:23 PM
ALKALINITY; TOTAL, CARB, BICARB		SM2320 B			Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO3)	290	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Total (As CaCO3)	290	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
TOTAL DISSOLVED SOLIDS		SM2540C			Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	1,360	100		mg/L	5	10/26/2015 10:49:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15100948

Date Reported: 10/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 10/20/2015 2:00:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-004 **Matrix:** AQUEOUS
Client Sample ID Ivy Stelly Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	< 0.131	0.131		mg/L	1	10/28/2015 11:22:00 PM
TPH (Oil Range)	< 0.121	0.121		mg/L	1	10/28/2015 11:22:00 PM
Surr: 4-Terphenyl-d14	77.9	36.8 - 128		%REC	1	10/28/2015 11:22:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	10/28/2015 5:14:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	97.0	70 - 130		%REC	1	10/28/2015 5:14:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	10/28/2015 5:14:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	10/28/2015 5:14:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	10/28/2015 5:14:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	10/28/2015 5:14:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	84.4	70 - 130		%REC	1	10/28/2015 5:14:00 PM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: BAS
Mercury	< 0.0002	0.0002		mg/L	1	10/27/2015 11:14:42 AM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	0.144	0.100		mg/L	1	10/29/2015 7:01:45 PM
Chloride	118	5.00		mg/L	20	10/29/2015 1:27:46 PM
Sulfate	< 0.250	0.250		mg/L	1	10/29/2015 7:01:45 PM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	< 0.010	0.010		mg/L	1	10/28/2015 7:16:12 PM
Barium	0.910	0.010		mg/L	1	10/28/2015 7:16:12 PM
Cadmium	< 0.005	0.005		mg/L	1	10/28/2015 7:16:12 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15100948

Date Reported: 10/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 10/20/2015 2:00:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-004 **Matrix:** AQUEOUS
Client Sample ID Ivy Stelly Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS		SW6010B			Analyst: STS	
Calcium	70.0	0.500		mg/L	1	10/28/2015 7:16:12 PM
Chromium	< 0.010	0.010		mg/L	1	10/28/2015 7:16:12 PM
Iron	5.19	0.010		mg/L	1	10/28/2015 7:16:12 PM
Lead	< 0.010	0.010		mg/L	1	10/28/2015 7:16:12 PM
Magnesium	18.7	0.500		mg/L	1	10/28/2015 7:16:12 PM
Manganese	0.129	0.010		mg/L	1	10/28/2015 7:16:12 PM
Potassium	< 5.00	5.00		mg/L	1	10/28/2015 7:16:12 PM
Sodium	77.0	5.00		mg/L	1	10/28/2015 7:16:12 PM
Strontium	0.389	0.010		mg/L	1	10/28/2015 7:16:12 PM
Zinc	0.209	0.010		mg/L	1	10/28/2015 7:16:12 PM
ALKALINITY; TOTAL, CARB, BICARB		SM2320 B			Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO3)	288	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Total (As CaCO3)	288	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
TOTAL DISSOLVED SOLIDS		SM2540C			Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	485	20.0		mg/L	1	10/26/2015 10:49:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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 Website: www.element.com

Analytical Report

(consolidated)

WO#: 15100948

Date Reported: 10/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 10/20/2015 4:55:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-005 **Matrix:** AQUEOUS
Client Sample ID VE 12018z

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	< 0.133	0.133		mg/L	1	10/28/2015 11:37:00 PM
TPH (Oil Range)	< 0.122	0.122		mg/L	1	10/28/2015 11:37:00 PM
Surr: 4-Terphenyl-d14	84.8	36.8 - 128		%REC	1	10/28/2015 11:37:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	10/28/2015 5:41:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	96.4	70 - 130		%REC	1	10/28/2015 5:41:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	10/28/2015 5:41:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	10/28/2015 5:41:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	10/28/2015 5:41:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	10/28/2015 5:41:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	84.0	70 - 130		%REC	1	10/28/2015 5:41:00 PM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: BAS
Mercury	< 0.0002	0.0002		mg/L	1	10/27/2015 11:17:02 AM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	1.46	0.200		mg/L	2	10/29/2015 7:15:29 PM
Chloride	417	12.5		mg/L	50	10/29/2015 1:41:31 PM
Sulfate	< 0.500	0.500		mg/L	2	10/29/2015 7:15:29 PM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	< 0.010	0.010		mg/L	1	10/28/2015 7:29:39 PM
Barium	0.818	0.010		mg/L	1	10/28/2015 7:29:39 PM
Cadmium	< 0.005	0.005		mg/L	1	10/28/2015 7:29:39 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

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WO#: **15100948**

Date Reported: **10/30/2015**

CLIENT: ICON Environmental Services **Collection Date:** 10/20/2015 4:55:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-005 **Matrix:** AQUEOUS
Client Sample ID VE 12018z

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS		SW6010B			Analyst: STS	
Calcium	121	0.500		mg/L	1	10/28/2015 7:29:39 PM
Chromium	< 0.010	0.010		mg/L	1	10/28/2015 7:29:39 PM
Iron	4.20	0.010		mg/L	1	10/28/2015 7:29:39 PM
Lead	< 0.010	0.010		mg/L	1	10/28/2015 7:29:39 PM
Magnesium	42.6	0.500		mg/L	1	10/28/2015 7:29:39 PM
Manganese	0.279	0.010		mg/L	1	10/28/2015 7:29:39 PM
Potassium	< 5.00	5.00		mg/L	1	10/28/2015 7:29:39 PM
Sodium	205	5.00		mg/L	1	10/28/2015 7:29:39 PM
Strontium	0.872	0.010		mg/L	1	10/28/2015 7:29:39 PM
Zinc	0.020	0.010		mg/L	1	10/28/2015 7:29:39 PM
ALKALINITY; TOTAL, CARB, BICARB		SM2320 B			Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO3)	380	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Total (As CaCO3)	380	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
TOTAL DISSOLVED SOLIDS		SM2540C			Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	1,220	100		mg/L	5	10/26/2015 10:49:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15100948

Date Reported: 10/30/2015

CLIENT: ICON Environmental Services
Project: East White Lake 9077-041-0800
Lab ID: 15100948-006
Client Sample ID Ve1365

Collection Date: 10/21/2015 9:15:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	< 0.135	0.135		mg/L	1	10/28/2015 11:53:00 PM
TPH (Oil Range)	< 0.125	0.125		mg/L	1	10/28/2015 11:53:00 PM
Surr: 4-Terphenyl-d14	77.3	36.8 - 128		%REC	1	10/28/2015 11:53:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	10/28/2015 6:08:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	95.0	70 - 130		%REC	1	10/28/2015 6:08:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	10/28/2015 6:08:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	10/28/2015 6:08:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	10/28/2015 6:08:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	10/28/2015 6:08:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	84.0	70 - 130		%REC	1	10/28/2015 6:08:00 PM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: BAS
Mercury	< 0.0002	0.0002		mg/L	1	10/27/2015 11:19:22 AM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	0.877	0.500		mg/L	5	10/29/2015 7:29:14 PM
Chloride	819	25.0		mg/L	100	10/29/2015 1:55:16 PM
Sulfate	< 1.25	1.25		mg/L	5	10/29/2015 7:29:14 PM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	0.010	0.010		mg/L	1	10/28/2015 7:33:50 PM
Barium	2.14	0.010		mg/L	1	10/28/2015 7:33:50 PM
Cadmium	< 0.005	0.005		mg/L	1	10/28/2015 7:33:50 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15100948

Date Reported: 10/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 10/21/2015 9:15:00 AM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-006 **Matrix:** AQUEOUS
Client Sample ID Ve1365

