

6/12/2023

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA, 70583

Ref: Report Number: 23-129-0031
Project Description: Gastel
Project Number: 1705.A37
Morse, La

Dear Mr. Stewart Stover, Jr.:

Waypoint Analytical Louisiana, Inc. received sample(s) on 5/9/2023 for the analyses presented in the following report. The above referenced project has been analyzed per your instructions. Unless otherwise noted, the analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance. Analyses reported which indicate "Field" for these parameters were analyzed by the client in the field. Results for solid samples are reported on an as received or "wet weight" basis unless otherwise specified.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

All quality control measures undertaken in accordance with Waypoint Analytical Louisiana, Inc. CompQAP990807A and revisions under the terms of the Louisiana Environmental Laboratory Accreditation Program (Certificate #02041) are within acceptance ranges established in that document with the exception of the items indicated and/or discussed in a Case Narrative.

The results are shown on the attached analysis sheet(s). Be aware that the time analyzed for certain samples (e.g. - BOD, CBOD, etc.) refer to the time the sample batch was begun and not necessarily to the time an individual sample was begun. Thank you for allowing Waypoint Analytical Louisiana, Inc. to serve you. Should I be of further assistance, if you have any questions or need additional information please contact me or client services.

Sincerely,



Amy Jackson
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis. This report may be reproduced in full only with the written permission of the laboratory and/or the entity to which it is addressed. Results contained herein relate only to the sample(s) submitted to the laboratory.



Certification Summary

Laboratory ID: WP MLA: Waypoint Analytical Louisiana, Inc., Marrero, LA

State	Program	Lab ID	Expiration Date
Georgia	State Program	02041	06/30/2023
Louisiana	State Program - NELAP	02041	06/30/2023

Laboratory ID: WP MTN: Waypoint Analytical, LLC., Memphis, TN

State	Program	Lab ID	Expiration Date
Alabama	State Program	40750	02/29/2024
Arkansas	State Program	88-0650	02/07/2024
California	State Program	2904	06/30/2023
Florida	State Program - NELAP	E871157	06/30/2023
Georgia	State Program	C044	11/14/2025
Georgia	State Program	04015	06/30/2023
Illinois	State Program - NELAP	200078	10/10/2023
Kentucky	State Program	80215	06/30/2023
Kentucky	State Program	KY90047	12/31/2023
Louisiana	State Program - NELAP	LA037	12/31/2023
Louisiana	State Program - NELAP	04015	06/30/2023
Mississippi	State Program	MS	11/14/2025
North Carolina	State Program	47701	07/31/2023
North Carolina	State Program	415	12/31/2023
Pennsylvania	State Program - NELAP	68-03195	05/31/2024
South Carolina	State Program	84002	06/30/2023
Tennessee	State Program	02027	11/14/2025
Texas	State Program - NELAP	T104704180	09/30/2023
Virginia	State Program	00106	06/30/2023
Virginia	State Program - NELAP	460181	09/14/2023

Sample Summary Table

Report Number: 23-129-0031
Client Project Description: Gastel
Project Number: 1705.A37
Morse, La

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
52532	SE-SB01 (4-6)	Solids	05/02/2023 09:50	05/09/2023		
52533	SE-SB01 (6-8)	Solids	05/02/2023 09:55	05/09/2023		
52534	SE-SB01 (8-10)	Solids	05/02/2023 10:00	05/09/2023		
52535	SE-SB01 (10-12)	Solids	05/02/2023 10:02	05/09/2023		
52536	SE-SB01 (12-1 4)	Solids	05/02/2023 10:13	05/09/2023		
52537	SE-SB01 (14-16)	Solids	05/02/2023 10:15	05/09/2023		
52538	SE-SB01 (16-18)	Solids	05/02/2023 10:25	05/09/2023		
52539	SE-SB01 (18-20)	Solids	05/02/2023 10:27	05/09/2023		
52540	SE-SB01 (20-22)	Solids	05/02/2023 10:35	05/09/2023		
52541	SE-SB01 (22-24)	Solids	05/02/2023 10:37	05/09/2023		
52542	SE-SB01 (24-26)	Solids	05/02/2023 10:45	05/09/2023		
52543	SE-SB01 (26-28)	Solids	05/02/2023 10:47	05/09/2023		
52544	SE-SB01 (28-30)	Solids	05/02/2023 10:55	05/09/2023		
52545	SE-SB01 (30-32)	Solids	05/02/2023 10:57	05/09/2023		
52546	SE-SB01 (32-34)	Solids	05/02/2023 11:05	05/09/2023		
52547	SE-SB01 (34-35)	Solids	05/02/2023 11:07	05/09/2023		
52548	SE-SB02 (0-2)	Solids	05/02/2023 14:55	05/09/2023		
52549	SE-SB02 (2-4)	Solids	05/02/2023 14:57	05/09/2023		
52550	SE-SB02 (4-6)	Solids	05/02/2023 15:05	05/09/2023		
52551	SE-SB02 (6-8)	Solids	05/02/2023 15:07	05/09/2023		
52552	SE-SB02 (8-10)	Solids	05/02/2023 15:15	05/09/2023		
52553	SE-SB02 (10-12)	Solids	05/02/2023 15:17	05/09/2023		
52554	SE-SB02 (12-14)	Solids	05/02/2023 15:20	05/09/2023		
52555	SE-SB02 (14-16)	Solids	05/02/2023 15:22	05/09/2023		
52556	SE-SB02 (16-18)	Solids	05/02/2023 15:30	05/09/2023		
52557	SE-SB02 (18-20)	Solids	05/02/2023 15:32	05/09/2023		

Sample Summary Table

Report Number: 23-129-0031
Client Project Description: Gastel
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Morse, La

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
52558	SE-SB02 (20-22)	Solids	05/02/2023 15:40	05/09/2023		
52559	SE-SB02 (22-24)	Solids	05/02/2023 15:42	05/09/2023		
52560	SE-SB02 (24-26)	Solids	05/02/2023 15:45	05/09/2023		
52561	SE-SB03 (0-2)	Solids	05/03/2023 09:58	05/09/2023		
52562	SE-SB03 (2-4)	Solids	05/03/2023 10:00	05/09/2023		
52563	SE-SB03 (4-6)	Solids	05/03/2023 10:05	05/09/2023		
52564	SE-SB03 (6-8)	Solids	05/03/2023 10:07	05/09/2023		
52565	SE-SB03 (8-10)	Solids	05/03/2023 10:15	05/09/2023		
52566	SE-SB03 (10-12)	Solids	05/03/2023 10:17	05/09/2023		
52567	SE-SB03 (12-14)	Solids	05/03/2023 10:25	05/09/2023		
52568	SE-SB03 (14-16)	Solids	05/03/2023 10:27	05/09/2023		
52569	SE-SB03 (16-18)	Solids	05/03/2023 10:35	05/09/2023		
52570	SE-SB03 (18-20)	Solids	05/03/2023 10:37	05/09/2023		
52571	SE-SB04 (0-2)	Solids	05/03/2023 12:55	05/09/2023		
52572	SE-SB04 (2-4)	Solids	05/03/2023 12:57	05/09/2023		
52573	SE-SB04 (4-6)	Solids	05/03/2023 13:05	05/09/2023		
52574	SE-SB04 (6-8)	Solids	05/03/2023 13:07	05/09/2023		
52575	SE-SB04 (8-10)	Solids	05/03/2023 13:15	05/09/2023		
52576	SE-SB04 (10-12)	Solids	05/03/2023 13:17	05/09/2023		
52577	SE-SB04 (12-14)	Solids	05/03/2023 13:20	05/09/2023		
52578	SE-SB04 (14-16)	Solids	05/03/2023 13:22	05/09/2023		
52579	SE-SB04 (16-18)	Solids	05/03/2023 13:35	05/09/2023		
52580	SE-SB04 (18-20)	Solids	05/03/2023 13:37	05/09/2023		
52581	SE-SB04 (20-22)	Solids	05/03/2023 13:45	05/09/2023		
52582	SE-SB04 (22-24)	Solids	05/03/2023 13:47	05/09/2023		
52583	SE-SB05 (0-2)	Solids	05/03/2023 14:50	05/09/2023		

Sample Summary Table

Report Number: 23-129-0031
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Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
52584	SE-SB05 (2-4)	Solids	05/03/2023 14:52	05/09/2023		
52585	SE-SB05 (4-6)	Solids	05/03/2023 14:58	05/09/2023		
52586	SE-SB05 (6-8)	Solids	05/03/2023 15:00	05/09/2023		
52587	SE-SB05 (8-10)	Solids	05/03/2023 15:05	05/09/2023		
52588	SE-SB05 (10-12)	Solids	05/03/2023 15:07	05/09/2023		
52589	SE-SB05 (12-14)	Solids	05/03/2023 15:10	05/09/2023		
54086	SE-SB01 (28-30)	TCLP	05/02/2023 10:55	05/09/2023	9056	WP MTN
54086	SE-SB01 (28-30)	TCLP	05/02/2023 10:55	05/09/2023	6010D	WP MTN
54086	SE-SB01 (28-30)	TCLP	05/02/2023 10:55	05/09/2023	1312	WP MTN
54087	SE-SB01 (34-35)	TCLP	05/02/2023 11:07	05/09/2023	6010D	WP MTN
54087	SE-SB01 (34-35)	TCLP	05/02/2023 11:07	05/09/2023	1312	WP MTN
54087	SE-SB01 (34-35)	TCLP	05/02/2023 11:07	05/09/2023	9056	WP MTN
54088	SE-SB02 (12-14)	TCLP	05/02/2023 15:20	05/09/2023	9056	WP MTN
54088	SE-SB02 (12-14)	TCLP	05/02/2023 15:20	05/09/2023	6010D	WP MTN
54088	SE-SB02 (12-14)	TCLP	05/02/2023 15:20	05/09/2023	1312	WP MTN
54089	SE-SB02 (22-24)	TCLP	05/02/2023 15:42	05/09/2023	9056	WP MTN
54089	SE-SB02 (22-24)	TCLP	05/02/2023 15:42	05/09/2023	6010D	WP MTN
54089	SE-SB02 (22-24)	TCLP	05/02/2023 15:42	05/09/2023	1312	WP MTN
54090	SE-SB05 (12-14)	TCLP	05/03/2023 15:10	05/09/2023	9056	WP MTN
54090	SE-SB05 (12-14)	TCLP	05/03/2023 15:10	05/09/2023	6010D	WP MTN
54090	SE-SB05 (12-14)	TCLP	05/03/2023 15:10	05/09/2023	1312	WP MTN



Client: Hydro-Environmental Technology, Inc.
Project: Gastel
Lab Report Number: 23-129-0031
Date: 6/12/2023

CASE NARRATIVE

Methods

Methods reported as 29B are from the Laboratory Procedures for Analysis of Exploration & Production Waste – LDNR Office of Conservation Injection and Mining Division – Revised 11/2011.

Results

- 6010D/7471A metals are reported AR - As Received by adjusting the data using the percent moisture result.
- True Total Barium results are reported dry weight
- Oil & Grease results reported dry weight
- TX1006 results are reported as received
- VPH/EPH results reported as received
- PAH results reported as received

Anions by Ion Chromatography Method 29B

Sample 52545 (SE-SB01 (30-32))

Analyte: Sulfate

QC Batch No: A82564/A82452/A82374

Relative Percent Difference (RPD) for the duplicate analysis was outside of the allowable QC limits.

Metals Analysis Method 6010D

Sample 52381

Analyte: Barium

QC Batch No: A82580/A82470

The matrix spike and/or the matrix spike duplicate was outside quality control acceptance ranges. A dilution test was performed and passed quality control acceptance ranges. No matrix interference is suspected.

Sample 52381

Analyte: Lead

QC Batch No: A82580/A82470

The matrix spike and/or the matrix spike duplicate was outside quality control acceptance ranges. A post digestion spike was performed and passed quality control acceptance ranges. No matrix interference is suspected.

Sample 52381

Analyte: Selenium

QC Batch No: A82580/A82470

The matrix spike and/or the matrix spike duplicate was outside quality control acceptance ranges. A post digestion spike was performed and passed quality control acceptance ranges. No matrix interference is suspected.

Anions by Ion Chromatography Method 9056

Sample 52584 (SE-SB05 (2-4))

Analyte: Chloride

QC Batch No: A82776/A82391

The MS/MSD recoveries are outside QC limits due to the level of analyte present in the parent sample relative to the spike level. RPD is based on the MS/MSD results and should be evaluated as laboratory duplicates.

09996

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Mr. Stewart Stover, Jr.
91 Apollo Rd
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52532**

Matrix: **Solids**

Sample ID : **SE-SB01 (4-6)**

Sampled: **5/2/2023 9:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	22.2	%		1	05/12/23 11:40	TIS	SW-DRYWT
% Saturation (Sat Paste)	112	%		1	05/18/23 08:57	APB	29B
Alkalinity (Sat Paste)	0.9	meq/L		1	05/23/23 10:13	AJA	29B
Chloride (Sat Paste)	119	meq/L	0.014	50	05/24/23 13:31	MJM	29B
Chloride	2950	mg/Kg	20.0	5	05/19/23 19:37	MJM	9056
Electrical Conductivity (Sat Paste)	12.1	mmhos/cm		1	05/18/23 08:57	APB	29B
pH (Sat Paste)	7.67	s.u.		1	05/18/23 08:57	APB	29B
Sulfate (Sat Paste)	1.13	meq/L	0.010	50	05/24/23 13:31	MJM	29B
Calcium (Sat Paste)	3.65	meq/L	0.250	50	05/19/23 17:44	APB	29B
Magnesium (Sat Paste)	1.38	meq/L	0.410	50	05/19/23 17:44	APB	29B
Sodium (Sat Paste)	112	meq/L	1.05	50	05/19/23 17:44	APB	29B
Total Arsenic	3.54	mg/Kg AR	1.00	1	05/22/23 11:53	APB	6010D
Total Barium	127	mg/Kg AR	0.500	1	05/22/23 11:53	APB	6010D
True Total Barium	204	mg/Kg	50.0	1	05/18/23 21:05	APB	29B
Total Cadmium	0.608	mg/Kg AR	0.100	1	05/22/23 11:53	APB	6010D
Total Chromium	14.2	mg/Kg AR	0.250	1	05/22/23 11:53	APB	6010D
Total Lead	11.6	mg/Kg AR	0.300	1	05/22/23 11:53	APB	6010D
Mercury (Total)	<0.0160	mg/Kg AR	0.0160	1	05/15/23 14:54	BMB	7471A
Total Selenium	<0.500	mg/Kg AR	0.500	1	05/22/23 11:53	APB	6010D
Total Silver	<0.250	mg/Kg AR	0.250	1	05/22/23 11:53	APB	6010D
Total Zinc	19.5	mg/Kg AR	1.25	1	05/22/23 11:53	APB	6010D

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52533**

Matrix: **Solids**

Sample ID : **SE-SB01 (6-8)**

Sampled: **5/2/2023 9:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	17.8	%		1	05/12/23 11:40	TIS	SW-DRYWT
% Saturation (Sat Paste)	221	%		1	05/18/23 08:57	APB	29B
Alkalinity (Sat Paste)	0.5	meq/L		1	05/23/23 10:13	AJA	29B
Chloride (Sat Paste)	36.6	meq/L	0.010	20	05/24/23 14:22	MJM	29B
Chloride	1390	mg/Kg	8.00	2	05/19/23 19:49	MJM	9056
Electrical Conductivity (Sat Paste)	3.96	mmhos/cm		1	05/18/23 08:57	APB	29B
pH (Sat Paste)	7.61	s.u.		1	05/18/23 08:57	APB	29B
Sulfate (Sat Paste)	0.513	meq/L	0.010	20	05/24/23 14:22	MJM	29B
Calcium (Sat Paste)	0.565	meq/L	0.100	20	05/19/23 17:48	APB	29B
Magnesium (Sat Paste)	0.244	meq/L	0.164	20	05/19/23 17:48	APB	29B
Sodium (Sat Paste)	35.5	meq/L	0.420	20	05/19/23 17:48	APB	29B
Total Arsenic	1.97	mg/Kg AR	1.00	1	05/22/23 11:57	APB	6010D
Total Barium	140	mg/Kg AR	0.500	1	05/22/23 11:57	APB	6010D
True Total Barium	297	mg/Kg	50.0	1	05/18/23 21:09	APB	29B
Total Cadmium	0.437	mg/Kg AR	0.100	1	05/22/23 11:57	APB	6010D
Total Chromium	8.72	mg/Kg AR	0.250	1	05/22/23 11:57	APB	6010D
Total Lead	8.22	mg/Kg AR	0.300	1	05/22/23 11:57	APB	6010D
Mercury (Total)	<0.0160	mg/Kg AR	0.0160	1	05/15/23 14:57	BMB	7471A
Total Selenium	<0.500	mg/Kg AR	0.500	1	05/22/23 11:57	APB	6010D
Total Silver	<0.250	mg/Kg AR	0.250	1	05/22/23 11:57	APB	6010D
Total Zinc	27.0	mg/Kg AR	1.25	1	05/22/23 11:57	APB	6010D

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

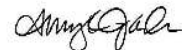
09996

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Project Gastel

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Morse, La

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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52534**

Matrix: **Solids**

Sample ID : **SE-SB01 (8-10)**

Sampled: **5/2/2023 10:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.2	%		1	05/12/23 11:40	TIS	SW-DRYWT
% Saturation (Sat Paste)	190	%		1	05/18/23 08:57	APB	29B
Alkalinity (Sat Paste)	0.5	meq/L		1	05/23/23 10:13	AJA	29B
Chloride (Sat Paste)	46.4	meq/L	0.010	20	05/24/23 14:35	MJM	29B
Chloride	2450	mg/Kg	20.0	5	05/24/23 10:16	MJM	9056
Electrical Conductivity (Sat Paste)	5.07	mmhos/cm		1	05/18/23 08:57	APB	29B
pH (Sat Paste)	7.37	s.u.		1	05/18/23 08:57	APB	29B
Sulfate (Sat Paste)	0.669	meq/L	0.010	20	05/24/23 14:35	MJM	29B
Calcium (Sat Paste)	0.640	meq/L	0.100	20	05/19/23 17:52	APB	29B
Magnesium (Sat Paste)	0.317	meq/L	0.164	20	05/19/23 17:52	APB	29B
Sodium (Sat Paste)	45.9	meq/L	0.420	20	05/19/23 17:52	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

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Project Gastel

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REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52535**

Matrix: **Solids**

Sample ID : **SE-SB01 (10-12)**

Sampled: **5/2/2023 10:02**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.1	%		1	05/12/23 11:40	TIS	SW-DRYWT
% Saturation (Sat Paste)	164	%		1	06/02/23 10:52	BMB	29B
Alkalinity (Sat Paste)	0.8	meq/L		1	05/23/23 10:13	AJA	29B
Chloride (Sat Paste)	30.6	meq/L	0.010	20	05/24/23 14:48	MJM	29B
Chloride	875	mg/Kg	8.00	2	05/19/23 20:51	MJM	9056
Electrical Conductivity (Sat Paste)	3.56	mmhos/cm		1	05/18/23 08:57	APB	29B
pH (Sat Paste)	7.99	s.u.		1	05/18/23 08:57	APB	29B
Sulfate (Sat Paste)	2.42	meq/L	0.010	20	05/24/23 14:48	MJM	29B
Calcium (Sat Paste)	0.997	meq/L	0.100	20	05/19/23 17:56	APB	29B
Magnesium (Sat Paste)	0.414	meq/L	0.164	20	05/19/23 17:56	APB	29B
Sodium (Sat Paste)	31.2	meq/L	0.420	20	05/19/23 17:56	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

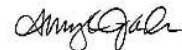
09996

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REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52536**

Matrix: **Solids**

Sample ID : **SE-SB01 (12-1 4)**

Sampled: **5/2/2023 10:13**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	21.4	%		1	05/12/23 11:40	TIS	SW-DRYWT
% Saturation (Sat Paste)	113	%		1	05/18/23 08:57	APB	29B
Alkalinity (Sat Paste)	1.0	meq/L		1	05/23/23 10:13	AJA	29B
Chloride (Sat Paste)	64.3	meq/L	0.014	50	05/24/23 15:01	MJM	29B
Chloride	1910	mg/Kg	20.0	5	05/19/23 21:04	MJM	9056
Electrical Conductivity (Sat Paste)	7.49	mmhos/cm		1	05/18/23 08:57	APB	29B
pH (Sat Paste)	8.77	s.u.		1	05/18/23 08:57	APB	29B
Sulfate (Sat Paste)	7.12	meq/L	0.010	50	05/24/23 15:01	MJM	29B
Calcium (Sat Paste)	0.570	meq/L	0.100	20	05/19/23 18:00	APB	29B
Magnesium (Sat Paste)	0.180	meq/L	0.164	20	05/19/23 18:00	APB	29B
Sodium (Sat Paste)	70.5	meq/L	0.420	20	05/19/23 18:00	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

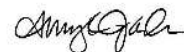
09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52537**

Matrix: **Solids**

Sample ID : **SE-SB01 (14-16)**

Sampled: **5/2/2023 10:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	31.4	%		1	05/12/23 11:40	TIS	SW-DRYWT
% Saturation (Sat Paste)	179	%		1	05/18/23 08:57	APB	29B
Alkalinity (Sat Paste)	6.2	meq/L		1	05/23/23 10:13	AJA	29B
Chloride (Sat Paste)	170	meq/L	0.028	100	05/24/23 15:14	MJM	29B
Chloride	4140	mg/Kg	40.0	10	05/19/23 21:16	MJM	9056
Electrical Conductivity (Sat Paste)	16.8	mmhos/cm		1	05/18/23 08:57	APB	29B
pH (Sat Paste)	8.81	s.u.		1	05/18/23 08:57	APB	29B
Sulfate (Sat Paste)	2.23	meq/L	0.020	100	05/24/23 15:14	MJM	29B
Calcium (Sat Paste)	1.88	meq/L	0.250	50	05/19/23 18:04	APB	29B
Magnesium (Sat Paste)	0.438	meq/L	0.410	50	05/19/23 18:04	APB	29B
Sodium (Sat Paste)	166	meq/L	1.05	50	05/19/23 18:04	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

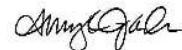
09996

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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52538**

Matrix: **Solids**

Sample ID : **SE-SB01 (16-18)**

Sampled: **5/2/2023 10:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	26.5	%		1	05/12/23 11:40	TIS	SW-DRYWT
% Saturation (Sat Paste)	223	%		1	06/02/23 10:52	BMB	29B
Alkalinity (Sat Paste)	1.3	meq/L		1	05/23/23 10:13	AJA	29B
Chloride (Sat Paste)	103	meq/L	0.014	50	05/24/23 15:27	MJM	29B
Chloride	5940	mg/Kg	40.0	10	05/24/23 10:28	MJM	9056
Electrical Conductivity (Sat Paste)	10.4	mmhos/cm		1	05/18/23 08:57	APB	29B
pH (Sat Paste)	8.30	s.u.		1	05/18/23 08:57	APB	29B
Sulfate (Sat Paste)	0.223	meq/L	0.010	50	05/24/23 15:27	MJM	29B
Calcium (Sat Paste)	1.42	meq/L	0.250	50	05/19/23 18:17	APB	29B
Magnesium (Sat Paste)	0.490	meq/L	0.410	50	05/19/23 18:17	APB	29B
Sodium (Sat Paste)	97.5	meq/L	1.05	50	05/19/23 18:17	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

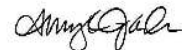
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52539**

Matrix: **Solids**

Sample ID : **SE-SB01 (18-20)**

Sampled: **5/2/2023 10:27**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	26.0	%		1	05/12/23 11:40	TIS	SW-DRYWT
% Saturation (Sat Paste)	197	%		1	05/18/23 08:57	APB	29B
Alkalinity (Sat Paste)	2.7	meq/L		1	05/23/23 10:13	AJA	29B
Chloride (Sat Paste)	184	meq/L	0.028	100	05/24/23 15:39	MJM	29B
Chloride	5770	mg/Kg	40.0	10	05/19/23 21:41	MJM	9056
Electrical Conductivity (Sat Paste)	17.7	mmhos/cm		1	05/18/23 08:57	APB	29B
pH (Sat Paste)	8.59	s.u.		1	05/18/23 08:57	APB	29B
Sulfate (Sat Paste)	0.403	meq/L	0.020	100	05/24/23 15:39	MJM	29B
Calcium (Sat Paste)	3.17	meq/L	0.250	50	05/19/23 18:21	APB	29B
Magnesium (Sat Paste)	1.20	meq/L	0.410	50	05/19/23 18:21	APB	29B
Sodium (Sat Paste)	174	meq/L	1.05	50	05/19/23 18:21	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Information : Project Number: 1705.A37
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Report Date : 06/12/2023
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52540**

Matrix: **Solids**

Sample ID : **SE-SB01 (20-22)**

Sampled: **5/2/2023 10:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.5	%		1	05/15/23 11:57	TIS	SW-DRYWT
% Saturation (Sat Paste)	116	%		1	05/18/23 08:57	APB	29B
Alkalinity (Sat Paste)	1.1	meq/L		1	05/23/23 10:13	AJA	29B
Chloride (Sat Paste)	127	meq/L	0.014	50	05/24/23 15:52	MJM	29B
Chloride	4100	mg/Kg	20.0	5	05/24/23 11:55	MJM	9056
Electrical Conductivity (Sat Paste)	12.8	mmhos/cm		1	05/18/23 08:57	APB	29B
pH (Sat Paste)	8.08	s.u.		1	05/18/23 08:57	APB	29B
Sulfate (Sat Paste)	0.217	meq/L	0.010	50	05/24/23 15:52	MJM	29B
Calcium (Sat Paste)	2.77	meq/L	0.250	50	05/19/23 18:25	APB	29B
Magnesium (Sat Paste)	1.01	meq/L	0.410	50	05/19/23 18:25	APB	29B
Sodium (Sat Paste)	121	meq/L	1.05	50	05/19/23 18:25	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Project Gastel

Information : Project Number: 1705.A37
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52541**

Matrix: **Solids**

Sample ID : **SE-SB01 (22-24)**

Sampled: **5/2/2023 10:37**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	17.9	%		1	05/15/23 11:57	TIS	SW-DRYWT
% Saturation (Sat Paste)	63.4	%		1	05/18/23 08:57	APB	29B
Alkalinity (Sat Paste)	0.9	meq/L		1	05/23/23 10:13	AJA	29B
Chloride (Sat Paste)	225	meq/L	0.028	100	05/24/23 16:05	MJM	29B
Chloride	4170	mg/Kg	40.0	10	05/24/23 12:32	MJM	9056
Electrical Conductivity (Sat Paste)	21.6	mmhos/cm		1	05/18/23 08:57	APB	29B
pH (Sat Paste)	7.79	s.u.		1	05/18/23 08:57	APB	29B
Sulfate (Sat Paste)	0.429	meq/L	0.020	100	05/24/23 16:05	MJM	29B
Calcium (Sat Paste)	11.2	meq/L	0.500	100	05/19/23 18:29	APB	29B
Magnesium (Sat Paste)	4.33	meq/L	0.820	100	05/19/23 18:29	APB	29B
Sodium (Sat Paste)	211	meq/L	2.10	100	05/19/23 18:29	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52542**

Matrix: **Solids**

Sample ID : **SE-SB01 (24-26)**

Sampled: **5/2/2023 10:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	20.0	%		1	05/15/23 11:57	TIS	SW-DRYWT
% Saturation (Sat Paste)	71.2	%		1	05/18/23 08:57	APB	29B
Alkalinity (Sat Paste)	1.0	meq/L		1	05/23/23 10:13	AJA	29B
Chloride (Sat Paste)	216	meq/L	0.028	100	05/24/23 16:18	MJM	29B
Chloride	4690	mg/Kg	40.0	10	05/24/23 12:44	MJM	9056
Electrical Conductivity (Sat Paste)	20.5	mmhos/cm		1	05/18/23 08:57	APB	29B
pH (Sat Paste)	7.75	s.u.		1	05/18/23 08:57	APB	29B
Sulfate (Sat Paste)	0.135	meq/L	0.020	100	05/24/23 16:18	MJM	29B
Calcium (Sat Paste)	25.2	meq/L	0.500	100	05/19/23 18:33	APB	29B
Magnesium (Sat Paste)	11.5	meq/L	0.820	100	05/19/23 18:33	APB	29B
Sodium (Sat Paste)	173	meq/L	2.10	100	05/19/23 18:33	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52543**

Matrix: **Solids**

Sample ID : **SE-SB01 (26-28)**

Sampled: **5/2/2023 10:47**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.7	%		1	05/15/23 11:57	TIS	SW-DRYWT
% Saturation (Sat Paste)	52.9	%		1	05/18/23 08:57	APB	29B
Alkalinity (Sat Paste)	0.6	meq/L		1	05/23/23 10:13	AJA	29B
Chloride (Sat Paste)	235	meq/L	0.028	100	05/24/23 17:10	MJM	29B
Chloride	3690	mg/Kg	40.0	10	05/24/23 12:56	MJM	9056
Electrical Conductivity (Sat Paste)	22.2	mmhos/cm		1	05/18/23 08:57	APB	29B
pH (Sat Paste)	7.53	s.u.		1	05/18/23 08:57	APB	29B
Sulfate (Sat Paste)	0.102	meq/L	0.020	100	05/24/23 17:10	MJM	29B
Calcium (Sat Paste)	40.7	meq/L	0.500	100	05/19/23 18:37	APB	29B
Magnesium (Sat Paste)	19.1	meq/L	0.820	100	05/19/23 18:37	APB	29B
Sodium (Sat Paste)	168	meq/L	2.10	100	05/19/23 18:37	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52544**

Matrix: **Solids**

Sample ID : **SE-SB01 (28-30)**

Sampled: **5/2/2023 10:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.8	%		1	05/15/23 11:57	TIS	SW-DRYWT
% Saturation (Sat Paste)	56.8	%		1	05/18/23 08:57	APB	29B
Alkalinity (Sat Paste)	0.9	meq/L		1	05/23/23 10:13	AJA	29B
Chloride (Sat Paste)	267	meq/L	0.056	200	05/24/23 17:22	MJM	29B
Chloride	4290	mg/Kg	80.0	20	05/24/23 13:09	MJM	9056
Electrical Conductivity (Sat Paste)	24.3	mmhos/cm		1	05/18/23 08:57	APB	29B
pH (Sat Paste)	7.71	s.u.		1	05/18/23 08:57	APB	29B
Sulfate (Sat Paste)	0.124	meq/L	0.041	200	05/24/23 17:22	MJM	29B
Calcium (Sat Paste)	30.2	meq/L	0.500	100	05/19/23 18:41	APB	29B
Magnesium (Sat Paste)	12.9	meq/L	0.820	100	05/19/23 18:41	APB	29B
Sodium (Sat Paste)	203	meq/L	2.10	100	05/19/23 18:41	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

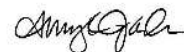
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52545**

Matrix: **Solids**

Sample ID : **SE-SB01 (30-32)**

Sampled: **5/2/2023 10:57**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	16.7	%		1	05/15/23 11:57	TIS	SW-DRYWT
% Saturation (Sat Paste)	46.4	%		1	05/18/23 08:57	APB	29B
Alkalinity (Sat Paste)	0.8	meq/L		1	05/23/23 10:13	AJA	29B
Chloride (Sat Paste)	190	meq/L	0.028	100	05/24/23 17:35	MJM	29B
Chloride	3390	mg/Kg	40.0	10	05/24/23 13:21	MJM	9056
Electrical Conductivity (Sat Paste)	17.9	mmhos/cm		1	05/18/23 08:57	APB	29B
pH (Sat Paste)	7.64	s.u.		1	05/18/23 08:57	APB	29B
Sulfate (Sat Paste)	0.074	meq/L	0.020	100	05/24/23 17:35	MJM	29B
Calcium (Sat Paste)	24.5	meq/L	0.250	50	05/19/23 18:45	APB	29B
Magnesium (Sat Paste)	10.7	meq/L	0.410	50	05/19/23 18:45	APB	29B
Sodium (Sat Paste)	144	meq/L	1.05	50	05/19/23 18:45	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

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Project Gastel

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Report Date : 06/12/2023
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52546**

Matrix: **Solids**

Sample ID : **SE-SB01 (32-34)**

Sampled: **5/2/2023 11:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	16.1	%		1	05/15/23 11:57	TIS	SW-DRYWT
% Saturation (Sat Paste)	45.6	%		1	05/18/23 08:57	APB	29B
Alkalinity (Sat Paste)	1.2	meq/L		1	05/23/23 10:13	AJA	29B
Chloride (Sat Paste)	205	meq/L	0.028	100	05/24/23 18:01	MJM	29B
Chloride	4190	mg/Kg	40.0	10	05/24/23 13:34	MJM	9056
Electrical Conductivity (Sat Paste)	19.7	mmhos/cm		1	05/18/23 08:57	APB	29B
pH (Sat Paste)	7.92	s.u.		1	05/18/23 08:57	APB	29B
Sulfate (Sat Paste)	0.244	meq/L	0.020	100	05/24/23 18:01	MJM	29B
Calcium (Sat Paste)	13.7	meq/L	0.500	100	05/19/23 18:53	APB	29B
Magnesium (Sat Paste)	5.50	meq/L	0.820	100	05/19/23 18:53	APB	29B
Sodium (Sat Paste)	181	meq/L	2.10	100	05/19/23 18:53	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

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Project Gastel

Information : Project Number: 1705.A37
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Report Date : 06/12/2023
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52547**

