



30-039-23381

Analytical Report

Report Summary

Client: Thompson Engineering

Chain Of Custody Number:

Samples Received: 10/26/2016 11:18:00AM

Job Number: 07173-0001

Work Order: P610044

Project Name/Location: Lindrith 29E

Report Reviewed By:

A handwritten signature in dark ink, appearing to read 'Walter Hinchman', written over a horizontal line.

Date: 11/3/16

Walter Hinchman, Laboratory Director

A handwritten signature in dark ink, appearing to read 'Tim Cain', written over a horizontal line. To the right of the signature, the letters 'TC' are handwritten.

Date: 11/3/16

Tim Cain, Quality Assurance Officer

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Thompson Engineering
7415 E. Main St
Farmington NM, 87402

Project Name: Lindrith 29E
Project Number: 07173-0001
Project Manager: Vern Andrews

Reported:
03-Nov-16 15:37

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Lindrith 29E	P610044-01A	Aqueous	10/20/16	10/26/16	Poly 500mL

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Project Name: Lindrith 29E
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Project Manager: Vern Andrews

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Lindrith 29E
P610044-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wet Chem/Gravimetric									
Total Dissolved Solids	630	10.0	mg/L	1	1645003	10/31/16	11/01/16	SM2540C	
Cation/Anion Analysis									
pH @25°C	10.4		pH Units	1	1645006	10/31/16 14:11	10/31/16 15:18	9040C/4500 H	H1
Electrical Conductivity	1080		umhos/cm	1	1645005	10/31/16	10/31/16	9050A/2510	
Sodium Absorption Ratio	78.4		N/A	1	1645028	11/03/16	11/03/16	[CALC]	
Total Alkalinity as CaCO3	250	10.0	mg/L	1	1645018	11/02/16	11/02/16	Hach Method 8203	
Bicarbonate as CaCO3	ND	10.0	mg/L	1	1645018	11/02/16	11/02/16	Hach Method 8203	
Carbonate as CaCO3	40.0	10.0	mg/L	1	1645018	11/02/16	11/02/16	Hach Method 8203	
Hydroxide as CaCO3	210	10.0	mg/L	1	1645018	11/02/16	11/02/16	Hach Method 8203	
Fluoride	3.15	0.50	mg/L	2	1645015	11/02/16	11/02/16	EPA 300.0	
Chloride	7.75	4.00	mg/L	2	1645015	11/02/16	11/02/16	EPA 300.0	
Nitrite-N	ND	0.50	mg/L	2	1645015	11/02/16 09:05	11/02/16 11:12	EPA 300.0	H1
Nitrate-N	ND	0.50	mg/L	2	1645015	11/02/16 09:05	11/02/16 11:12	EPA 300.0	H1
o-Phosphate-P	ND	0.50	mg/L	2	1645015	11/02/16 09:05	11/02/16 11:12	EPA 300.0	H1
Sulfate	15.2	4.00	mg/L	2	1645015	11/02/16	11/02/16	EPA 300.0	
Iron	ND	0.50	mg/L	1	1645022	11/03/16	11/03/16	EPA 6010C	
Calcium	0.92	0.50	mg/L	1	1645022	11/03/16	11/03/16	EPA 6010C	
Magnesium	ND	0.20	mg/L	1	1645022	11/03/16	11/03/16	EPA 6010C	
Potassium	1.28	0.50	mg/L	1	1645022	11/03/16	11/03/16	EPA 6010C	
Sodium	273	2.00	mg/L	1	1645022	11/03/16	11/03/16	EPA 6010C	

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Project Name: Lindrith 29E
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Reported:
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Wet Chem/Gravimetric - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1645003 - Anion Extraction EPA 300.0										
Blank (1645003-BLK1)				Prepared: 31-Oct-16 Analyzed: 01-Nov-16						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (1645003-DUP1)				Source: P610044-01 Prepared: 31-Oct-16 Analyzed: 01-Nov-16						
Total Dissolved Solids	632	10.0	mg/L		630			0.320	5	

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Project Manager: Vern Andrews

Reported:
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Cation/Anion Analysis - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1645005 - No Prep Wet Chem

Duplicate (1645005-DUP1)