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS		SW6010B			Analyst: STS	
Calcium	169	0.500		mg/L	1	10/28/2015 7:33:50 PM
Chromium	< 0.010	0.010		mg/L	1	10/28/2015 7:33:50 PM
Iron	4.52	0.010		mg/L	1	10/28/2015 7:33:50 PM
Lead	< 0.010	0.010		mg/L	1	10/28/2015 7:33:50 PM
Magnesium	60.2	0.500		mg/L	1	10/28/2015 7:33:50 PM
Manganese	0.210	0.010		mg/L	1	10/28/2015 7:33:50 PM
Potassium	< 5.00	5.00		mg/L	1	10/28/2015 7:33:50 PM
Sodium	350	5.00		mg/L	1	10/28/2015 7:33:50 PM
Strontium	1.40	0.010		mg/L	1	10/28/2015 7:33:50 PM
Zinc	< 0.010	0.010		mg/L	1	10/28/2015 7:33:50 PM
ALKALINITY; TOTAL, CARB, BICARB		SM2320 B			Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO3)	328	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Total (As CaCO3)	328	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
TOTAL DISSOLVED SOLIDS		SM2540C			Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	1,860	100		mg/L	5	10/26/2015 10:49:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15100948

Date Reported: 10/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 10/21/2015 12:00:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-007 **Matrix:** AQUEOUS
Client Sample ID Greg Raspberry Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	< 0.133	0.133		mg/L	1	10/29/2015 12:09:00 AM
TPH (Oil Range)	< 0.122	0.122		mg/L	1	10/29/2015 12:09:00 AM
Surr: 4-Terphenyl-d14	62.5	36.8 - 128		%REC	1	10/29/2015 12:09:00 AM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	10/28/2015 7:57:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	98.2	70 - 130		%REC	1	10/28/2015 7:57:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	10/28/2015 7:57:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	10/28/2015 7:57:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	10/28/2015 7:57:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	10/28/2015 7:57:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	85.6	70 - 130		%REC	1	10/28/2015 7:57:00 PM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: BAS
Mercury	< 0.0002	0.0002		mg/L	1	10/27/2015 11:21:42 AM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	0.268	0.100		mg/L	1	10/29/2015 7:42:58 PM
Chloride	207	12.5		mg/L	50	10/29/2015 2:36:30 PM
Sulfate	< 0.250	0.250		mg/L	1	10/29/2015 7:42:58 PM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	< 0.010	0.010		mg/L	1	10/28/2015 7:38:10 PM
Barium	1.09	0.010		mg/L	1	10/28/2015 7:38:10 PM
Cadmium	< 0.005	0.005		mg/L	1	10/28/2015 7:38:10 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: **15100948**

Date Reported: **10/30/2015**

CLIENT: ICON Environmental Services **Collection Date:** 10/21/2015 12:00:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-007 **Matrix:** AQUEOUS
Client Sample ID Greg Raspberry Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS		SW6010B			Analyst: STS	
Calcium	73.3	0.500		mg/L	1	10/28/2015 7:38:10 PM
Chromium	< 0.010	0.010		mg/L	1	10/28/2015 7:38:10 PM
Iron	1.73	0.010		mg/L	1	10/28/2015 7:38:10 PM
Lead	< 0.010	0.010		mg/L	1	10/28/2015 7:38:10 PM
Magnesium	26.8	0.500		mg/L	1	10/28/2015 7:38:10 PM
Manganese	0.068	0.010		mg/L	1	10/28/2015 7:38:10 PM
Potassium	< 5.00	5.00		mg/L	1	10/28/2015 7:38:10 PM
Sodium	150	5.00		mg/L	1	10/28/2015 7:38:10 PM
Strontium	0.621	0.010		mg/L	1	10/28/2015 7:38:10 PM
Zinc	< 0.010	0.010		mg/L	1	10/28/2015 7:38:10 PM
ALKALINITY; TOTAL, CARB, BICARB		SM2320 B			Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO3)	342	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Total (As CaCO3)	342	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
TOTAL DISSOLVED SOLIDS		SM2540C			Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	680	100		mg/L	5	10/26/2015 10:49:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15100948

Date Reported: 10/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 10/21/2015 3:40:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-008 **Matrix:** AQUEOUS
Client Sample ID 11629z

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	< 0.133	0.133		mg/L	1	10/29/2015 1:27:00 AM
TPH (Oil Range)	< 0.122	0.122		mg/L	1	10/29/2015 1:27:00 AM
Surr: 4-Terphenyl-d14	74.8	36.8 - 128		%REC	1	10/29/2015 1:27:00 AM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	10/28/2015 8:24:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	99.4	70 - 130		%REC	1	10/28/2015 8:24:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	10/28/2015 8:24:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	10/28/2015 8:24:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	10/28/2015 8:24:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	10/28/2015 8:24:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	87.0	70 - 130		%REC	1	10/28/2015 8:24:00 PM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: BAS
Mercury	< 0.0002	0.0002		mg/L	1	10/27/2015 11:24:02 AM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	0.154	0.100		mg/L	1	10/29/2015 7:56:44 PM
Chloride	106	5.00		mg/L	20	10/29/2015 2:50:14 PM
Sulfate	< 0.250	0.250		mg/L	1	10/29/2015 7:56:44 PM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	< 0.010	0.010		mg/L	1	10/28/2015 7:42:30 PM
Barium	0.488	0.010		mg/L	1	10/28/2015 7:42:30 PM
Cadmium	< 0.005	0.005		mg/L	1	10/28/2015 7:42:30 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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 Website: www.element.com

Analytical Report

(consolidated)

WO#: 15100948

Date Reported: 10/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 10/21/2015 3:40:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-008 **Matrix:** AQUEOUS
Client Sample ID 11629z

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS		SW6010B			Analyst: STS	
Calcium	54.5	0.500		mg/L	1	10/28/2015 7:42:30 PM
Chromium	< 0.010	0.010		mg/L	1	10/28/2015 7:42:30 PM
Iron	0.427	0.010		mg/L	1	10/28/2015 7:42:30 PM
Lead	< 0.010	0.010		mg/L	1	10/28/2015 7:42:30 PM
Magnesium	20.7	0.500		mg/L	1	10/28/2015 7:42:30 PM
Manganese	0.030	0.010		mg/L	1	10/28/2015 7:42:30 PM
Potassium	< 5.00	5.00		mg/L	1	10/28/2015 7:42:30 PM
Sodium	121	5.00		mg/L	1	10/28/2015 7:42:30 PM
Strontium	0.658	0.010		mg/L	1	10/28/2015 7:42:30 PM
Zinc	< 0.010	0.010		mg/L	1	10/28/2015 7:42:30 PM
ALKALINITY; TOTAL, CARB, BICARB		SM2320 B			Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO3)	345	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Total (As CaCO3)	345	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
TOTAL DISSOLVED SOLIDS		SM2540C			Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	561	20.0		mg/L	1	10/26/2015 10:49:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15100948

Date Reported: 10/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 10/21/2015 4:45:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-009 **Matrix:** AQUEOUS
Client Sample ID 6678z