Matrix: **Solids**

Sample ID : **SE-SB01 (34-35)**

Sampled: **5/2/2023 11:07**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.0	%		1	05/15/23 11:57	TIS	SW-DRYWT
% Saturation (Sat Paste)	39.0	%		1	05/18/23 08:57	APB	29B
Alkalinity (Sat Paste)	1.0	meq/L		1	05/23/23 10:13	AJA	29B
Chloride (Sat Paste)	311	meq/L	0.056	200	05/24/23 18:14	MJM	29B
Chloride	4540	mg/Kg	80.0	20	05/24/23 13:46	MJM	9056
Electrical Conductivity (Sat Paste)	28.3	mmhos/cm		1	05/18/23 08:57	APB	29B
pH (Sat Paste)	7.66	s.u.		1	05/18/23 08:57	APB	29B
Sulfate (Sat Paste)	0.504	meq/L	0.041	200	05/24/23 18:14	MJM	29B
Calcium (Sat Paste)	42.4	meq/L	1.00	200	05/19/23 19:06	APB	29B
Magnesium (Sat Paste)	19.0	meq/L	1.64	200	05/19/23 19:06	APB	29B
Sodium (Sat Paste)	229	meq/L	4.20	200	05/19/23 19:06	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

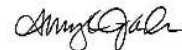
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Project Gastel

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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52548**

Matrix: **Solids**

Sample ID : **SE-SB02 (0-2)**

Sampled: **5/2/2023 14:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	27.4	%		1	05/15/23 11:57	TIS	SW-DRYWT
% Saturation (Sat Paste)	58.7	%		1	05/18/23 08:57	APB	29B
Alkalinity (Sat Paste)	0.4	meq/L		1	05/23/23 10:13	AJA	29B
Chloride (Sat Paste)	43.5	meq/L	0.010	20	05/24/23 18:27	MJM	29B
Chloride	506	mg/Kg	8.00	2	05/24/23 14:35	MJM	9056
Electrical Conductivity (Sat Paste)	4.74	mmhos/cm		1	05/18/23 08:57	APB	29B
pH (Sat Paste)	7.43	s.u.		1	05/18/23 08:57	APB	29B
Sulfate (Sat Paste)	0.476	meq/L	0.010	20	05/24/23 18:27	MJM	29B
Cation Exchange Capacity	18.0	meq/100g	0.100	10	05/24/23 10:36		29B
Exchangeable Sodium Percentage	5.66	%	0.100	1	05/18/23 08:57		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	13.5	Calc	0.100	20	05/19/23 19:10		29B
Calcium (Sat Paste)	7.24	meq/L	0.100	20	05/19/23 19:10	APB	29B
Magnesium (Sat Paste)	4.21	meq/L	0.164	20	05/19/23 19:10	APB	29B
Sodium (Sat Paste)	32.4	meq/L	0.420	20	05/19/23 19:10	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

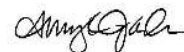
09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52549**

Matrix: **Solids**

Sample ID : **SE-SB02 (2-4)**

Sampled: **5/2/2023 14:57**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	23.8	%		1	05/15/23 11:57	TIS	SW-DRYWT
% Saturation (Sat Paste)	81.2	%		1	05/18/23 08:57	APB	29B
Alkalinity (Sat Paste)	0.1	meq/L		1	05/23/23 10:13	AJA	29B
Chloride (Sat Paste)	17.7	meq/L	0.010	10	05/24/23 18:40	MJM	29B
Chloride	206	mg/Kg	4.00	1	05/24/23 14:48	MJM	9056
Electrical Conductivity (Sat Paste)	1.99	mmhos/cm		1	05/18/23 08:57	APB	29B
pH (Sat Paste)	5.29	s.u.		1	05/18/23 08:57	APB	29B
Sulfate (Sat Paste)	0.402	meq/L	0.010	10	05/24/23 18:40	MJM	29B
Cation Exchange Capacity	36.4	meq/100g	0.100	10	05/24/23 10:44		29B
Exchangeable Sodium Percentage	3.18	%	0.100	1	05/18/23 08:57		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	7.38	Calc	0.050	10	05/19/23 19:14		29B
Calcium (Sat Paste)	3.21	meq/L	0.050	10	05/19/23 19:14	APB	29B
Magnesium (Sat Paste)	2.17	meq/L	0.082	10	05/19/23 19:14	APB	29B
Sodium (Sat Paste)	12.1	meq/L	0.210	10	05/19/23 19:14	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

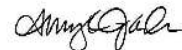
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52550**

Matrix: **Solids**

Sample ID : **SE-SB02 (4-6)**

Sampled: **5/2/2023 15:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	17.4	%		1	05/12/23 12:10	TIS	SW-DRYWT
% Saturation (Sat Paste)	111	%		1	05/18/23 08:57	APB	29B
Alkalinity (Sat Paste)	1.5	meq/L		1	05/23/23 10:13	AJA	29B
Chloride (Sat Paste)	3.06	meq/L	0.010	5	05/24/23 18:53	MJM	29B
Chloride	30.8	mg/Kg	4.00	1	05/24/23 15:00	MJM	9056
Electrical Conductivity (Sat Paste)	0.761	mmhos/cm		1	05/18/23 08:57	APB	29B
pH (Sat Paste)	8.04	s.u.		1	05/18/23 08:57	APB	29B
Sulfate (Sat Paste)	2.50	meq/L	0.010	5	05/24/23 18:53	MJM	29B
Calcium (Sat Paste)	0.486	meq/L	0.050	10	05/19/23 19:18	APB	29B
Magnesium (Sat Paste)	0.328	meq/L	0.082	10	05/19/23 19:18	APB	29B
Sodium (Sat Paste)	6.31	meq/L	0.210	10	05/19/23 19:18	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52551**

Matrix: **Solids**

Sample ID : **SE-SB02 (6-8)**

Sampled: **5/2/2023 15:07**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.3	%		1	05/12/23 12:10	TIS	SW-DRYWT
% Saturation (Sat Paste)	89.9	%		1	05/18/23 08:57	APB	29B
Alkalinity (Sat Paste)	0.4	meq/L		1	05/23/23 10:13	AJA	29B
Chloride (Sat Paste)	1.59	meq/L	0.010	5	05/24/23 19:05	MJM	29B
Chloride	18.8	mg/Kg	4.00	1	05/24/23 15:12	MJM	9056
Electrical Conductivity (Sat Paste)	0.404	mmhos/cm		1	05/18/23 08:57	APB	29B
pH (Sat Paste)	7.16	s.u.		1	05/18/23 08:57	APB	29B
Sulfate (Sat Paste)	1.49	meq/L	0.010	5	05/24/23 19:05	MJM	29B
Calcium (Sat Paste)	0.218	meq/L	0.050	10	05/19/23 19:22	APB	29B
Magnesium (Sat Paste)	0.149	meq/L	0.082	10	05/19/23 19:22	APB	29B
Sodium (Sat Paste)	3.20	meq/L	0.210	10	05/19/23 19:22	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

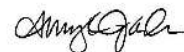
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52552**

Matrix: **Solids**

Sample ID : **SE-SB02 (8-10)**

Sampled: **5/2/2023 15:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.8	%		1	05/12/23 12:10	TIS	SW-DRYWT
% Saturation (Sat Paste)	63.7	%		1	05/22/23 09:32	JMB	29B
Alkalinity (Sat Paste)	0.2	meq/L		1	05/25/23 14:18	BMB	29B
Chloride (Sat Paste)	3.98	meq/L	0.010	5	05/25/23 11:14	MJM	29B
Chloride	50.9	mg/Kg	4.00	1	05/24/23 15:25	MJM	9056
Electrical Conductivity (Sat Paste)	0.762	mmhos/cm		1	05/22/23 09:32	JMB	29B
pH (Sat Paste)	7.65	s.u.		1	05/22/23 09:32	JMB	29B
Sulfate (Sat Paste)	1.30	meq/L	0.010	5	05/25/23 11:14	MJM	29B
Calcium (Sat Paste)	1.68	meq/L	0.050	10	05/23/23 11:44	APB	29B
Magnesium (Sat Paste)	0.395	meq/L	0.082	10	05/23/23 11:44	APB	29B
Sodium (Sat Paste)	5.92	meq/L	0.210	10	05/23/23 11:44	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

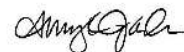
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Project Gastel

Information : Project Number: 1705.A37
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Report Date : 06/12/2023
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52553**

Matrix: **Solids**

Sample ID : **SE-SB02 (10-12)**

Sampled: **5/2/2023 15:17**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	11.2	%		1	05/12/23 12:10	TIS	SW-DRYWT
% Saturation (Sat Paste)	54.3	%		1	05/22/23 09:32	JMB	29B
Alkalinity (Sat Paste)	0.2	meq/L		1	05/25/23 14:18	BMB	29B
Chloride (Sat Paste)	15.0	meq/L	0.010	10	05/25/23 23:18	MJM	29B
Chloride	383	mg/Kg	4.00	1	05/24/23 15:37	MJM	9056
Electrical Conductivity (Sat Paste)	1.74	mmhos/cm		1	05/22/23 09:32	JMB	29B
pH (Sat Paste)	6.64	s.u.		1	05/22/23 09:32	JMB	29B
Sulfate (Sat Paste)	0.443	meq/L	0.010	10	05/25/23 23:18	MJM	29B
Calcium (Sat Paste)	0.359	meq/L	0.050	10	05/23/23 11:48	APB	29B
Magnesium (Sat Paste)	0.151	meq/L	0.082	10	05/23/23 11:48	APB	29B
Sodium (Sat Paste)	14.1	meq/L	0.210	10	05/23/23 11:48	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

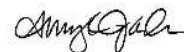
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52554**

Matrix: **Solids**

Sample ID : **SE-SB02 (12-14)**

Sampled: **5/2/2023 15:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	25.0	%		1	05/12/23 12:10	TIS	SW-DRYWT
% Saturation (Sat Paste)	60.6	%		1	05/22/23 09:32	JMB	29B
Alkalinity (Sat Paste)	1.6	meq/L		1	05/25/23 14:18	BMB	29B
Chloride (Sat Paste)	348	meq/L	0.056	200	05/25/23 11:40	MJM	29B
Chloride	5640	mg/Kg	80.0	20	05/24/23 15:49	MJM	9056
Electrical Conductivity (Sat Paste)	32.7	mmhos/cm		1	05/22/23 09:32	JMB	29B
pH (Sat Paste)	7.89	s.u.		1	05/22/23 09:32	JMB	29B
Sulfate (Sat Paste)	0.307	meq/L	0.041	200	05/25/23 11:40	MJM	29B
Calcium (Sat Paste)	14.7	meq/L	1.00	200	05/23/23 11:52	APB	29B
Magnesium (Sat Paste)	1.70	meq/L	1.64	200	05/23/23 11:52	APB	29B
Sodium (Sat Paste)	328	meq/L	4.20	200	05/23/23 11:52	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

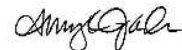
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52555**

Matrix: **Solids**

Sample ID : **SE-SB02 (14-16)**

Sampled: **5/2/2023 15:22**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	25.1	%		1	05/12/23 12:10	TIS	SW-DRYWT
% Saturation (Sat Paste)	72.5	%		1	05/22/23 09:32	JMB	29B
Alkalinity (Sat Paste)	1.2	meq/L		1	05/25/23 14:18	BMB	29B
Chloride (Sat Paste)	305	meq/L	0.056	200	05/25/23 11:52	MJM	29B
Chloride	7260	mg/Kg	80.0	20	05/24/23 16:02	MJM	9056
Electrical Conductivity (Sat Paste)	28.5	mmhos/cm		1	05/22/23 09:32	JMB	29B
pH (Sat Paste)	7.67	s.u.		1	05/22/23 09:32	JMB	29B
Sulfate (Sat Paste)	0.492	meq/L	0.041	200	05/25/23 11:52	MJM	29B
Calcium (Sat Paste)	19.4	meq/L	1.00	200	05/23/23 11:56	APB	29B
Magnesium (Sat Paste)	7.61	meq/L	1.64	200	05/23/23 11:56	APB	29B
Sodium (Sat Paste)	258	meq/L	4.20	200	05/23/23 11:56	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

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Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52556**

Matrix: **Solids**

Sample ID : **SE-SB02 (16-18)**

Sampled: **5/2/2023 15:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	23.8	%		1	05/12/23 12:10	TIS	SW-DRYWT
% Saturation (Sat Paste)	112	%		1	05/22/23 09:32	JMB	29B
Alkalinity (Sat Paste)	0.8	meq/L		1	05/25/23 14:18	BMB	29B
Chloride (Sat Paste)	68.1	meq/L	0.014	50	05/25/23 12:05	MJM	29B
Chloride	1460	mg/Kg	20.0	5	05/24/23 16:14	MJM	9056
Electrical Conductivity (Sat Paste)	6.99	mmhos/cm		1	05/22/23 09:32	JMB	29B
pH (Sat Paste)	7.59	s.u.		1	05/22/23 09:32	JMB	29B
Sulfate (Sat Paste)	0.899	meq/L	0.010	50	05/25/23 12:05	MJM	29B
Calcium (Sat Paste)	15.6	meq/L	0.100	20	05/23/23 12:00	APB	29B
Magnesium (Sat Paste)	8.34	meq/L	0.164	20	05/23/23 12:00	APB	29B
Sodium (Sat Paste)	41.8	meq/L	0.420	20	05/23/23 12:00	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

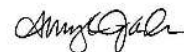
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52557**

Matrix: **Solids**

Sample ID : **SE-SB02 (18-20)**

Sampled: **5/2/2023 15:32**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	28.4	%		1	05/12/23 12:10	TIS	SW-DRYWT
% Saturation (Sat Paste)	142	%		1	05/22/23 09:32	JMB	29B
Alkalinity (Sat Paste)	1.1	meq/L		1	05/25/23 14:18	BMB	29B
Chloride (Sat Paste)	28.5	meq/L	0.010	20	05/25/23 12:18	MJM	29B
Chloride	963	mg/Kg	8.00	2	05/24/23 16:26	MJM	9056
Electrical Conductivity (Sat Paste)	3.21	mmhos/cm		1	05/22/23 09:32	JMB	29B
pH (Sat Paste)	7.52	s.u.		1	05/22/23 09:32	JMB	29B
Sulfate (Sat Paste)	0.786	meq/L	0.010	20	05/25/23 12:18	MJM	29B
Calcium (Sat Paste)	8.47	meq/L	0.100	20	05/23/23 12:04	APB	29B
Magnesium (Sat Paste)	4.49	meq/L	0.164	20	05/23/23 12:04	APB	29B
Sodium (Sat Paste)	15.8	meq/L	0.420	20	05/23/23 12:04	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

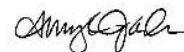
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52558**

Matrix: **Solids**

Sample ID : **SE-SB02 (20-22)**

Sampled: **5/2/2023 15:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.9	%		1	05/12/23 12:10	TIS	SW-DRYWT
% Saturation (Sat Paste)	107	%		1	05/22/23 09:32	JMB	29B
Alkalinity (Sat Paste)	1.1	meq/L		1	05/25/23 14:18	BMB	29B
Chloride (Sat Paste)	108	meq/L	0.014	50	05/25/23 12:31	MJM	29B
Chloride	2320	mg/Kg	20.0	5	05/24/23 17:16	MJM	9056
Electrical Conductivity (Sat Paste)	10.9	mmhos/cm		1	05/22/23 09:32	JMB	29B
pH (Sat Paste)	7.55	s.u.		1	05/22/23 09:32	JMB	29B
Sulfate (Sat Paste)	0.843	meq/L	0.010	50	05/25/23 12:31	MJM	29B
Calcium (Sat Paste)	20.0	meq/L	0.100	20	05/23/23 12:08	APB	29B
Magnesium (Sat Paste)	9.98	meq/L	0.164	20	05/23/23 12:08	APB	29B
Sodium (Sat Paste)	74.3	meq/L	0.420	20	05/23/23 12:08	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52559**

Matrix: **Solids**

Sample ID : **SE-SB02 (22-24)**

Sampled: **5/2/2023 15:42**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	21.0	%		1	05/12/23 12:10	TIS	SW-DRYWT
% Saturation (Sat Paste)	62.9	%		1	05/22/23 09:32	JMB	29B
Alkalinity (Sat Paste)	0.7	meq/L		1	05/25/23 14:18	BMB	29B
Chloride (Sat Paste)	135	meq/L	0.014	50	05/25/23 12:44	MJM	29B
Chloride	2480	mg/Kg	20.0	5	05/24/23 17:28	MJM	9056
Electrical Conductivity (Sat Paste)	13.6	mmhos/cm		1	05/22/23 09:32	JMB	29B
pH (Sat Paste)	7.39	s.u.		1	05/22/23 09:32	JMB	29B
Sulfate (Sat Paste)	0.775	meq/L	0.010	50	05/25/23 12:44	MJM	29B
Calcium (Sat Paste)	33.1	meq/L	0.100	20	05/23/23 12:12	APB	29B
Magnesium (Sat Paste)	17.6	meq/L	0.164	20	05/23/23 12:12	APB	29B
Sodium (Sat Paste)	82.1	meq/L	0.420	20	05/23/23 12:12	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52560**

Matrix: **Solids**

Sample ID : **SE-SB02 (24-26)**

Sampled: **5/2/2023 15:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	14.6	%		1	05/16/23 12:55	BXH	SW-DRYWT
% Saturation (Sat Paste)	51.1	%		1	05/22/23 09:32	JMB	29B
Alkalinity (Sat Paste)	0.9	meq/L		1	05/25/23 14:18	BMB	29B
Chloride (Sat Paste)	117	meq/L	0.014	50	05/25/23 12:57	MJM	29B
Chloride	2030	mg/Kg	20.0	5	05/26/23 17:28	MJM	9056
Electrical Conductivity (Sat Paste)	12.1	mmhos/cm		1	05/22/23 09:32	JMB	29B
pH (Sat Paste)	7.58	s.u.		1	05/22/23 09:32	JMB	29B
Sulfate (Sat Paste)	0.696	meq/L	0.010	50	05/25/23 12:57	MJM	29B
Calcium (Sat Paste)	6.32	meq/L	0.100	20	05/23/23 12:16	APB	29B
Magnesium (Sat Paste)	2.39	meq/L	0.164	20	05/23/23 12:16	APB	29B
Sodium (Sat Paste)	105	meq/L	0.420	20	05/23/23 12:16	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

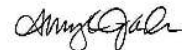
09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52561**

Matrix: **Solids**

Sample ID : **SE-SB03 (0-2)**

Sampled: **5/3/2023 9:58**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	21.5	%		1	05/16/23 12:55	BXH	SW-DRYWT
% Saturation (Sat Paste)	55.7	%		1	05/22/23 09:32	JMB	29B
Alkalinity (Sat Paste)	0.8	meq/L		1	05/25/23 14:18	BMB	29B
Chloride (Sat Paste)	2.45	meq/L	0.010	5	05/25/23 14:01	MJM	29B
Chloride	29.3	mg/Kg	4.00	1	05/26/23 17:41	MJM	9056
Electrical Conductivity (Sat Paste)	0.668	mmhos/cm		1	05/22/23 09:32	JMB	29B
pH (Sat Paste)	7.53	s.u.		1	05/22/23 09:32	JMB	29B
Sulfate (Sat Paste)	1.33	meq/L	0.010	5	05/25/23 14:01	MJM	29B
Cation Exchange Capacity	20.9	meq/100g	0.100	5	05/24/23 10:48		29B
Exchangeable Sodium Percentage	3.44	%	0.100	1	05/22/23 09:32		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	6.33	Calc	0.050	10	05/23/23 12:33		29B
Calcium (Sat Paste)	0.749	meq/L	0.050	10	05/23/23 12:33	APB	29B
Magnesium (Sat Paste)	0.414	meq/L	0.082	10	05/23/23 12:33	APB	29B
Sodium (Sat Paste)	4.83	meq/L	0.210	10	05/23/23 12:33	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52562**

Matrix: **Solids**

Sample ID : **SE-S803 (2-4)**

Sampled: **5/3/2023 10:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	23.4	%		1	05/16/23 12:55	BXH	SW-DRYWT
% Saturation (Sat Paste)	88.3	%		1	05/22/23 09:32	JMB	29B
Alkalinity (Sat Paste)	0.5	meq/L		1	05/25/23 14:18	BMB	29B
Chloride (Sat Paste)	2.04	meq/L	0.010	5	05/25/23 14:14	MJM	29B
Chloride	37.0	mg/Kg	4.00	1	05/26/23 17:53	MJM	9056
Electrical Conductivity (Sat Paste)	0.666	mmhos/cm		1	05/22/23 09:32	JMB	29B
pH (Sat Paste)	7.06	s.u.		1	05/22/23 09:32	JMB	29B
Sulfate (Sat Paste)	3.10	meq/L	0.010	5	05/25/23 14:14	MJM	29B
Cation Exchange Capacity	27.4	meq/100g	0.100	5	05/24/23 10:52		29B
Exchangeable Sodium Percentage	4.39	%	0.100	1	05/22/23 09:32		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	8.21	Calc	0.050	10	05/23/23 12:37		29B
Calcium (Sat Paste)	0.485	meq/L	0.050	10	05/23/23 12:37	APB	29B
Magnesium (Sat Paste)	0.272	meq/L	0.082	10	05/23/23 12:37	APB	29B
Sodium (Sat Paste)	5.05	meq/L	0.210	10	05/23/23 12:37	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

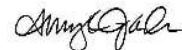
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52563**

Matrix: **Solids**

Sample ID : **SE-SB03 (4-6)**

Sampled: **5/3/2023 10:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	21.9	%		1	05/16/23 12:55	BXH	SW-DRYWT
% Saturation (Sat Paste)	105	%		1	05/22/23 09:32	JMB	29B
Alkalinity (Sat Paste)	1.4	meq/L		1	05/25/23 14:18	BMB	29B
Chloride (Sat Paste)	2.68	meq/L	0.010	5	05/25/23 14:27	MJM	29B
Chloride	38.8	mg/Kg	4.00	1	05/26/23 18:05	MJM	9056
Electrical Conductivity (Sat Paste)	0.798	mmhos/cm		1	05/22/23 09:32	JMB	29B
pH (Sat Paste)	7.95	s.u.		1	05/22/23 09:32	JMB	29B
Sulfate (Sat Paste)	3.01	meq/L	0.010	5	05/25/23 14:27	MJM	29B
Calcium (Sat Paste)	0.373	meq/L	0.050	10	05/23/23 12:41	APB	29B
Magnesium (Sat Paste)	0.213	meq/L	0.082	10	05/23/23 12:41	APB	29B
Sodium (Sat Paste)	6.69	meq/L	0.210	10	05/23/23 12:41	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

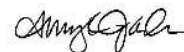
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Project Gastel

Information : Project Number: 1705.A37
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Report Date : 06/12/2023
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52564**

Matrix: **Solids**

Sample ID : **SE-SB03 (6-8)**

Sampled: **5/3/2023 10:07**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	23.4	%		1	05/16/23 12:55	BXH	SW-DRYWT
% Saturation (Sat Paste)	99.5	%		1	05/22/23 09:32	JMB	29B
Alkalinity (Sat Paste)	1.2	meq/L		1	05/25/23 14:18	BMB	29B
Chloride (Sat Paste)	3.88	meq/L	0.010	10	05/25/23 14:40	MJM	29B
Chloride	37.3	mg/Kg	4.00	1	05/26/23 18:18	MJM	9056
Electrical Conductivity (Sat Paste)	1.03	mmhos/cm		1	05/22/23 09:32	JMB	29B
pH (Sat Paste)	7.78	s.u.		1	05/22/23 09:32	JMB	29B
Sulfate (Sat Paste)	3.99	meq/L	0.010	10	05/25/23 14:40	MJM	29B
Calcium (Sat Paste)	0.584	meq/L	0.050	10	05/23/23 12:45	APB	29B
Magnesium (Sat Paste)	0.316	meq/L	0.082	10	05/23/23 12:45	APB	29B
Sodium (Sat Paste)	8.12	meq/L	0.210	10	05/23/23 12:45	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52565**

Matrix: **Solids**

Sample ID : **SE-SB03 (8-10)**

Sampled: **5/3/2023 10:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	29.6	%		1	05/16/23 12:55	BXH	SW-DRYWT
% Saturation (Sat Paste)	62.6	%		1	05/22/23 09:32	JMB	29B
Alkalinity (Sat Paste)	1.4	meq/L		1	05/25/23 14:18	BMB	29B
Chloride (Sat Paste)	3.77	meq/L	0.010	5	05/25/23 14:53	MJM	29B
Chloride	30.9	mg/Kg	4.00	1	05/26/23 18:30	MJM	9056
Electrical Conductivity (Sat Paste)	0.931	mmhos/cm		1	05/22/23 09:32	JMB	29B
pH (Sat Paste)	7.96	s.u.		1	05/22/23 09:32	JMB	29B
Sulfate (Sat Paste)	3.26	meq/L	0.010	5	05/25/23 14:53	MJM	29B
Calcium (Sat Paste)	0.710	meq/L	0.050	10	05/23/23 12:49	APB	29B
Magnesium (Sat Paste)	0.376	meq/L	0.082	10	05/23/23 12:49	APB	29B
Sodium (Sat Paste)	7.46	meq/L	0.210	10	05/23/23 12:49	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52566**

Matrix: **Solids**

Sample ID : **SE-SB03 (10-12)**

Sampled: **5/3/2023 10:17**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	27.3	%		1	05/16/23 12:55	BXH	SW-DRYWT
% Saturation (Sat Paste)	62.9	%		1	05/22/23 09:32	JMB	29B
Alkalinity (Sat Paste)	1.2	meq/L		1	05/25/23 14:18	BMB	29B
Chloride (Sat Paste)	4.19	meq/L	0.010	5	05/25/23 15:06	MJM	29B
Chloride	37.7	mg/Kg	4.00	1	05/26/23 18:43	MJM	9056
Electrical Conductivity (Sat Paste)	0.917	mmhos/cm		1	05/22/23 09:32	JMB	29B
pH (Sat Paste)	7.78	s.u.		1	05/22/23 09:32	JMB	29B
Sulfate (Sat Paste)	3.09	meq/L	0.010	5	05/25/23 15:06	MJM	29B
Calcium (Sat Paste)	0.711	meq/L	0.050	10	05/23/23 12:53	APB	29B
Magnesium (Sat Paste)	0.398	meq/L	0.082	10	05/23/23 12:53	APB	29B
Sodium (Sat Paste)	7.09	meq/L	0.210	10	05/23/23 12:53	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

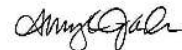
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52567**

Matrix: **Solids**

Sample ID : **SE-SB03 (12-14)**

Sampled: **5/3/2023 10:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	29.2	%		1	05/16/23 12:55	BXH	SW-DRYWT
% Saturation (Sat Paste)	65.7	%		1	05/22/23 09:32	JMB	29B
Alkalinity (Sat Paste)	1.6	meq/L		1	05/25/23 14:18	BMB	29B
Chloride (Sat Paste)	7.67	meq/L	0.010	5	05/25/23 15:18	MJM	29B
Chloride	89.1	mg/Kg	4.00	1	05/26/23 18:55	MJM	9056
Electrical Conductivity (Sat Paste)	1.40	mmhos/cm		1	05/22/23 09:32	JMB	29B
pH (Sat Paste)	7.83	s.u.		1	05/22/23 09:32	JMB	29B
Sulfate (Sat Paste)	4.08	meq/L	0.010	5	05/25/23 15:18	MJM	29B
Calcium (Sat Paste)	1.48	meq/L	0.050	10	05/23/23 12:57	APB	29B
Magnesium (Sat Paste)	0.924	meq/L	0.082	10	05/23/23 12:57	APB	29B
Sodium (Sat Paste)	10.5	meq/L	0.210	10	05/23/23 12:57	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52568**

Matrix: **Solids**

Sample ID : **SE-S803 (14-16)**

Sampled: **5/3/2023 10:27**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	29.6	%		1	05/16/23 12:55	BXH	SW-DRYWT
% Saturation (Sat Paste)	139	%		1	05/22/23 09:32	JMB	29B
Alkalinity (Sat Paste)	3.6	meq/L		1	05/25/23 14:18	BMB	29B
Chloride (Sat Paste)	4.91	meq/L	0.010	5	05/25/23 15:31	MJM	29B
Chloride	86.6	mg/Kg	4.00	1	05/26/23 19:07	MJM	9056
Electrical Conductivity (Sat Paste)	1.17	mmhos/cm		1	05/22/23 09:32	JMB	29B
pH (Sat Paste)	8.31	s.u.		1	05/22/23 09:32	JMB	29B
Sulfate (Sat Paste)	2.87	meq/L	0.010	5	05/25/23 15:31	MJM	29B
Calcium (Sat Paste)	1.30	meq/L	0.050	10	05/23/23 13:01	APB	29B
Magnesium (Sat Paste)	0.779	meq/L	0.082	10	05/23/23 13:01	APB	29B
Sodium (Sat Paste)	9.16	meq/L	0.210	10	05/23/23 13:01	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

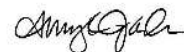
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52569**

Matrix: **Solids**

Sample ID : **SE-SB03 (16-18)**

Sampled: **5/3/2023 10:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	24.0	%		1	05/16/23 12:55	BXH	SW-DRYWT
% Saturation (Sat Paste)	82.4	%		1	05/22/23 09:32	JMB	29B
Alkalinity (Sat Paste)	2.4	meq/L		1	05/25/23 14:18	BMB	29B
Chloride (Sat Paste)	4.84	meq/L	0.010	5	05/25/23 15:44	MJM	29B
Chloride	71.6	mg/Kg	4.00	1	05/26/23 19:20	MJM	9056
Electrical Conductivity (Sat Paste)	1.01	mmhos/cm		1	05/22/23 09:32	JMB	29B
pH (Sat Paste)	8.07	s.u.		1	05/22/23 09:32	JMB	29B
Sulfate (Sat Paste)	2.22	meq/L	0.010	5	05/25/23 15:44	MJM	29B
Calcium (Sat Paste)	1.32	meq/L	0.050	10	05/23/23 13:05	APB	29B
Magnesium (Sat Paste)	0.787	meq/L	0.082	10	05/23/23 13:05	APB	29B
Sodium (Sat Paste)	7.35	meq/L	0.210	10	05/23/23 13:05	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52570**

Matrix: **Solids**

Sample ID : **SE-SB03 (18-20)**

Sampled: **5/3/2023 10:37**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	24.0	%		1	05/16/23 13:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	68.6	%		1	05/22/23 09:32	JMB	29B
Alkalinity (Sat Paste)	1.5	meq/L		1	05/25/23 14:18	BMB	29B
Chloride (Sat Paste)	4.18	meq/L	0.010	5	05/25/23 15:57	MJM	29B
Chloride	86.1	mg/Kg	4.00	1	05/26/23 20:09	MJM	9056
Electrical Conductivity (Sat Paste)	0.834	mmhos/cm		1	05/22/23 09:32	JMB	29B
pH (Sat Paste)	7.93	s.u.		1	05/22/23 09:32	JMB	29B
Sulfate (Sat Paste)	1.68	meq/L	0.010	5	05/25/23 15:57	MJM	29B
Calcium (Sat Paste)	1.15	meq/L	0.050	10	05/23/23 13:09	APB	29B
Magnesium (Sat Paste)	0.720	meq/L	0.082	10	05/23/23 13:09	APB	29B
Sodium (Sat Paste)	5.76	meq/L	0.210	10	05/23/23 13:09	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52571**

Matrix: **Solids**

Sample ID : **SE-SB04 (0-2)**

Sampled: **5/3/2023 12:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	16.9	%		1	05/16/23 13:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	63.2	%		1	05/22/23 09:32	JMB	29B
Alkalinity (Sat Paste)	1.9	meq/L		1	05/25/23 14:18	BMB	29B
Chloride (Sat Paste)	18.9	meq/L	0.010	10	05/25/23 17:18	MJM	29B
Chloride	230	mg/Kg	4.00	1	05/26/23 20:21	MJM	9056
Electrical Conductivity (Sat Paste)	2.36	mmhos/cm		1	05/22/23 09:32	JMB	29B
pH (Sat Paste)	7.78	s.u.		1	05/22/23 09:32	JMB	29B
Sulfate (Sat Paste)	0.728	meq/L	0.010	10	05/25/23 17:18	MJM	29B
Cation Exchange Capacity	15.4	meq/100g	0.100	10	05/24/23 10:56		29B
Exchangeable Sodium Percentage	9.77	%	0.100	1	05/22/23 09:32		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	22.1	Calc	0.050	10	05/23/23 13:22		29B
Calcium (Sat Paste)	1.02	meq/L	0.050	10	05/23/23 13:22	APB	29B
Magnesium (Sat Paste)	0.515	meq/L	0.082	10	05/23/23 13:22	APB	29B
Sodium (Sat Paste)	19.4	meq/L	0.210	10	05/23/23 13:22	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

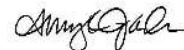
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REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52572**

Matrix: **Solids**

Sample ID : **SE-SB04 (2-4)**

Sampled: **5/3/2023 12:57**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	21.9	%		1	05/16/23 13:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	78.4	%		1	05/22/23 10:05	JMB	29B
Alkalinity (Sat Paste)	0.2	meq/L		1	05/26/23 09:24	BMB	29B
Chloride (Sat Paste)	21.4	meq/L	0.010	10	05/25/23 17:31	MJM	29B
Chloride	594	mg/Kg	4.00	1	05/26/23 20:58	MJM	9056
Electrical Conductivity (Sat Paste)	2.41	mmhos/cm		1	05/22/23 10:05	JMB	29B
pH (Sat Paste)	6.36	s.u.		1	05/22/23 10:05	JMB	29B
Sulfate (Sat Paste)	0.358	meq/L	0.010	10	05/25/23 17:31	MJM	29B
Cation Exchange Capacity	27.5	meq/100g	0.100	10	05/24/23 11:00		29B
Exchangeable Sodium Percentage	2.81	%	0.100	1	05/22/23 10:05		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	5.00	Calc	0.050	10	05/23/23 13:26		29B
Calcium (Sat Paste)	6.30	meq/L	0.050	10	05/23/23 13:26	APB	29B
Magnesium (Sat Paste)	3.74	meq/L	0.082	10	05/23/23 13:26	APB	29B
Sodium (Sat Paste)	11.2	meq/L	0.210	10	05/23/23 13:26	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

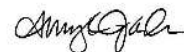
09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52573**