Source: P610044-01

Prepared & Analyzed: 31-Oct-16

Electrical Conductivity	1090		umhos/cm		1080			0.646	20	
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Cation/Anion Analysis - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1645006 - No Prep Wet Chem										
LCS (1645006-BS1)					Prepared & Analyzed: 31-Oct-16					
pH	8.00		pH Units	8.00		100	98.75-101.25			
Duplicate (1645006-DUP1)					Source: P610044-01 Prepared & Analyzed: 31-Oct-16					
pH	10.4		pH Units	10.4				0.0961	20	

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Cation/Anion Analysis - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1645015 - Anion Extraction EPA 300.0										
Blank (1645015-BLK1)				Prepared & Analyzed: 02-Nov-16						
Fluoride	ND	0.25	mg/L							
Chloride	ND	2.00	"							
Nitrite-N	ND	0.25	"							
Nitrate-N	ND	0.25	"							
o-Phosphate-P	ND	0.25	"							
Sulfate	ND	2.00	"							
LCS (1645015-BS1)				Prepared & Analyzed: 02-Nov-16						
Fluoride	5.02	0.25	mg/L	5.00		100	90-110			
Chloride	50.6	2.00	"	50.0		101	90-110			
Nitrite-N	4.99	0.25	"	5.00		99.7	90-110			
Nitrate-N	5.19	0.25	"	5.00		104	90-110			
o-Phosphate-P	8.29	0.25	"	8.15		102	90-110			
Sulfate	50.7	2.00	"	50.0		101	90-110			
Matrix Spike (1645015-MS1)		Source: P610044-01		Prepared & Analyzed: 02-Nov-16						
Fluoride	13.6	0.50	mg/L	10.0	3.15	105	80-120			SPK1
Chloride	136	4.00	"	100	7.75	128	80-120			
Nitrite-N	11.2	0.50	"	10.0	ND	112	80-120			
Nitrate-N	10.4	0.50	"	10.0	ND	104	80-120			
o-Phosphate-P	16.7	0.50	"	16.3	ND	102	80-120			
Sulfate	121	4.00	"	100	15.2	106	80-120			
Matrix Spike Dup (1645015-MSD1)		Source: P610044-01		Prepared & Analyzed: 02-Nov-16						
Fluoride	13.6	0.50	mg/L	10.0	3.15	105	80-120	0.0293	20	
Chloride	111	4.00	"	100	7.75	103	80-120	20.4	20	
Nitrite-N	10.1	0.50	"	10.0	ND	101	80-120	10.6	20	
Nitrate-N	10.5	0.50	"	10.0	ND	105	80-120	0.900	20	
o-Phosphate-P	16.9	0.50	"	16.3	ND	103	80-120	0.870	20	
Sulfate	122	4.00	"	100	15.2	107	80-120	0.591	20	

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Cation/Anion Analysis - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1645022 - Metal Water Digestion EPA 3015A

Blank (1645022-BLK1)

Prepared & Analyzed: 03-Nov-16

Iron	ND	0.50	mg/L							
Calcium	ND	0.50	"							
Magnesium	ND	0.20	"							
Potassium	ND	0.50	"							
Sodium	ND	2.00	"							

LCS (1645022-BS1)

Prepared & Analyzed: 03-Nov-16

Iron	110	0.50	mg/L	100		110	80-120			
Calcium	107	0.50	"	100		107	80-120			
Magnesium	105	0.20	"	100		105	80-120			
Potassium	1.14	0.50	"	1.00		114	80-120			
Sodium	107	2.00	"	100		107	80-120			

Matrix Spike (1645022-MS1)

Source: P611001-01

Prepared & Analyzed: 03-Nov-16

Iron	110	0.50	mg/L	100	ND	110	75-125			
Calcium	111	0.50	"	100	5.77	105	75-125			
Magnesium	104	0.20	"	100	0.61	104	75-125			
Potassium	1.41	0.50	"	1.00	ND	141	75-125			SPK1
Sodium	111	2.00	"	100	7.01	104	75-125			

Matrix Spike Dup (1645022-MSD1)

Source: P611001-01

Prepared & Analyzed: 03-Nov-16

Iron	113	0.50	mg/L	100	ND	113	75-125	2.88	20	
Calcium	114	0.50	"	100	5.77	108	75-125	2.47	20	
Magnesium	108	0.20	"	100	0.61	107	75-125	2.95	20	
Potassium	1.52	0.50	"	1.00	ND	152	75-125	7.20	20	SPK1
Sodium	113	2.00	"	100	7.01	106	75-125	1.58	20	

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Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.
H1 Sample was received after regulatory hold-time exceeded for target analyte.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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