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	< 0.131	0.131		mg/L	1	10/29/2015 1:43:00 AM
TPH (Oil Range)	< 0.121	0.121		mg/L	1	10/29/2015 1:43:00 AM
Surr: 4-Terphenyl-d14	74.8	36.8 - 128		%REC	1	10/29/2015 1:43:00 AM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	10/28/2015 8:51:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	98.2	70 - 130		%REC	1	10/28/2015 8:51:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	10/28/2015 8:51:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	10/28/2015 8:51:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	10/28/2015 8:51:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	10/28/2015 8:51:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	86.4	70 - 130		%REC	1	10/28/2015 8:51:00 PM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: BAS
Mercury	< 0.0002	0.0002		mg/L	1	10/27/2015 11:26:23 AM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	0.177	0.100		mg/L	1	10/29/2015 8:37:58 PM
Chloride	124	5.00		mg/L	20	10/29/2015 3:03:59 PM
Sulfate	< 0.250	0.250		mg/L	1	10/29/2015 8:37:58 PM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	< 0.010	0.010		mg/L	1	10/28/2015 7:47:00 PM
Barium	0.409	0.010		mg/L	1	10/28/2015 7:47:00 PM
Cadmium	< 0.005	0.005		mg/L	1	10/28/2015 7:47:00 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: **15100948**

Date Reported: **10/30/2015**

CLIENT: ICON Environmental Services **Collection Date:** 10/21/2015 4:45:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-009 **Matrix:** AQUEOUS
Client Sample ID 6678z

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS		SW6010B			Analyst: STS	
Calcium	42.0	0.500		mg/L	1	10/28/2015 7:47:00 PM
Chromium	< 0.010	0.010		mg/L	1	10/28/2015 7:47:00 PM
Iron	0.353	0.010		mg/L	1	10/28/2015 7:47:00 PM
Lead	< 0.010	0.010		mg/L	1	10/28/2015 7:47:00 PM
Magnesium	16.7	0.500		mg/L	1	10/28/2015 7:47:00 PM
Manganese	0.030	0.010		mg/L	1	10/28/2015 7:47:00 PM
Potassium	< 5.00	5.00		mg/L	1	10/28/2015 7:47:00 PM
Sodium	149	5.00		mg/L	1	10/28/2015 7:47:00 PM
Strontium	0.539	0.010		mg/L	1	10/28/2015 7:47:00 PM
Zinc	0.018	0.010		mg/L	1	10/28/2015 7:47:00 PM
ALKALINITY; TOTAL, CARB, BICARB		SM2320 B			Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO3)	332	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Total (As CaCO3)	332	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
TOTAL DISSOLVED SOLIDS		SM2540C			Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	572	20.0		mg/L	1	10/26/2015 10:49:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

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WO#: 15100948

Date Reported: 10/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 10/22/2015 5:05:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-010 **Matrix:** AQUEOUS
Client Sample ID Bubba Montesanto Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	< 0.133	0.133		mg/L	1	10/29/2015 1:58:00 AM
TPH (Oil Range)	< 0.122	0.122		mg/L	1	10/29/2015 1:58:00 AM
Surr: 4-Terphenyl-d14	73.6	36.8 - 128		%REC	1	10/29/2015 1:58:00 AM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	10/28/2015 9:18:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	99.0	70 - 130		%REC	1	10/28/2015 9:18:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	10/28/2015 9:18:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	10/28/2015 9:18:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	10/28/2015 9:18:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	10/28/2015 9:18:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	87.0	70 - 130		%REC	1	10/28/2015 9:18:00 PM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: BAS
Mercury	< 0.0002	0.0002		mg/L	1	10/27/2015 11:28:43 AM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	0.361	0.100		mg/L	1	10/29/2015 8:51:43 PM
Chloride	137	5.00		mg/L	20	10/29/2015 3:17:43 PM
Sulfate	14.9	0.250		mg/L	1	10/29/2015 8:51:43 PM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	< 0.010	0.010		mg/L	1	10/28/2015 7:51:30 PM
Barium	0.018	0.010		mg/L	1	10/28/2015 7:51:30 PM
Cadmium	< 0.005	0.005		mg/L	1	10/28/2015 7:51:30 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

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WO#: **15100948**

Date Reported: **10/30/2015**

CLIENT: ICON Environmental Services **Collection Date:** 10/22/2015 5:05:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-010 **Matrix:** AQUEOUS
Client Sample ID Bubba Montesanto Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS		SW6010B			Analyst: STS	
Calcium	73.4	0.500		mg/L	1	10/28/2015 7:51:30 PM
Chromium	< 0.010	0.010		mg/L	1	10/28/2015 7:51:30 PM
Iron	0.188	0.010		mg/L	1	10/28/2015 7:51:30 PM
Lead	< 0.010	0.010		mg/L	1	10/28/2015 7:51:30 PM
Magnesium	4.73	0.500		mg/L	1	10/28/2015 7:51:30 PM
Manganese	0.054	0.010		mg/L	1	10/28/2015 7:51:30 PM
Potassium	< 5.00	5.00		mg/L	1	10/28/2015 7:51:30 PM
Sodium	116	5.00		mg/L	1	10/28/2015 7:51:30 PM
Strontium	0.316	0.010		mg/L	1	10/28/2015 7:51:30 PM
Zinc	0.018	0.010		mg/L	1	10/28/2015 7:51:30 PM
ALKALINITY; TOTAL, CARB, BICARB		SM2320 B			Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO3)	252	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Total (As CaCO3)	252	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
TOTAL DISSOLVED SOLIDS		SM2540C			Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	572	20.0		mg/L	1	10/26/2015 10:49:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

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WO#: 15100948

Date Reported: 10/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 10/23/2015 9:10:00 AM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-011 **Matrix:** AQUEOUS
Client Sample ID Sidney Meche Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	< 0.137	0.137		mg/L	1	10/29/2015 2:14:00 AM
TPH (Oil Range)	< 0.126	0.126		mg/L	1	10/29/2015 2:14:00 AM
Surr: 4-Terphenyl-d14	78.9	36.8 - 128		%REC	1	10/29/2015 2:14:00 AM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	10/28/2015 9:45:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	98.0	70 - 130		%REC	1	10/28/2015 9:45:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	10/28/2015 9:45:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	10/28/2015 9:45:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	10/28/2015 9:45:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	10/28/2015 9:45:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	86.4	70 - 130		%REC	1	10/28/2015 9:45:00 PM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: BAS
Mercury	< 0.0002	0.0002		mg/L	1	10/27/2015 11:31:04 AM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	0.277	0.100		mg/L	1	10/29/2015 9:05:27 PM
Chloride	209	12.5		mg/L	50	10/29/2015 3:31:28 PM
Sulfate	< 0.250	0.250		mg/L	1	10/29/2015 9:05:27 PM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	< 0.010	0.010		mg/L	1	10/28/2015 8:04:07 PM
Barium	0.877	0.010		mg/L	1	10/28/2015 8:04:07 PM
Cadmium	< 0.005	0.005		mg/L	1	10/28/2015 8:04:07 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: **15100948**

Date Reported: **10/30/2015**

CLIENT: ICON Environmental Services **Collection Date:** 10/23/2015 9:10:00 AM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-011 **Matrix:** AQUEOUS
Client Sample ID Sidney Meche Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS		SW6010B			Analyst: STS	
Calcium	70.4	0.500		mg/L	1	10/28/2015 8:04:07 PM
Chromium	< 0.010	0.010		mg/L	1	10/28/2015 8:04:07 PM
Iron	1.52	0.010		mg/L	1	10/28/2015 8:04:07 PM
Lead	< 0.010	0.010		mg/L	1	10/28/2015 8:04:07 PM
Magnesium	26.0	0.500		mg/L	1	10/28/2015 8:04:07 PM
Manganese	0.066	0.010		mg/L	1	10/28/2015 8:04:07 PM
Potassium	< 5.00	5.00		mg/L	1	10/28/2015 8:04:07 PM
Sodium	146	5.00		mg/L	1	10/28/2015 8:04:07 PM
Strontium	0.556	0.010		mg/L	1	10/28/2015 8:04:07 PM
Zinc	0.065	0.010		mg/L	1	10/28/2015 8:04:07 PM
ALKALINITY; TOTAL, CARB, BICARB		SM2320 B			Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO3)	330	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Total (As CaCO3)	330	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
TOTAL DISSOLVED SOLIDS		SM2540C			Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	610	100		mg/L	5	10/26/2015 10:49:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