Matrix: **Solids**

Sample ID : **SE-SB04 (4-6)**

Sampled: **5/3/2023 13:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	16.4	%		1	05/16/23 13:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	80.3	%		1	05/22/23 10:05	JMB	29B
Alkalinity (Sat Paste)	0.6	meq/L		1	05/26/23 09:24	BMB	29B
Chloride (Sat Paste)	5.90	meq/L	0.010	5	05/25/23 17:44	MJM	29B
Chloride	103	mg/Kg	4.00	1	05/26/23 21:11	MJM	9056
Electrical Conductivity (Sat Paste)	0.809	mmhos/cm		1	05/22/23 10:05	JMB	29B
pH (Sat Paste)	7.42	s.u.		1	05/22/23 10:05	JMB	29B
Sulfate (Sat Paste)	0.661	meq/L	0.010	5	05/25/23 17:44	MJM	29B
Calcium (Sat Paste)	1.71	meq/L	0.050	10	05/23/23 13:30	APB	29B
Magnesium (Sat Paste)	0.921	meq/L	0.082	10	05/23/23 13:30	APB	29B
Sodium (Sat Paste)	4.52	meq/L	0.210	10	05/23/23 13:30	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52574**

Matrix: **Solids**

Sample ID : **SE-SB04 (6-8)**

Sampled: **5/3/2023 13:07**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	15.6	%		1	05/16/23 13:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	85.1	%		1	05/22/23 10:05	JMB	29B
Alkalinity (Sat Paste)	0.4	meq/L		1	05/26/23 09:24	BMB	29B
Chloride (Sat Paste)	5.70	meq/L	0.010	5	05/25/23 17:57	MJM	29B
Chloride	80.6	mg/Kg	4.00	1	05/26/23 21:23	MJM	9056
Electrical Conductivity (Sat Paste)	0.735	mmhos/cm		1	05/22/23 10:05	JMB	29B
pH (Sat Paste)	7.05	s.u.		1	05/22/23 10:05	JMB	29B
Sulfate (Sat Paste)	0.412	meq/L	0.010	5	05/25/23 17:57	MJM	29B
Calcium (Sat Paste)	1.24	meq/L	0.050	10	05/23/23 13:34	APB	29B
Magnesium (Sat Paste)	0.689	meq/L	0.082	10	05/23/23 13:34	APB	29B
Sodium (Sat Paste)	4.22	meq/L	0.210	10	05/23/23 13:34	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52575**

Matrix: **Solids**

Sample ID : **SE-SB04 (8-1 0)**

Sampled: **5/3/2023 13:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	17.4	%		1	05/16/23 13:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	84.1	%		1	05/22/23 10:05	JMB	29B
Alkalinity (Sat Paste)	0.7	meq/L		1	05/26/23 09:24	BMB	29B
Chloride (Sat Paste)	7.06	meq/L	0.010	5	05/25/23 18:09	MJM	29B
Chloride	104	mg/Kg	4.00	1	05/26/23 21:35	MJM	9056
Electrical Conductivity (Sat Paste)	0.939	mmhos/cm		1	05/22/23 10:05	JMB	29B
pH (Sat Paste)	7.59	s.u.		1	05/22/23 10:05	JMB	29B
Sulfate (Sat Paste)	0.712	meq/L	0.010	5	05/25/23 18:09	MJM	29B
Calcium (Sat Paste)	1.62	meq/L	0.050	10	05/23/23 13:39	APB	29B
Magnesium (Sat Paste)	0.897	meq/L	0.082	10	05/23/23 13:39	APB	29B
Sodium (Sat Paste)	5.75	meq/L	0.210	10	05/23/23 13:39	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

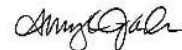
09996

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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52576**

Matrix: **Solids**

Sample ID : **SE-SB04 (10-12)**

Sampled: **5/3/2023 13:17**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.4	%		1	05/16/23 13:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	48.1	%		1	05/22/23 10:05	JMB	29B
Alkalinity (Sat Paste)	0.4	meq/L		1	05/26/23 09:24	BMB	29B
Chloride (Sat Paste)	11.7	meq/L	0.010	5	05/25/23 18:35	MJM	29B
Chloride	158	mg/Kg	4.00	1	05/26/23 21:48	MJM	9056
Electrical Conductivity (Sat Paste)	1.39	mmhos/cm		1	05/22/23 10:05	JMB	29B
pH (Sat Paste)	7.29	s.u.		1	05/22/23 10:05	JMB	29B
Sulfate (Sat Paste)	0.282	meq/L	0.010	5	05/25/23 18:35	MJM	29B
Calcium (Sat Paste)	3.08	meq/L	0.050	10	05/23/23 13:47	APB	29B
Magnesium (Sat Paste)	1.71	meq/L	0.082	10	05/23/23 13:47	APB	29B
Sodium (Sat Paste)	7.24	meq/L	0.210	10	05/23/23 13:47	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52577**

Matrix: **Solids**

Sample ID : **SE-SB04 (12-14)**

Sampled: **5/3/2023 13:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	24.9	%		1	05/16/23 13:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	46.6	%		1	05/22/23 10:05	JMB	29B
Alkalinity (Sat Paste)	0.7	meq/L		1	05/26/23 09:24	BMB	29B
Chloride (Sat Paste)	29.9	meq/L	0.010	20	05/25/23 18:48	MJM	29B
Chloride	400	mg/Kg	8.00	2	05/26/23 22:00	MJM	9056
Electrical Conductivity (Sat Paste)	3.25	mmhos/cm		1	05/22/23 10:05	JMB	29B
pH (Sat Paste)	7.41	s.u.		1	05/22/23 10:05	JMB	29B
Sulfate (Sat Paste)	0.355	meq/L	0.010	20	05/25/23 18:48	MJM	29B
Calcium (Sat Paste)	9.95	meq/L	0.100	20	05/23/23 13:51	APB	29B
Magnesium (Sat Paste)	5.46	meq/L	0.164	20	05/23/23 13:51	APB	29B
Sodium (Sat Paste)	13.9	meq/L	0.420	20	05/23/23 13:51	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

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Project Gastel

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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52578**

Matrix: **Solids**

Sample ID : **SE-SB04 (14-16)**

Sampled: **5/3/2023 13:22**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	31.7	%		1	05/16/23 13:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	75.1	%		1	05/22/23 10:05	JMB	29B
Alkalinity (Sat Paste)	2.1	meq/L		1	05/26/23 09:24	BMB	29B
Chloride (Sat Paste)	9.90	meq/L	0.010	5	05/25/23 19:01	MJM	29B
Chloride	187	mg/Kg	4.00	1	05/26/23 22:50	MJM	9056
Electrical Conductivity (Sat Paste)	1.31	mmhos/cm		1	05/22/23 10:05	JMB	29B
pH (Sat Paste)	7.80	s.u.		1	05/22/23 10:05	JMB	29B
Sulfate (Sat Paste)	0.238	meq/L	0.010	5	05/25/23 19:01	MJM	29B
Calcium (Sat Paste)	4.16	meq/L	0.050	10	05/23/23 13:55	APB	29B
Magnesium (Sat Paste)	2.04	meq/L	0.082	10	05/23/23 13:55	APB	29B
Sodium (Sat Paste)	5.76	meq/L	0.210	10	05/23/23 13:55	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52579**

Matrix: **Solids**

Sample ID : **SE-SB04 (16-18)**

Sampled: **5/3/2023 13:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	24.8	%		1	05/16/23 13:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	139	%		1	05/22/23 10:05	JMB	29B
Alkalinity (Sat Paste)	3.0	meq/L		1	05/26/23 09:24	BMB	29B
Chloride (Sat Paste)	1.24	meq/L	0.010	5	05/25/23 19:14	MJM	29B
Chloride	22.3	mg/Kg	4.00	1	05/26/23 23:02	MJM	9056
Electrical Conductivity (Sat Paste)	0.470	mmhos/cm		1	05/22/23 10:05	JMB	29B
pH (Sat Paste)	8.24	s.u.		1	05/22/23 10:05	JMB	29B
Sulfate (Sat Paste)	0.261	meq/L	0.010	5	05/25/23 19:14	MJM	29B
Calcium (Sat Paste)	1.21	meq/L	0.050	10	05/23/23 13:59	APB	29B
Magnesium (Sat Paste)	0.550	meq/L	0.082	10	05/23/23 13:59	APB	29B
Sodium (Sat Paste)	2.84	meq/L	0.210	10	05/23/23 13:59	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52580**

Matrix: **Solids**

Sample ID : **SE-SB04 (18-20)**

Sampled: **5/3/2023 13:37**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	25.6	%		1	05/17/23 12:25	BXH	SW-DRYWT
% Saturation (Sat Paste)	129	%		1	05/22/23 10:05	JMB	29B
Alkalinity (Sat Paste)	2.9	meq/L		1	05/26/23 09:24	BMB	29B
Chloride (Sat Paste)	0.767	meq/L	0.010	5	05/25/23 20:05	MJM	29B
Chloride	17.2	mg/Kg	4.00	1	05/31/23 17:05	MJM	9056
Electrical Conductivity (Sat Paste)	0.424	mmhos/cm		1	05/22/23 10:05	JMB	29B
pH (Sat Paste)	7.53	s.u.		1	05/22/23 10:05	JMB	29B
Sulfate (Sat Paste)	0.452	meq/L	0.010	5	05/25/23 20:05	MJM	29B
Calcium (Sat Paste)	1.07	meq/L	0.050	10	05/23/23 14:11	APB	29B
Magnesium (Sat Paste)	0.511	meq/L	0.082	10	05/23/23 14:11	APB	29B
Sodium (Sat Paste)	2.65	meq/L	0.210	10	05/23/23 14:11	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52581**

Matrix: **Solids**

Sample ID : **SE-SB04 (20-22)**

Sampled: **5/3/2023 13:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	26.1	%		1	05/17/23 12:25	BXH	SW-DRYWT
% Saturation (Sat Paste)	90.8	%		1	05/22/23 10:05	JMB	29B
Alkalinity (Sat Paste)	2.4	meq/L		1	05/26/23 09:24	BMB	29B
Chloride (Sat Paste)	2.12	meq/L	0.010	5	05/25/23 20:18	MJM	29B
Chloride	26.6	mg/Kg	4.00	1	05/31/23 17:18	MJM	9056
Electrical Conductivity (Sat Paste)	0.544	mmhos/cm		1	05/22/23 10:05	JMB	29B
pH (Sat Paste)	7.71	s.u.		1	05/22/23 10:05	JMB	29B
Sulfate (Sat Paste)	0.591	meq/L	0.010	5	05/25/23 20:18	MJM	29B
Calcium (Sat Paste)	1.34	meq/L	0.050	10	05/23/23 14:16	APB	29B
Magnesium (Sat Paste)	0.650	meq/L	0.082	10	05/23/23 14:16	APB	29B
Sodium (Sat Paste)	3.05	meq/L	0.210	10	05/23/23 14:16	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52582**

Matrix: **Solids**

Sample ID : **SE-SB04 (22-24)**

Sampled: **5/3/2023 13:47**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.6	%		1	05/17/23 12:25	BXH	SW-DRYWT
% Saturation (Sat Paste)	72.7	%		1	05/22/23 10:05	JMB	29B
Alkalinity (Sat Paste)	1.9	meq/L		1	05/26/23 09:24	BMB	29B
Chloride (Sat Paste)	2.15	meq/L	0.010	5	05/25/23 20:31	MJM	29B
Chloride	27.8	mg/Kg	4.00	1	05/31/23 17:30	MJM	9056
Electrical Conductivity (Sat Paste)	0.502	mmhos/cm		1	05/22/23 10:05	JMB	29B
pH (Sat Paste)	7.55	s.u.		1	05/22/23 10:05	JMB	29B
Sulfate (Sat Paste)	0.503	meq/L	0.010	5	05/25/23 20:31	MJM	29B
Calcium (Sat Paste)	1.46	meq/L	0.050	10	05/23/23 14:20	APB	29B
Magnesium (Sat Paste)	0.636	meq/L	0.082	10	05/23/23 14:20	APB	29B
Sodium (Sat Paste)	2.58	meq/L	0.210	10	05/23/23 14:20	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52583**

Matrix: **Solids**

Sample ID : **SE-SB05 (0-2)**

Sampled: **5/3/2023 14:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	16.6	%		1	05/17/23 12:25	BXH	SW-DRYWT
% Saturation (Sat Paste)	67.3	%		1	05/22/23 10:05	JMB	29B
Alkalinity (Sat Paste)	0.7	meq/L		1	05/26/23 09:24	BMB	29B
Chloride (Sat Paste)	32.9	meq/L	0.010	20	05/25/23 20:44	MJM	29B
Chloride	399	mg/Kg	8.00	2	05/31/23 17:42	MJM	9056
Electrical Conductivity (Sat Paste)	3.71	mmhos/cm		1	05/22/23 10:05	JMB	29B
pH (Sat Paste)	7.26	s.u.		1	05/22/23 10:05	JMB	29B
Sulfate (Sat Paste)	0.558	meq/L	0.010	20	05/25/23 20:44	MJM	29B
Cation Exchange Capacity	16.7	meq/100g	0.100	10	05/24/23 11:18		29B
Exchangeable Sodium Percentage	16.2	%	0.100	1	05/22/23 10:05		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	29.1	Calc	0.100	20	05/23/23 14:24		29B
Calcium (Sat Paste)	1.50	meq/L	0.100	20	05/23/23 14:24	APB	29B
Magnesium (Sat Paste)	0.702	meq/L	0.164	20	05/23/23 14:24	APB	29B
Sodium (Sat Paste)	30.5	meq/L	0.420	20	05/23/23 14:24	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52584**

Matrix: **Solids**

Sample ID : **SE-SB05 (2-4)**

Sampled: **5/3/2023 14:52**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	20.8	%		1	05/17/23 12:25	BXH	SW-DRYWT
% Saturation (Sat Paste)	79.9	%		1	05/22/23 10:05	JMB	29B
Alkalinity (Sat Paste)	0.3	meq/L		1	05/26/23 09:24	BMB	29B
Chloride (Sat Paste)	41.1	meq/L	0.010	20	05/25/23 20:57	MJM	29B
Chloride	895	mg/Kg	8.00	2	05/31/23 17:55	MJM	9056
Electrical Conductivity (Sat Paste)	4.37	mmhos/cm		1	05/22/23 10:05	JMB	29B
pH (Sat Paste)	6.54	s.u.		1	05/22/23 10:05	JMB	29B
Sulfate (Sat Paste)	0.207	meq/L	0.010	20	05/25/23 20:57	MJM	29B
Cation Exchange Capacity	25.1	meq/100g	0.100	10	05/24/23 11:22		29B
Exchangeable Sodium Percentage	4.56	%	0.100	1	05/22/23 10:05		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	8.25	Calc	0.100	20	05/23/23 14:28		29B
Calcium (Sat Paste)	10.4	meq/L	0.100	20	05/23/23 14:28	APB	29B
Magnesium (Sat Paste)	5.96	meq/L	0.164	20	05/23/23 14:28	APB	29B
Sodium (Sat Paste)	23.6	meq/L	0.420	20	05/23/23 14:28	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52585**

Matrix: **Solids**

Sample ID : **SE-SB05 (4-6)**

Sampled: **5/3/2023 14:58**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.3	%		1	05/17/23 12:25	BXH	SW-DRYWT
% Saturation (Sat Paste)	82.5	%		1	05/22/23 10:05	JMB	29B
Alkalinity (Sat Paste)	0.4	meq/L		1	05/26/23 09:24	BMB	29B
Chloride (Sat Paste)	13.5	meq/L	0.010	5	05/25/23 21:10	MJM	29B
Chloride	297	mg/Kg	4.00	1	05/31/23 18:32	MJM	9056
Electrical Conductivity (Sat Paste)	1.58	mmhos/cm		1	05/22/23 10:05	JMB	29B
pH (Sat Paste)	6.68	s.u.		1	05/22/23 10:05	JMB	29B
Sulfate (Sat Paste)	0.202	meq/L	0.010	5	05/25/23 21:10	MJM	29B
Calcium (Sat Paste)	3.99	meq/L	0.050	10	05/23/23 14:32	APB	29B
Magnesium (Sat Paste)	2.20	meq/L	0.082	10	05/23/23 14:32	APB	29B
Sodium (Sat Paste)	7.61	meq/L	0.210	10	05/23/23 14:32	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52586**

Matrix: **Solids**

Sample ID : **SE-SB05 (6-8)**

Sampled: **5/3/2023 15:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	15.3	%		1	05/17/23 12:25	BXH	SW-DRYWT
% Saturation (Sat Paste)	82.4	%		1	05/22/23 10:05	JMB	29B
Alkalinity (Sat Paste)	0.4	meq/L		1	05/26/23 09:24	BMB	29B
Chloride (Sat Paste)	10.3	meq/L	0.010	5	05/25/23 21:22	MJM	29B
Chloride	205	mg/Kg	4.00	1	05/31/23 18:44	MJM	9056
Electrical Conductivity (Sat Paste)	1.20	mmhos/cm		1	05/22/23 10:05	JMB	29B
pH (Sat Paste)	6.92	s.u.		1	05/22/23 10:05	JMB	29B
Sulfate (Sat Paste)	0.187	meq/L	0.010	5	05/25/23 21:22	MJM	29B
Calcium (Sat Paste)	2.83	meq/L	0.050	10	05/23/23 14:36	APB	29B
Magnesium (Sat Paste)	1.49	meq/L	0.082	10	05/23/23 14:36	APB	29B
Sodium (Sat Paste)	5.91	meq/L	0.210	10	05/23/23 14:36	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

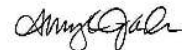
09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52587**

Matrix: **Solids**

Sample ID : **SE-SB05 (8-10)**

Sampled: **5/3/2023 15:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	17.9	%		1	05/17/23 12:25	BXH	SW-DRYWT
% Saturation (Sat Paste)	76.1	%		1	05/22/23 10:05	JMB	29B
Alkalinity (Sat Paste)	0.2	meq/L		1	05/26/23 09:24	BMB	29B
Chloride (Sat Paste)	10.9	meq/L	0.010	5	05/25/23 21:35	MJM	29B
Chloride	243	mg/Kg	4.00	1	05/31/23 18:56	MJM	9056
Electrical Conductivity (Sat Paste)	1.28	mmhos/cm		1	05/22/23 10:05	JMB	29B
pH (Sat Paste)	7.06	s.u.		1	05/22/23 10:05	JMB	29B
Sulfate (Sat Paste)	0.245	meq/L	0.010	5	05/25/23 21:35	MJM	29B
Calcium (Sat Paste)	3.60	meq/L	0.050	10	05/23/23 14:40	APB	29B
Magnesium (Sat Paste)	1.86	meq/L	0.082	10	05/23/23 14:40	APB	29B
Sodium (Sat Paste)	5.44	meq/L	0.210	10	05/23/23 14:40	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

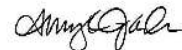
09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52588**

Matrix: **Solids**

Sample ID : **SE-SB05 (10-12)**

Sampled: **5/3/2023 15:07**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	17.2	%		1	05/17/23 12:25	BXH	SW-DRYWT
% Saturation (Sat Paste)	49.3	%		1	05/22/23 10:05	JMB	29B
Alkalinity (Sat Paste)	0.3	meq/L		1	05/26/23 09:24	BMB	29B
Chloride (Sat Paste)	13.5	meq/L	0.010	5	05/25/23 21:48	MJM	29B
Chloride	186	mg/Kg	4.00	1	05/31/23 19:46	MJM	9056
Electrical Conductivity (Sat Paste)	1.60	mmhos/cm		1	05/22/23 10:05	JMB	29B
pH (Sat Paste)	6.96	s.u.		1	05/22/23 10:05	JMB	29B
Sulfate (Sat Paste)	0.251	meq/L	0.010	5	05/25/23 21:48	MJM	29B
Calcium (Sat Paste)	4.92	meq/L	0.050	10	05/23/23 14:44	APB	29B
Magnesium (Sat Paste)	2.52	meq/L	0.082	10	05/23/23 14:44	APB	29B
Sodium (Sat Paste)	6.41	meq/L	0.210	10	05/23/23 14:44	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

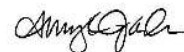
09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
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Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52589**

Matrix: **Solids**

Sample ID : **SE-SB05 (12-14)**

Sampled: **5/3/2023 15:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	21.0	%		1	05/17/23 12:25	BXH	SW-DRYWT
% Saturation (Sat Paste)	52.2	%		1	05/22/23 10:05	JMB	29B
Alkalinity (Sat Paste)	0.2	meq/L		1	05/26/23 09:24	BMB	29B
Chloride (Sat Paste)	128	meq/L	0.014	50	05/25/23 22:01	MJM	29B
Chloride	2180	mg/Kg	20.0	5	05/31/23 19:58	MJM	9056
Electrical Conductivity (Sat Paste)	12.8	mmhos/cm		1	05/22/23 10:05	JMB	29B
pH (Sat Paste)	6.76	s.u.		1	05/22/23 10:05	JMB	29B
Sulfate (Sat Paste)	0.178	meq/L	0.010	50	05/25/23 22:01	MJM	29B
Calcium (Sat Paste)	39.3	meq/L	0.100	20	05/23/23 14:48	APB	29B
Magnesium (Sat Paste)	20.2	meq/L	0.164	20	05/23/23 14:48	APB	29B
Sodium (Sat Paste)	63.8	meq/L	0.420	20	05/23/23 14:48	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

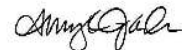
09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **54086**

Matrix: **TCLP**

Sample ID : **SE-SB01 (28-30)**

Sampled: **5/2/2023 10:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
SPLP Extraction	Leachate			1	06/07/23 13:00	ALM	1312
SPLP Chloride	222	mg/L	1.60	10	06/08/23 17:07	SRJ	9056
SPLP Sodium	157	mg/L	2.78	5	06/09/23 14:58		6010D

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **54087**

Matrix: **TCLP**

Sample ID : **SE-SB01 (34-35)**

Sampled: **5/2/2023 11:07**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
SPLP Extraction	Leachate			1	06/07/23 13:00	ALM	1312
SPLP Chloride	201	mg/L	1.60	10	06/08/23 17:32	SRJ	9056
SPLP Sodium	130	mg/L	2.78	5	06/09/23 15:03	TJS	6010D

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **54088**

Matrix: **TCLP**

Sample ID : **SE-SB02 (12-14)**

Sampled: **5/2/2023 15:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
SPLP Extraction	Leachate			1	06/07/23 13:00	ALM	1312
SPLP Chloride	275	mg/L	1.60	10	06/08/23 17:58	SRJ	9056
SPLP Sodium	220	mg/L	2.78	5	06/09/23 15:09	TJS	6010D

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **54089**

Matrix: **TCLP**

Sample ID : **SE-SB02 (22-24)**

Sampled: **5/2/2023 15:42**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
SPLP Extraction	Leachate			1	06/07/23 13:00	ALM	1312
SPLP Chloride	115	mg/L	1.60	10	06/08/23 18:24	SRJ	9056
SPLP Sodium	79.9	mg/L	0.556	1	06/08/23 16:35		6010D

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 06/12/2023
Received : 05/09/2023



Report Number : **23-129-0031**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **54090**

Matrix: **TCLP**

Sample ID : **SE-SB05 (12-14)**

Sampled: **5/3/2023 15:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
SPLP Extraction	Leachate			1	06/07/23 13:00	ALM	1312
SPLP Chloride	98.1	mg/L	0.400	1	06/08/23 19:03	SRJ	9056
SPLP Sodium	51.3	mg/L	0.556	1	06/08/23 16:40	TJS	6010D

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-0031

QC Prep:	A82466	QC Analytical Batch(es):	A82576
QC Prep Batch Method:	LA 29B BA (PREP)	Analysis Method:	29B
		Analysis Description:	True Total Barium

Lab Reagent Blank LRB-A82466 Matrix: SOL
Associated Lab Samples: 52532, 52533

Parameter	Units	Blank Result	MQL	Analyzed
True Total Barium	mg/Kg	< 500	500	05/18/23 19:38

Laboratory Control Sample LCS-A82466

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
True Total Barium	mg/Kg	10000	9930	99.0	80-120

Matrix Spike & Matrix Spike Duplicate A 52381-A82371-MS-A82466 A 52381-A82371-MSD-A82466

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
True Total Barium	mg/Kg	541	9350	9620	9680	10000	98.0	98.0	75-125	3.2	20.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-0031

QC Prep:	A82412	QC Analytical Batch(es):	A82460
QC Prep Batch Method:	LA 29B CEC (PREP)	Analysis Method:	29B
		Analysis Description:	Cation Exchange Capacity

Lab Reagent Blank LRB-A82412 Matrix: SOL
Associated Lab Samples: 52548, 52549, 52561, 52562, 52571, 52572, 52583, 52584

Parameter	Units	Blank Result	MQL	Analyzed
Total Sodium CEC	mg/Kg	< 100	100	05/24/23 10:32

Duplicate A 52548-A82374-DUP-A82412

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Sodium CEC	mg/Kg	4130	4540	9.4	30.0	05/24/23 10:40

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-0031

QC Prep:	A82413	QC Analytical Batch(es):	A82461
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Exchangeable Sodium Percentage

Duplicate A 52548-A82374-DUP-A82413

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Sodium ESP	meq/100g	2.92	2.80	4.1	30.0	05/24/23 11:34

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-0031

QC Prep:	A82452	QC Analytical Batch(es):	A82534,A82564,A82535,A82536
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Alkalinity

Duplicate A 52545-A82374-DUP-A82452

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Alkalinity (Sat Paste)	meq/L	0.8	0.8	0.0	30.0	05/23/23 10:13

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-0031

QC Prep:	A82453	QC Analytical Batch(es):	A82601,A82725,A82586,A82690
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Alkalinity

Duplicate A 52560-A82375-DUP-A82453

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Alkalinity (Sat Paste)	meq/L	0.9	1.0	10.5	30.0	05/25/23 14:18

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-0031

QC Prep:	A82537	QC Analytical Batch(es):	A82633,A82761,A82622,A82690
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Alkalinity

Duplicate A 52575-A82376-DUP-A82537

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Alkalinity (Sat Paste)	meq/L	0.7	0.9	25.0	30.0	05/26/23 09:24

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-0031

QC Prep:	A82452	QC Analytical Batch(es):	A82534,A82564,A82535,A82536
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Anions by Ion Chromatography

Duplicate A 52545-A82374-DUP-A82452

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Chloride (Sat Paste)	meq/L	190	197	3.6	30.0	05/24/23 17:48
Sulfate (Sat Paste)	meq/L	0.074	0.106	35.5*	30.0	05/24/23 17:48

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-0031

QC Prep:	A82453	QC Analytical Batch(es):	A82601,A82725,A82586,A82690
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Anions by Ion Chromatography

Duplicate A 52560-A82375-DUP-A82453

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Chloride (Sat Paste)	meq/L	117	116	0.8	30.0	05/25/23 13:10
Sulfate (Sat Paste)	meq/L	0.696	0.694	0.2	30.0	05/25/23 13:10

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-0031

QC Prep:	A82537	QC Analytical Batch(es):	A82633,A82761,A82622,A82690
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Anions by Ion Chromatography

Duplicate A 52575-A82376-DUP-A82537

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Chloride (Sat Paste)	meq/L	7.06	5.22	29.9	30.0	05/25/23 18:22
Sulfate (Sat Paste)	meq/L	0.712	0.545	26.5	30.0	05/25/23 18:22

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-0031

QC Prep:	A82452	QC Analytical Batch(es):	A82534,A82564,A82535,A82536
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 52545-A82374-DUP-A82452

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Saturation (Sat Paste)	%	46.4	46.9	1.0	30.0	05/18/23 08:57
Electrical Conductivity (Sat Paste)	nmhos/cm	17.9	18.6	3.8	30.0	05/18/23 08:57
pH (Sat Paste)	s.u.	7.64	7.70	0.7	30.0	05/18/23 08:57

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-0031

QC Prep:	A82453	QC Analytical Batch(es):	A82601,A82725,A82586,A82690
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 52560-A82375-DUP-A82453

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Saturation (Sat Paste)	%	51.1	51.8	1.3	30.0	05/22/23 09:32
Electrical Conductivity (Sat Paste)	nmhos/cm	12.1	12.0	0.8	30.0	05/22/23 09:32
pH (Sat Paste)	s.u.	7.58	7.46	1.5	30.0	05/22/23 09:32

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-0031

QC Prep:	A82537	QC Analytical Batch(es):	A82633,A82761,A82622,A82690
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 52575-A82376-DUP-A82537

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Saturation (Sat Paste)	%	84.1	82.8	1.5	30.0	05/22/23 10:05
Electrical Conductivity (Sat Paste)	nmhos/cm	0.939	0.732	24.7	30.0	05/22/23 10:05
pH (Sat Paste)	s.u.	7.59	7.57	0.2	30.0	05/22/23 10:05

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-0031

QC Prep:	A82452	QC Analytical Batch(es):	A82534,A82564,A82535,A82536
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 52545-A82374-DUP-A82452

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Calcium (Sat Paste)	meq/L	24.5	26.1	6.3	30.0	05/19/23 18:49
Magnesium (Sat Paste)	meq/L	10.7	11.1	3.6	30.0	05/19/23 18:49
Sodium (Sat Paste)	meq/L	144	150	4.0	30.0	05/19/23 18:49

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-0031

QC Prep: A82453

QC Prep Batch Method: 29B

QC Analytical Batch(es): A82601,A82725,A82586,A82690

Analysis Method: 29B

Analysis Description: Saturated Paste Extraction

Duplicate A 52560-A82375-DUP-A82453

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Calcium (Sat Paste)	meq/L	6.32	6.13	3.0	30.0	05/23/23 12:20
Magnesium (Sat Paste)	meq/L	2.39	2.37	0.8	30.0	05/23/23 12:20
Sodium (Sat Paste)	meq/L	105	102	2.8	30.0	05/23/23 12:20

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-0031

QC Prep:	A82537	QC Analytical Batch(es):	A82633,A82761,A82622,A82690
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 52575-A82376-DUP-A82537

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Calcium (Sat Paste)	meq/L	1.62	1.28	23.4	30.0	05/23/23 13:43
Magnesium (Sat Paste)	meq/L	0.897	0.694	25.5	30.0	05/23/23 13:43
Sodium (Sat Paste)	meq/L	5.75	4.37	27.2	30.0	05/23/23 13:43

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-0031

QC Prep: A82470 **QC Analytical Batch(es):** A82580
QC Prep Batch Method: 3050B **Analysis Method:** 6010D
Analysis Description: Metals Analysis

Lab Reagent Blank LRB-A82470 Matrix: SOL
Associated Lab Samples: 52532, 52533

Parameter	Units	Blank Result	MQL	Analyzed
Total Arsenic	mg/Kg AR	< 1.00	1.00	05/22/23 10:03
Total Barium	mg/Kg AR	< 0.500	0.500	05/22/23 10:03
Total Cadmium	mg/Kg AR	< 0.100	0.100	05/22/23 10:03
Total Chromium	mg/Kg AR	< 0.250	0.250	05/22/23 10:03
Total Lead	mg/Kg AR	< 0.300	0.300	05/22/23 10:03
Total Selenium	mg/Kg AR	< 0.500	0.500	05/22/23 10:03
Total Silver	mg/Kg AR	< 0.250	0.250	05/22/23 10:03
Total Zinc	mg/Kg AR	< 1.25	1.25	05/22/23 10:03

Laboratory Control Sample & LCSD LCS-A82470 LCSD-A82470

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Total Arsenic	mg/Kg AR	5.00	4.96	5.01	99.0	100	80-120	1.0	20.0
Total Barium	mg/Kg AR	50.0	50.6	50.6	101	101	80-120	0.0	20.0
Total Cadmium	mg/Kg AR	5.00	4.98	5.01	100	100	80-120	0.6	20.0
Total Chromium	mg/Kg AR	50.0	51.6	51.7	103	103	80-120	0.1	20.0
Total Lead	mg/Kg AR	5.00	5.12	5.13	102	103	80-120	0.1	20.0
Total Selenium	mg/Kg AR	5.00	5.07	5.16	101	103	80-120	1.7	20.0
Total Silver	mg/Kg AR	5.00	5.05	5.10	101	102	80-120	0.9	20.0
Total Zinc	mg/Kg AR	50.0	55.2	55.3	110	111	80-120	0.1	20.0

Matrix Spike & Matrix Spike Duplicate A 52381-A82371-MS-A82470 A 52381-A82371-MSD-A82470

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Total Arsenic	mg/Kg AR	< 1.00	4.97	4.99	4.86	4.84	90.0	89.0	75-125	0.4	20.0
Total Barium	mg/Kg AR	344	49.7	49.9	661	607	638*	527*	75-125	8.5	20.0

* QC Fail

Date: 06/12/2023 01:43 PM

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Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-0031

QC Prep: A82470 **QC Analytical Batch(es):** A82580
QC Prep Batch Method: 3050B **Analysis Method:** 6010D
Analysis Description: Metals Analysis

Matrix Spike & Matrix Spike Duplicate A 52381-A82371-MS-A82470 A 52381-A82371-MSD-A82470

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Total Cadmium	mg/Kg AR	0.268	4.97	4.99	5.11	5.12	98.0	97.0	75-125	0.1	20.0
Total Chromium	mg/Kg AR	11.6	49.7	49.9	71.7	71.5	121	120	75-125	0.2	20.0
Total Lead	mg/Kg AR	4.56	4.97	4.99	12.2	12.0	154*	149*	75-125	1.6	20.0
Total Selenium	mg/Kg AR	< 0.500	4.97	4.99	2.16	2.30	44.0*	46.0*	75-125	6.2	20.0
Total Silver	mg/Kg AR	< 0.250	4.97	4.99	4.64	4.66	93.0	93.0	75-125	0.4	20.0
Total Zinc	mg/Kg AR	8.72	49.7	49.9	68.3	67.8	120	118	75-125	0.7	20.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-0031