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WO#: 15100948

Date Reported: 10/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 10/23/2015 12:20:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-012 **Matrix:** AQUEOUS
Client Sample ID Wayne Miller Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	< 0.133	0.133		mg/L	1	10/29/2015 2:29:00 AM
TPH (Oil Range)	< 0.122	0.122		mg/L	1	10/29/2015 2:29:00 AM
Surr: 4-Terphenyl-d14	79.9	36.8 - 128		%REC	1	10/29/2015 2:29:00 AM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	10/28/2015 10:12:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	99.0	70 - 130		%REC	1	10/28/2015 10:12:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	10/28/2015 10:12:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	10/28/2015 10:12:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	10/28/2015 10:12:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	10/28/2015 10:12:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	87.2	70 - 130		%REC	1	10/28/2015 10:12:00 PM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: BAS
Mercury	< 0.0002	0.0002		mg/L	1	10/27/2015 11:38:36 AM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	0.185	0.100		mg/L	1	10/29/2015 9:19:12 PM
Chloride	136	5.00		mg/L	20	10/29/2015 3:45:14 PM
Sulfate	< 0.250	0.250		mg/L	1	10/29/2015 9:19:12 PM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	0.015	0.010		mg/L	1	10/28/2015 8:08:28 PM
Barium	0.514	0.010		mg/L	1	10/28/2015 8:08:28 PM
Cadmium	< 0.005	0.005		mg/L	1	10/28/2015 8:08:28 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: **15100948**

Date Reported: **10/30/2015**

CLIENT: ICON Environmental Services **Collection Date:** 10/23/2015 12:20:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-012 **Matrix:** AQUEOUS
Client Sample ID Wayne Miller Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS		SW6010B			Analyst: STS	
Calcium	48.7	0.500		mg/L	1	10/28/2015 8:08:28 PM
Chromium	< 0.010	0.010		mg/L	1	10/28/2015 8:08:28 PM
Iron	0.403	0.010		mg/L	1	10/28/2015 8:08:28 PM
Lead	< 0.010	0.010		mg/L	1	10/28/2015 8:08:28 PM
Magnesium	18.0	0.500		mg/L	1	10/28/2015 8:08:28 PM
Manganese	0.034	0.010		mg/L	1	10/28/2015 8:08:28 PM
Potassium	< 5.00	5.00		mg/L	1	10/28/2015 8:08:28 PM
Sodium	144	5.00		mg/L	1	10/28/2015 8:08:28 PM
Strontium	0.582	0.010		mg/L	1	10/28/2015 8:08:28 PM
Zinc	0.043	0.010		mg/L	1	10/28/2015 8:08:28 PM
ALKALINITY; TOTAL, CARB, BICARB		SM2320 B			Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO3)	318	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Total (As CaCO3)	318	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
TOTAL DISSOLVED SOLIDS		SM2540C			Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	594	20.0		mg/L	1	10/26/2015 10:49:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15100948

Date Reported: 10/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 10/23/2015 1:30:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-013 **Matrix:** AQUEOUS
Client Sample ID Mike Broussard Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	Analyst: KKD
TPH DRO/ORO IN WATER BY SW8015					SW3510C	
TPH (Diesel Range)	< 0.131	0.131		mg/L	1	10/29/2015 2:45:00 AM
TPH (Oil Range)	< 0.121	0.121		mg/L	1	10/29/2015 2:45:00 AM
Surr: 4-Terphenyl-d14	82.0	36.8 - 128		%REC	1	10/29/2015 2:45:00 AM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8015B	Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	10/28/2015 10:39:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	97.8	70 - 130		%REC	1	10/28/2015 10:39:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015					SW8021B	Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	10/28/2015 10:39:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	10/28/2015 10:39:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	10/28/2015 10:39:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	10/28/2015 10:39:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	85.8	70 - 130		%REC	1	10/28/2015 10:39:00 PM
MERCURY IN GROUND WATER, TOTAL					SW7470A	Analyst: BAS
Mercury	< 0.0002	0.0002		mg/L	1	10/27/2015 11:40:57 AM
INORGANIC ANIONS IN WATER BY IC					SW9056A	Analyst: SGP
Bromide	0.200	0.100		mg/L	1	10/29/2015 9:32:58 PM
Chloride	164	5.00		mg/L	20	10/29/2015 3:58:58 PM
Sulfate	< 0.250	0.250		mg/L	1	10/29/2015 9:32:58 PM
METALS IN WATER BY ICP, TOTALS					SW6010B	Analyst: STS
Arsenic	< 0.010	0.010		mg/L	1	10/28/2015 8:12:59 PM
Barium	0.529	0.010		mg/L	1	10/28/2015 8:12:59 PM
Cadmium	< 0.005	0.005		mg/L	1	10/28/2015 8:12:59 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: **15100948**

Date Reported: **10/30/2015**

CLIENT: ICON Environmental Services **Collection Date:** 10/23/2015 1:30:00 PM
Project: East White Lake 9077-041-0800
Lab ID: 15100948-013 **Matrix:** AQUEOUS
Client Sample ID Mike Broussard Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS IN WATER BY ICP, TOTALS		SW6010B			Analyst: STS	
Calcium	47.9	0.500		mg/L	1	10/28/2015 8:12:59 PM
Chromium	< 0.010	0.010		mg/L	1	10/28/2015 8:12:59 PM
Iron	0.323	0.010		mg/L	1	10/28/2015 8:12:59 PM
Lead	< 0.010	0.010		mg/L	1	10/28/2015 8:12:59 PM
Magnesium	18.6	0.500		mg/L	1	10/28/2015 8:12:59 PM
Manganese	0.026	0.010		mg/L	1	10/28/2015 8:12:59 PM
Potassium	< 5.00	5.00		mg/L	1	10/28/2015 8:12:59 PM
Sodium	150	5.00		mg/L	1	10/28/2015 8:12:59 PM
Strontium	0.586	0.010		mg/L	1	10/28/2015 8:12:59 PM
Zinc	0.024	0.010		mg/L	1	10/28/2015 8:12:59 PM
ALKALINITY; TOTAL, CARB, BICARB		SM2320 B			Analyst: TBB	
Alkalinity, Bicarbonate (As CaCO3)	315	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
Alkalinity, Total (As CaCO3)	315	10.0		mgCaCO3/L	1	10/27/2015 9:03:52 AM
TOTAL DISSOLVED SOLIDS		SM2540C			Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	599	20.0		mg/L	1	10/26/2015 10:49:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
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W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 15100948

Date Reported: 10/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 10/23/2015
Project: East White Lake 9077-041-0800
Lab ID: 15100948-014 **Matrix:** AQUEOUS
Client Sample ID Trip Blank 1

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX/TPH-G IN WATER BY SW8021/8015				SW8015B		Analyst: KKD
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	10/28/2015 2:04:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	100	70 - 130		%REC	1	10/28/2015 2:04:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015				SW8021B		Analyst: KKD
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	10/28/2015 2:04:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	10/28/2015 2:04:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	10/28/2015 2:04:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	10/28/2015 2:04:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	87.0	70 - 130		%REC	1	10/28/2015 2:04:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
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Analytical Report

(consolidated)