QC Prep: L686578 **QC Analytical Batch(es):** L686774,L686933
QC Prep Batch Method: 3015A **Analysis Method:** 6010D
Analysis Description: Metals Analysis (SPLP)

Lab Reagent Blank LRB-L686578 Matrix: TCL
Associated Lab Samples: 54086, 54087, 54088, 54089, 54090

Parameter	Units	Blank Result	MQL	Analyzed
SPLP Sodium	mg/L	< 0.500	0.500	06/08/23 16:00

Laboratory Control Sample LCS-L686578

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
SPLP Sodium	mg/L	10.0	9.01	90.0	80-120

Matrix Spike & Matrix Spike Duplicate L 82723-MS-L686578 L 82723-MSD-L686578

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
SPLP Sodium	mg/L	1570	500	500	2040	2060	94.0	98.0	75-125	0.9	20.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-0031

QC Prep:	A82419	QC Analytical Batch(es):	A82454
QC Prep Batch Method:	7471A	Analysis Method:	7471A
		Analysis Description:	Solids Total Mercury Analysis - CVAA

Lab Reagent Blank LRB-A82419 Matrix: SOL
Associated Lab Samples: 52532, 52533

Parameter	Units	Blank Result	MQL	Analyzed
Mercury (Total)	mg/Kg AR	< 0.0188	0.0188	05/15/23 13:34

Laboratory Control Sample & LCSD LCS-A82419 LCSD-A82419

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Mercury (Total)	mg/Kg AR	0.399	0.402	0.401	101	102	80-120	0.2	20.0

Matrix Spike & Matrix Spike Duplicate A 52381-A82371-MS-A82419 A 52381-A82371-MSD-A82419

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Mercury (Total)	mg/Kg AR	< 0.0191	0.398	0.399	0.402	0.393	101	98.0	80-120	2.2	20.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-0031

QC Prep:	A82337	QC Analytical Batch(es):	A82519
QC Prep Batch Method:	SW-9056 (PREP)	Analysis Method:	9056
		Analysis Description:	Anions by Ion Chromatography

Lab Reagent Blank LRB-A82337 Matrix: SOL
Associated Lab Samples: 52532, 52533, 52534, 52535, 52536, 52537, 52538, 52539

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/Kg	< 4.00	4.00	05/17/23 16:09

Laboratory Control Sample LCS-A82337

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Chloride	mg/Kg	500	501	100	80-120

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-0031

QC Prep:	A82338	QC Analytical Batch(es):	A82520
QC Prep Batch Method:	SW-9056 (PREP)	Analysis Method:	9056
		Analysis Description:	Anions by Ion Chromatography

Lab Reagent Blank LRB-A82338 Matrix: SOL
Associated Lab Samples: 52540, 52541, 52542, 52543, 52544, 52545, 52546, 52547, 52548, 52549, 52550, 52551, 52552, 52553, 52554, 52555, 52556, 52557, 52558, 52559

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/Kg	< 4.00	4.00	05/24/23 11:30

Laboratory Control Sample LCS-A82338

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Chloride	mg/Kg	500	508	102	80-120

Matrix Spike & Matrix Spike Duplicate A 52540-MS-A82338 A 52540-MSD-A82338

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Chloride	mg/Kg	4100	478	472	4510	4610	85.7	108	80-120	2.1	15.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-0031

QC Prep:	A82390	QC Analytical Batch(es):	A82776
QC Prep Batch Method:	SW-9056 (PREP)	Analysis Method:	9056
		Analysis Description:	Anions by Ion Chromatography

Lab Reagent Blank LRB-A82390 Matrix: SOL
Associated Lab Samples: 52560, 52561, 52562, 52563, 52564, 52565, 52566, 52567, 52568, 52569, 52570, 52571, 52572, 52573, 52574, 52575, 52576, 52577, 52578, 52579

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/Kg	< 4.00	4.00	05/26/23 17:04

Laboratory Control Sample LCS-A82390

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Chloride	mg/Kg	500	507	101	80-120

Matrix Spike & Matrix Spike Duplicate A 52571-MS-A82390 A 52571-MSD-A82390

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Chloride	mg/Kg	230	492	495	765	736	109	102	80-120	3.8	15.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-0031

QC Prep:	A82391	QC Analytical Batch(es):	A82776
QC Prep Batch Method:	SW-9056 (PREP)	Analysis Method:	9056
		Analysis Description:	Anions by Ion Chromatography

Lab Reagent Blank LRB-A82391 Matrix: SOL
Associated Lab Samples: 52580, 52581, 52582, 52583, 52584, 52585, 52586, 52587, 52588, 52589

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/Kg	< 4.00	4.00	05/31/23 16:41

Laboratory Control Sample LCS-A82391

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Chloride	mg/Kg	500	511	102	80-120

Matrix Spike & Matrix Spike Duplicate A 52584-MS-A82391 A 52584-MSD-A82391

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Chloride	mg/Kg	895	493	493	1460	1570	115	137*	80-120	7.2	15.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-0031

QC Prep: L686824 **QC Analytical Batch(es):** L686870
QC Prep Batch Method: SW-9056A (PREP) **Analysis Method:** 9056
Analysis Description: Anions by Ion Chromatography (SPLP)

Lab Reagent Blank LRB-L686824 Matrix: TCL
Associated Lab Samples: 54086, 54087, 54088, 54089, 54090

Parameter	Units	Blank Result	MQL	Analyzed
SPLP Chloride	mg/L	< 0.400	0.400	06/08/23 16:02

Laboratory Control Sample LCS-L686824

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
SPLP Chloride	mg/L	50.0	51.0	102	90-110

Matrix Spike & Matrix Spike Duplicate L 84315-MS-L686824 L 84315-MSD-L686824

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
SPLP Chloride	mg/L	< 0.400	55.6	55.6	57.7	55.4	104	100	80-120	4.0	15.0



Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-0031

QC Analytical Batch: A82383
Analysis Method: SW-DRYWT
Analysis Description: Dry Weight Determination

Duplicate A 52532-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	22.2	22.4	0.8	20.0	05/12/23 11:40



Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-0031

QC Analytical Batch: A82384
Analysis Method: SW-DRYWT
Analysis Description: Dry Weight Determination

Duplicate A 52540-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	18.5	18.2	1.6	20.0	05/15/23 11:57



Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-0031

QC Analytical Batch: A82385

Analysis Method: SW-DRYWT

Analysis Description: Dry Weight Determination

Duplicate A 52550-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	17.4	17.2	1.1	20.0	05/12/23 12:10

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-0031

QC Analytical Batch: A82386

Analysis Method: SW-DRYWT

Analysis Description: Dry Weight Determination

Duplicate A 52560-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	14.6	14.7	0.6	20.0	05/16/23 12:55

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-0031

QC Analytical Batch: A82387

Analysis Method: SW-DRYWT

Analysis Description: Dry Weight Determination

Duplicate A 52571-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	16.9	17.4	2.9	20.0	05/16/23 13:31



Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-0031

QC Analytical Batch: A82388
Analysis Method: SW-DRYWT
Analysis Description: Dry Weight Determination

Duplicate A 52580-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	25.6	25.1	1.9	20.0	05/17/23 12:25

Shipment Receipt Form

Customer Number: **09996**

Customer Name: **Hydro-Environmental Technology, Inc.**

Report Number: **23-129-0031**

Shipping Method

☐ Fed Ex	☐ US Postal	☒ Lab	☐ Other :	
☐ UPS	☐ Client	☐ Courier	Thermometer ID:	IR 1

Shipping container/cooler uncompromised?	☒ Yes	☐ No	
Number of coolers/boxes received	1		
Custody seals intact on shipping container/cooler?	☐ Yes	☐ No	☒ Not Present
Custody seals intact on sample bottles?	☐ Yes	☐ No	☒ Not Present
Chain of Custody (COC) present?	☒ Yes	☐ No	
COC agrees with sample label(s)?	☒ Yes	☐ No	
COC properly completed	☒ Yes	☐ No	
Samples in proper containers?	☒ Yes	☐ No	
Sample containers intact?	☒ Yes	☐ No	
Sufficient sample volume for indicated test(s)?	☒ Yes	☐ No	
All samples received within holding time?	☒ Yes	☐ No	
Cooler temperature in compliance?	☒ Yes	☐ No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	☒ Yes	☐ No	
Water - Sample containers properly preserved	☒ Yes	☐ No	☐ N/A
Water - VOA vials free of headspace	☐ Yes	☐ No	☒ N/A
Trip Blanks received with VOAs	☐ Yes	☐ No	☒ N/A
Soil VOA method 5035 – compliance criteria met	☐ Yes	☐ No	☒ N/A
☐ High concentration container (48 hr)	☐ Low concentration EnCore samplers (48 hr)		
☐ High concentration pre-weighed (methanol -14 d)	☐ Low conc pre-weighed vials (Sod Bis -14 d)		
Special precautions or instructions included?	☐ Yes	☒ No	

Comments:

Signature:

Christina R. Varuso

Date & Time:

05/09/2023 17:44:15



HYDRO-ENVIRONMENTAL TECH
Environmental Consul
P.O. Box 60295
Lafayette, LA 70596-C
Phone (337) 261-1963 FAX (337)

23-129-0031
09996
05-09-2023
17:42:45
Hydro-Environmental Technology, Inc.

23-129-0034
09996
05-09-2023
19:09:06
Hydro-Environmental Technology, Inc.
Gastel

SAMPLE CHAIN-OF-CUSTO

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB01 (0-2)	SO	5/2/2023 0938	No Split	No Split	4°C
SE-SB01 (2-4)	SO	5/2/2023 0940	No Split	No Split	4°C
SE-SB01 (4-6) 52532	SO	5/2/2023 0950	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*	4°C
SE-SB01 (6-8) 52533	SO	5/2/2023 0955	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*	4°C
SE-SB01 (8-10) 52534	SO	5/2/2023 1000	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*	4°C
SE-SB01 (10-12) 52535	SO	5/2/2023 1002	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*	4°C
SE-SB01 (12-14) 52536	SO	5/2/2023 1013	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (14-16) 52537	SO	5/2/2023 1015	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: D. Wall

Date/Time: 5/5/23 800

Received By: Ty Pds

Date/Time: 5/5/23 800

Relinquished By: Ty Pds

Date/Time: 5/5/23 1000

Received By: DB Coco

Date/Time: 5/5/23 @ 10:00

Analysis Due: Verbal:

Written:

Rel by: DB. Coco 5/8/23a

Recvd by: P. Howard

Page 1 of 15

Rel. by: P. Howard 5/8/23 9:40

Recd By: Kathleen 5/8/23 9:40

Chain of Custody Record Extension

Gastel

Hydro-Environmental

Page 01A of 15

Relinquished by: Print: Kathy Hendrix

Date: 05/08/23

Sign: Kathy Hendrix

Time: 1235

Received by: Print: [Signature]

Date: 5/08/23

Sign: Christopher Monfort

Time: 1235

Relinquished by: Print: Christopher Monfort

Date: 5/9/23

Sign: [Signature]

Time: 0800

Received by: Print: Christine Varuso

Date: 5-9-23

Sign: [Signature]

Time: 0800

Relinquished by: Print: _____

Date: _____

Sign: _____

Time: _____

Received by: Print: _____

Date: _____

Sign: _____

Time: _____

Relinquished by: Print: _____

Date: _____

Sign: _____

Time: _____

Received by: Print: _____

Date: _____

Sign: _____

Time: _____



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
Environmental Consultants
P.O. Box 60295
Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel **Laboratory:** Waypoint
Project Number: 1705.A37 **Collected By:** DCC
Project Location: Morse, La **Company:** Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB01 (16-18) 52538	SO	5/2/2023 1025	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (18-20) 52539	SO	5/2/2023 1027	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (20-22) 52540	SO	5/2/2023 1035	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (22-24) 52541	SO	5/2/2023 1037	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (24-26) 52542	SO	5/2/2023 1045	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (26-28) 52543	SO	5/2/2023 1047	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (28-30) 52544	SO	5/2/2023 1055	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (30-32) 52545	SO	5/2/2023 1057	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <i>[Signature]</i>	Received By: <i>[Signature]</i>
Date/Time: <i>5/5/23 800</i>	Date/Time: <i>5/5/23 800</i>
Relinquished By: <i>[Signature]</i>	Received By: <i>[Signature]</i>
Date/Time: <i>5/5/23 1000</i>	Date/Time: <i>5/5/23 @ 10:00</i>
Analysis Due: Verbal:	
Written:	

Rel. by: *D.B. Coco* 5/8/23 @ 7:30 Recd by: *P. Hawans* 5/8/23 7:30
 Rel. by: *P. Hawans* 5/8/23 9:40 Recd by: *Kathy Hendrix* 5/8/23 12:35
 Page 104 of 118

Chain of Custody Record Extension

Relinquished by: Print: _____

Date: _____

Sign: _____

Time: _____

Received by: Print: Christopher Monfort

Date: 5/08/23

Sign: [Signature]

Time: 1235

Relinquished by: Print: Christopher Monfort

Date: 5/9/23

Sign: [Signature]

Time: 0800

Received by: Print: Pristina Varuso

Date: 5-9-23

Sign: [Signature]

Time: 0800

Relinquished by: Print: _____

Date: _____

Sign: _____

Time: _____

Received by: Print: _____

Date: _____

Sign: _____

Time: _____

Relinquished by: Print: _____

Date: _____

Sign: _____

Time: _____

Received by: Print: _____

Date: _____

Sign: _____

Time: _____



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
Environmental Consultants
P.O. Box 60295
Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB01 (32-34) 52546	SO	5/2/2023 1105	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (34-35) 52547	SO	5/2/2023 1107	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (0-2) 52548	SO	5/2/2023 1455	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (2-4) 52549	SO	5/2/2023 1457	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (4-6) 52550	SO	5/2/2023 1505	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (6-8) 52551	SO	5/2/2023 1507	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (8-10) 52552	SO	5/2/2023 1515	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (10-12) 52553	SO	5/2/2023 1517	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <i>[Signature]</i>	Received By: <i>[Signature]</i>
Date/Time: <i>5/5/23 800</i>	Date/Time: <i>5/5/23 800</i>
Relinquished By: <i>[Signature]</i>	Received By: <i>[Signature]</i>
Date/Time: <i>5/5/23 1000</i>	Date/Time: <i>5/5/23 @ 10:00</i>
Analysis Due: Verbal: _____ Written: _____	

Rec'd By: 5/9/23 0800

Rel. by: DB Coco 5/8/23 @ 7:30 Rec'd by P. Howard 5/8/23 7:30
Rel'd By: Kathy Hendrix 05/08/23 0940
Reling By: Kathy Hendrix 05/08/23 1235
Reling By: *[Signature]* 5/9/23 0800



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P.O. Box 60295
Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel **Laboratory:** Waypoint
Project Number: 1705.A37 **Collected By:** DCC
Project Location: Morse, La **Company:** Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB02 (12-14) 52554	SO	5/2/2023 1520	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (14-16) 52555	SO	5/2/2023 1522	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (16-18) 52556	SO	5/2/2023 1530	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (18-20) 52557	SO	5/2/2023 1532	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (20-22) 52558	SO	5/2/2023 1540	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (22-24) 52559	SO	5/2/2023 1542	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (24-26) 52560	SO	5/2/2023 1545	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB03 (0-2) 52561	SO	5/3/2023 0958	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <i>[Signature]</i>	Received By: <i>[Signature]</i>
Date/Time: 5/5/23 800	Date/Time: 5/5/23 800
Relinquished By: <i>[Signature]</i>	Received By: <i>[Signature]</i>
Date/Time: 5/5/23 1000	Date/Time: 5/5/23 @ 10:00
Analysis Due: Verbal:	
Written:	

Rel by: DB Coco 5/8/23 @ 7:30
 Rec'd by: P. Neward 5/8/23 7:30
 Rel by: P. Neward 5/8/23 9:40
 Rec'd by: Kathy Hendrix 5/8/23 0940
 Rel by: Kathy Hendrix 5/8/23 1255
 Rec'd by: *[Signature]* 5/9/23 0800
 Rel by: *[Signature]* 5/9/23 0800



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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB03 (2-4) 52562	SO	5/3/2023 1000	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB03 (4-6) 52563	SO	5/3/2023 1005	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB03 (6-8) 52564	SO	5/3/2023 1007	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB03 (8-10) 52565	SO	5/3/2023 1015	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB03 (10-12) 52566	SO	5/3/2023 1017	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB03 (12-14) 52567	SO	5/3/2023 1025	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB03 (14-16) 52568	SO	5/3/2023 1027	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB03 (16-18) 52569	SO	5/3/2023 1035	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 800</u>	Date/Time: <u>5/5/23 800</u>
Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 1000</u>	Date/Time: <u>5/5/23 @ 10:00</u>
Analysis Due: Verbal:	Written:

Rel by: DB. Coco 5/8/23 @ 7:30 Rec'd by: P. Howard 5/8/23 7:30
Rel by: P. Howard 5/8/23 9:40 Rec'd by: Kathy Hendrix 5/8/23 1235
Rel by: [Signature] 5/8/23 Rec'd by: [Signature] 5/9/23 0800



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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB03 (18-20) 52570	SO	5/3/2023 1037	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (0-2) 52571	SO	5/3/2023 1255	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (2-4) 52572	SO	5/3/2023 1257	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (4-6) 52573	SO	5/3/2023 1305	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (6-8) 52574	SO	5/3/2023 1307	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (8-10) 52575	SO	5/3/2023 1315	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (10-12) 52576	SO	5/3/2023 1317	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (12-14) 52577	SO	5/3/2023 1320	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 800</u>	Date/Time: <u>5/5/23 800</u>
Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 1000</u>	Date/Time: <u>5/5/23 @ 10:00</u>
Analysis Due: Verbal:	Written:

Rel. by: DR. Coco 5/8/23 @ 7:30
Rel. by: P. Howard 5/8/23 9:40

Rec'd by: P. Howard 5/8/23 7:30
Rec'd By: Kody Hendrix 05/08/23 0940
Relinquished By: Kody Hendrix 05/08/23 1235
Rec'd By: [Signature] 5/8/23 1235
Relinquished By: [Signature] 5/9/23 0800



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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB04 (14-16) 52578	SO	5/3/2023 1322	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (16-18) 52579	SO	5/3/2023 1335	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (18-20) 52580	SO	5/3/2023 1337	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (20-22) 52581	SO	5/3/2023 1345	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (22-24) 52582	SO	5/3/2023 1347	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB05 (0-2) 52583	SO	5/3/2023 1450	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB05 (2-4) 52584	SO	5/3/2023 1452	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB05 (4-6) 52585	SO	5/3/2023 1458	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 800</u>	Date/Time: <u>5/5/23 800</u>
Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 1000</u>	Date/Time: <u>5/5/23 @ 10:00</u>
Analysis Due: Verbal:	Written:

Rec'd By: [Signature] 5/6/23 0800

Rel. by: DB Coco 5/8/23 @ 7:30 Rec'd by: P. Howard 5/8/23 7:30
Rel. by: P. Howard 5/8/23 9:40 Rec'd by: Kathy Mendrix 5/8/23 0940
Rel. by: [Signature] 5/8/23 1235 Rec'd by: Kathy Mendrix 5/8/23 1235
Rel. by: [Signature] 5/9/23 0800 Rec'd by: [Signature] 5/9/23 0800



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P.O. Box 60295
Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB05 (6-8) 52586	SO	5/3/2023 1500	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB05 (8-10) 52587	SO	5/3/2023 1505	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB05 (10-12) 52588	SO	5/3/2023 1507	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB05 (12-14) 52589	SO	5/3/2023 1510	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB05 (14-16) 52590	SO	5/3/2023 1512	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB05 (16-18) 52591	SO	5/3/2023 1530	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB05 (18-20) 52592	SO	5/3/2023 1532	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB05 (20-22) 52593	SO	5/3/2023 1545	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 800</u>	Date/Time: <u>5/5/23 800</u>
Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 1000</u>	Date/Time: <u>5/5/23 210:00</u>
Analysis Due: Verbal:	Written:

Rel. by: DB.Coco 5/8/23 @ 7:30 Rec'd by: P. Howard 5/8/23 7:30
Rel. by: P. Howard 5/8/23 9:40 Rec'd by: Kathy Hendrix 5/8/23 0940
Relinquish By: Kathy Hendrix 5/8/23 1235
Rec'd by: 5/8/23 1235
Relinquish by: 5/9/23 0800



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Lafayette, LA 70596-0295
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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB05 (22-24) 52594	SO	5/3/2023 1547	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB06 (0-2) 52595	SO	5/4/2023 0940	2 x encore 1 x 4oz 16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*, EPH, VPH, Oil&Grease	4°C HOLD: PAH
SE-SB06 (2-4) 52596	SO	5/4/2023 0942	2 x encore 1 x 4oz 16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*, EPH, VPH, Oil&Grease	4°C HOLD: PAH
SE-SB06 (4-6) 52597	SO	5/4/2023 0955	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*	4°C
SE-SB06 (6-8) 52598	SO	5/4/2023 0957	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*	4°C
SE-SB06 (8-10) 52600 52599	SO	5/4/2023 1005	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*	4°C
SE-SB06 (10-12) 52601 52600	SO	5/4/2023 1007	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*	4°C
SE-SB06 (12-14) 52602 52601	SO	5/4/2023 1015	2 x encore 1 x 4oz 16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*, EPH, VPH, Oil&Grease	4°C HOLD: PAH

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 800</u>	Date/Time: <u>5/5/23 800</u>
Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 1000</u>	Date/Time: <u>5/5/23 @ 10:00</u>
Analysis Due: Verbal:	Written:

Relinquish: DB. Coco 5/8/23 @ 7:30
Relinquish: P. Hanover 5/8/23 9:40
Received by: P. Hanover 5/8/23 7:30
Received by: Kathy Hendrix 5/8/23 0940
Received by: Kathy Hendrix 5/8/23 1235
Received by: [Signature] 5/8/23 1235
Received by: [Signature] 5/9/23 0800



Project Name:	Gastel	Laboratory:	Waypoint
Project Number:	1705.A37	Collected By:	DCC
Project Location:	Morse, La	Company:	Hydro-Environmental Technology, Inc.
		Date:	5/2/2023

Rel by: DB Coco 5/8/23 @ 7:30 Rec'd by: P. Haines 5/8/23 7:30
Rel by: P. Haines 5/8/23 9:40 Rec'd by: Kathy DenDix 05/08/23 0940
Rel by: Kathy DenDix 05/08/23 Page 10 of 15
Rec'd by: 5/08/23 1235
Rel by: 5/9/23 0800



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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB07 (2-4) 52610	SO	5/4/2023 1232	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB07 (4-6) 52612.1	SO	5/4/2023 1240	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB07 (6-8) 526182	SO	5/4/2023 1242	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB07 (8-10) 526183	SO	5/4/2023 1245	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB07 (10-12) 526154	SO	5/4/2023 1247	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB07 (12-14) 526185	SO	5/4/2023 1250	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB07 (14-16) 526186	SO	5/4/2023 1252	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB07 (16-18) 526187	SO	5/4/2023 1255	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 800</u>	Date/Time: <u>5/5/23 800</u>
Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 1000</u>	Date/Time: <u>5/5/23 @ 10:00</u>
Analysis Due: Verbal:	Written:

Rel by: DB Coco 5/8/23 @ 7:30
Rel. by: P. Howard 5/8/23 9:40
Rec'd by: Kathy Hendrix 5/8/23 0940
Reling by: Kathy Hendrix 5/8/23 1235
Rec'd by: [Signature] 5/8/23 1235
Reling by: [Signature] 5/9/23 0800



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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB08 (10-12) 52626	SO	5/4/2023 1402	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB08 (12-14) 52627	SO	5/4/2023 1405	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB08 (14-16) 52628	SO	5/4/2023 1407	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB08 (16-18) 52629	SO	5/4/2023 1415	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB08 (18-20) 52630	SO	5/4/2023 1417	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB08 (20-22) 52631	SO	5/4/2023 1425	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB08 (22-24) 52632	SO	5/4/2023 1427	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (0-2) 52633	SO	5/4/2023 1505	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 800</u>	Date/Time: <u>5/5/23 800</u>
Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 1000</u>	Date/Time: <u>5/5/23 210:00</u>
Analysis Due: Verbal:	Written:

Rel by: DB Coco 5/8/23 @ 7:30 Recvd by: P. Howard 5/8/23 7:30
Rel by: P. Howard 5/8/23 9:40 Recd by: P. Howard 5/8/23 9:40
Rel by: P. Howard 5/8/23 12:35 Recd by: P. Howard 5/8/23 12:35
Rel by: P. Howard 5/9/23 0800 Recd by: P. Howard 5/9/23 0800



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
Environmental Consultants
P.O. Box 60295
Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB09 (2-4) 52634	SO	5/4/2023 1507	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (4-6) 52635	SO	5/4/2023 1515	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (6-8) 52636	SO	5/4/2023 1517	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (8-10) 52637	SO	5/4/2023 1520	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (10-12) 52638	SO	5/4/2023 1522	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (12-14) 52639	SO	5/4/2023 1530	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (14-16) 52640	SO	5/4/2023 1532	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (16-18) 52641	SO	5/4/2023 1540	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: *[Signature]*

Date/Time: 5/5/23 800

Received By: *[Signature]*

Date/Time: 5/5/23 800

Relinquished By: *[Signature]*
Date/Time: 5/5/23 1000

Received By: *[Signature]*
Date/Time: 5/5/23 @ 10:00

Analysis Due: Verbal:

Written:

Rel by: DB Coco 5/8/23 @ 17:30 Recd by: P. Howard 5/8/23 7:30
Rel. by: P. Howard 5/8/23 9:40 Recd by: Kathy Hendrix 5/8/23 0940
Rel. by: Kathy Hendrix 5/8/23 1235
Rel. by: *[Signature]* 5/9/23 0800



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
Environmental Consultants
P.O. Box 60295
Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB09 (18-20) 52642	SO	5/4/2023 1542	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (20-22) 52643	SO	5/4/2023 1550	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (22-24) 52644	SO	5/4/2023 1552	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (24-26) 52645	SO	5/4/2023 1610	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
TRIP BLANK 52646	water	5/4/2023 0730	3 X 40ml (HCL)	VPH	4°C
FIELD BLANK 52647	water	5/4/2023 0800	3 X 40ml (HCL)	VPH	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 800</u>	Date/Time: <u>5/5/23 800</u>
Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 1000</u>	Date/Time: <u>5/5/23 @ 10:01</u>
Analysis Due: Verbal:	Written:

Rel by: DB Coco 5/8/23 @ 7:30 Recvd by: P. Howard 5/8/23 7:30
Rel by: P. Howard 5/8/23 9:40 Recvd by: Kathy Hendrix 5/8/23 0940
Rel by: [Signature] Recvd by: [Signature] 5/9/23 0800
Rel by: [Signature] Recvd by: [Signature] 5/9/23 0800

6/21/2023

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA, 70583

Ref: Report Number: 23-129-0034
Project Description: Gastel
Project Number: 1705.A37
Morse, La

Dear Mr. Stewart Stover, Jr.:

Waypoint Analytical Louisiana, Inc. received sample(s) on 5/9/2023 for the analyses presented in the following report. The above referenced project has been analyzed per your instructions. Unless otherwise noted, the analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance. Analyses reported which indicate "Field" for these parameters were analyzed by the client in the field. Results for solid samples are reported on an as received or "wet weight" basis unless otherwise specified.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

All quality control measures undertaken in accordance with Waypoint Analytical Louisiana, Inc. CompQAP990807A and revisions under the terms of the Louisiana Environmental Laboratory Accreditation Program (Certificate #02041) are within acceptance ranges established in that document with the exception of the items indicated and/or discussed in a Case Narrative.

The results are shown on the attached analysis sheet(s). Be aware that the time analyzed for certain samples (e.g. - BOD, CBOD, etc.) refer to the time the sample batch was begun and not necessarily to the time an individual sample was begun. Thank you for allowing Waypoint Analytical Louisiana, Inc. to serve you. Should I be of further assistance, if you have any questions or need additional information please contact me or client services.

Sincerely,



Amy Jackson
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis. This report may be reproduced in full only with the written permission of the laboratory and/or the entity to which it is addressed. Results contained herein relate only to the sample(s) submitted to the laboratory.



Certification Summary

Laboratory ID: WP MLA: Waypoint Analytical Louisiana, Inc., Marrero, LA

State	Program	Lab ID	Expiration Date
Georgia	State Program	02041	06/30/2025
Louisiana	State Program - NELAP	02041	06/30/2025

Laboratory ID: WP MTN: Waypoint Analytical, LLC., Memphis, TN

State	Program	Lab ID	Expiration Date
Alabama	State Program	40750	02/28/2025
Arkansas	State Program	88-0650	02/07/2025
California	State Program	2904	06/30/2025
Florida	State Program - NELAP	E871157	06/30/2025
Georgia	State Program	C044	11/14/2025
Georgia	State Program	04015	06/30/2024
Illinois	State Program - NELAP	200078	10/31/2025
Kentucky	State Program	90047	12/31/2024
Kentucky	State Program	80215	06/30/2025
Kentucky	State Program	KY90047	12/31/2024
Louisiana	State Program - NELAP	LA037	12/31/2024
Louisiana	State Program - NELAP	04015	06/30/2025
Mississippi	State Program	MS	11/14/2025
North Carolina	State Program	47701	07/31/2025
North Carolina	State Program	415	12/31/2024
Pennsylvania	State Program - NELAP	68-03195	05/31/2025
South Carolina	State Program	84002	06/30/2025
Tennessee	State Program	02027	11/14/2025
Texas	State Program - NELAP	T104704180	09/30/2025
Virginia	State Program	00106	06/30/2025
Virginia	State Program - NELAP	460181	09/14/2025

Laboratory ID: WP RMS: Waypoint Analytical Mississippi, Inc., Ridgeland, MS

State	Program	Lab ID	Expiration Date
Arkansas	State Program	88-1409	02/01/2025
Kentucky	State Program	KY98013	12/31/2024
Louisiana	State Program - NELAP	04023	06/30/2025

Sample Summary Table

Report Number: 23-129-9034
Client Project Description: Gastel
Project Number: 1705.A37
Morse, La

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
52590	SE-SB05 (14-16)	Solids	05/03/2023 15:12	05/09/2023		
52591	SE-SB05 (16-18)	Solids	05/03/2023 15:30	05/09/2023		
52592	SE-SB05 (18-20)	Solids	05/03/2023 15:32	05/09/2023		
52593	SE-SB05 (20-22)	Solids	05/03/2023 15:45	05/09/2023		
52594	SE-SB05 (22-24)	Solids	05/03/2023 15:47	05/09/2023		
52595	SE-SB06 (0-2)	Solids	05/04/2023 09:40	05/09/2023		
52595	SE-SB06 (0-2)	Solids	05/04/2023 09:40	05/09/2023	MAEPH LA	WP RMS
52595	SE-SB06 (0-2)	Solids	05/04/2023 09:40	05/09/2023	8270D SIM	WP RMS
52596	SE-SB06 (2-4)	Solids	05/04/2023 09:42	05/09/2023		
52596	SE-SB06 (2-4)	Solids	05/04/2023 09:42	05/09/2023	8270D SIM	WP RMS
52596	SE-SB06 (2-4)	Solids	05/04/2023 09:42	05/09/2023	MAEPH LA	WP RMS
52596	SE-SB06 (2-4)	Solids	05/04/2023 09:42	05/09/2023	MAVPH LA	WP RMS
52597	SE-SB06 (4-6)	Solids	05/04/2023 09:55	05/09/2023		
52598	SE-SB06 (6-8)	Solids	05/04/2023 09:57	05/09/2023		
52599	SE-SB06 (8-10)	Solids	05/04/2023 10:05	05/09/2023		
52600	SE-SB06 (10-12)	Solids	05/04/2023 10:07	05/09/2023		
52601	SE-SB06 (12-14)	Solids	05/04/2023 10:15	05/09/2023		
52601	SE-SB06 (12-14)	Solids	05/04/2023 10:15	05/09/2023	8270D SIM	WP RMS
52601	SE-SB06 (12-14)	Solids	05/04/2023 10:15	05/09/2023	MAVPH LA	WP RMS
52601	SE-SB06 (12-14)	Solids	05/04/2023 10:15	05/09/2023	MAEPH LA	WP RMS
52602	SE-SB06 (14-16)	Solids	05/04/2023 10:17	05/09/2023		
52602	SE-SB06 (14-16)	Solids	05/04/2023 10:17	05/09/2023	8270D SIM	WP RMS
52602	SE-SB06 (14-16)	Solids	05/04/2023 10:17	05/09/2023	MAVPH LA	WP RMS
52602	SE-SB06 (14-16)	Solids	05/04/2023 10:17	05/09/2023	MAEPH LA	WP RMS
52603	SE-SB06 (16-18)	Solids	05/04/2023 10:30	05/09/2023		
52604	SE-SB06 (18-20)	Solids	05/04/2023 10:32	05/09/2023		

WP MTN - Memphis, TN: Waypoint Analytical - TN, Memphis, TN

WP RMS - Ridgeland, MS: Waypoint Analytical - Mississippi, Inc., Ridgeland, MS

Sample Summary Table

Report Number: 23-129-9034
Client Project Description: Gastel
Project Number: 1705.A37
Morse, La

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
52605	SE-SB06 (20-22)	Solids	05/04/2023 10:45	05/09/2023		
52606	SE-SB06 (22-24)	Solids	05/04/2023 10:47	05/09/2023		
52607	SE-SB06 (24-26)	Solids	05/04/2023 10:55	05/09/2023		
52608	SE-SB06 (26-27)	Solids	05/04/2023 10:57	05/09/2023		
52609	SE-SB07 (0-2)	Solids	05/04/2023 12:30	05/09/2023		
52610	SE-SB07 (2-4)	Solids	05/04/2023 12:32	05/09/2023		
52611	SE-SB07 (4-6)	Solids	05/04/2023 12:40	05/09/2023		
52612	SE-SB07 (6-8)	Solids	05/04/2023 12:42	05/09/2023		
52613	SE-SB07 (8-10)	Solids	05/04/2023 12:45	05/09/2023		
52614	SE-SB07 (10-12)	Solids	05/04/2023 12:47	05/09/2023		
52615	SE-SB07 (12-14)	Solids	05/04/2023 12:50	05/09/2023		
52616	SE-SB07 (14-16)	Solids	05/04/2023 12:52	05/09/2023		
52617	SE-SB07 (16-18)	Solids	05/04/2023 12:55	05/09/2023		
52618	SE-SB07 (18-20)	Solids	05/04/2023 01:57	05/09/2023		
52619	SE-SB07 (20-22)	Solids	05/04/2023 13:10	05/09/2023		
52620	SE-SB07 (22-23)	Solids	05/04/2023 13:12	05/09/2023		
52621	SE-SB08 (0-2)	Solids	05/04/2023 13:45	05/09/2023		
52622	SE-SB08 (2-4)	Solids	05/04/2023 13:47	05/09/2023		
52623	SE-SB08 (4-6)	Solids	05/04/2023 13:50	05/09/2023		
52624	SE-SB08 (6-8)	Solids	05/04/2023 13:52	05/09/2023		
52625	SE-SB08 (8-10)	Solids	05/04/2023 14:00	05/09/2023		
52626	SE-SB08 (10-12)	Solids	05/04/2023 14:02	05/09/2023		
52627	SE-SB08 (12-14)	Solids	05/04/2023 14:05	05/09/2023		
52628	SE-SB08 (14-16)	Solids	05/04/2023 14:07	05/09/2023		
52629	SE-SB08 (16-18)	Solids	05/04/2023 14:15	05/09/2023		
52630	SE-SB08 (18-20)	Solids	05/04/2023 14:17	05/09/2023		

WP MTN - Memphis, TN: Waypoint Analytical - TN, Memphis, TN

WP RMS - Ridgeland, MS: Waypoint Analytical - Mississippi, Inc., Ridgeland, MS

Sample Summary Table

Report Number: 23-129-9034
Client Project Description: Gastel
Project Number: 1705.A37
Morse, La

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
52631	SE-SB08 (20-22)	Solids	05/04/2023 14:25	05/09/2023		
52632	SE-SB08 (22-24)	Solids	05/04/2023 14:27	05/09/2023		
52633	SE-SB09 (0-2)	Solids	05/04/2023 15:05	05/09/2023		
52634	SE-SB09 (2-4)	Solids	05/04/2023 15:07	05/09/2023		
52635	SE-SB09 (4-6)	Solids	05/04/2023 15:15	05/09/2023		
52636	SE-SB09 (6-8)	Solids	05/04/2023 15:17	05/09/2023		
52637	SE-SB09 (8-10)	Solids	05/04/2023 15:20	05/09/2023		
52638	SE-SB09 (10-12)	Solids	05/04/2023 15:22	05/09/2023		
52639	SE-SB09 (12-14)	Solids	05/04/2023 15:30	05/09/2023		
52640	SE-SB09 (14-16)	Solids	05/04/2023 15:32	05/09/2023		
52641	SE-SB09 (16-18)	Solids	05/04/2023 15:40	05/09/2023		
52642	SE-SB09 (18-20)	Solids	05/04/2023 15:42	05/09/2023		
52643	SE-SB09 (20-22)	Solids	05/04/2023 15:50	05/09/2023		
52644	SE-SB09 (22-24)	Solids	05/04/2023 15:52	05/09/2023		
52645	SE-SB09 (24-26)	Solids	05/04/2023 16:10	05/09/2023		
52646	TRIP BLANK	Aqueous	05/04/2023 07:30	05/09/2023	MAVPH LA	WP RMS
52647	FIELD BLANK	Aqueous	05/04/2023 08:00	05/09/2023	MAVPH LA	WP RMS
54920	SE-SB06 (12-14)	TCLP	05/04/2023 10:15	05/09/2023	9056	WP MTN
54920	SE-SB06 (12-14)	TCLP	05/04/2023 10:15	05/09/2023	6010D	WP MTN
54920	SE-SB06 (12-14)	TCLP	05/04/2023 10:15	05/09/2023	1312	WP MTN
54921	SE-SB06 (26-27)	TCLP	05/04/2023 10:57	05/09/2023	9056	WP MTN
54921	SE-SB06 (26-27)	TCLP	05/04/2023 10:57	05/09/2023	6010D	WP MTN
54921	SE-SB06 (26-27)	TCLP	05/04/2023 10:57	05/09/2023	1312	WP MTN

WP MTN - Memphis, TN: Waypoint Analytical - TN, Memphis, TN

WP RMS - Ridgeland, MS: Waypoint Analytical - Mississippi, Inc., Ridgeland, MS



Client: Hydro-Environmental Technology, Inc.
Project: Gastel
Lab Report Number: 23-129-0034
Date: 6/21/2023

CASE NARRATIVE

This report was revised on 11/13/24 to include PAH data for samples

SE-SB06 (0-2)
SE-SB06 (2-4)
SE-SB06 (12-14)
SE-SB06 (14-16)

Methods

Methods reported as 29B are from the Laboratory Procedures for Analysis of Exploration & Production Waste – LDNR Office of Conservation Injection and Mining Division – Revised 11/2011.

Results

- 6010D/7471A metals are reported AR - As Received by adjusting the data using the percent moisture result.
- True Total Barium results are reported dry weight
- Oil & Grease results reported dry weight
- TX1006 results are reported as received
- VPH/EPH results reported as received
- PAH results reported as received

Metals Analysis Method 6010D

Sample 52595 (SE-SB06 (0-2))

Analyte: Barium

QC Batch No: A82649/A82559/A82377

The matrix spike and/or the matrix spike duplicate was outside quality control acceptance ranges. A dilution test was performed and passed quality control acceptance ranges. No matrix interference is suspected.

Sample 52595 (SE-SB06 (0-2))

Analyte: Lead

QC Batch No: A82649/A82559/A82377

The matrix spike and/or the matrix spike duplicate was outside quality control acceptance ranges. A post digestion spike was performed and passed quality control acceptance ranges. No matrix interference is suspected.

Sample 52595 (SE-SB06 (0-2))

Analyte: Selenium

QC Batch No: A82649/A82559/A82377

The matrix spike and/or the matrix spike duplicate was outside quality control acceptance ranges. A post digestion spike was performed and passed quality control acceptance ranges. No matrix interference is suspected.

Metals Analysis (SPLP) Method 6010D

Sample 95463 (Waste Powder)

Analyte: Sodium

QC Batch No: L688836/L688382

The matrix spike and/or the matrix spike duplicate was outside quality control acceptance ranges. A dilution test was performed and passed quality control acceptance ranges. No matrix interference is suspected.

Semivolatile Organic Compounds - GC/MS (SIM) Method 8270D SIM

Sample 52595 (SE-SB06 (0-2))

QC Batch No: G180986/G180832

Surrogate(s) was flagged for recovery outside QC limits in this project sample. This sample was re-analyzed for verification, and/or dilution of target analytes. Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.

Sample 52596 (SE-SB06 (2-4))

QC Batch No: G180986/G180832

Surrogate(s) was flagged for recovery outside QC limits in this project sample. This sample was re-analyzed for verification, and/or dilution of target analytes. Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.

Sample 52601 (SE-SB06 (12-14))

QC Batch No: G180986/G180832

Surrogate(s) was flagged for recovery outside QC limits in this project sample. This sample was re-analyzed for verification, and/or dilution of target analytes. Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.

Sample 52602 (SE-SB06 (14-16))

QC Batch No: G180986/G180832

Surrogate(s) was flagged for recovery outside QC limits in this project sample. This sample was re-analyzed for verification, and/or dilution of target analytes. Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.

Anions by Ion Chromatography Method 9056

Sample 52584

Analyte: Chloride

QC Batch No: A82776/A82391

The MS/MSD recoveries are outside QC limits due to the level of analyte present in the parent sample relative to the spike level. RPD is based on the MS/MSD results and should be evaluated as laboratory duplicates.

Sample 52603 (SE-SB06 (16-18))

Analyte: Chloride

QC Batch No: A82917/A82392

Matrix spike/matrix spike duplicate recoveries are outside of control limits. Acceptable LCS recovery indicates the system was in control, but the reported result could be affected by matrix interference.

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023

Revised Report Date: 11/13/2024

Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52590**

Matrix: **Solids**

Sample ID : **SE-SB05 (14-16)**

Sampled: **5/3/2023 15:12**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	23.2	%		1	05/17/23 14:05	BXH	SW-DRYWT
% Saturation (Sat Paste)	59.3	%		1	05/22/23 10:05	JMB	29B
Alkalinity (Sat Paste)	0.1	meq/L		1	05/26/23 09:24	BMB	29B
Chloride (Sat Paste)	188	meq/L	0.028	100	05/25/23 22:53	MJM	29B
Chloride	3180	mg/Kg	40.0	10	05/31/23 20:11	MJM	9056
Electrical Conductivity (Sat Paste)	17.7	mmhos/cm		1	05/22/23 10:05	JMB	29B
pH (Sat Paste)	6.07	s.u.		1	05/22/23 10:05	JMB	29B
Sulfate (Sat Paste)	0.126	meq/L	0.020	100	05/25/23 22:53	MJM	29B
Calcium (Sat Paste)	68.8	meq/L	0.250	50	05/24/23 10:24	APB	29B
Magnesium (Sat Paste)	32.5	meq/L	0.410	50	05/24/23 10:24	APB	29B
Sodium (Sat Paste)	83.3	meq/L	1.05	50	05/24/23 10:24	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel
Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023
Revised Report Date: 11/13/2024
Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52591**

Matrix: **Solids**

Sample ID : **SE-SB05 (16-18)**

Sampled: **5/3/2023 15:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	25.2	%		1	05/17/23 14:05	BXH	SW-DRYWT
% Saturation (Sat Paste)	122	%		1	05/22/23 10:05	JMB	29B
Alkalinity (Sat Paste)	1.2	meq/L		1	05/26/23 09:24	BMB	29B
Chloride (Sat Paste)	31.4	meq/L	0.010	20	05/25/23 23:06	MJM	29B
Chloride	1360	mg/Kg	8.00	2	05/31/23 20:23	MJM	9056
Electrical Conductivity (Sat Paste)	3.41	mmhos/cm		1	05/22/23 10:05	JMB	29B
pH (Sat Paste)	7.90	s.u.		1	05/22/23 10:05	JMB	29B
Sulfate (Sat Paste)	0.188	meq/L	0.010	20	05/25/23 23:06	MJM	29B
Calcium (Sat Paste)	16.6	meq/L	0.100	20	05/24/23 10:28	APB	29B
Magnesium (Sat Paste)	7.00	meq/L	0.164	20	05/24/23 10:28	APB	29B
Sodium (Sat Paste)	7.90	meq/L	0.420	20	05/24/23 10:28	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel
Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023
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Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52592**

Matrix: **Solids**

Sample ID : **SE-SB05 (18-20)**

Sampled: **5/3/2023 15:32**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	25.3	%		1	05/17/23 14:05	BXH	SW-DRYWT
% Saturation (Sat Paste)	113	%		1	05/25/23 09:55	BMB	29B
Alkalinity (Sat Paste)	1.6	meq/L		1	05/26/23 11:05	BMB	29B
Chloride (Sat Paste)	6.40	meq/L	0.010	5	05/26/23 13:31	MJM	29B
Chloride	137	mg/Kg	4.00	1	05/31/23 20:35	MJM	9056
Electrical Conductivity (Sat Paste)	0.900	mmhos/cm		1	05/25/23 09:55	BMB	29B
pH (Sat Paste)	7.90	s.u.		1	05/25/23 09:55	BMB	29B
Sulfate (Sat Paste)	0.274	meq/L	0.010	5	05/26/23 13:31	MJM	29B
Calcium (Sat Paste)	3.47	meq/L	0.050	10	05/26/23 10:52	APB	29B
Magnesium (Sat Paste)	1.42	meq/L	0.082	10	05/26/23 10:52	APB	29B
Sodium (Sat Paste)	3.33	meq/L	0.210	10	05/26/23 10:52	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
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Scott, LA 70583

Project Gastel
Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023
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Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52593**

Matrix: **Solids**

Sample ID : **SE-SB05 (20-22)**

Sampled: **5/3/2023 15:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	16.2	%		1	05/17/23 14:05	BXH	SW-DRYWT
% Saturation (Sat Paste)	78.1	%		1	05/25/23 09:55	BMB	29B
Alkalinity (Sat Paste)	1.2	meq/L		1	05/26/23 11:05	BMB	29B
Chloride (Sat Paste)	19.9	meq/L	0.010	10	05/26/23 13:44	MJM	29B
Chloride	381	mg/Kg	4.00	1	05/31/23 20:48	MJM	9056
Electrical Conductivity (Sat Paste)	2.28	mmhos/cm		1	05/25/23 09:55	BMB	29B
pH (Sat Paste)	7.79	s.u.		1	05/25/23 09:55	BMB	29B
Sulfate (Sat Paste)	0.151	meq/L	0.010	10	05/26/23 13:44	MJM	29B
Calcium (Sat Paste)	10.3	meq/L	0.050	10	05/26/23 10:56	APB	29B
Magnesium (Sat Paste)	4.43	meq/L	0.082	10	05/26/23 10:56	APB	29B
Sodium (Sat Paste)	5.57	meq/L	0.210	10	05/26/23 10:56	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023

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Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52594**

Matrix: **Solids**

Sample ID : **SE-SB05 (22-24)**

Sampled: **5/3/2023 15:47**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	13.0	%		1	05/17/23 14:05	BXH	SW-DRYWT
% Saturation (Sat Paste)	57.5	%		1	05/25/23 09:55	BMB	29B
Alkalinity (Sat Paste)	1.2	meq/L		1	05/26/23 11:05	BMB	29B
Chloride (Sat Paste)	23.4	meq/L	0.010	10	05/26/23 13:57	MJM	29B
Chloride	197	mg/Kg	4.00	1	05/31/23 21:00	MJM	9056
Electrical Conductivity (Sat Paste)	2.69	mmhos/cm		1	05/25/23 09:55	BMB	29B
pH (Sat Paste)	7.88	s.u.		1	05/25/23 09:55	BMB	29B
Sulfate (Sat Paste)	0.184	meq/L	0.010	10	05/26/23 13:57	MJM	29B
Calcium (Sat Paste)	13.2	meq/L	0.050	10	05/26/23 11:13	APB	29B
Magnesium (Sat Paste)	4.87	meq/L	0.082	10	05/26/23 11:13	APB	29B
Sodium (Sat Paste)	6.35	meq/L	0.210	10	05/26/23 11:13	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel
Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023
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Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52595**

Matrix: **Solids**

Sample ID : **SE-SB06 (0-2)**

Sampled: **5/4/2023 9:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	17.2	%		1	05/10/23 16:27	JMB	SW-DRYWT
% Saturation (Sat Paste)	91.6	%		1	05/25/23 09:55	BMB	29B
Alkalinity (Sat Paste)	0.8	meq/L		1	05/26/23 11:05	BMB	29B
Chloride (Sat Paste)	129	meq/L	0.014	50	05/26/23 14:10	MJM	29B
Chloride	2160	mg/Kg	20.0	5	05/31/23 21:12	MJM	9056
Electrical Conductivity (Sat Paste)	13.6	mmhos/cm		1	05/25/23 09:55	BMB	29B
pH (Sat Paste)	7.30	s.u.		1	05/25/23 09:55	BMB	29B
Sulfate (Sat Paste)	1.30	meq/L	0.010	50	05/26/23 14:10	MJM	29B
Cation Exchange Capacity	10.0	meq/100g	0.100	20	05/30/23 10:07		29B
Exchangeable Sodium Percentage	27.6	%	0.1	100	06/02/23 13:05	APB	CALCULATION
Sodium Adsorption Ratio (Sat Paste)	112	Calc	0.100	20	05/26/23 11:17		29B
Calcium (Sat Paste)	2.12	meq/L	0.100	20	05/26/23 11:17	APB	29B
Magnesium (Sat Paste)	0.415	meq/L	0.164	20	05/26/23 11:17	APB	29B
Sodium (Sat Paste)	126	meq/L	0.420	20	05/26/23 11:17	APB	29B
Oil & Grease	<0.10	%	0.10	1	05/09/23 16:27	JMB	29B
Total Arsenic	4.80	mg/Kg AR	1.00	1	05/22/23 14:17	APB	6010D
Total Barium	68.7	mg/Kg AR	0.500	1	05/22/23 14:17	APB	6010D
True Total Barium	127	mg/Kg	50.0	1	05/22/23 12:58	APB	29B
Total Cadmium	1.05	mg/Kg AR	0.100	1	05/22/23 14:17	APB	6010D
Total Chromium	21.1	mg/Kg AR	0.250	1	05/22/23 14:17	APB	6010D
Total Lead	13.3	mg/Kg AR	0.300	1	05/22/23 14:17	APB	6010D
Mercury (Total)	0.0172	mg/Kg AR	0.0160	1	05/23/23 18:08	BMB	7471A
Total Selenium	<0.500	mg/Kg AR	0.500	1	05/22/23 14:17	APB	6010D

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel
Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023
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Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52595**

Matrix: **Solids**

Sample ID : **SE-SB06 (0-2)**

Sampled: **5/4/2023 9:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Silver	<0.250	mg/Kg AR	0.250	1	05/22/23 14:17	APB	6010D
Total Zinc	15.8	mg/Kg AR	1.25	1	05/22/23 14:17	APB	6010D

Analytical Method: 8270D SIM

Prep Batch(es): **G180832** 05/16/23 13:00

Prep Method: 3546

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<0.000660	mg/Kg	0.000660	1	05/19/23 05:38	WMS	G180832
Acenaphthylene	<0.000660	mg/Kg	0.000660	1	05/19/23 05:38	WMS	G180832
Anthracene	<0.000660	mg/Kg	0.000660	1	05/19/23 05:38	WMS	G180832
Benzo(a)anthracene	<0.000660	mg/Kg	0.000660	1	05/19/23 05:38	WMS	G180832
Benzo(a)pyrene	<0.000660	mg/Kg	0.000660	1	05/19/23 05:38	WMS	G180832
Benzo(b)fluoranthene	<0.000660	mg/Kg	0.000660	1	05/19/23 05:38	WMS	G180832
Benzo(k)fluoranthene	<0.000660	mg/Kg	0.000660	1	05/19/23 05:38	WMS	G180832
Chrysene	<0.000660	mg/Kg	0.000660	1	05/19/23 05:38	WMS	G180832
Dibenz(a,h)anthracene	<0.000660	mg/Kg	0.000660	1	05/19/23 05:38	WMS	G180832
Fluoranthene	<0.000660	mg/Kg	0.000660	1	05/19/23 05:38	WMS	G180832
Fluorene	<0.000660	mg/Kg	0.000660	1	05/19/23 05:38	WMS	G180832
Indeno(1,2,3-cd)pyrene	<0.000660	mg/Kg	0.000660	1	05/19/23 05:38	WMS	G180832
Naphthalene	<0.000660	mg/Kg	0.000660	1	05/19/23 05:38	WMS	G180832
Phenanthrene	<0.000660	mg/Kg	0.000660	1	05/19/23 05:38	WMS	G180832
Pyrene	<0.000660	mg/Kg	0.000660	1	05/19/23 05:38	WMS	G180832

**Qualifiers/
Definitions**

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott , LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023

Revised Report Date: 11/13/2024

Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52595**

Matrix: **Solids**

Sample ID : **SE-SB06 (0-2)**

Sampled: **5/4/2023 9:40**

Analytical Method: MAEPH LA

Prep Batch(es): **G180836** 05/16/23 14:50

Prep Method: MAEPH LA (Soil)

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic >C10-C12	<2.00	mg/Kg	2.00	1	05/17/23 20:06	DAK	G180910
Aromatic >C10-C12	<2.00	mg/Kg	2.00	1	05/17/23 20:06	DAK	G180910
Aliphatic >C12-C16	<2.00	mg/Kg	2.00	1	05/17/23 20:06	DAK	G180910
Aromatic >C12-C16	<2.00	mg/Kg	2.00	1	05/17/23 20:06	DAK	G180910
Aromatic >C16-C21	<2.00	mg/Kg	2.00	1	05/17/23 20:06	DAK	G180910
Aliphatic >C16-C35	<4.00	mg/Kg	4.00	1	05/17/23 20:06	DAK	G180910
Aromatic >C21-C35	<2.00	mg/Kg	2.00	1	05/17/23 20:06	DAK	G180910
Surrogate: Chlorooctadecane	102		Limits: 40-140%	1	05/17/23 20:06		MAEPH LA
Surrogate: OTP Surrogate	107		Limits: 40-140%	1	05/17/23 20:06		MAEPH LA

**Qualifiers/
Definitions**

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

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Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023

Revised Report Date: 11/13/2024

Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52596**

Matrix: **Solids**

Sample ID : **SE-SB06 (2-4)**

Sampled: **5/4/2023 9:42**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	20.7	%		1	05/10/23 16:27	JMB	SW-DRYWT
% Saturation (Sat Paste)	227	%		1	06/02/23 10:52	BMB	29B
Alkalinity (Sat Paste)	2.0	meq/L		1	05/26/23 11:05	BMB	29B
Chloride (Sat Paste)	88.9	meq/L	0.014	50	05/26/23 14:23	MJM	29B
Chloride	4020	mg/Kg	20.0	5	05/31/23 21:25	MJM	9056
Electrical Conductivity (Sat Paste)	9.44	mmhos/cm		1	05/25/23 09:55	BMB	29B
pH (Sat Paste)	7.88	s.u.		1	05/25/23 09:55	BMB	29B
Sulfate (Sat Paste)	2.41	meq/L	0.010	50	05/26/23 14:23	MJM	29B
Cation Exchange Capacity	15.0	meq/100g	0.100	20	05/30/23 10:11		29B
Exchangeable Sodium Percentage	38.9	%	0.1	100	06/02/23 13:09	APB	CALCULATION
Calcium (Sat Paste)	0.950	meq/L	0.100	20	05/26/23 11:21	APB	29B
Magnesium (Sat Paste)	0.188	meq/L	0.164	20	05/26/23 11:21	APB	29B
Sodium (Sat Paste)	88.8	meq/L	0.420	20	05/26/23 11:21	APB	29B
Oil & Grease	<0.10	%	0.10	1	05/09/23 16:27	JMB	29B
Total Arsenic	2.98	mg/Kg AR	1.00	1	05/22/23 14:37	APB	6010D
Total Barium	97.0	mg/Kg AR	0.500	1	05/22/23 14:37	APB	6010D
True Total Barium	224	mg/Kg	50.0	1	05/22/23 13:19	APB	29B
Total Cadmium	0.709	mg/Kg AR	0.100	1	05/22/23 14:37	APB	6010D
Total Chromium	18.7	mg/Kg AR	0.250	1	05/22/23 14:37	APB	6010D
Total Lead	10.1	mg/Kg AR	0.300	1	05/22/23 14:37	APB	6010D
Mercury (Total)	0.0232	mg/Kg AR	0.0160	1	05/23/23 18:11	BMB	7471A
Total Selenium	<0.500	mg/Kg AR	0.500	1	05/22/23 14:37	APB	6010D
Total Silver	<0.250	mg/Kg AR	0.250	1	05/22/23 14:37	APB	6010D

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023

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Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52596**

Matrix: **Solids**

Sample ID : **SE-SB06 (2-4)**

Sampled: **5/4/2023 9:42**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Zinc	21.9	mg/Kg AR	1.25	1	05/22/23 14:37	APB	6010D

Analytical Method: 8270D SIM

Prep Batch(es): **G180832** 05/16/23 13:00

Prep Method: 3546

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<0.000660	mg/Kg	0.000660	1	05/19/24 05:59	WMS	G180832
Acenaphthylene	<0.000660	mg/Kg	0.000660	1	05/19/24 05:59	WMS	G180832
Anthracene	<0.000660	mg/Kg	0.000660	1	05/19/24 05:59	WMS	G180832
Benzo(a)anthracene	<0.000660	mg/Kg	0.000660	1	05/19/24 05:59	WMS	G180832
Benzo(a)pyrene	<0.000660	mg/Kg	0.000660	1	05/19/24 05:59	WMS	G180832
Benzo(b)fluoranthene	<0.000660	mg/Kg	0.000660	1	05/19/24 05:59	WMS	G180832
Benzo(k)fluoranthene	<0.000660	mg/Kg	0.000660	1	05/19/24 05:59	WMS	G180832
Chrysene	<0.000660	mg/Kg	0.000660	1	05/19/24 05:59	WMS	G180832
Dibenz(a,h)anthracene	<0.000660	mg/Kg	0.000660	1	05/19/24 05:59	WMS	G180832
Fluoranthene	<0.000660	mg/Kg	0.000660	1	05/19/24 05:59	WMS	G180832
Fluorene	<0.000660	mg/Kg	0.000660	1	05/19/24 05:59	WMS	G180832
Indeno(1,2,3-cd)pyrene	<0.000660	mg/Kg	0.000660	1	05/19/24 05:59	WMS	G180832
Naphthalene	0.00751	mg/Kg	0.000660	1	05/19/24 05:59	WMS	G180832
Phenanthrene	<0.000660	mg/Kg	0.000660	1	05/19/24 05:59	WMS	G180832
Pyrene	<0.000660	mg/Kg	0.000660	1	05/19/24 05:59	WMS	G180832

**Qualifiers/
Definitions**

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023

Revised Report Date: 11/13/2024

Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52596**

Matrix: **Solids**

Sample ID : **SE-SB06 (2-4)**

Sampled: **5/4/2023 9:42**

Analytical Method: MAEPH LA **Prep Batch(es):** **G180836** 05/16/23 14:50

Prep Method: MAEPH LA (Soil)

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic >C10-C12	<2.00	mg/Kg	2.00	1	05/17/23 20:36	DAK	G180910
Aromatic >C10-C12	<2.00	mg/Kg	2.00	1	05/17/23 20:36	DAK	G180910
Aliphatic >C12-C16	<2.00	mg/Kg	2.00	1	05/17/23 20:36	DAK	G180910
Aromatic >C12-C16	<2.00	mg/Kg	2.00	1	05/17/23 20:36	DAK	G180910
Aromatic >C16-C21	<2.00	mg/Kg	2.00	1	05/17/23 20:36	DAK	G180910
Aliphatic >C16-C35	5.18	mg/Kg	4.00	1	05/17/23 20:36	DAK	G180910
Aromatic >C21-C35	<2.00	mg/Kg	2.00	1	05/17/23 20:36	DAK	G180910

Surrogate: Chlorooctadecane

107

Limits: 40-140%

1 05/17/23 20:36

MAEPH LA

Surrogate: OTP Surrogate

70.6

Limits: 40-140%

1 05/17/23 20:36

MAEPH LA

Analytical Method: MAVPH LA **Prep Batch(es):** **G180767** 05/12/23 09:30

Prep Method: MAVPH LA (GC/MS) (Soil)

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic >C6-C8	<0.437	mg/Kg	0.437	100	05/12/23 18:12	SNC	G180774
Aliphatic >C8-C10	<1.14	mg/Kg	1.14	100	05/12/23 18:12	SNC	G180774
Aromatic >C8-C10	<0.437	mg/Kg	0.437	100	05/12/23 18:12		G180774
Surrogate: Toluene-d8	88.6		Limits: 70-130%	100	05/12/23 18:12	SNC	G180774

**Qualifiers/
Definitions**

*

Outside QC Limit

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023

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Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52597**

Matrix: **Solids**

Sample ID : **SE-SB06 (4-6)**

Sampled: **5/4/2023 9:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.0	%		1	05/10/23 16:27	JMB	SW-DRYWT
% Saturation (Sat Paste)	236	%		1	05/25/23 09:55	BMB	29B
Alkalinity (Sat Paste)	1.4	meq/L		1	05/26/23 11:05	BMB	29B
Chloride (Sat Paste)	62.7	meq/L	0.014	50	05/26/23 14:36	MJM	29B
Chloride	3800	mg/Kg	20.0	5	05/31/23 21:37	MJM	9056
Electrical Conductivity (Sat Paste)	6.72	mmhos/cm		1	05/25/23 09:55	BMB	29B
pH (Sat Paste)	7.62	s.u.		1	05/25/23 09:55	BMB	29B
Sulfate (Sat Paste)	1.10	meq/L	0.010	50	05/26/23 14:36	MJM	29B
Calcium (Sat Paste)	0.578	meq/L	0.100	20	05/26/23 11:25	APB	29B
Magnesium (Sat Paste)	0.185	meq/L	0.164	20	05/26/23 11:25	APB	29B
Sodium (Sat Paste)	61.6	meq/L	0.420	20	05/26/23 11:25	APB	29B
Total Arsenic	2.36	mg/Kg AR	1.00	1	05/22/23 14:41	APB	6010D
Total Barium	357	mg/Kg AR	0.500	1	05/22/23 14:41	APB	6010D
True Total Barium	623	mg/Kg	50.0	1	05/22/23 13:23	APB	29B
Total Cadmium	0.617	mg/Kg AR	0.100	1	05/22/23 14:41	APB	6010D
Total Chromium	16.1	mg/Kg AR	0.250	1	05/22/23 14:41	APB	6010D
Total Lead	8.21	mg/Kg AR	0.300	1	05/22/23 14:41	APB	6010D
Mercury (Total)	0.0214	mg/Kg AR	0.0160	1	05/23/23 18:14	BMB	7471A
Total Selenium	<0.500	mg/Kg AR	0.500	1	05/22/23 14:41	APB	6010D
Total Silver	<0.250	mg/Kg AR	0.250	1	05/22/23 14:41	APB	6010D
Total Zinc	22.4	mg/Kg AR	1.25	1	05/22/23 14:41	APB	6010D

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023

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Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52598**

Matrix: **Solids**

Sample ID : **SE-SB06 (6-8)**

Sampled: **5/4/2023 9:57**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	21.4	%		1	05/17/23 14:05	BXH	SW-DRYWT
% Saturation (Sat Paste)	180	%		1	06/02/23 10:52	BMB	29B
Alkalinity (Sat Paste)	0.8	meq/L		1	05/26/23 11:05	BMB	29B
Chloride (Sat Paste)	87.4	meq/L	0.014	50	05/26/23 14:49	MJM	29B
Chloride	2970	mg/Kg	20.0	5	05/31/23 22:26	MJM	9056
Electrical Conductivity (Sat Paste)	9.02	mmhos/cm		1	05/25/23 09:55	BMB	29B
pH (Sat Paste)	7.35	s.u.		1	05/25/23 09:55	BMB	29B
Sulfate (Sat Paste)	0.785	meq/L	0.010	50	05/26/23 14:49	MJM	29B
Calcium (Sat Paste)	1.31	meq/L	0.100	20	05/26/23 11:29	APB	29B
Magnesium (Sat Paste)	0.371	meq/L	0.164	20	05/26/23 11:29	APB	29B
Sodium (Sat Paste)	84.8	meq/L	0.420	20	05/26/23 11:29	APB	29B
Total Arsenic	2.91	mg/Kg AR	1.00	1	05/22/23 14:45	APB	6010D
Total Barium	143	mg/Kg AR	0.500	1	05/22/23 14:45	APB	6010D
True Total Barium	240	mg/Kg	50.0	1	05/22/23 13:27	APB	29B
Total Cadmium	0.587	mg/Kg AR	0.100	1	05/22/23 14:45	APB	6010D
Total Chromium	14.6	mg/Kg AR	0.250	1	05/22/23 14:45	APB	6010D
Total Lead	9.62	mg/Kg AR	0.300	1	05/22/23 14:45	APB	6010D
Mercury (Total)	<0.0160	mg/Kg AR	0.0160	1	05/23/23 18:17	BMB	7471A
Total Selenium	<0.500	mg/Kg AR	0.500	1	05/22/23 14:45	APB	6010D
Total Silver	<0.250	mg/Kg AR	0.250	1	05/22/23 14:45	APB	6010D
Total Zinc	22.2	mg/Kg AR	1.25	1	05/22/23 14:45	APB	6010D

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023

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Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52599**

Matrix: **Solids**

Sample ID : **SE-SB06 (8-10)**

Sampled: **5/4/2023 10:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.6	%		1	05/17/23 14:05	BXH	SW-DRYWT
% Saturation (Sat Paste)	96.4	%		1	05/25/23 09:55	BMB	29B
Alkalinity (Sat Paste)	1.4	meq/L		1	05/26/23 11:05	BMB	29B
Chloride (Sat Paste)	159	meq/L	0.028	100	05/26/23 15:01	MJM	29B
Chloride	3620	mg/Kg	20.0	5	05/31/23 22:39	MJM	9056
Electrical Conductivity (Sat Paste)	15.8	mmhos/cm		1	05/25/23 09:55	BMB	29B
pH (Sat Paste)	7.75	s.u.		1	05/25/23 09:55	BMB	29B
Sulfate (Sat Paste)	0.485	meq/L	0.020	100	05/26/23 15:01	MJM	29B
Calcium (Sat Paste)	3.45	meq/L	0.250	50	05/26/23 11:33	APB	29B
Magnesium (Sat Paste)	1.21	meq/L	0.410	50	05/26/23 11:33	APB	29B
Sodium (Sat Paste)	149	meq/L	1.05	50	05/26/23 11:33	APB	29B
Total Arsenic	2.72	mg/Kg AR	1.00	1	05/22/23 14:58	APB	6010D
Total Barium	100	mg/Kg AR	0.500	1	05/22/23 14:58	APB	6010D
True Total Barium	177	mg/Kg	50.0	1	05/22/23 13:31	APB	29B
Total Cadmium	0.372	mg/Kg AR	0.100	1	05/22/23 14:58	APB	6010D
Total Chromium	9.66	mg/Kg AR	0.250	1	05/22/23 14:58	APB	6010D
Total Lead	5.17	mg/Kg AR	0.300	1	05/22/23 14:58	APB	6010D
Mercury (Total)	<0.0160	mg/Kg AR	0.0160	1	05/23/23 18:20	BMB	7471A
Total Selenium	<0.500	mg/Kg AR	0.500	1	05/22/23 14:58	APB	6010D
Total Silver	<0.250	mg/Kg AR	0.250	1	05/22/23 14:58	APB	6010D
Total Zinc	17.6	mg/Kg AR	1.25	1	05/22/23 14:58	APB	6010D