WO#: 15100948

Date Reported: 10/30/2015

CLIENT: ICON Environmental Services **Collection Date:** 10/23/2015
Project: East White Lake 9077-041-0800
Lab ID: 15100948-015 **Matrix:** AQUEOUS
Client Sample ID Trip Blank 2

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX/TPH-G IN WATER BY SW8021/8015				SW8015B	Analyst: KKD	
TPH-GRO IN WATER BY SW8015						
TPH (Gasoline Range)	< 0.150	0.150		mg/L	1	10/28/2015 2:31:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	96.2	70 - 130		%REC	1	10/28/2015 2:31:00 PM
BTEX/TPH-G IN WATER BY SW8021/8015				SW8021B	Analyst: KKD	
BTEX IN WATER BY SW8021						
Benzene	< 0.00500	0.00500		mg/L	1	10/28/2015 2:31:00 PM
Ethylbenzene	< 0.00500	0.00500		mg/L	1	10/28/2015 2:31:00 PM
Toluene	< 0.0100	0.0100		mg/L	1	10/28/2015 2:31:00 PM
Xylenes, Total	< 0.0500	0.0500		mg/L	1	10/28/2015 2:31:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	87.0	70 - 130		%REC	1	10/28/2015 2:31:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 15100948
 30-Oct-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17114

Sample ID	MB-17114	SampType:	MBLK	TestCode:	HG_W_7470	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	47990			
Client ID:	PBW	Batch ID:	17114	TestNo:	SW7470A			Analysis Date:	10/27/2015	SeqNo:	1169606			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		< 0.0002		0.0002										

Sample ID	LCS-17114	SampType:	LCS	TestCode:	HG_W_7470	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	47990			
Client ID:	LCSW	Batch ID:	17114	TestNo:	SW7470A			Analysis Date:	10/27/2015	SeqNo:	1169607			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.0101		0.0002	0.0100	0		101	80	120				

Sample ID	LCSD-17114	SampType:	LCSD	TestCode:	HG_W_7470	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	47990			
Client ID:	LCSS02	Batch ID:	17114	TestNo:	SW7470A			Analysis Date:	10/27/2015	SeqNo:	1169608			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.0100		0.0002	0.0100	0		99.5	80	120	0.0101	1.77	20	

Sample ID	15100907-001GMS	SampType:	MS	TestCode:	HG_W_7470	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	47990			
Client ID:	ZZZZZZ	Batch ID:	17114	TestNo:	SW7470A			Analysis Date:	10/27/2015	SeqNo:	1169610			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.0090		0.0002	0.0100	0		90.4	75	125				

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
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QC SUMMARY REPORT

WO#: 15100948
 30-Oct-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17114

Sample ID	15100907-001GMSD	SampType:	MSD	TestCode:	HG_W_7470	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	47990											
Client ID:	ZZZZZZ	Batch ID:	17114	TestNo:	SW7470A			Analysis Date:	10/27/2015	SeqNo:	1169611											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
Mercury		0.0091		0.0002		0.0100		0		91.1		75		125		0.0090		0.682		20		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 15100948
 30-Oct-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17118

Sample ID	LCS-D-17118	SampType:	LCS	TestCode:	8015_DO_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48058			
Client ID:	LCSW	Batch ID:	17118	TestNo:	SW8015B		SW3510C	Analysis Date:	10/28/2015	SeqNo:	1171635			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range) 2.29 0.130 3.000 0 76.4 62.3 110
 Surr: 4-Terphenyl-d14 0.0775 0.1000 77.5 36.8 128

Sample ID	LCSD-D-17118	SampType:	LCSD	TestCode:	8015_DO_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48058			
Client ID:	LCSS02	Batch ID:	17118	TestNo:	SW8015B		SW3510C	Analysis Date:	10/28/2015	SeqNo:	1171636			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range) 2.47 0.130 3.000 0 82.3 62.3 110 2.292 7.39 14.1
 Surr: 4-Terphenyl-d14 0.0822 0.1000 82.2 36.8 128 0 40

Sample ID	LCSD-M-17118	SampType:	LCSD	TestCode:	8015_DO_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48058			
Client ID:	LCSS02	Batch ID:	17118	TestNo:	SW8015B		SW3510C	Analysis Date:	10/28/2015	SeqNo:	1171637			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Oil Range) 2.36 0.120 3.000 0 78.6 63.8 124 2.308 2.08 23.2
 Surr: 4-Terphenyl-d14 0.0820 0.1000 82.0 36.8 128 0 40

Sample ID	LCS-M-17118	SampType:	LCS	TestCode:	8015_DO_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48058			
Client ID:	LCSW	Batch ID:	17118	TestNo:	SW8015B		SW3510C	Analysis Date:	10/28/2015	SeqNo:	1171638			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Oil Range) 2.31 0.120 3.000 0 76.9 63.8 124

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
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QC SUMMARY REPORT

WO#: 15100948
 30-Oct-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17118

Sample ID	LCS-M-17118	SampType:	LCS	TestCode:	8015_DO_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48058			
Client ID:	LCSW	Batch ID:	17118	TestNo:	SW8015B	SW3510C		Analysis Date:	10/28/2015	SeqNo:	1171638			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14		0.0777			0.1000			77.7	36.8	128				

Sample ID	MB-17118	SampType:	MBLK	TestCode:	8015_DO_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48058			
Client ID:	PBW	Batch ID:	17118	TestNo:	SW8015B	SW3510C		Analysis Date:	10/30/2015	SeqNo:	1173219			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel Range)		< 0.130		0.130										
TPH (Oil Range)		< 0.120		0.120										
Surr: 4-Terphenyl-d14		0.0836			0.1000			83.6	36.8	128				

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 15100948
 30-Oct-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17140

Sample ID	MB-17140	SampType:	MBLK	TestCode:	6010_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48041					
Client ID:	PBW	Batch ID:	17140	TestNo:	SW6010B			Analysis Date:	10/28/2015	SeqNo:	1171154					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		< 0.010		0.010												
Barium		< 0.010		0.010												
Cadmium		< 0.005		0.005												
Calcium		< 0.500		0.500												
Chromium		< 0.010		0.010												
Iron		< 0.010		0.010												
Lead		< 0.010		0.010												
Magnesium		< 0.500		0.500												
Manganese		< 0.010		0.010												
Potassium		< 5.00		5.00												
Sodium		< 5.00		5.00												
Strontium		< 0.010		0.010												
Zinc		< 0.010		0.010												

Sample ID	LCS-17140	SampType:	LCS	TestCode:	6010_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48041					
Client ID:	LCSW	Batch ID:	17140	TestNo:	SW6010B			Analysis Date:	10/28/2015	SeqNo:	1171155					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		0.531		0.010		0.500		0		106	80	120				
Barium		0.564		0.010		0.500		0		113	80	120				
Cadmium		0.565		0.005		0.500		0		113	80	120				
Calcium		54.5		0.500		50.00		0		109	80	120				
Chromium		0.570		0.010		0.500		0		114	80	120				
Iron		0.573		0.010		0.500		0		115	80	120				
Lead		0.546		0.010		0.500		0		109	80	120				

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15100948
 30-Oct-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17140

Sample ID	LCS-17140	SampType: LCS	TestCode: 6010_W	Units: mg/L	Prep Date: 10/27/2015	RunNo: 48041					
Client ID:	LCSW	Batch ID: 17140	TestNo: SW6010B	Analysis Date: 10/28/2015	SeqNo: 1171155						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Magnesium	54.8	0.500	50.00	0	110	80	120				
Manganese	0.564	0.010	0.500	0	113	80	120				
Potassium	53.8	5.00	50.00	0	108	80	120				
Sodium	54.8	5.00	50.00	0	110	80	120				
Strontium	0.569	0.010	0.500	0	114	80	120				
Zinc	0.570	0.010	0.500	0	114	80	120				