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023

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Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52600**

Matrix: **Solids**

Sample ID : **SE-SB06 (10-12)**

Sampled: **5/4/2023 10:07**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	15.1	%		1	05/17/23 14:05	BXH	SW-DRYWT
% Saturation (Sat Paste)	73.4	%		1	05/25/23 09:55	BMB	29B
Alkalinity (Sat Paste)	0.8	meq/L		1	05/26/23 11:05	BMB	29B
Chloride (Sat Paste)	145	meq/L	0.028	100	05/26/23 15:14	MJM	29B
Chloride	3040	mg/Kg	20.0	5	06/01/23 11:29	MJM	9056
Electrical Conductivity (Sat Paste)	14.6	mmhos/cm		1	05/25/23 09:55	BMB	29B
pH (Sat Paste)	7.76	s.u.		1	05/25/23 09:55	BMB	29B
Sulfate (Sat Paste)	1.04	meq/L	0.020	100	05/26/23 15:14	MJM	29B
Calcium (Sat Paste)	2.83	meq/L	0.100	20	05/26/23 11:38	APB	29B
Magnesium (Sat Paste)	0.907	meq/L	0.164	20	05/26/23 11:38	APB	29B
Sodium (Sat Paste)	135	meq/L	0.420	20	05/26/23 11:38	APB	29B
Total Arsenic	2.17	mg/Kg AR	1.00	1	05/22/23 15:02	APB	6010D
Total Barium	66.7	mg/Kg AR	0.500	1	05/22/23 15:02	APB	6010D
True Total Barium	144	mg/Kg	50.0	1	05/22/23 13:36	APB	29B
Total Cadmium	0.314	mg/Kg AR	0.100	1	05/22/23 15:02	APB	6010D
Total Chromium	8.26	mg/Kg AR	0.250	1	05/22/23 15:02	APB	6010D
Total Lead	4.26	mg/Kg AR	0.300	1	05/22/23 15:02	APB	6010D
Mercury (Total)	<0.0160	mg/Kg AR	0.0160	1	05/23/23 18:23	BMB	7471A
Total Selenium	<0.500	mg/Kg AR	0.500	1	05/22/23 15:02	APB	6010D
Total Silver	<0.250	mg/Kg AR	0.250	1	05/22/23 15:02	APB	6010D
Total Zinc	15.4	mg/Kg AR	1.25	1	05/22/23 15:02	APB	6010D

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023

Revised Report Date: 11/13/2024

Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52601**

Matrix: **Solids**

Sample ID : **SE-SB06 (12-14)**

Sampled: **5/4/2023 10:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	21.8	%		1	05/10/23 16:27	JMB	SW-DRYWT
% Saturation (Sat Paste)	48.9	%		1	05/25/23 09:55	BMB	29B
Alkalinity (Sat Paste)	1.3	meq/L		1	05/26/23 11:05	BMB	29B
Chloride (Sat Paste)	384	meq/L	0.056	200	05/26/23 15:27	MJM	29B
Chloride	4850	mg/Kg	80.0	20	06/01/23 11:42	MJM	9056
Electrical Conductivity (Sat Paste)	35.9	mmhos/cm		1	05/25/23 09:55	BMB	29B
pH (Sat Paste)	7.73	s.u.		1	05/25/23 09:55	BMB	29B
Sulfate (Sat Paste)	2.78	meq/L	0.041	200	05/26/23 15:27	MJM	29B
Calcium (Sat Paste)	11.8	meq/L	1.00	200	05/26/23 11:42	APB	29B
Magnesium (Sat Paste)	3.93	meq/L	1.64	200	05/26/23 11:42	APB	29B
Sodium (Sat Paste)	354	meq/L	4.20	200	05/26/23 11:42	APB	29B
Oil & Grease	<0.10	%	0.10	1	05/09/23 16:27	JMB	29B
Total Arsenic	2.15	mg/Kg AR	1.00	1	05/22/23 15:06	APB	6010D
Total Barium	70.6	mg/Kg AR	0.500	1	05/22/23 15:06	APB	6010D
True Total Barium	146	mg/Kg	50.0	1	05/22/23 13:40	APB	29B
Total Cadmium	0.513	mg/Kg AR	0.100	1	05/22/23 15:06	APB	6010D
Total Chromium	8.90	mg/Kg AR	0.250	1	05/22/23 15:06	APB	6010D
Total Lead	5.28	mg/Kg AR	0.300	1	05/22/23 15:06	APB	6010D
Mercury (Total)	<0.0160	mg/Kg AR	0.0160	1	05/23/23 18:32	BMB	7471A
Total Selenium	<0.500	mg/Kg AR	0.500	1	05/22/23 15:06	APB	6010D
Total Silver	<0.250	mg/Kg AR	0.250	1	05/22/23 15:06	APB	6010D
Total Zinc	21.9	mg/Kg AR	1.25	1	05/22/23 15:06	APB	6010D

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel
Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023
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Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52601**

Matrix: **Solids**

Sample ID : **SE-SB06 (12-14)**

Sampled: **5/4/2023 10:15**

Analytical Method: 8270D SIM

Prep Batch(es): **G180832** 05/16/23 13:00

Prep Method: 3546

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:19	WMS	G180832
Acenaphthylene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:19	WMS	G180832
Anthracene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:19	WMS	G180832
Benzo(a)anthracene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:19	WMS	G180832
Benzo(a)pyrene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:19	WMS	G180832
Benzo(b)fluoranthene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:19	WMS	G180832
Benzo(k)fluoranthene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:19	WMS	G180832
Chrysene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:19	WMS	G180832
Dibenz(a,h)anthracene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:19	WMS	G180832
Fluoranthene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:19	WMS	G180832
Fluorene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:19	WMS	G180832
Indeno(1,2,3-cd)pyrene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:19	WMS	G180832
Naphthalene	0.00293	mg/Kg	0.000660	1	05/19/24 06:19	WMS	G180832
Phenanthrene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:19	WMS	G180832
Pyrene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:19	WMS	G180832

Analytical Method: MAEPH LA

Prep Batch(es): **G180836** 05/16/23 14:50

Prep Method: MAEPH LA (Soil)

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic >C10-C12	<2.00	mg/Kg	2.00	1	05/17/23 21:06	DAK	G180910
Aromatic >C10-C12	<2.00	mg/Kg	2.00	1	05/17/23 21:06	DAK	G180910

**Qualifiers/
Definitions**

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel
Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023
Revised Report Date: 11/13/2024
Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52601**

Matrix: **Solids**

Sample ID : **SE-SB06 (12-14)**

Sampled: **5/4/2023 10:15**

Analytical Method: MAEPH LA **Prep Batch(es):** **G180836** 05/16/23 14:50

Prep Method: MAEPH LA (Soil)

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic >C12-C16	<2.00	mg/Kg	2.00	1	05/17/23 21:06	DAK	G180910
Aromatic >C12-C16	<2.00	mg/Kg	2.00	1	05/17/23 21:06	DAK	G180910
Aromatic >C16-C21	<2.00	mg/Kg	2.00	1	05/17/23 21:06	DAK	G180910
Aliphatic >C16-C35	5.50	mg/Kg	4.00	1	05/17/23 21:06	DAK	G180910
Aromatic >C21-C35	<2.00	mg/Kg	2.00	1	05/17/23 21:06	DAK	G180910
Surrogate: Chlorooctadecane	115		Limits: 40-140%	1	05/17/23 21:06		MAEPH LA
Surrogate: OTP Surrogate	59.9		Limits: 40-140%	1	05/17/23 21:06		MAEPH LA

Analytical Method: MAVPH LA **Prep Batch(es):** **G180767** 05/12/23 09:30

Prep Method: MAVPH LA (GC/MS) (Soil)

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic >C6-C8	<0.468	mg/Kg	0.468	100	05/12/23 18:34	SNC	G180774
Aliphatic >C8-C10	<1.22	mg/Kg	1.22	100	05/12/23 18:34	SNC	G180774
Aromatic >C8-C10	<0.468	mg/Kg	0.468	100	05/12/23 18:34		G180774
Surrogate: Toluene-d8	81.6		Limits: 70-130%	100	05/12/23 18:34	SNC	G180774

**Qualifiers/
Definitions**

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023

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Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52602**

Matrix: **Solids**

Sample ID : **SE-SB06 (14-16)**

Sampled: **5/4/2023 10:17**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	24.2	%		1	05/10/23 16:27	JMB	SW-DRYWT
% Saturation (Sat Paste)	79.8	%		1	05/25/23 09:55	BMB	29B
Alkalinity (Sat Paste)	1.4	meq/L		1	05/26/23 11:05	BMB	29B
Chloride (Sat Paste)	305	meq/L	0.056	200	05/26/23 16:19	MJM	29B
Chloride	5040	mg/Kg	80.0	20	06/01/23 11:54	MJM	9056
Electrical Conductivity (Sat Paste)	28.8	mmhos/cm		1	05/25/23 09:55	BMB	29B
pH (Sat Paste)	8.12	s.u.		1	05/25/23 09:55	BMB	29B
Sulfate (Sat Paste)	0.901	meq/L	0.041	200	05/26/23 16:19	MJM	29B
Calcium (Sat Paste)	7.52	meq/L	1.00	200	05/26/23 11:46	APB	29B
Magnesium (Sat Paste)	1.90	meq/L	1.64	200	05/26/23 11:46	APB	29B
Sodium (Sat Paste)	279	meq/L	4.20	200	05/26/23 11:46	APB	29B
Oil & Grease	<0.10	%	0.10	1	05/09/23 16:27	JMB	29B
Total Arsenic	2.05	mg/Kg AR	1.00	1	05/22/23 15:10	APB	6010D
Total Barium	90.7	mg/Kg AR	0.500	1	05/22/23 15:10	APB	6010D
True Total Barium	191	mg/Kg	50.0	1	05/22/23 13:44	APB	29B
Total Cadmium	0.628	mg/Kg AR	0.100	1	05/22/23 15:10	APB	6010D
Total Chromium	13.4	mg/Kg AR	0.250	1	05/22/23 15:10	APB	6010D
Total Lead	6.83	mg/Kg AR	0.300	1	05/22/23 15:10	APB	6010D
Mercury (Total)	<0.0160	mg/Kg AR	0.0160	1	05/23/23 18:35	BMB	7471A
Total Selenium	<0.500	mg/Kg AR	0.500	1	05/22/23 15:10	APB	6010D
Total Silver	<0.250	mg/Kg AR	0.250	1	05/22/23 15:10	APB	6010D
Total Zinc	31.5	mg/Kg AR	1.25	1	05/22/23 15:10	APB	6010D

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
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Project Gastel
Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023
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Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52602**

Matrix: **Solids**

Sample ID : **SE-SB06 (14-16)**

Sampled: **5/4/2023 10:17**

Analytical Method: 8270D SIM

Prep Batch(es): **G180832** 05/16/23 13:00

Prep Method: 3546

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:04	WMS	G180832
Acenaphthylene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:04	WMS	G180832
Anthracene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:04	WMS	G180832
Benzo(a)anthracene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:04	WMS	G180832
Benzo(a)pyrene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:04	WMS	G180832
Benzo(b)fluoranthene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:04	WMS	G180832
Benzo(k)fluoranthene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:04	WMS	G180832
Chrysene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:04	WMS	G180832
Dibenz(a,h)anthracene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:04	WMS	G180832
Fluoranthene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:04	WMS	G180832
Fluorene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:04	WMS	G180832
Indeno(1,2,3-cd)pyrene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:04	WMS	G180832
Naphthalene	0.00442	mg/Kg	0.000660	1	05/19/24 06:04	WMS	G180832
Phenanthrene	<0.000660	mg/Kg	0.000660	1	05/19/24 06:04	WMS	G180832
Pyrene	0.00100	mg/Kg	0.000660	1	05/19/24 06:04	WMS	G180832

Analytical Method: MAEPH LA

Prep Batch(es): **G180836** 05/16/23 14:50

Prep Method: MAEPH LA (Soil)

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic >C10-C12	<2.00	mg/Kg	2.00	1	05/17/23 21:36	DAK	G180910
Aromatic >C10-C12	<2.00	mg/Kg	2.00	1	05/17/23 21:36	DAK	G180910

**Qualifiers/
Definitions**

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel
Information : Project Number: 1705.A37
Morse, La

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Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52602**

Matrix: **Solids**

Sample ID : **SE-SB06 (14-16)**

Sampled: **5/4/2023 10:17**

Analytical Method: MAEPH LA **Prep Batch(es):** **G180836** 05/16/23 14:50

Prep Method: MAEPH LA (Soil)

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic >C12-C16	<2.00	mg/Kg	2.00	1	05/17/23 21:36	DAK	G180910
Aromatic >C12-C16	<2.00	mg/Kg	2.00	1	05/17/23 21:36	DAK	G180910
Aromatic >C16-C21	<2.00	mg/Kg	2.00	1	05/17/23 21:36	DAK	G180910
Aliphatic >C16-C35	<4.00	mg/Kg	4.00	1	05/17/23 21:36	DAK	G180910
Aromatic >C21-C35	<2.00	mg/Kg	2.00	1	05/17/23 21:36	DAK	G180910
Surrogate: Chlorooctadecane	69.5		Limits: 40-140%	1	05/17/23 21:36		MAEPH LA
Surrogate: OTP Surrogate	48.2		Limits: 40-140%	1	05/17/23 21:36		MAEPH LA

Analytical Method: MAVPH LA **Prep Batch(es):** **G180767** 05/12/23 09:30

Prep Method: MAVPH LA (GC/MS) (Soil)

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic >C6-C8	0.560	mg/Kg	0.519	100	05/12/23 18:57	SNC	G180774
Aliphatic >C8-C10	<1.35	mg/Kg	1.35	100	05/12/23 18:57	SNC	G180774
Aromatic >C8-C10	<0.519	mg/Kg	0.519	100	05/12/23 18:57		G180774
Surrogate: Toluene-d8	114		Limits: 70-130%	100	05/12/23 18:57	SNC	G180774

**Qualifiers/
Definitions**

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

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Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52603**

Matrix: **Solids**

Sample ID : **SE-SB06 (16-18)**

Sampled: **5/4/2023 10:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	25.3	%		1	05/17/23 14:05	BXH	SW-DRYWT
% Saturation (Sat Paste)	230	%		1	05/25/23 09:55	BMB	29B
Alkalinity (Sat Paste)	1.2	meq/L		1	05/26/23 11:05	BMB	29B
Chloride (Sat Paste)	105	meq/L	0.014	50	05/26/23 16:32	MJM	29B
Chloride	4710	mg/Kg	40.0	10	06/01/23 23:38	MJM	9056
Electrical Conductivity (Sat Paste)	10.7	mmhos/cm		1	05/25/23 09:55	BMB	29B
pH (Sat Paste)	7.73	s.u.		1	05/25/23 09:55	BMB	29B
Sulfate (Sat Paste)	0.044	meq/L	0.010	50	05/26/23 16:32	MJM	29B
Calcium (Sat Paste)	2.42	meq/L	0.100	20	05/26/23 11:50	APB	29B
Magnesium (Sat Paste)	0.906	meq/L	0.164	20	05/26/23 11:50	APB	29B
Sodium (Sat Paste)	97.7	meq/L	0.420	20	05/26/23 11:50	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

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REPORT OF ANALYSIS

Lab No : **52604**

Matrix: **Solids**

Sample ID : **SE-SB06 (18-20)**

Sampled: **5/4/2023 10:32**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	28.1	%		1	05/17/23 14:05	BXH	SW-DRYWT
% Saturation (Sat Paste)	190	%		1	06/02/23 10:52	BMB	29B
Alkalinity (Sat Paste)	1.6	meq/L		1	05/26/23 11:05	BMB	29B
Chloride (Sat Paste)	140	meq/L	0.028	100	05/26/23 16:44	MJM	29B
Chloride	5740	mg/Kg	40.0	10	06/02/23 00:15	MJM	9056
Electrical Conductivity (Sat Paste)	14.1	mmhos/cm		1	05/25/23 09:55	BMB	29B
pH (Sat Paste)	7.85	s.u.		1	05/25/23 09:55	BMB	29B
Sulfate (Sat Paste)	0.339	meq/L	0.020	100	05/26/23 16:44	MJM	29B
Calcium (Sat Paste)	3.54	meq/L	0.100	20	05/26/23 12:02	APB	29B
Magnesium (Sat Paste)	1.35	meq/L	0.164	20	05/26/23 12:02	APB	29B
Sodium (Sat Paste)	130	meq/L	0.420	20	05/26/23 12:02	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

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Project Gastel

Information : Project Number: 1705.A37
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REPORT OF ANALYSIS

Lab No : **52605**

Matrix: **Solids**

Sample ID : **SE-SB06 (20-22)**

Sampled: **5/4/2023 10:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.8	%		1	05/17/23 14:32	BXH	SW-DRYWT
% Saturation (Sat Paste)	166	%		1	05/25/23 09:55	BMB	29B
Alkalinity (Sat Paste)	1.0	meq/L		1	05/26/23 11:05	BMB	29B
Chloride (Sat Paste)	116	meq/L	0.014	50	05/26/23 16:57	MJM	29B
Chloride	4280	mg/Kg	20.0	5	06/01/23 12:56	MJM	9056
Electrical Conductivity (Sat Paste)	11.9	mmhos/cm		1	05/25/23 09:55	BMB	29B
pH (Sat Paste)	7.50	s.u.		1	05/25/23 09:55	BMB	29B
Sulfate (Sat Paste)	0.174	meq/L	0.010	50	05/26/23 16:57	MJM	29B
Calcium (Sat Paste)	2.84	meq/L	0.100	20	05/26/23 12:06	APB	29B
Magnesium (Sat Paste)	1.01	meq/L	0.164	20	05/26/23 12:06	APB	29B
Sodium (Sat Paste)	108	meq/L	0.420	20	05/26/23 12:06	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel
Information : Project Number: 1705.A37
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REPORT OF ANALYSIS

Lab No : **52606**

Matrix: **Solids**

Sample ID : **SE-SB06 (22-24)**

Sampled: **5/4/2023 10:47**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	16.2	%		1	05/17/23 14:32	BXH	SW-DRYWT
% Saturation (Sat Paste)	67.6	%		1	05/25/23 09:55	BMB	29B
Alkalinity (Sat Paste)	1.2	meq/L		1	05/26/23 11:05	BMB	29B
Chloride (Sat Paste)	60.2	meq/L	0.028	100	05/26/23 17:10	MJM	29B
Chloride	4080	mg/Kg	40.0	10	06/01/23 13:08	MJM	9056
Electrical Conductivity (Sat Paste)	20.6	mmhos/cm		1	05/25/23 09:55	BMB	29B
pH (Sat Paste)	7.97	s.u.		1	05/25/23 09:55	BMB	29B
Sulfate (Sat Paste)	0.236	meq/L	0.020	100	05/26/23 17:10	MJM	29B
Calcium (Sat Paste)	5.02	meq/L	0.500	100	05/26/23 12:10	APB	29B
Magnesium (Sat Paste)	1.40	meq/L	0.820	100	05/26/23 12:10	APB	29B
Sodium (Sat Paste)	198	meq/L	2.10	100	05/26/23 12:10	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

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Project Gastel
Information : Project Number: 1705.A37
Morse, La

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REPORT OF ANALYSIS

Lab No : **52607**

Matrix: **Solids**

Sample ID : **SE-SB06 (24-26)**

Sampled: **5/4/2023 10:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.8	%		1	05/17/23 14:32	BXH	SW-DRYWT
% Saturation (Sat Paste)	51.4	%		1	05/25/23 09:55	BMB	29B
Alkalinity (Sat Paste)	1.3	meq/L		1	05/26/23 11:05	BMB	29B
Chloride (Sat Paste)	226	meq/L	0.028	100	05/26/23 17:23	MJM	29B
Chloride	3500	mg/Kg	40.0	10	06/01/23 13:21	MJM	9056
Electrical Conductivity (Sat Paste)	22.0	mmhos/cm		1	05/25/23 09:55	BMB	29B
pH (Sat Paste)	7.75	s.u.		1	05/25/23 09:55	BMB	29B
Sulfate (Sat Paste)	0.207	meq/L	0.020	100	05/26/23 17:23	MJM	29B
Calcium (Sat Paste)	6.06	meq/L	0.500	100	05/26/23 12:15	APB	29B
Magnesium (Sat Paste)	1.97	meq/L	0.820	100	05/26/23 12:15	APB	29B
Sodium (Sat Paste)	211	meq/L	2.10	100	05/26/23 12:15	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

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Project Gastel

Information : Project Number: 1705.A37
Morse, La

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Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52608**

Matrix: **Solids**

Sample ID : **SE-SB06 (26-27)**

Sampled: **5/4/2023 10:57**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	20.3	%		1	05/17/23 14:32	BXH	SW-DRYWT
% Saturation (Sat Paste)	67.0	%		1	05/25/23 09:55	BMB	29B
Alkalinity (Sat Paste)	1.4	meq/L		1	05/26/23 11:05	BMB	29B
Chloride (Sat Paste)	250	meq/L	0.056	200	05/26/23 17:49	MJM	29B
Chloride	943	mg/Kg	40.0	10	06/01/23 14:10	MJM	9056
Electrical Conductivity (Sat Paste)	23.9	mmhos/cm		1	05/25/23 09:55	BMB	29B
pH (Sat Paste)	7.92	s.u.		1	05/25/23 09:55	BMB	29B
Sulfate (Sat Paste)	<0.041	meq/L	0.041	200	05/26/23 17:49	MJM	29B
Calcium (Sat Paste)	13.4	meq/L	0.500	100	05/26/23 12:23	APB	29B
Magnesium (Sat Paste)	5.26	meq/L	0.820	100	05/26/23 12:23	APB	29B
Sodium (Sat Paste)	219	meq/L	2.10	100	05/26/23 12:23	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

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Project Gastel

Information : Project Number: 1705.A37
Morse, La

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REPORT OF ANALYSIS

Lab No : **52609**

Matrix: **Solids**

Sample ID : **SE-SB07 (0-2)**

Sampled: **5/4/2023 12:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	15.7	%		1	05/17/23 14:32	BXH	SW-DRYWT
% Saturation (Sat Paste)	61.8	%		1	05/25/23 09:55	BMB	29B
Alkalinity (Sat Paste)	1.1	meq/L		1	05/26/23 11:05	BMB	29B
Chloride (Sat Paste)	22.1	meq/L	0.010	10	05/26/23 18:02	MJM	29B
Chloride	372	mg/Kg	4.00	1	06/01/23 14:22	MJM	9056
Electrical Conductivity (Sat Paste)	2.63	mmhos/cm		1	05/25/23 09:55	BMB	29B
pH (Sat Paste)	7.79	s.u.		1	05/25/23 09:55	BMB	29B
Sulfate (Sat Paste)	0.527	meq/L	0.010	10	05/26/23 18:02	MJM	29B
Cation Exchange Capacity	9.61	meq/100g	0.100	10	05/30/23 10:15		29B
Exchangeable Sodium Percentage	36.4	%	0.100	1	05/25/23 09:55		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	10.1	Calc	0.050	10	05/26/23 12:27		29B
Calcium (Sat Paste)	4.16	meq/L	0.050	10	05/26/23 12:27	APB	29B
Magnesium (Sat Paste)	2.01	meq/L	0.082	10	05/26/23 12:27	APB	29B
Sodium (Sat Paste)	17.7	meq/L	0.210	10	05/26/23 12:27	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

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Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52610**

Matrix: **Solids**

Sample ID : **SE-SB07 (2-4)**

Sampled: **5/4/2023 12:32**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	17.2	%		1	05/17/23 14:32	BXH	SW-DRYWT
% Saturation (Sat Paste)	134	%		1	05/25/23 09:55	BMB	29B
Alkalinity (Sat Paste)	2.9	meq/L		1	05/26/23 11:05	BMB	29B
Chloride (Sat Paste)	3.69	meq/L	0.010	5	05/26/23 18:15	MJM	29B
Chloride	57.6	mg/Kg	4.00	1	06/01/23 14:35	MJM	9056
Electrical Conductivity (Sat Paste)	0.932	mmhos/cm		1	05/25/23 09:55	BMB	29B
pH (Sat Paste)	8.37	s.u.		1	05/25/23 09:55	BMB	29B
Sulfate (Sat Paste)	1.97	meq/L	0.010	5	05/26/23 18:15	MJM	29B
Cation Exchange Capacity	14.7	meq/100g	0.100	10	05/30/23 10:19		29B
Exchangeable Sodium Percentage	44.6	%	0.100	1	05/25/23 09:55		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	11.4	Calc	0.050	10	05/26/23 12:31		29B
Calcium (Sat Paste)	0.640	meq/L	0.050	10	05/26/23 12:31	APB	29B
Magnesium (Sat Paste)	0.284	meq/L	0.082	10	05/26/23 12:31	APB	29B
Sodium (Sat Paste)	7.74	meq/L	0.210	10	05/26/23 12:31	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

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Morse, La

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Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52611**

Matrix: **Solids**

Sample ID : **SE-SB07 (4-6)**

Sampled: **5/4/2023 12:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	16.0	%		1	05/17/23 14:32	BXH	SW-DRYWT
% Saturation (Sat Paste)	104	%		1	05/25/23 09:55	BMB	29B
Alkalinity (Sat Paste)	1.2	meq/L		1	05/26/23 11:05	BMB	29B
Chloride (Sat Paste)	4.42	meq/L	0.010	5	05/26/23 19:06	MJM	29B
Chloride	51.7	mg/Kg	4.00	1	06/01/23 14:47	MJM	9056
Electrical Conductivity (Sat Paste)	0.899	mmhos/cm		1	05/25/23 09:55	BMB	29B
pH (Sat Paste)	7.68	s.u.		1	05/25/23 09:55	BMB	29B
Sulfate (Sat Paste)	2.40	meq/L	0.010	5	05/26/23 19:06	MJM	29B
Calcium (Sat Paste)	0.448	meq/L	0.050	10	05/26/23 12:35	APB	29B
Magnesium (Sat Paste)	0.270	meq/L	0.082	10	05/26/23 12:35	APB	29B
Sodium (Sat Paste)	7.41	meq/L	0.210	10	05/26/23 12:35	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

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Project Gastel

Information : Project Number: 1705.A37
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Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52612**

Matrix: **Solids**

Sample ID : **SE-SB07 (6-8)**

Sampled: **5/4/2023 12:42**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	17.8	%		1	05/17/23 14:32	BXH	SW-DRYWT
% Saturation (Sat Paste)	93.5	%		1	05/25/23 10:33	JMB	29B
Alkalinity (Sat Paste)	1.0	meq/L		1	05/26/23 11:50	BMB	29B
Chloride (Sat Paste)	2.85	meq/L	0.010	5	05/30/23 18:12	MJM	29B
Chloride	54.1	mg/Kg	4.00	1	06/01/23 14:59	MJM	9056
Electrical Conductivity (Sat Paste)	0.707	mmhos/cm		1	05/25/23 10:33	JMB	29B
pH (Sat Paste)	7.50	s.u.		1	05/25/23 10:33	JMB	29B
Sulfate (Sat Paste)	2.22	meq/L	0.010	5	05/30/23 18:12	MJM	29B
Calcium (Sat Paste)	1.37	meq/L	0.050	10	05/26/23 12:39	APB	29B
Magnesium (Sat Paste)	0.200	meq/L	0.082	10	05/26/23 12:39	APB	29B
Sodium (Sat Paste)	5.75	meq/L	0.210	10	05/26/23 12:39	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel
Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023
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Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52613**

Matrix: **Solids**

Sample ID : **SE-SB07 (8-10)**

Sampled: **5/4/2023 12:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	17.7	%		1	05/17/23 14:32	BXH	SW-DRYWT
% Saturation (Sat Paste)	84.3	%		1	05/25/23 10:33	JMB	29B
Alkalinity (Sat Paste)	1.2	meq/L		1	05/26/23 11:50	BMB	29B
Chloride (Sat Paste)	6.69	meq/L	0.010	5	05/30/23 18:25	MJM	29B
Chloride	99.4	mg/Kg	4.00	1	06/01/23 15:12	MJM	9056
Electrical Conductivity (Sat Paste)	1.11	mmhos/cm		1	05/25/23 10:33	JMB	29B
pH (Sat Paste)	7.71	s.u.		1	05/25/23 10:33	JMB	29B
Sulfate (Sat Paste)	2.17	meq/L	0.010	5	05/30/23 18:25	MJM	29B
Calcium (Sat Paste)	1.30	meq/L	0.050	10	05/26/23 12:52	APB	29B
Magnesium (Sat Paste)	0.456	meq/L	0.082	10	05/26/23 12:52	APB	29B
Sodium (Sat Paste)	8.86	meq/L	0.210	10	05/26/23 12:52	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

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REPORT OF ANALYSIS

Lab No : **52614**

Matrix: **Solids**

Sample ID : **SE-SB07 (10-12)**

Sampled: **5/4/2023 12:47**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.4	%		1	05/17/23 14:32	BXH	SW-DRYWT
% Saturation (Sat Paste)	52.6	%		1	05/25/23 10:33	JMB	29B
Alkalinity (Sat Paste)	0.7	meq/L		1	05/26/23 11:50	BMB	29B
Chloride (Sat Paste)	5.82	meq/L	0.010	5	05/30/23 18:38	MJM	29B
Chloride	78.0	mg/Kg	4.00	1	06/01/23 15:24	MJM	9056
Electrical Conductivity (Sat Paste)	0.943	mmhos/cm		1	05/25/23 10:33	JMB	29B
pH (Sat Paste)	7.54	s.u.		1	05/25/23 10:33	JMB	29B
Sulfate (Sat Paste)	1.98	meq/L	0.010	5	05/30/23 18:38	MJM	29B
Calcium (Sat Paste)	1.58	meq/L	0.050	10	05/26/23 12:56	APB	29B
Magnesium (Sat Paste)	0.521	meq/L	0.082	10	05/26/23 12:56	APB	29B
Sodium (Sat Paste)	6.87	meq/L	0.210	10	05/26/23 12:56	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
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REPORT OF ANALYSIS

Lab No : **52615**

Matrix: **Solids**

Sample ID : **SE-SB07 (12-14)**

Sampled: **5/4/2023 12:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	21.9	%		1	05/18/23 11:28	BXH	SW-DRYWT
% Saturation (Sat Paste)	55.1	%		1	05/25/23 10:33	JMB	29B
Alkalinity (Sat Paste)	1.8	meq/L		1	05/26/23 11:50	BMB	29B
Chloride (Sat Paste)	20.2	meq/L	0.010	10	05/30/23 18:51	MJM	29B
Chloride	450	mg/Kg	4.00	1	06/01/23 15:36	MJM	9056
Electrical Conductivity (Sat Paste)	2.48	mmhos/cm		1	05/25/23 10:33	JMB	29B
pH (Sat Paste)	8.06	s.u.		1	05/25/23 10:33	JMB	29B
Sulfate (Sat Paste)	1.07	meq/L	0.010	10	05/30/23 18:51	MJM	29B
Calcium (Sat Paste)	8.37	meq/L	0.050	10	05/26/23 13:00	APB	29B
Magnesium (Sat Paste)	3.58	meq/L	0.082	10	05/26/23 13:00	APB	29B
Sodium (Sat Paste)	11.3	meq/L	0.210	10	05/26/23 13:00	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
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Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52616**

Matrix: **Solids**

Sample ID : **SE-SB07 (14-16)**

Sampled: **5/4/2023 12:52**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	22.4	%		1	05/18/23 11:28	BXH	SW-DRYWT
% Saturation (Sat Paste)	57.8	%		1	05/25/23 10:33	JMB	29B
Alkalinity (Sat Paste)	0.9	meq/L		1	05/26/23 11:50	BMB	29B
Chloride (Sat Paste)	164	meq/L	0.028	100	05/30/23 19:04	MJM	29B
Chloride	451	mg/Kg	4.00	1	06/01/23 15:49	MJM	9056
Electrical Conductivity (Sat Paste)	15.5	mmhos/cm		1	05/25/23 10:33	JMB	29B
pH (Sat Paste)	7.66	s.u.		1	05/25/23 10:33	JMB	29B
Sulfate (Sat Paste)	0.390	meq/L	0.020	100	05/30/23 19:04	MJM	29B
Calcium (Sat Paste)	78.4	meq/L	0.250	50	05/26/23 13:04	APB	29B
Magnesium (Sat Paste)	33.9	meq/L	0.410	50	05/26/23 13:04	APB	29B
Sodium (Sat Paste)	46.8	meq/L	1.05	50	05/26/23 13:04	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel
Information : Project Number: 1705.A37
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REPORT OF ANALYSIS

Lab No : **52617**

Matrix: **Solids**

Sample ID : **SE-SB07 (16-18)**

Sampled: **5/4/2023 12:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	28.1	%		1	05/18/23 11:28	BXH	SW-DRYWT
% Saturation (Sat Paste)	115	%		1	05/25/23 10:33	JMB	29B
Alkalinity (Sat Paste)	1.2	meq/L		1	05/26/23 11:50	BMB	29B
Chloride (Sat Paste)	32.4	meq/L	0.010	20	05/30/23 19:55	MJM	29B
Chloride	765	mg/Kg	8.00	2	06/01/23 16:01	MJM	9056
Electrical Conductivity (Sat Paste)	3.56	mmhos/cm		1	05/25/23 10:33	JMB	29B
pH (Sat Paste)	7.96	s.u.		1	05/25/23 10:33	JMB	29B
Sulfate (Sat Paste)	0.361	meq/L	0.010	20	05/30/23 19:55	MJM	29B
Calcium (Sat Paste)	15.0	meq/L	0.100	20	05/26/23 13:08	APB	29B
Magnesium (Sat Paste)	7.35	meq/L	0.164	20	05/26/23 13:08	APB	29B
Sodium (Sat Paste)	10.9	meq/L	0.420	20	05/26/23 13:08	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
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REPORT OF ANALYSIS