Sample ID	LCSD-17140	SampType: LCSD	TestCode: 6010_W	Units: mg/L	Prep Date: 10/27/2015	RunNo: 48041					
Client ID:	LCSS02	Batch ID: 17140	TestNo: SW6010B	Analysis Date: 10/28/2015	SeqNo: 1171156						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.515	0.010	0.500	0	103	80	120	0.531	3.04	20	
Barium	0.546	0.010	0.500	0	109	80	120	0.564	3.33	20	
Cadmium	0.548	0.005	0.500	0	110	80	120	0.565	3.18	20	
Calcium	53.0	0.500	50.00	0	106	80	120	54.46	2.79	20	
Chromium	0.549	0.010	0.500	0	110	80	120	0.570	3.72	20	
Iron	0.600	0.010	0.500	0	120	80	120	0.573	4.57	20	
Lead	0.530	0.010	0.500	0	106	80	120	0.546	3.10	20	
Magnesium	53.3	0.500	50.00	0	107	80	120	54.80	2.70	20	
Manganese	0.545	0.010	0.500	0	109	80	120	0.564	3.39	20	
Potassium	52.8	5.00	50.00	0	106	80	120	53.84	1.86	20	
Sodium	54.0	5.00	50.00	0	108	80	120	54.75	1.31	20	
Strontium	0.545	0.010	0.500	0	109	80	120	0.569	4.36	20	
Zinc	0.551	0.010	0.500	0	110	80	120	0.570	3.41	20	

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15100948
 30-Oct-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17140

Sample ID	15100948-004CMS	SampType:	MS	TestCode:	6010_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48041
Client ID:	Ivy Stelly Well	Batch ID:	17140	TestNo:	SW6010B	Analysis Date:	10/28/2015	SeqNo:	1171163		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.489	0.010	0.500	0	97.9	75	125				
Barium	1.33	0.010	0.500	0.910	83.6	75	125				
Cadmium	0.474	0.005	0.500	0	94.9	75	125				
Calcium	111	0.500	50.00	69.96	82.5	75	125				
Chromium	0.477	0.010	0.500	0	95.3	75	125				
Iron	5.42	0.010	0.500	5.194	46.2	75	125				S
Lead	0.471	0.010	0.500	0	94.2	75	125				
Magnesium	62.9	0.500	50.00	18.67	88.4	75	125				
Manganese	0.603	0.010	0.500	0.129	94.7	75	125				
Potassium	47.8	5.00	50.00	1.913	91.9	75	125				
Sodium	119	5.00	50.00	77.03	84.5	75	125				
Strontium	0.855	0.010	0.500	0.389	93.2	75	125				
Zinc	0.670	0.010	0.500	0.209	92.2	75	125				

Sample ID	15100948-004CMSD	SampType:	MSD	TestCode:	6010_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48041
Client ID:	Ivy Stelly Well	Batch ID:	17140	TestNo:	SW6010B	Analysis Date:	10/28/2015	SeqNo:	1171164		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.515	0.010	0.500	0	103	75	125	0.489	5.06	20	
Barium	1.38	0.010	0.500	0.910	95.0	75	125	1.328	4.20	20	
Cadmium	0.503	0.005	0.500	0	101	75	125	0.474	5.77	20	
Calcium	115	0.500	50.00	69.96	89.9	75	125	111.2	3.27	20	
Chromium	0.506	0.010	0.500	0	101	75	125	0.477	6.04	20	
Iron	5.56	0.010	0.500	5.194	73.2	75	125	5.425	2.46	20	S
Lead	0.498	0.010	0.500	0	99.6	75	125	0.471	5.53	20	

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15100948
 30-Oct-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: 17140

Sample ID	15100948-004CMSD	SampType:	MSD	TestCode:	6010_W	Units:	mg/L	Prep Date:	10/27/2015	RunNo:	48041
Client ID:	Ivy Stelly Well	Batch ID:	17140	TestNo:	SW6010B			Analysis Date:	10/28/2015	SeqNo:	1171164
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Magnesium	65.2	0.500	50.00	18.67	93.1	75	125	62.87	3.68	20	
Manganese	0.636	0.010	0.500	0.129	101	75	125	0.603	5.38	20	
Potassium	48.3	5.00	50.00	1.913	92.9	75	125	47.84	1.04	20	
Sodium	123	5.00	50.00	77.03	91.7	75	125	119.3	2.97	20	
Strontium	0.889	0.010	0.500	0.389	100	75	125	0.855	3.93	20	
Zinc	0.705	0.010	0.500	0.209	99.1	75	125	0.670	5.08	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 15100948
 30-Oct-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R47953

Sample ID	MB-R47953	SampType:	MBLK	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	47953					
Client ID:	PBW	Batch ID:	R47953	TestNo:	SM2540C			Analysis Date:	10/26/2015	SeqNo:	1170143					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable) < 20.0 20.0

Sample ID	LCS-R47953	SampType:	LCS	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	47953					
Client ID:	LCSW	Batch ID:	R47953	TestNo:	SM2540C			Analysis Date:	10/26/2015	SeqNo:	1170144					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable) 1,000 20.0 1,000 0 100 85 115

Sample ID	LCSD-R47953	SampType:	LCSD	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	47953					
Client ID:	LCSS02	Batch ID:	R47953	TestNo:	SM2540C			Analysis Date:	10/26/2015	SeqNo:	1170145					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable) 990 20.0 1,000 0 99.0 85 115 1,004 1.40 10

Sample ID	15100907-001FDUP	SampType:	DUP	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	47953					
Client ID:	ZZZZZZ	Batch ID:	R47953	TestNo:	SM2540C			Analysis Date:	10/26/2015	SeqNo:	1170147					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable) 2,410 200 2,420 0.414 10

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
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QC SUMMARY REPORT

WO#: 15100948
 30-Oct-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R47953

Sample ID	15100907-001FDUP	SampType:	DUP	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	47953			
Client ID:	ZZZZZZ	Batch ID:	R47953	TestNo:	SM2540C			Analysis Date:	10/26/2015	SeqNo:	1170147			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID	15100949-003ADUP	SampType:	DUP	TestCode:	TDS_2540C	Units:	mg/L	Prep Date:		RunNo:	47953			
Client ID:	ZZZZZZ	Batch ID:	R47953	TestNo:	SM2540C			Analysis Date:	10/26/2015	SeqNo:	1170164			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterable)		680		20.0							690.0	1.46	10	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 15100948
 30-Oct-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R47979

Sample ID	MB-R47979	SampType:	MBLK	TestCode:	ALK	Units:	mgCaCO3/L	Prep Date:		RunNo:	47979		
Client ID:	PBW	Batch ID:	R47979	TestNo:	SM2320 B			Analysis Date:	10/27/2015	SeqNo:	1169736		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Bicarbonate (As CaCO3)	< 10.0	10.0
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0
Alkalinity, Total (As CaCO3)	< 10.0	10.0