Lab No : **52618**

Matrix: **Solids**

Sample ID : **SE-SB07 (18-20)**

Sampled: **5/4/2023 1:57**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	23.2	%		1	05/18/23 11:28	BXH	SW-DRYWT
% Saturation (Sat Paste)	133	%		1	05/25/23 10:33	JMB	29B
Alkalinity (Sat Paste)	2.1	meq/L		1	05/26/23 11:50	BMB	29B
Chloride (Sat Paste)	4.53	meq/L	0.010	5	05/30/23 20:08	MJM	29B
Chloride	108	mg/Kg	4.00	1	06/01/23 17:27	MJM	9056
Electrical Conductivity (Sat Paste)	0.793	mmhos/cm		1	05/25/23 10:33	JMB	29B
pH (Sat Paste)	8.07	s.u.		1	05/25/23 10:33	JMB	29B
Sulfate (Sat Paste)	0.677	meq/L	0.010	5	05/30/23 20:08	MJM	29B
Calcium (Sat Paste)	2.35	meq/L	0.050	10	05/26/23 13:12	APB	29B
Magnesium (Sat Paste)	1.07	meq/L	0.082	10	05/26/23 13:12	APB	29B
Sodium (Sat Paste)	4.18	meq/L	0.210	10	05/26/23 13:12	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

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REPORT OF ANALYSIS

Lab No : **52619**

Matrix: **Solids**

Sample ID : **SE-SB07 (20-22)**

Sampled: **5/4/2023 13:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	24.8	%		1	05/18/23 11:28	BXH	SW-DRYWT
% Saturation (Sat Paste)	140	%		1	05/25/23 10:33	JMB	29B
Alkalinity (Sat Paste)	2.5	meq/L		1	05/26/23 11:50	BMB	29B
Chloride (Sat Paste)	3.78	meq/L	0.010	5	05/30/23 20:21	MJM	29B
Chloride	26.6	mg/Kg	4.00	1	06/01/23 17:40	MJM	9056
Electrical Conductivity (Sat Paste)	0.469	mmhos/cm		1	05/25/23 10:33	JMB	29B
pH (Sat Paste)	8.23	s.u.		1	05/25/23 10:33	JMB	29B
Sulfate (Sat Paste)	0.725	meq/L	0.010	5	05/30/23 20:21	MJM	29B
Calcium (Sat Paste)	1.39	meq/L	0.050	10	05/26/23 13:16	APB	29B
Magnesium (Sat Paste)	0.548	meq/L	0.082	10	05/26/23 13:16	APB	29B
Sodium (Sat Paste)	3.09	meq/L	0.210	10	05/26/23 13:16	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel
Information : Project Number: 1705.A37
Morse, La

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REPORT OF ANALYSIS

Lab No : **52620**

Matrix: **Solids**

Sample ID : **SE-SB07 (22-23)**

Sampled: **5/4/2023 13:12**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	21.0	%		1	05/18/23 11:28	BXH	SW-DRYWT
% Saturation (Sat Paste)	117	%		1	05/25/23 10:33	JMB	29B
Alkalinity (Sat Paste)	3.2	meq/L		1	05/26/23 11:50	BMB	29B
Chloride (Sat Paste)	1.27	meq/L	0.010	5	05/30/23 20:34	MJM	29B
Chloride	22.5	mg/Kg	4.00	1	06/01/23 17:52	MJM	9056
Electrical Conductivity (Sat Paste)	0.567	mmhos/cm		1	05/25/23 10:33	JMB	29B
pH (Sat Paste)	8.26	s.u.		1	05/25/23 10:33	JMB	29B
Sulfate (Sat Paste)	0.928	meq/L	0.010	5	05/30/23 20:34	MJM	29B
Calcium (Sat Paste)	1.47	meq/L	0.050	10	05/26/23 13:20	APB	29B
Magnesium (Sat Paste)	0.681	meq/L	0.082	10	05/26/23 13:20	APB	29B
Sodium (Sat Paste)	3.71	meq/L	0.210	10	05/26/23 13:20	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

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Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52621**

Matrix: **Solids**

Sample ID : **SE-SB08 (0-2)**

Sampled: **5/4/2023 13:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	17.2	%		1	05/18/23 11:28	BXH	SW-DRYWT
% Saturation (Sat Paste)	60.9	%		1	05/25/23 10:33	JMB	29B
Alkalinity (Sat Paste)	0.2	meq/L		1	05/26/23 11:50	BMB	29B
Chloride (Sat Paste)	73.8	meq/L	0.014	50	05/30/23 20:47	MJM	29B
Chloride	619	mg/Kg	20.0	5	06/01/23 18:05	MJM	9056
Electrical Conductivity (Sat Paste)	7.55	mmhos/cm		1	05/25/23 10:33	JMB	29B
pH (Sat Paste)	6.77	s.u.		1	05/25/23 10:33	JMB	29B
Sulfate (Sat Paste)	0.239	meq/L	0.010	50	05/30/23 20:47	MJM	29B
Cation Exchange Capacity	9.09	meq/100g	0.100	20	05/30/23 10:23		29B
Exchangeable Sodium Percentage	13.7	%	0.100	1	05/25/23 10:33		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	18.3	Calc	0.100	20	05/26/23 13:24		29B
Calcium (Sat Paste)	11.4	meq/L	0.100	20	05/26/23 13:24	APB	29B
Magnesium (Sat Paste)	6.18	meq/L	0.164	20	05/26/23 13:24	APB	29B
Sodium (Sat Paste)	54.4	meq/L	0.420	20	05/26/23 13:24	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

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REPORT OF ANALYSIS

Lab No : **52622**

Matrix: **Solids**

Sample ID : **SE-SB08 (2-4)**

Sampled: **5/4/2023 13:47**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	21.0	%		1	05/18/23 11:28	BXH	SW-DRYWT
% Saturation (Sat Paste)	79.7	%		1	05/25/23 10:33	JMB	29B
Alkalinity (Sat Paste)	0.0	meq/L		1	05/26/23 11:50	BMB	29B
Chloride (Sat Paste)	54.7	meq/L	0.014	50	05/30/23 21:00	MJM	29B
Chloride	973	mg/Kg	20.0	5	06/01/23 18:17	MJM	9056
Electrical Conductivity (Sat Paste)	5.62	mmhos/cm		1	05/25/23 10:33	JMB	29B
pH (Sat Paste)	4.81	s.u.		1	05/25/23 10:33	JMB	29B
Sulfate (Sat Paste)	0.266	meq/L	0.010	50	05/30/23 21:00	MJM	29B
Cation Exchange Capacity	13.1	meq/100g	0.100	20	05/30/23 10:27		29B
Exchangeable Sodium Percentage	24.4	%	0.100	1	05/25/23 10:33		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	8.07	Calc	0.100	20	05/26/23 13:28		29B
Calcium (Sat Paste)	15.0	meq/L	0.100	20	05/26/23 13:28	APB	29B
Magnesium (Sat Paste)	9.24	meq/L	0.164	20	05/26/23 13:28	APB	29B
Sodium (Sat Paste)	28.1	meq/L	0.420	20	05/26/23 13:28	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

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REPORT OF ANALYSIS

Lab No : **52623**

Matrix: **Solids**

Sample ID : **SE-SB08 (4-6)**

Sampled: **5/4/2023 13:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.6	%		1	05/18/23 11:28	BXH	SW-DRYWT
% Saturation (Sat Paste)	86.1	%		1	05/25/23 10:33	JMB	29B
Alkalinity (Sat Paste)	0.4	meq/L		1	05/26/23 11:50	BMB	29B
Chloride (Sat Paste)	11.3	meq/L	0.010	5	05/30/23 21:13	MJM	29B
Chloride	208	mg/Kg	4.00	1	06/01/23 18:29	MJM	9056
Electrical Conductivity (Sat Paste)	1.38	mmhos/cm		1	05/25/23 10:33	JMB	29B
pH (Sat Paste)	7.15	s.u.		1	05/25/23 10:33	JMB	29B
Sulfate (Sat Paste)	0.507	meq/L	0.010	5	05/30/23 21:13	MJM	29B
Calcium (Sat Paste)	2.96	meq/L	0.050	10	05/26/23 13:41	APB	29B
Magnesium (Sat Paste)	1.66	meq/L	0.082	10	05/26/23 13:41	APB	29B
Sodium (Sat Paste)	7.60	meq/L	0.210	10	05/26/23 13:41	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

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Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52624**

Matrix: **Solids**

Sample ID : **SE-SB08 (6-8)**

Sampled: **5/4/2023 13:52**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	14.3	%		1	05/18/23 11:28	BXH	SW-DRYWT
% Saturation (Sat Paste)	82.4	%		1	05/25/23 10:33	JMB	29B
Alkalinity (Sat Paste)	0.2	meq/L		1	05/26/23 11:50	BMB	29B
Chloride (Sat Paste)	6.89	meq/L	0.010	5	05/30/23 21:26	MJM	29B
Chloride	162	mg/Kg	4.00	1	06/01/23 18:42	MJM	9056
Electrical Conductivity (Sat Paste)	0.865	mmhos/cm		1	05/25/23 10:33	JMB	29B
pH (Sat Paste)	7.01	s.u.		1	05/25/23 10:33	JMB	29B
Sulfate (Sat Paste)	0.500	meq/L	0.010	5	05/30/23 21:26	MJM	29B
Calcium (Sat Paste)	1.42	meq/L	0.050	10	05/26/23 13:45	APB	29B
Magnesium (Sat Paste)	0.770	meq/L	0.082	10	05/26/23 13:45	APB	29B
Sodium (Sat Paste)	5.31	meq/L	0.210	10	05/26/23 13:45	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

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Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52625**

Matrix: **Solids**

Sample ID : **SE-SB08 (8-10)**

Sampled: **5/4/2023 14:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	15.7	%		1	05/18/23 11:58	BXH	SW-DRYWT
% Saturation (Sat Paste)	56.7	%		1	05/25/23 10:33	JMB	29B
Alkalinity (Sat Paste)	0.1	meq/L		1	05/26/23 11:50	BMB	29B
Chloride (Sat Paste)	20.6	meq/L	0.010	10	05/30/23 21:38	MJM	29B
Chloride	267	mg/Kg	4.00	1	06/01/23 18:54	MJM	9056
Electrical Conductivity (Sat Paste)	2.31	mmhos/cm		1	05/25/23 10:33	JMB	29B
pH (Sat Paste)	6.75	s.u.		1	05/25/23 10:33	JMB	29B
Sulfate (Sat Paste)	0.219	meq/L	0.010	10	05/30/23 21:38	MJM	29B
Calcium (Sat Paste)	7.80	meq/L	0.100	20	05/26/23 13:49	APB	29B
Magnesium (Sat Paste)	4.60	meq/L	0.164	20	05/26/23 13:49	APB	29B
Sodium (Sat Paste)	29.2	meq/L	0.420	20	05/26/23 13:49	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

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REPORT OF ANALYSIS

Lab No : **52626**

Matrix: **Solids**

Sample ID : **SE-SB08 (10-12)**

Sampled: **5/4/2023 14:02**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	12.9	%		1	05/18/23 11:58	BXH	SW-DRYWT
% Saturation (Sat Paste)	41.7	%		1	05/25/23 10:33	JMB	29B
Alkalinity (Sat Paste)	0.1	meq/L		1	05/26/23 11:50	BMB	29B
Chloride (Sat Paste)	34.2	meq/L	0.010	20	05/30/23 21:51	MJM	29B
Chloride	524	mg/Kg	8.00	2	06/01/23 19:06	MJM	9056
Electrical Conductivity (Sat Paste)	3.68	mmhos/cm		1	05/25/23 10:33	JMB	29B
pH (Sat Paste)	6.26	s.u.		1	05/25/23 10:33	JMB	29B
Sulfate (Sat Paste)	0.198	meq/L	0.010	20	05/30/23 21:51	MJM	29B
Calcium (Sat Paste)	8.03	meq/L	0.100	20	05/26/23 13:53	APB	29B
Magnesium (Sat Paste)	4.76	meq/L	0.164	20	05/26/23 13:53	APB	29B
Sodium (Sat Paste)	20.3	meq/L	0.420	20	05/26/23 13:53	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

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REPORT OF ANALYSIS

Lab No : **52627**

Matrix: **Solids**

Sample ID : **SE-SB08 (12-14)**

Sampled: **5/4/2023 14:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	22.4	%		1	05/18/23 11:58	BXH	SW-DRYWT
% Saturation (Sat Paste)	46.2	%		1	05/25/23 10:33	JMB	29B
Alkalinity (Sat Paste)	0.0	meq/L		1	05/26/23 11:50	BMB	29B
Chloride (Sat Paste)	38.8	meq/L	0.010	20	05/30/23 22:56	MJM	29B
Chloride	525	mg/Kg	8.00	2	06/01/23 19:19	MJM	9056
Electrical Conductivity (Sat Paste)	4.14	mmhos/cm		1	05/25/23 10:33	JMB	29B
pH (Sat Paste)	6.11	s.u.		1	05/25/23 10:33	JMB	29B
Sulfate (Sat Paste)	0.217	meq/L	0.010	20	05/30/23 22:56	MJM	29B
Calcium (Sat Paste)	16.2	meq/L	0.100	20	05/26/23 14:01	APB	29B
Magnesium (Sat Paste)	6.37	meq/L	0.164	20	05/26/23 14:01	APB	29B
Sodium (Sat Paste)	15.1	meq/L	0.420	20	05/26/23 14:01	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Information : Project Number: 1705.A37
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Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52628**

Matrix: **Solids**

Sample ID : **SE-SB08 (14-16)**

Sampled: **5/4/2023 14:07**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	21.1	%		1	05/18/23 11:58	BXH	SW-DRYWT
% Saturation (Sat Paste)	51.8	%		1	05/25/23 10:33	JMB	29B
Alkalinity (Sat Paste)	0.0	meq/L		1	05/26/23 11:50	BMB	29B
Chloride (Sat Paste)	84.1	meq/L	0.014	50	05/30/23 23:09	MJM	29B
Chloride	1090	mg/Kg	20.0	5	06/01/23 20:33	MJM	9056
Electrical Conductivity (Sat Paste)	8.34	mmhos/cm		1	05/25/23 10:33	JMB	29B
pH (Sat Paste)	6.37	s.u.		1	05/25/23 10:33	JMB	29B
Sulfate (Sat Paste)	0.193	meq/L	0.010	50	05/30/23 23:09	MJM	29B
Calcium (Sat Paste)	33.5	meq/L	0.100	20	05/26/23 14:05	APB	29B
Magnesium (Sat Paste)	15.9	meq/L	0.164	20	05/26/23 14:05	APB	29B
Sodium (Sat Paste)	31.4	meq/L	0.420	20	05/26/23 14:05	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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REPORT OF ANALYSIS

Lab No : **52629**

Matrix: **Solids**

Sample ID : **SE-SB08 (16-18)**

Sampled: **5/4/2023 14:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	23.7	%		1	05/18/23 11:58	BXH	SW-DRYWT
% Saturation (Sat Paste)	132	%		1	05/25/23 10:33	JMB	29B
Alkalinity (Sat Paste)	0.4	meq/L		1	05/26/23 11:50	BMB	29B
Chloride (Sat Paste)	4.52	meq/L	0.010	5	05/30/23 23:21	MJM	29B
Chloride	75.3	mg/Kg	4.00	1	06/01/23 20:45	MJM	9056
Electrical Conductivity (Sat Paste)	0.622	mmhos/cm		1	05/25/23 10:33	JMB	29B
pH (Sat Paste)	7.63	s.u.		1	05/25/23 10:33	JMB	29B
Sulfate (Sat Paste)	0.463	meq/L	0.010	5	05/30/23 23:21	MJM	29B
Calcium (Sat Paste)	1.88	meq/L	0.050	10	05/26/23 14:09	APB	29B
Magnesium (Sat Paste)	0.807	meq/L	0.082	10	05/26/23 14:09	APB	29B
Sodium (Sat Paste)	2.60	meq/L	0.210	10	05/26/23 14:09	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel
Information : Project Number: 1705.A37
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REPORT OF ANALYSIS

Lab No : **52630**

Matrix: **Solids**

Sample ID : **SE-SB08 (18-20)**

Sampled: **5/4/2023 14:17**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	27.1	%		1	05/18/23 11:58	BXH	SW-DRYWT
% Saturation (Sat Paste)	142	%		1	05/25/23 10:33	JMB	29B
Alkalinity (Sat Paste)	2.0	meq/L		1	05/26/23 11:50	BMB	29B
Chloride (Sat Paste)	0.782	meq/L	0.010	5	05/30/23 23:34	MJM	29B
Chloride	27.2	mg/Kg	4.00	1	06/01/23 20:57	MJM	9056
Electrical Conductivity (Sat Paste)	0.346	mmhos/cm		1	05/25/23 10:33	JMB	29B
pH (Sat Paste)	8.17	s.u.		1	05/25/23 10:33	JMB	29B
Sulfate (Sat Paste)	0.296	meq/L	0.010	5	05/30/23 23:34	MJM	29B
Calcium (Sat Paste)	1.15	meq/L	0.050	10	05/26/23 14:13	APB	29B
Magnesium (Sat Paste)	0.522	meq/L	0.082	10	05/26/23 14:13	APB	29B
Sodium (Sat Paste)	1.87	meq/L	0.210	10	05/26/23 14:13	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
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REPORT OF ANALYSIS

Lab No : **52631**

Matrix: **Solids**

Sample ID : **SE-SB08 (20-22)**

Sampled: **5/4/2023 14:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	20.8	%		1	05/18/23 11:58	BXH	SW-DRYWT
% Saturation (Sat Paste)	111	%		1	05/25/23 10:33	JMB	29B
Alkalinity (Sat Paste)	2.0	meq/L		1	05/26/23 11:50	BMB	29B
Chloride (Sat Paste)	1.18	meq/L	0.010	5	05/30/23 23:47	MJM	29B
Chloride	15.0	mg/Kg	4.00	1	06/01/23 21:10	MJM	9056
Electrical Conductivity (Sat Paste)	0.398	mmhos/cm		1	05/25/23 10:33	JMB	29B
pH (Sat Paste)	8.17	s.u.		1	05/25/23 10:33	JMB	29B
Sulfate (Sat Paste)	0.406	meq/L	0.010	5	05/30/23 23:47	MJM	29B
Calcium (Sat Paste)	1.05	meq/L	0.050	10	05/26/23 14:17	APB	29B
Magnesium (Sat Paste)	0.529	meq/L	0.082	10	05/26/23 14:17	APB	29B
Sodium (Sat Paste)	2.26	meq/L	0.210	10	05/26/23 14:17	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

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REPORT OF ANALYSIS

Lab No : **52632**

Matrix: **Solids**

Sample ID : **SE-SB08 (22-24)**

Sampled: **5/4/2023 14:27**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	23.8	%		1	05/18/23 11:58	BXH	SW-DRYWT
% Saturation (Sat Paste)	92.1	%		1	05/25/23 14:58	JMB	29B
Alkalinity (Sat Paste)	1.5	meq/L		1	05/26/23 14:20	BMB	29B
Chloride (Sat Paste)	0.600	meq/L	0.010	5	06/01/23 15:13	MJM	29B
Chloride	10.2	mg/Kg	4.00	1	06/01/23 21:22	MJM	9056
Electrical Conductivity (Sat Paste)	0.309	mmhos/cm		1	05/25/23 14:58	JMB	29B
pH (Sat Paste)	8.01	s.u.		1	05/25/23 14:58	JMB	29B
Sulfate (Sat Paste)	0.590	meq/L	0.010	5	06/01/23 15:13	MJM	29B
Calcium (Sat Paste)	1.53	meq/L	0.050	10	05/26/23 14:30	APB	29B
Magnesium (Sat Paste)	0.297	meq/L	0.082	10	05/26/23 14:30	APB	29B
Sodium (Sat Paste)	2.22	meq/L	0.210	10	05/26/23 14:30	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

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Project Gastel
Information : Project Number: 1705.A37
Morse, La

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REPORT OF ANALYSIS

Lab No : **52633**

Matrix: **Solids**

Sample ID : **SE-SB09 (0-2)**

Sampled: **5/4/2023 15:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	17.6	%		1	05/18/23 11:58	BXH	SW-DRYWT
% Saturation (Sat Paste)	51.2	%		1	05/25/23 14:58	JMB	29B
Alkalinity (Sat Paste)	0.2	meq/L		1	05/26/23 14:20	BMB	29B
Chloride (Sat Paste)	35.1	meq/L	0.010	20	06/01/23 15:26	MJM	29B
Chloride	400	mg/Kg	8.00	2	06/01/23 21:35	MJM	9056
Electrical Conductivity (Sat Paste)	3.88	mmhos/cm		1	05/25/23 14:58	JMB	29B
pH (Sat Paste)	7.02	s.u.		1	05/25/23 14:58	JMB	29B
Sulfate (Sat Paste)	0.296	meq/L	0.010	20	06/01/23 15:26	MJM	29B
Cation Exchange Capacity	6.57	meq/100g	0.100	10	05/30/23 10:32		29B
Exchangeable Sodium Percentage	27.2	%	0.100	1	05/25/23 14:58		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	17.5	Calc	0.100	20	05/26/23 14:34		29B
Calcium (Sat Paste)	3.73	meq/L	0.100	20	05/26/23 14:34	APB	29B
Magnesium (Sat Paste)	1.93	meq/L	0.164	20	05/26/23 14:34	APB	29B
Sodium (Sat Paste)	29.4	meq/L	0.420	20	05/26/23 14:34	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

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REPORT OF ANALYSIS

Lab No : **52634**

Matrix: **Solids**

Sample ID : **SE-SB09 (2-4)**

Sampled: **5/4/2023 15:07**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.3	%		1	05/18/23 11:58	BXH	SW-DRYWT
% Saturation (Sat Paste)	70.7	%		1	05/25/23 14:58	JMB	29B
Alkalinity (Sat Paste)	0.0	meq/L		1	05/26/23 14:20	BMB	29B
Chloride (Sat Paste)	48.3	meq/L	0.010	20	06/01/23 15:39	MJM	29B
Chloride	954	mg/Kg	8.00	2	06/01/23 21:47	MJM	9056
Electrical Conductivity (Sat Paste)	5.20	mmhos/cm		1	05/25/23 14:58	JMB	29B
pH (Sat Paste)	5.08	s.u.		1	05/25/23 14:58	JMB	29B
Sulfate (Sat Paste)	0.409	meq/L	0.010	20	06/01/23 15:39	MJM	29B
Cation Exchange Capacity	12.5	meq/100g	0.100	20	05/30/23 10:36		29B
Exchangeable Sodium Percentage	25.0	%	0.100	1	05/25/23 14:58		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	7.72	Calc	0.100	20	05/26/23 14:38		29B
Calcium (Sat Paste)	13.8	meq/L	0.100	20	05/26/23 14:38	APB	29B
Magnesium (Sat Paste)	8.71	meq/L	0.164	20	05/26/23 14:38	APB	29B
Sodium (Sat Paste)	25.9	meq/L	0.420	20	05/26/23 14:38	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
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REPORT OF ANALYSIS

Lab No : **52635**

Matrix: **Solids**

Sample ID : **SE-SB09 (4-6)**

Sampled: **5/4/2023 15:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	20.0	%		1	05/18/23 12:25	BXH	SW-DRYWT
% Saturation (Sat Paste)	105	%		1	05/25/23 14:58	JMB	29B
Alkalinity (Sat Paste)	2.2	meq/L		1	05/26/23 14:20	BMB	29B
Chloride (Sat Paste)	3.03	meq/L	0.010	5	06/01/23 15:54	MJM	29B
Chloride	67.8	mg/Kg	4.00	1	06/01/23 21:59	MJM	9056
Electrical Conductivity (Sat Paste)	0.700	mmhos/cm		1	05/25/23 14:58	JMB	29B
pH (Sat Paste)	8.31	s.u.		1	05/25/23 14:58	JMB	29B
Sulfate (Sat Paste)	1.13	meq/L	0.010	5	06/01/23 15:54	MJM	29B
Calcium (Sat Paste)	1.02	meq/L	0.050	10	05/26/23 14:42	APB	29B
Magnesium (Sat Paste)	0.538	meq/L	0.082	10	05/26/23 14:42	APB	29B
Sodium (Sat Paste)	5.30	meq/L	0.210	10	05/26/23 14:42	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

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Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52636**

Matrix: **Solids**

Sample ID : **SE-SB09 (6-8)**

Sampled: **5/4/2023 15:17**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.2	%		1	05/18/23 12:25	BXH	SW-DRYWT
% Saturation (Sat Paste)	92.3	%		1	05/25/23 14:58	JMB	29B
Alkalinity (Sat Paste)	0.3	meq/L		1	05/26/23 14:20	BMB	29B
Chloride (Sat Paste)	2.53	meq/L	0.010	5	06/01/23 16:06	MJM	29B
Chloride	41.1	mg/Kg	4.00	1	06/01/23 22:49	MJM	9056
Electrical Conductivity (Sat Paste)	0.437	mmhos/cm		1	05/25/23 14:58	JMB	29B
pH (Sat Paste)	7.13	s.u.		1	05/25/23 14:58	JMB	29B
Sulfate (Sat Paste)	0.896	meq/L	0.010	5	06/01/23 16:06	MJM	29B
Calcium (Sat Paste)	0.614	meq/L	0.050	10	05/26/23 14:46	APB	29B
Magnesium (Sat Paste)	0.198	meq/L	0.082	10	05/26/23 14:46	APB	29B
Sodium (Sat Paste)	3.36	meq/L	0.210	10	05/26/23 14:46	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel
Information : Project Number: 1705.A37
Morse, La

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REPORT OF ANALYSIS

Lab No : **52637**

Matrix: **Solids**

Sample ID : **SE-SB09 (8-10)**

Sampled: **5/4/2023 15:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	17.6	%		1	05/18/23 12:25	BXH	SW-DRYWT
% Saturation (Sat Paste)	67.2	%		1	05/25/23 14:58	JMB	29B
Alkalinity (Sat Paste)	0.4	meq/L		1	05/26/23 14:20	BMB	29B
Chloride (Sat Paste)	4.62	meq/L	0.010	5	06/01/23 16:19	MJM	29B
Chloride	82.8	mg/Kg	4.00	1	06/01/23 23:01	MJM	9056
Electrical Conductivity (Sat Paste)	0.677	mmhos/cm		1	05/25/23 14:58	JMB	29B
pH (Sat Paste)	7.36	s.u.		1	05/25/23 14:58	JMB	29B
Sulfate (Sat Paste)	0.925	meq/L	0.010	5	06/01/23 16:19	MJM	29B
Calcium (Sat Paste)	0.863	meq/L	0.050	10	05/26/23 14:50	APB	29B
Magnesium (Sat Paste)	0.448	meq/L	0.082	10	05/26/23 14:50	APB	29B
Sodium (Sat Paste)	4.82	meq/L	0.210	10	05/26/23 14:50	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel
Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023
Revised Report Date: 11/13/2024
Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52638**

Matrix: **Solids**

Sample ID : **SE-SB09 (10-12)**

Sampled: **5/4/2023 15:22**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.2	%		1	05/18/23 12:25	BXH	SW-DRYWT
% Saturation (Sat Paste)	54.8	%		1	05/25/23 14:58	JMB	29B
Alkalinity (Sat Paste)	0.2	meq/L		1	05/26/23 14:20	BMB	29B
Chloride (Sat Paste)	18.8	meq/L	0.010	10	06/01/23 16:32	MJM	29B
Chloride	312	mg/Kg	4.00	1	06/01/23 23:13	MJM	9056
Electrical Conductivity (Sat Paste)	2.18	mmhos/cm		1	05/25/23 14:58	JMB	29B
pH (Sat Paste)	7.15	s.u.		1	05/25/23 14:58	JMB	29B
Sulfate (Sat Paste)	0.521	meq/L	0.010	10	06/01/23 16:32	MJM	29B
Calcium (Sat Paste)	2.05	meq/L	0.050	10	05/26/23 14:54	APB	29B
Magnesium (Sat Paste)	1.22	meq/L	0.082	10	05/26/23 14:54	APB	29B
Sodium (Sat Paste)	16.2	meq/L	0.210	10	05/26/23 14:54	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023

Revised Report Date: 11/13/2024

Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52639**

Matrix: **Solids**

Sample ID : **SE-SB09 (12-14)**

Sampled: **5/4/2023 15:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	23.7	%		1	05/18/23 12:25	BXH	SW-DRYWT
% Saturation (Sat Paste)	67.1	%		1	05/25/23 14:58	JMB	29B
Alkalinity (Sat Paste)	1.1	meq/L		1	05/26/23 14:20	BMB	29B
Chloride (Sat Paste)	119	meq/L	0.014	50	06/01/23 17:23	MJM	29B
Chloride	2160	mg/Kg	20.0	5	06/01/23 23:26	MJM	9056
Electrical Conductivity (Sat Paste)	12.4	mmhos/cm		1	05/25/23 14:58	JMB	29B
pH (Sat Paste)	7.61	s.u.		1	05/25/23 14:58	JMB	29B
Sulfate (Sat Paste)	0.217	meq/L	0.010	50	06/01/23 17:23	MJM	29B
Calcium (Sat Paste)	1.51	meq/L	0.100	20	05/26/23 14:58	APB	29B
Magnesium (Sat Paste)	0.485	meq/L	0.164	20	05/26/23 14:58	APB	29B
Sodium (Sat Paste)	115	meq/L	0.420	20	05/26/23 14:58	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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91 Apollo Rd
Scott , LA 70583

Project Gastel
Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023
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Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52640**

Matrix: **Solids**

Sample ID : **SE-SB09 (14-16)**

Sampled: **5/4/2023 15:32**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	24.4	%		1	05/18/23 12:25	BXH	SW-DRYWT
% Saturation (Sat Paste)	72.1	%		1	05/25/23 14:58	JMB	29B
Alkalinity (Sat Paste)	1.0	meq/L		1	05/26/23 14:20	BMB	29B
Chloride (Sat Paste)	205	meq/L	0.028	100	06/01/23 17:36	MJM	29B
Chloride	3590	mg/Kg	40.0	10	06/02/23 13:16	MJM	9056
Electrical Conductivity (Sat Paste)	20.2	mmhos/cm		1	05/25/23 14:58	JMB	29B
pH (Sat Paste)	7.65	s.u.		1	05/25/23 14:58	JMB	29B
Sulfate (Sat Paste)	0.234	meq/L	0.020	100	06/01/23 17:36	MJM	29B
Calcium (Sat Paste)	12.6	meq/L	0.500	100	05/26/23 15:02	APB	29B
Magnesium (Sat Paste)	4.50	meq/L	0.820	100	05/26/23 15:02	APB	29B
Sodium (Sat Paste)	187	meq/L	2.10	100	05/26/23 15:02	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023

Revised Report Date: 11/13/2024

Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52641**

Matrix: **Solids**

Sample ID : **SE-SB09 (16-18)**

Sampled: **5/4/2023 15:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	27.2	%		1	05/18/23 12:25	BXH	SW-DRYWT
% Saturation (Sat Paste)	130	%		1	05/25/23 14:58	JMB	29B
Alkalinity (Sat Paste)	0.6	meq/L		1	05/26/23 14:20	BMB	29B
Chloride (Sat Paste)	55.9	meq/L	0.014	50	06/01/23 17:49	MJM	29B
Chloride	2020	mg/Kg	20.0	5	06/02/23 13:28	MJM	9056
Electrical Conductivity (Sat Paste)	5.84	mmhos/cm		1	05/25/23 14:58	JMB	29B
pH (Sat Paste)	7.50	s.u.		1	05/25/23 14:58	JMB	29B
Sulfate (Sat Paste)	0.281	meq/L	0.010	50	06/01/23 17:49	MJM	29B
Calcium (Sat Paste)	16.1	meq/L	0.100	20	05/26/23 15:06	APB	29B
Magnesium (Sat Paste)	8.35	meq/L	0.164	20	05/26/23 15:06	APB	29B
Sodium (Sat Paste)	29.4	meq/L	0.420	20	05/26/23 15:06	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023

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Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52642**

Matrix: **Solids**

Sample ID : **SE-SB09 (18-20)**

Sampled: **5/4/2023 15:42**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	25.6	%		1	05/18/23 12:25	BXH	SW-DRYWT
% Saturation (Sat Paste)	121	%		1	05/25/23 14:58	JMB	29B
Alkalinity (Sat Paste)	0.3	meq/L		1	05/26/23 14:20	BMB	29B
Chloride (Sat Paste)	29.5	meq/L	0.010	20	06/01/23 18:02	MJM	29B
Chloride	964	mg/Kg	8.00	2	06/02/23 13:40	MJM	9056
Electrical Conductivity (Sat Paste)	3.21	mmhos/cm		1	05/25/23 14:58	JMB	29B
pH (Sat Paste)	6.98	s.u.		1	05/25/23 14:58	JMB	29B
Sulfate (Sat Paste)	0.275	meq/L	0.010	20	06/01/23 18:02	MJM	29B
Calcium (Sat Paste)	9.87	meq/L	0.100	20	05/26/23 15:19	APB	29B
Magnesium (Sat Paste)	5.33	meq/L	0.164	20	05/26/23 15:19	APB	29B
Sodium (Sat Paste)	13.7	meq/L	0.420	20	05/26/23 15:19	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023

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Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52643**

Matrix: **Solids**

Sample ID : **SE-SB09 (20-22)**

Sampled: **5/4/2023 15:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	16.6	%		1	05/18/23 12:25	BXH	SW-DRYWT
% Saturation (Sat Paste)	105	%		1	05/25/23 14:58	JMB	29B
Alkalinity (Sat Paste)	1.2	meq/L		1	05/26/23 14:20	BMB	29B
Chloride (Sat Paste)	51.0	meq/L	0.014	50	06/01/23 18:15	MJM	29B
Chloride	1140	mg/Kg	20.0	5	06/02/23 13:53	MJM	9056
Electrical Conductivity (Sat Paste)	5.50	mmhos/cm		1	05/25/23 14:58	JMB	29B
pH (Sat Paste)	7.74	s.u.		1	05/25/23 14:58	JMB	29B
Sulfate (Sat Paste)	0.653	meq/L	0.010	50	06/01/23 18:15	MJM	29B
Calcium (Sat Paste)	3.03	meq/L	0.100	20	05/26/23 15:23	APB	29B
Magnesium (Sat Paste)	1.52	meq/L	0.164	20	05/26/23 15:23	APB	29B
Sodium (Sat Paste)	45.7	meq/L	0.420	20	05/26/23 15:23	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023