Sample ID	LCS-R47979	SampType:	LCS	TestCode:	ALK	Units:	mgCaCO3/L	Prep Date:		RunNo:	47979		
Client ID:	LCSW	Batch ID:	R47979	TestNo:	SM2320 B			Analysis Date:	10/27/2015	SeqNo:	1169737		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Total (As CaCO3)	48.5	10.0	50.0	0	97.0	80	120
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Sample ID	15100907-001FDUP	SampType:	DUP	TestCode:	ALK	Units:	mgCaCO3/L	Prep Date:		RunNo:	47979		
Client ID:	ZZZZZ	Batch ID:	R47979	TestNo:	SM2320 B			Analysis Date:	10/27/2015	SeqNo:	1169740		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Bicarbonate (As CaCO3)	398	10.0								402.5	1.3	20
Alkalinity, Carbonate (As CaCO3)	< 10.0	10.0								0	0	20
Alkalinity, Total (As CaCO3)	398	10.0								402.5	1.3	20

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 15100948
 30-Oct-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R48029

Sample ID	MBLK	SampType:	MBLK	TestCode:	9056_W	Units:	mg/L	Prep Date:		RunNo:	48029					
Client ID:	PBW	Batch ID:	R48029	TestNo:	SW9056A			Analysis Date:	10/29/2015	SeqNo:	1172484					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide		< 0.100		0.100												
Chloride		< 0.250		0.250												
Sulfate		< 0.250		0.250												

Sample ID	LCS	SampType:	LCS	TestCode:	9056_W	Units:	mg/L	Prep Date:		RunNo:	48029					
Client ID:	LCSW	Batch ID:	R48029	TestNo:	SW9056A			Analysis Date:	10/29/2015	SeqNo:	1172485					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide		3.98		0.100		4.000		0		99.5	80	120				
Chloride		9.75		0.250		10.00		0		97.5	80	120				
Sulfate		9.84		0.250		10.00		0		98.4	80	120				

Sample ID	LCSD	SampType:	LCSD	TestCode:	9056_W	Units:	mg/L	Prep Date:		RunNo:	48029					
Client ID:	LCSS02	Batch ID:	R48029	TestNo:	SW9056A			Analysis Date:	10/29/2015	SeqNo:	1172486					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide		4.05		0.100		4.000		0		101	80	120	3.980	1.77	15	
Chloride		9.80		0.250		10.00		0		98.0	80	120	9.747	0.528	15	
Sulfate		10.0		0.250		10.00		0		100	80	120	9.843	1.59	15	

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
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QC SUMMARY REPORT

WO#: 15100948
 30-Oct-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R48029

Sample ID	15100988-001CMS	SampType:	MS	TestCode:	9056_W	Units:	mg/L	Prep Date:		RunNo:	48029			
Client ID:	ZZZZZZ	Batch ID:	R48029	TestNo:	SW9056A			Analysis Date:	10/29/2015	SeqNo:	1172507			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide		98.5		5.00	100.0	0.3903		98.2	80	120				
Chloride		471		12.5	250.0	224.0		98.7	80	120				
Sulfate		244		12.5	250.0	0		97.8	80	120				

Sample ID	15100988-001CMSD	SampType:	MSD	TestCode:	9056_W	Units:	mg/L	Prep Date:		RunNo:	48029			
Client ID:	ZZZZZZ	Batch ID:	R48029	TestNo:	SW9056A			Analysis Date:	10/29/2015	SeqNo:	1172508			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide		99.5		5.00	100.0	0.3903		99.2	80	120	98.55	1.01	15	
Chloride		474		12.5	250.0	224.0		100	80	120	470.8	0.688	15	
Sulfate		248		12.5	250.0	0		99.1	80	120	244.4	1.35	15	

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
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QC SUMMARY REPORT

WO#: 15100948
 30-Oct-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R48050

Sample ID	BTEX LCS_W	SampType: LCS	TestCode: 8021_BTEX_ Units: mg/L			Prep Date:			RunNo: 48050			
Client ID:	LCSW	Batch ID: R48050	TestNo: SW8021B			Analysis Date: 10/28/2015			SeqNo: 1171430			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	0.0509	0.00500	0.05000	0	102	72	120					
Ethylbenzene	0.0462	0.00500	0.05000	0	92.4	76	129					
Toluene	0.0486	0.0100	0.05000	0	97.2	78	120					
Xylenes, Total	0.141	0.0500	0.1500	0	94.0	75	125					
Surr: alpha, alpha, alpha-Trifluorotoluene	0.0422		0.05000		84.4	70	130					

Sample ID	BTEX LCSD_W	SampType: LCSD	TestCode: 8021_BTEX_ Units: mg/L			Prep Date:			RunNo: 48050			
Client ID:	LCSS02	Batch ID: R48050	TestNo: SW8021B			Analysis Date: 10/28/2015			SeqNo: 1171434			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	0.0516	0.00500	0.05000	0	103	72	120	0.05090	1.37	20		
Ethylbenzene	0.0469	0.00500	0.05000	0	93.8	76	129	0.04620	1.50	20		
Toluene	0.0490	0.0100	0.05000	0	98.0	78	120	0.04860	0.820	20		
Xylenes, Total	0.142	0.0500	0.1500	0	94.9	75	125	0.1410	0.918	20		
Surr: alpha, alpha, alpha-Trifluorotoluene	0.0437		0.05000		87.4	70	130		0	20		

Sample ID	MB ACID	SampType: MBLK	TestCode: 8021_BTEX_ Units: mg/L			Prep Date:			RunNo: 48050			
Client ID:	PBW	Batch ID: R48050	TestNo: SW8021B			Analysis Date: 10/28/2015			SeqNo: 1171438			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	< 0.00500	0.00500										
Ethylbenzene	< 0.00500	0.00500										

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 15100948
 30-Oct-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R48050

Sample ID	MB ACID	SampType:	MBLK	TestCode:	8021_BTEX_	Units:	mg/L	Prep Date:		RunNo:	48050			
Client ID:	PBW	Batch ID:	R48050	TestNo:	SW8021B			Analysis Date:	10/28/2015	SeqNo:	1171438			
Analyte		Result		PQL		SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene		< 0.0100		0.0100										
Xylenes, Total		< 0.0500		0.0500										
Surr: alpha, alpha, alpha-Trifluorotoluene		0.0433				0.05000		86.6	70	130				

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 15100948
 30-Oct-15

Client: ICON Environmental Services
Project: East White Lake 9077-041-0800

BatchID: R48052

Sample ID	GAS LCS_W	SampType:	LCS	TestCode:	8015_G_W	Units:	mg/L	Prep Date:		RunNo:	48052			
Client ID:	LCSW	Batch ID:	R48052	TestNo:	SW8015B			Analysis Date:	10/28/2015	SeqNo:	1171449			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline Range)		13.2		0.150	12.50	0		106	80	130				

Sample ID	GAS LCSD_W	SampType:	LCSD	TestCode:	8015_G_W	Units:	mg/L	Prep Date:		RunNo:	48052			
Client ID:	LCSS02	Batch ID:	R48052	TestNo:	SW8015B			Analysis Date:	10/28/2015	SeqNo:	1171450			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline Range)		13.1		0.150	12.50	0		105	80	130	13.24	1.33	20	

Sample ID	MB ACID	SampType:	MBLK	TestCode:	8015_G_W	Units:	mg/L	Prep Date:		RunNo:	48052			
Client ID:	PBW	Batch ID:	R48052	TestNo:	SW8015B			Analysis Date:	10/28/2015	SeqNo:	1171451			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline Range)		< 0.150		0.150										
Surr: alpha, alpha, alpha-Trifluorotoluene		0.0497			0.05000			99.4	70	130				

Qualifiers: H Holding times for preparation or analysis exceeded M Matrix Interference ND Not Detected at the Reporting Limit
 RL Reporting Limit S Spike Recovery outside accepted recovery limits U Analyte not detected
 W Sample container temperature is out of limit as specified at testcode



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Sample Log-In Check List

Client Name: **ICON_ENV**

Work Order Number: **15100948**

RcptNo: **1**

Logged by:	Tammy Thibodeaux	10/23/2015 3:40:00 PM	<i>Tammy Thibodeaux</i>
Completed By:	Tammy Thibodeaux	10/26/2015 9:16:22 AM	<i>Tammy Thibodeaux</i>
Reviewed By:	Caitlin Duplantis	10/29/2015 1:24:26 PM	<i>Caitlin Duplantis</i>

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 Custody seals intact on shipping container/cooler? Yes No Not Present
 No. Seal Date: Signed By:
 5. Was an attempt made to cool the samples? Yes No NA
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 7. Sample(s) in proper container(s)? Yes No
 8. Sufficient sample volume for indicated test(s)? Yes No
 9. Are samples (except VOA and ONG) properly preserved? Yes No
 10. Was preservative added to bottles? Yes No NA
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
 12. Were any sample containers received broken? Yes No
 13. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 14. Are matrices correctly identified on Chain of Custody? Yes No
 15. Is it clear what analyses were requested? Yes No
 16. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

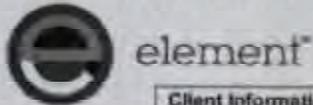
Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:

Two vials for Ve 7361z have headspace and VE 1365 also has two with headspace.

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1, 2	2.5, 4.7	Good	Not Present			



Chain of Custody

Laboratory Number: **15100948**

Client Information:		Billing Information:		PO Number:	Project Name/Number: East White Lake	Page 1 of 2
Company Name: ICON Environmental				Quote Number:	9077-01-0800	Matrix Code DW = Drinking Water WW = Waste Water GW = Ground Water AQ = Aqueous OT = Other SL = Sludge SOL = Solid O = Oil SO = Soil F = Food SW = Swab NG = Natural Gas NGL = Natural Gas Liquid PW = Produced Water CF = Completion Fluid
Contact Name: Greg Miller		SAME		Required QC Level:	<i>[Signature]</i>	
Address: 2049 Commercial Dr				Bill Monthly:	Shipping Method: UPS / FedEx / NQW DHL / Element / Hand / Mail	
City, State Zip: Port Allen LA 70467				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Phone Number: 225-344-0410	Ext:		Ext:			
Fax Number:						
E-mail Address:						

Which Regulations Apply: <input type="checkbox"/> RCRA <input type="checkbox"/> Drinking Water <input type="checkbox"/> POTW <input type="checkbox"/> Distribution <input type="checkbox"/> NPDES <input type="checkbox"/> Special <input type="checkbox"/> USDA/FDA <input type="checkbox"/> State <input type="checkbox"/> RECAP/RISC <input type="checkbox"/> Other	Turn Time <input checked="" type="checkbox"/> Standard RUSH <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> Other	(Rush turn times will incur a surcharge and must be pre-approved by lab.)		Container		Pres. HCl, HNO ₃ , H ₂ SO ₄ , NaOH, Na ₂ S ₂ O ₈	Requested Tests						Comments	
				Quantity	Type P=Plastic, G=Glass, V=Vial		Turbidity/BTEX	TPH-D/O	TDS/Cl ⁻	Total Metals	Barion	Greasy/Anions		
Sample ID/Description	Collection Information Date Time		Grid/Composites	Matrix	Quantity	Type	HCl, HNO ₃ , H ₂ SO ₄ , NaOH, Na ₂ S ₂ O ₈	Turbidity/BTEX	TPH-D/O	TDS/Cl ⁻	Total Metals	Barion	Greasy/Anions	Matrix List: As, Ba, Cd, Cr Fe, Mn, Pb Sr, Zn, Hg
Ve 5361z	10/22/15	1140	G	GW	6	P, G, V	HCl, HNO ₃	X	X	X	X	X	X	
Ve 7361z		1235												
Donald Stelly Camp Well		1315												
Ivy Stelly Well		1400												
Ve 12018z		1655												
Ve 1365	10/21/15	0915												
Gray Raspberry Well		1200												
11621z		1540												
6678z		1645												

	Relinquished by	Date/Time	Received by	Date/Time	Field Notes:
1	<i>[Signature]</i>	10-23-15 1540	<i>[Signature]</i>	10-23-15 1540	Received at lab on ice? 4.7°C <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp: 2.5°C CH
2					
3					

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

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- 829 Washington St, Suite 300, Columbus, IN 47201-6221 USA P 812-375-0531 F 812-375-0731
- 2121 East Washington Boulevard, Fort Wayne, IN 46803-1328 USA P 300-471-7000 F 300-471-1777
- 888 Executive Dr, Warsaw, IN 46586-2588 USA P 374-267-3305 F 374-269-6569
- 3371 Cleveland Road, Suite 100A, South Bend, IN 46628-8780 USA P 374-271-0707 F 374-273-8888
- 3417 W. Pinhook Rd, Lafayette, LA 70506-3244 USA P 337-233-0483 F 337-233-6540



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Chain of Custody

Laboratory Number: **B100948**

Company Name: Contact Name: Address: City, State Zip: Phone Number: Fax Number: E-mail Address:	Client Information:	Billing Information:	PO Number:	Project Name/Number: East White Lake	Page 2 of 2
	CON Environmental		Quote Number:	9077-041-0800	Matrix Code DW = Drinking Water WW = Waste Water GW = Ground Water AQ = Aqueous OT = Other SL = Sludge SOL = Solid O = Oil SO = Soil F = Food SW = Swab NG = Natural Gas NGL = Natural Gas Liquid PW = Produced Water CF = Completion Fluid
	Greg Miller		Required QC Level:	Sampler's Signature: <i>[Signature]</i>	
			Ext	Ext	
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Which Regulations Apply: <input type="checkbox"/> RCRA <input type="checkbox"/> Drinking Water <input type="checkbox"/> POTW <input type="checkbox"/> Distribution <input type="checkbox"/> NPDES <input type="checkbox"/> Special <input type="checkbox"/> USDA/FDA <input type="checkbox"/> State <input type="checkbox"/> RECAP/RI/IG <input type="checkbox"/> Other	Turn Time <input type="checkbox"/> Standard <input checked="" type="checkbox"/> RUSH <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> Other	(Rush turn times will incur a surcharge and must be pre-approved by lab.)		Container		Pres. HCl, HNO ₃ , H ₂ SO ₄ , NaOH, Na ₂ S ₂ O ₈	Requested Tests						Comments	
				Quantity	Type P=Plastic, G=Glass, V=Vial		TPP-G/BTEX	TPP-D/O	TPP-CI	Total Metals	Barium	Cadmium/Lead		
Sample ID/Description	Date	Time	Dist./Composite	Matrix	Quantity	Type	Pres.	TPP-G/BTEX	TPP-D/O	TPP-CI	Total Metals	Barium	Cadmium/Lead	
Bulba Montesanto Well	10/22/15	1705	G	GW	6	P, G, V	HCl, HNO ₃	X	X	X	X	X	X	<u>Metals List:</u> As, Br, Cd, Cr Fe, Mn, Pb Sr, Zn, Hg
Sidney Mache Well	10/23/15	0910												
Wayne Miller Well		1320												
Mike Brassard Well		1330												
TRIP Blank 1					3	V	HCl							
TRIP Blank 2					3	V	HCl							

1	Relinquished by	Date/Time	Received by	Date/Time	Field Notes:
1	<i>[Signature]</i>	10-23-15 1540	<i>[Signature]</i>	10-27-15 1540	
2					Received at lab on ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp: 4.7 °C
3					<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp: 25

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

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