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Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52644**

Matrix: **Solids**

Sample ID : **SE-SB09 (22-24)**

Sampled: **5/4/2023 15:52**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.7	%		1	05/18/23 12:25	BXH	SW-DRYWT
% Saturation (Sat Paste)	59.4	%		1	05/25/23 14:58	JMB	29B
Alkalinity (Sat Paste)	0.5	meq/L		1	05/26/23 14:20	BMB	29B
Chloride (Sat Paste)	71.1	meq/L	0.014	50	06/01/23 18:28	MJM	29B
Chloride	1200	mg/Kg	20.0	5	06/02/23 14:05	MJM	9056
Electrical Conductivity (Sat Paste)	7.36	mmhos/cm		1	05/25/23 14:58	JMB	29B
pH (Sat Paste)	7.20	s.u.		1	05/25/23 14:58	JMB	29B
Sulfate (Sat Paste)	0.249	meq/L	0.010	50	06/01/23 18:28	MJM	29B
Calcium (Sat Paste)	7.77	meq/L	0.100	20	05/26/23 15:27	APB	29B
Magnesium (Sat Paste)	3.93	meq/L	0.164	20	05/26/23 15:27	APB	29B
Sodium (Sat Paste)	57.4	meq/L	0.420	20	05/26/23 15:27	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023

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Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52645**

Matrix: **Solids**

Sample ID : **SE-SB09 (24-26)**

Sampled: **5/4/2023 16:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.2	%		1	05/19/23 14:25	TIS	SW-DRYWT
% Saturation (Sat Paste)	60.9	%		1	05/25/23 14:58	JMB	29B
Alkalinity (Sat Paste)	0.6	meq/L		1	05/26/23 14:20	BMB	29B
Chloride (Sat Paste)	94.1	meq/L	0.014	50	06/01/23 18:41	MJM	29B
Chloride	1760	mg/Kg	20.0	5	06/02/23 14:42	MJM	9056
Electrical Conductivity (Sat Paste)	9.67	mmhos/cm		1	05/25/23 14:58	JMB	29B
pH (Sat Paste)	7.50	s.u.		1	05/25/23 14:58	JMB	29B
Sulfate (Sat Paste)	0.212	meq/L	0.010	50	06/01/23 18:41	MJM	29B
Calcium (Sat Paste)	9.00	meq/L	0.100	20	05/26/23 15:31	APB	29B
Magnesium (Sat Paste)	4.51	meq/L	0.164	20	05/26/23 15:31	APB	29B
Sodium (Sat Paste)	78.2	meq/L	0.420	20	05/26/23 15:31	APB	29B

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023

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Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52646**

Matrix: **Aqueous**

Sample ID : **TRIP BLANK**

Sampled: **5/4/2023 7:30**

Analytical Method: MAVPH LA

Prep Batch(es): **G180765** 05/12/23 09:30

Prep Method: MAVPH LA (GC/MS) (Aqueous)

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic >C6-C8	<5.00	µg/L	5.00	1	05/12/23 12:12	SNC	G180772
Aliphatic >C8-C10	<13.0	µg/L	13.0	1	05/12/23 12:12	SNC	G180772
Aromatic >C8-C10	<5.00	µg/L	5.00	1	05/12/23 12:12		G180772
Surrogate: Toluene-d8	74.6		Limits: 70-130%	1	05/12/23 12:12	SNC	G180772

**Qualifiers/
Definitions**

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023

Revised Report Date: 11/13/2024

Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **52647**

Matrix: **Aqueous**

Sample ID : **FIELD BLANK**

Sampled: **5/4/2023 8:00**

Analytical Method: MAVPH LA

Prep Batch(es): **G180765** 05/12/23 09:30

Prep Method: MAVPH LA (GC/MS) (Aqueous)

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic >C6-C8	<5.00	µg/L	5.00	1	05/12/23 12:34	SNC	G180772
Aliphatic >C8-C10	<13.0	µg/L	13.0	1	05/12/23 12:34	SNC	G180772
Aromatic >C8-C10	<5.00	µg/L	5.00	1	05/12/23 12:34		G180772
Surrogate: Toluene-d8	78.4		Limits: 70-130%	1	05/12/23 12:34	SNC	G180772

**Qualifiers/
Definitions**

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott , LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023

Revised Report Date: 11/13/2024

Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **54920**

Matrix: **TCLP**

Sample ID : **SE-SB06 (12-14)**

Sampled: **5/4/2023 10:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
SPLP Extraction	Leachate			1	06/16/23 15:00	ALM	1312
SPLP Chloride	274	mg/L	1.60	10	06/20/23 10:14	SRJ	9056
SPLP Sodium	201	mg/L	0.556	1	06/19/23 17:22		6010D

**Qualifiers/
Definitions**

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
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Project Gastel
Information : Project Number: 1705.A37
Morse, La

Original Report Date : 06/21/2023
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Received : 05/09/2023

Report Number : **23-129-9034**

REPORT OF ANALYSIS

Lab No : **54921**

Matrix: **TCLP**

Sample ID : **SE-SB06 (26-27)**

Sampled: **5/4/2023 10:57**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
SPLP Extraction	Leachate			1	06/16/23 15:00	ALM	1312
SPLP Chloride	206	mg/L	1.60	10	06/20/23 10:42	SRJ	9056
SPLP Sodium	179	mg/L	0.556	1	06/19/23 17:28	BKN	6010D

Qualifiers/ Definitions

* Outside QC Limit
MQL Method Quantitation Limit

DF Dilution Factor

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep: A82558 **QC Analytical Batch(es):** A82645
QC Prep Batch Method: **Analysis Method:** 29B
Analysis Description: True Total Barium

Lab Reagent Blank

Associated Lab Samples: 52595, 52596, 52597, 52598, 52599, 52600, 52601, 52602

Parameter	Units	Blank Result	MQL	Analyzed
True Total Barium	mg/Kg	< 500	500	05/22/23 12:50

Laboratory Control Sample

LCS-A82558

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
True Total Barium	mg/Kg	10000	10000	100	80-120

Matrix Spike & Matrix Spike Duplicate

A 52595-A82377-MS-A82558 A 52595-A82377-MSD-A82558

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
True Total Barium	mg/Kg	127	9800	10000	10100	10200	102	101	75-125	0.9	20.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep:	A82640	QC Analytical Batch(es):	A82835
QC Prep Batch Method:		Analysis Method:	29B
		Analysis Description:	Cation Exchange Capacity

Lab Reagent Blank

Associated Lab Samples: 52595, 52596, 52609, 52610, 52621, 52622, 52633, 52634

Parameter	Units	Blank Result	MQL	Analyzed
Total Sodium CEC	mg/Kg	< 100	100	05/30/23 10:03

Duplicate A 52853-A82477-DUP-A82640

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Sodium CEC	mg/Kg	2200	2210	0.4	30.0	05/30/23 10:53

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-9034

QC Prep: A82641

QC Prep Batch Method: 29B

QC Analytical Batch(es): A82836

Analysis Method: 29B

Analysis Description: Exchangeable Sodium Percentage

Duplicate A 52853-A82477-DUP-A82641

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Sodium ESP	meq/100g	9.94	9.49	4.6	30.0	05/30/23 11:54

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-9034

QC Analytical Batch: A82355

Analysis Method: 29B

Analysis Description: Soxhlet Oil and Grease

Lab Reagent Blank

Associated Lab Samples: 52595, 52596, 52601, 52602

Parameter	Units	Blank Result	MQL	Analyzed
Oil & Grease	%	< 0.10	0.10	05/09/23 16:27

Laboratory Control Sample

LCS

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Oil & Grease	%	1.14	1.18	104	70-130

Duplicate

A 90755-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Oil & Grease	%	< 0.10	<0.10	0.0	35.0	05/09/23 16:27

Matrix Spike

A 90755-MS

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	%Rec Limits	Max RPD
Oil & Grease	%	< 0.10	1.47		1.47		100	50-150	

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-9034

QC Prep:	A82537	QC Analytical Batch(es):	A82633,A82761,A82622,A82690
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Alkalinity

Duplicate A 52575-A82376-DUP-A82537

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Alkalinity (Sat Paste)	meq/L	0.7	0.9	25.0	30.0	05/26/23 09:24

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-9034

QC Prep:	A82582	QC Analytical Batch(es):	A82692,A82763,A82693,A82743
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Alkalinity

Duplicate A 52607-A82377-DUP-A82582

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Alkalinity (Sat Paste)	meq/L	1.3	1.3	0.0	30.0	05/26/23 11:05

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-9034

QC Prep:	A82585	QC Analytical Batch(es):	A82735,A82803,A82733,A82743
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Alkalinity

Duplicate A 52626-A82475-DUP-A82585

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Alkalinity (Sat Paste)	meq/L	0.1	0.1	0.0	30.0	05/26/23 11:50

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-9034

QC Prep:	A82642	QC Analytical Batch(es):	A82736,A82804,A82734,A82743
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Alkalinity

Duplicate A 52645-A82476-DUP-A82642

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Alkalinity (Sat Paste)	meq/L	0.6	0.5	18.1	30.0	05/26/23 14:20

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep:	A82537	QC Analytical Batch(es):	A82633,A82761,A82622,A82690
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Anions by Ion Chromatography

Duplicate A 52575-A82376-DUP-A82537

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Chloride (Sat Paste)	meq/L	7.06	5.22	29.9	30.0	05/25/23 18:22
Sulfate (Sat Paste)	meq/L	0.712	0.545	26.5	30.0	05/25/23 18:22

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep:	A82582	QC Analytical Batch(es):	A82692,A82763,A82693,A82743
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Anions by Ion Chromatography

Duplicate A 52607-A82377-DUP-A82582

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Chloride (Sat Paste)	meq/L	226	229	1.3	30.0	05/26/23 17:36
Sulfate (Sat Paste)	meq/L	0.207	0.221	6.5	30.0	05/26/23 17:36

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-9034

QC Prep:	A82585	QC Analytical Batch(es):	A82735,A82803,A82733,A82743
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Anions by Ion Chromatography

Duplicate A 52626-A82475-DUP-A82585

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Chloride (Sat Paste)	meq/L	34.2	35.2	2.8	30.0	05/30/23 22:43
Sulfate (Sat Paste)	meq/L	0.198	0.197	0.5	30.0	05/30/23 22:43

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep:	A82642	QC Analytical Batch(es):	A82736,A82804,A82734,A82743
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Anions by Ion Chromatography

Duplicate A 52645-A82476-DUP-A82642

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Chloride (Sat Paste)	meq/L	94.1	94.6	0.5	30.0	06/01/23 18:53
Sulfate (Sat Paste)	meq/L	0.212	0.217	2.3	30.0	06/01/23 18:53

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep:	A82537	QC Analytical Batch(es):	A82633,A82761,A82622,A82690
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 52575-A82376-DUP-A82537

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Saturation (Sat Paste)	%	84.1	82.8	1.5	30.0	05/22/23 10:05
Electrical Conductivity (Sat Paste)	mmhos/cm	0.939	0.732	24.7	30.0	05/22/23 10:05
pH (Sat Paste)	s.u.	7.59	7.57	0.2	30.0	05/22/23 10:05

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep:	A82582	QC Analytical Batch(es):	A82692,A82763,A82693,A82743
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 52607-A82377-DUP-A82582

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Saturation (Sat Paste)	%	51.4	52.3	1.7	30.0	05/25/23 09:55
Electrical Conductivity (Sat Paste)	mmhos/cm	22.0	22.5	2.2	30.0	05/25/23 09:55
pH (Sat Paste)	s.u.	7.75	7.73	0.2	30.0	05/25/23 09:55

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep:	A82585	QC Analytical Batch(es):	A82735,A82803,A82733,A82743
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 52626-A82475-DUP-A82585

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Saturation (Sat Paste)	%	41.7	40.9	1.9	30.0	05/25/23 10:33
Electrical Conductivity (Sat Paste)	mmhos/cm	3.68	3.79	2.9	30.0	05/25/23 10:33
pH (Sat Paste)	s.u.	6.26	5.99	4.4	30.0	05/25/23 10:33

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep:	A82642	QC Analytical Batch(es):	A82736,A82804,A82734,A82743
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 52645-A82476-DUP-A82642

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Saturation (Sat Paste)	%	60.9	60.5	0.6	30.0	05/25/23 14:58
Electrical Conductivity (Sat Paste)	mmhos/cm	9.67	9.69	0.2	30.0	05/25/23 14:58
pH (Sat Paste)	s.u.	7.50	7.02	6.6	30.0	05/25/23 14:58

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep:	A82537	QC Analytical Batch(es):	A82633,A82761,A82622,A82690
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 52575-A82376-DUP-A82537

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Calcium (Sat Paste)	meq/L	1.62	1.28	23.4	30.0	05/23/23 13:43
Magnesium (Sat Paste)	meq/L	0.897	0.694	25.5	30.0	05/23/23 13:43
Sodium (Sat Paste)	meq/L	5.75	4.37	27.2	30.0	05/23/23 13:43

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep:	A82582	QC Analytical Batch(es):	A82692,A82763,A82693,A82743
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 52607-A82377-DUP-A82582

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Calcium (Sat Paste)	meq/L	6.06	6.30	3.8	30.0	05/26/23 12:19
Magnesium (Sat Paste)	meq/L	1.97	2.04	3.4	30.0	05/26/23 12:19
Sodium (Sat Paste)	meq/L	211	218	3.2	30.0	05/26/23 12:19

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep: A82585 **QC Analytical Batch(es):** A82735,A82803,A82733,A82743
QC Prep Batch Method: 29B **Analysis Method:** 29B
Analysis Description: Saturated Paste Extraction

Duplicate A 52626-A82475-DUP-A82585

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Calcium (Sat Paste)	meq/L	8.03	8.42	4.7	30.0	05/26/23 13:57
Magnesium (Sat Paste)	meq/L	4.76	5.00	4.9	30.0	05/26/23 13:57
Sodium (Sat Paste)	meq/L	20.3	21.1	3.8	30.0	05/26/23 13:57

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep:	A82642	QC Analytical Batch(es):	A82736,A82804,A82734,A82743
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 52645-A82476-DUP-A82642

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Calcium (Sat Paste)	meq/L	9.00	9.25	2.7	30.0	05/26/23 15:35
Magnesium (Sat Paste)	meq/L	4.51	4.57	1.3	30.0	05/26/23 15:35
Sodium (Sat Paste)	meq/L	78.2	79.5	1.6	30.0	05/26/23 15:35

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-9034

QC Prep: A82559

QC Prep Batch Method: 3050B

QC Analytical Batch(es): A82649

Analysis Method: 6010D

Analysis Description: Metals Analysis

Lab Reagent Blank

Associated Lab Samples: 52595, 52596, 52597, 52598, 52599, 52600, 52601, 52602

Parameter	Units	Blank Result	MQL	Analyzed
Total Arsenic	mg/Kg AR	< 1.00	1.00	05/22/23 13:56
Total Barium	mg/Kg AR	< 0.500	0.500	05/22/23 13:56
Total Cadmium	mg/Kg AR	< 0.100	0.100	05/22/23 13:56
Total Chromium	mg/Kg AR	< 0.250	0.250	05/22/23 13:56
Total Lead	mg/Kg AR	< 0.300	0.300	05/22/23 13:56
Total Selenium	mg/Kg AR	< 0.500	0.500	05/22/23 13:56
Total Silver	mg/Kg AR	< 0.250	0.250	05/22/23 13:56
Total Zinc	mg/Kg AR	< 1.25	1.25	05/22/23 13:56

Laboratory Control Sample & LCSD

LCS-A82559 LCSD-A82559

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Total Arsenic	mg/Kg AR	5.00	4.81	4.82	96.0	96.0	80-120	0.2	20.0
Total Barium	mg/Kg AR	50.0	50.0	49.5	100	99.0	80-120	1.0	20.0
Total Cadmium	mg/Kg AR	5.00	4.86	4.87	97.0	97.0	80-120	0.2	20.0
Total Chromium	mg/Kg AR	50.0	51.2	51.7	102	103	80-120	0.9	20.0
Total Lead	mg/Kg AR	5.00	5.11	4.95	102	99.0	80-120	3.1	20.0
Total Selenium	mg/Kg AR	5.00	4.78	4.76	96.0	95.0	80-120	0.4	20.0
Total Silver	mg/Kg AR	5.00	5.04	5.08	101	102	80-120	0.7	20.0
Total Zinc	mg/Kg AR	50.0	54.0	54.2	108	108	80-120	0.3	20.0

Matrix Spike & Matrix Spike Duplicate

A 52595-A82377-MS-A82559 A 52595-A82377-MSD-A82559

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Total Arsenic	mg/Kg AR	4.80	4.91	4.97	10.0	9.32	106	91.0	75-125	7.0	20.0
Total Barium	mg/Kg AR	68.7	49.1	49.7	135	149	135*	162*	75-125	9.8	20.0

* QC Fail

Date: 11/13/2024 11:30 AM

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Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep:	A82559	QC Analytical Batch(es):	A82649
QC Prep Batch Method:	3050B	Analysis Method:	6010D
		Analysis Description:	Metals Analysis

Matrix Spike & Matrix Spike Duplicate A 52595-A82377-MS-A82559 A 52595-A82377-MSD-A82559

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Total Cadmium	mg/Kg AR	1.05	4.91	4.97	5.07	5.14	82.0	82.0	75-125	1.3	20.0
Total Chromium	mg/Kg AR	21.1	49.1	49.7	68.6	69.1	97.0	97.0	75-125	0.7	20.0
Total Lead	mg/Kg AR	13.3	4.91	4.97	19.0	20.9	116	153*	75-125	9.5	20.0
Total Selenium	mg/Kg AR	< 0.500	4.91	4.97	< 0.500	< 0.500	0.0*	0.0*	75-125	31.4*	20.0
Total Silver	mg/Kg AR	< 0.250	4.91	4.97	3.92	3.99	80.0	80.0	75-125	1.7	20.0
Total Zinc	mg/Kg AR	15.8	49.1	49.7	63.3	64.2	97.0	97.0	75-125	1.4	20.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep: L688382 **QC Analytical Batch(es):** L688584,L688836
QC Prep Batch Method: 3015A **Analysis Method:** 6010D
Analysis Description: Metals Analysis (SPLP)

Lab Reagent Blank

Associated Lab Samples: 54920, 54921

Parameter	Units	Blank Result	MQL	Analyzed
SPLP Sodium	mg/L	< 0.500	0.500	06/19/23 17:12

Laboratory Control Sample

LCS-L688382

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
SPLP Sodium	mg/L	10.0	8.81	88.0	80-120

Matrix Spike & Matrix Spike Duplicate

Q 95463-MS-L688382 Q 95463-MSD-L688382

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
SPLP Sodium	mg/L	1630	500	500	1990	1930	72.0*	60.0*	75-125	3.0	20.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-9034

QC Prep:	A82542	QC Analytical Batch(es):	A82711
QC Prep Batch Method:	7471A	Analysis Method:	7471A
		Analysis Description:	Solids Total Mercury Analysis - CVAA

Lab Reagent Blank

Associated Lab Samples: 52595, 52596, 52597, 52598, 52599, 52600, 52601, 52602

Parameter	Units	Blank Result	MQL	Analyzed
Mercury (Total)	mg/Kg AR	< 0.0184	0.0184	05/23/23 17:21

Laboratory Control Sample & LCSD

LCS-A82542 LCSD-A82542

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Mercury (Total)	mg/Kg AR	0.398	0.386	0.371	97.0	97.0	80-120	3.9	20.0

Matrix Spike & Matrix Spike Duplicate

A 52854-MS-A82542 A 52854-MSD-A82542

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Mercury (Total)	mg/Kg AR	< 0.0190	0.397	0.381	0.394	0.373	95.0	93.0	80-120	5.4	20.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep: G180832 **QC Analytical Batch(es):** G180986
QC Prep Batch Method: 3546 **Analysis Method:** 8270D SIM
Analysis Description: Semivolatile Organic Compounds - GC/MS (SIM)

Lab Reagent Blank

Associated Lab Samples: 52595, 52596, 52601, 52602

Parameter	Units	Blank Result	MQL	Analyzed	% Recovery	% Rec Limits
2-Methylnaphthalene	µg/Kg	< 0.660	0.660	05/19/23 15:36		
Acenaphthene	µg/Kg	< 0.660	0.660	05/19/23 15:36		
Acenaphthylene	µg/Kg	< 0.660	0.660	05/19/23 15:36		
Anthracene	µg/Kg	< 0.660	0.660	05/19/23 15:36		
Benzo(a)anthracene	µg/Kg	< 0.660	0.660	05/19/23 15:36		
Benzo(a)pyrene	µg/Kg	< 0.660	0.660	05/19/23 15:36		
Benzo(b)fluoranthene	µg/Kg	< 0.660	0.660	05/19/23 15:36		
Benzo(k)fluoranthene	µg/Kg	< 0.660	0.660	05/19/23 15:36		
Chrysene	µg/Kg	< 0.660	0.660	05/19/23 15:36		
Dibenz(a,h)anthracene	µg/Kg	< 0.660	0.660	05/19/23 15:36		
Fluoranthene	µg/Kg	< 0.660	0.660	05/19/23 15:36		
Fluorene	µg/Kg	< 0.660	0.660	05/19/23 15:36		
Indeno(1,2,3-cd)pyrene	µg/Kg	< 0.660	0.660	05/19/23 15:36		
Naphthalene	µg/Kg	< 0.660	0.660	05/19/23 15:36		
Phenanthrene	µg/Kg	< 0.660	0.660	05/19/23 15:36		
Pyrene	µg/Kg	< 0.660	0.660	05/19/23 15:36		
2-Fluorobiphenyl (S)				05/19/23 15:36	38.7	33-122
4-Terphenyl-d14 (S)				05/19/23 15:36	48.6	33-122

Laboratory Control Sample & LCSD LCS-G180832 LCSD-G180832

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
2-Methylnaphthalene	µg/Kg	167	112	123	67.0	73.6	40-130	9.3	20.0
Acenaphthene	µg/Kg	167	104	114	62.2	68.2	40-130	9.1	20.0
Acenaphthylene	µg/Kg	167	120	131	71.8	78.4	40-130	8.7	20.0
Anthracene	µg/Kg	167	116	125	69.4	74.8	40-130	7.4	20.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep: G180832 **QC Analytical Batch(es):** G180986
QC Prep Batch Method: 3546 **Analysis Method:** 8270D SIM
Analysis Description: Semivolatile Organic Compounds - GC/MS (SIM)

Laboratory Control Sample & LCSD LCS-G180832 LCSD-G180832

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Benzo(a)anthracene	µg/Kg	167	132	146	79.0	87.4	40-130	10.0	20.0
Benzo(a)pyrene	µg/Kg	167	103	111	61.6	66.4	40-130	7.4	20.0
Benzo(b)fluoranthene	µg/Kg	167	133	141	79.6	84.4	40-130	5.8	20.0
Benzo(k)fluoranthene	µg/Kg	167	103	119	61.6	71.2	40-130	14.4	20.0
Chrysene	µg/Kg	167	113	114	67.6	68.2	40-130	0.8	20.0
Dibenz(a,h)anthracene	µg/Kg	167	113	124	67.6	74.2	40-130	9.2	20.0
Fluoranthene	µg/Kg	167	118	124	70.6	74.2	40-130	4.9	20.0
Fluorene	µg/Kg	167	108	118	64.6	70.6	40-130	8.8	20.0
Indeno(1,2,3-cd)pyrene	µg/Kg	167	121	175	72.4	105	40-130	36.4*	20.0
Naphthalene	µg/Kg	167	110	120	65.8	71.8	40-130	8.6	20.0
Phenanthrene	µg/Kg	167	109	117	65.2	70.0	40-130	7.0	20.0
Pyrene	µg/Kg	167	115	120	68.8	71.8	40-130	4.2	20.0
2-Fluorobiphenyl (S)					36.0	40.8	33-122		
4-Terphenyl-d14 (S)					47.1	49.2	33-122		

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep: A82391 **QC Analytical Batch(es):** A82776
QC Prep Batch Method: **Analysis Method:** 9056
Analysis Description: Anions by Ion Chromatography

Lab Reagent Blank

Associated Lab Samples: 52590, 52591, 52592, 52593, 52594, 52595, 52596, 52597, 52598, 52599

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/Kg	< 4.00	4.00	05/31/23 16:41

Laboratory Control Sample

LCS-A82391

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Chloride	mg/Kg	500	511	102	80-120

Matrix Spike & Matrix Spike Duplicate

A 52584-MS-A82391 A 52584-MSD-A82391

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Chloride	mg/Kg	895	493	493	1460	1570	115	137*	80-120	7.2	15.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep:	A82392	QC Analytical Batch(es):	A82917
QC Prep Batch Method:		Analysis Method:	9056
		Analysis Description:	Anions by Ion Chromatography

Lab Reagent Blank

Associated Lab Samples: 52600, 52601, 52602, 52603, 52604, 52605, 52606, 52607, 52608, 52609, 52610, 52611, 52612, 52613, 52614, 52615, 52616, 52617, 52618, 52619

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/Kg	< 4.00	4.00	06/01/23 11:05

Laboratory Control Sample

LCS-A82392

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Chloride	mg/Kg	500	488	97.6	80-120

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep: A82699 **QC Analytical Batch(es):** A82918
QC Prep Batch Method: **Analysis Method:** 9056
Analysis Description: Anions by Ion Chromatography

Lab Reagent Blank

Associated Lab Samples: 52620, 52621, 52622, 52623, 52624, 52625, 52626, 52627, 52628, 52629, 52630, 52631, 52632, 52633, 52634, 52635, 52636, 52637, 52638, 52639

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/Kg	< 4.00	4.00	06/01/23 17:03

Laboratory Control Sample

LCS-A82699

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Chloride	mg/Kg	500	489	97.8	80-120

Matrix Spike & Matrix Spike Duplicate

A 52627-MS-A82699

A 52627-MSD-A82699

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Chloride	mg/Kg	525	482	484	990	1000	96.4	98.1	80-120	1.0	15.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep: A82700 **QC Analytical Batch(es):** A82919
QC Prep Batch Method: **Analysis Method:** 9056
Analysis Description: Anions by Ion Chromatography

Lab Reagent Blank

Associated Lab Samples: 52640, 52641, 52642, 52643, 52644, 52645

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/Kg	< 4.00	4.00	06/02/23 12:51

Laboratory Control Sample

LCS-A82700

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Chloride	mg/Kg	500	508	102	80-120

Matrix Spike & Matrix Spike Duplicate

A 52644-MS-A82700 A 52644-MSD-A82700

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Chloride	mg/Kg	1200	499	495	1730	1640	106	88.8	80-120	5.3	15.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep: L688735 **QC Analytical Batch(es):** L688747
QC Prep Batch Method: **Analysis Method:** 9056
Analysis Description: Anions by Ion Chromatography (SPLP)

Lab Reagent Blank

Associated Lab Samples: 54920, 54921

Parameter	Units	Blank Result	MQL	Analyzed
SPLP Chloride	mg/L	< 0.400	0.400	06/20/23 09:02

Laboratory Control Sample

LCS-L688735

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
SPLP Chloride	mg/L	50.0	53.8	108	90-110

Matrix Spike & Matrix Spike Duplicate

L 88005-MS-L688735 L 88005-MSD-L688735

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
SPLP Chloride	mg/L	< 0.400	55.6	55.6	60.4	62.5	109	113	80-120	3.4	15.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep: G180836
QC Prep Batch Method:
QC Analytical Batch(es): G180910
Analysis Method: MAEPH LA
Analysis Description: MADEP EPH Rev 1.1

Lab Reagent Blank

Associated Lab Samples: 52595, 52596, 52601, 52602

Parameter	Units	Blank Result	MQL	Analyzed	% Recovery	% Rec Limits
Aliphatic >C10-C12	µg/Kg	< 2000	2000	05/17/23 18:37		
Aliphatic >C12-C16	µg/Kg	< 2000	2000	05/17/23 18:37		
Aliphatic >C16-C35	µg/Kg	< 4000	4000	05/17/23 18:37		
Aromatic >C10-C12	µg/Kg	< 2000	2000	05/17/23 18:37		
Aromatic >C12-C16	µg/Kg	< 2000	2000	05/17/23 18:37		
Aromatic >C16-C21	µg/Kg	< 2000	2000	05/17/23 18:37		
Aromatic >C21-C35	µg/Kg	< 2000	2000	05/17/23 18:37		
Chlorooctadecane (S)				05/17/23 18:37	80.2	40-140
OTP Surrogate (S)				05/17/23 18:37	67.0	40-140

Laboratory Control Sample & LCSD

LCS-G180836 LCSD-G180836

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Aliphatic >C12-C16	µg/Kg	3330	2210	2280	66.3	68.4	40-140	3.1	25.0
Aliphatic >C16-C35	µg/Kg	10000	6420	5570	64.2	55.7	40-140	14.1	25.0
Aromatic >C10-C12	µg/Kg	3330	2980	2820	89.4	84.6	40-140	5.5	25.0
Aromatic >C12-C16	µg/Kg	6670	5840	5580	87.5	83.6	40-140	4.5	25.0
Aromatic >C16-C21	µg/Kg	3330	4310	3610	129	108	40-140	17.6	25.0
Chlorooctadecane (S)					71.2	46.6	40-140		
OTP Surrogate (S)					64.0	59.1	40-140		

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Prep: G180765
QC Prep Batch Method:
QC Analytical Batch(es): G180772
Analysis Method: MAVPH LA
Analysis Description: MADEP VPH Rev 1.1

Lab Reagent Blank

Associated Lab Samples: 52646, 52647

Parameter	Units	Blank Result	MQL	Analyzed	% Recovery	% Rec Limits
Aliphatic >C6-C8	µg/L	< 5.00	5.00	05/12/23 11:49		
Aliphatic >C8-C10	µg/L	< 13.0	13.0	05/12/23 11:49		
Aromatic >C8-C10 A	µg/L	< 5.00	5.00	05/12/23 11:49		
Toluene-d8 (S)				05/12/23 11:49	77.6	70-130

Laboratory Control Sample & LCSD LCS-G180765 LCSD-G180765

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits
Aliphatic >C6-C8	µg/L	500	521	555	104	111	70-130
Aliphatic >C8-C10	µg/L	1300	1450	1460	112	112	70-130
Aromatic >C8-C10 A	µg/L	500	526	537	105	107	70-130
Toluene-d8 (S)					80.6	83.6	70-130

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-9034

QC Prep: G180767

QC Prep Batch Method:

QC Analytical Batch(es): G180774

Analysis Method: MAVPH LA

Analysis Description: MADEP VPH Rev 1.1

Lab Reagent Blank

Associated Lab Samples: 52596, 52601, 52602

Parameter	Units	Blank Result	MQL	Analyzed	% Recovery	% Rec Limits
Aliphatic >C6-C8	µg/Kg	< 500	500	05/12/23 11:49		
Aliphatic >C8-C10	µg/Kg	< 1300	1300	05/12/23 11:49		
Aromatic >C8-C10 A	µg/Kg	< 500	500	05/12/23 11:49		
Toluene-d8 (S)				05/12/23 11:49	77.6	70-130

Laboratory Control Sample & LCSD LCS-G180767 LCSD-G180767

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Aliphatic >C6-C8	µg/Kg	50000	52100	55500	104	111	50-150	6.3	30.0
Aliphatic >C8-C10	µg/Kg	130000	145000	146000	112	112	50-150	0.6	30.0
Aromatic >C8-C10 A	µg/Kg	50000	52600	53700	105	107	50-150	2.0	30.0
Toluene-d8 (S)					80.6	83.6	70-130		

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Analytical Batch: A82356
Analysis Method: SW-DRYWT
Analysis Description: Dry Weight Determination

Duplicate A 52597-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	19.0	19.0	0.0	20.0	05/10/23 16:27

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-9034

QC Analytical Batch: A82389

Analysis Method: SW-DRYWT

Analysis Description: Dry Weight Determination

Duplicate A 52590-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	23.2	23.5	1.2	20.0	05/17/23 14:05



Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-9034

QC Analytical Batch: A82411

Analysis Method: SW-DRYWT

Analysis Description: Dry Weight Determination

Duplicate A 52605-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	19.8	19.0	4.1	20.0	05/17/23 14:32

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Analytical Batch: A82566
Analysis Method: SW-DRYWT
Analysis Description: Dry Weight Determination

Duplicate A 52615-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	21.9	21.6	1.3	20.0	05/18/23 11:28

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-129-9034

QC Analytical Batch: A82567

Analysis Method: SW-DRYWT

Analysis Description: Dry Weight Determination

Duplicate A 52626-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	12.9	12.5	3.1	20.0	05/18/23 11:58

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Analytical Batch: A82568
Analysis Method: SW-DRYWT
Analysis Description: Dry Weight Determination

Duplicate A 52636-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	18.2	18.0	1.1	20.0	05/18/23 12:25

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-129-9034

QC Analytical Batch: A82569
Analysis Method: SW-DRYWT
Analysis Description: Dry Weight Determination

Duplicate A 52803-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	19.0	18.9	0.5	20.0	05/19/23 14:25

Shipment Receipt Form

Customer Number: **09996**

Customer Name: **Hydro-Environmental Technology, Inc.**

Report Number: **23-129-0034**

Shipping Method

☐ Fed Ex	☐ US Postal	☒ Lab	☐ Other :	
☐ UPS	☐ Client	☐ Courier	Thermometer ID:	IR 1

Shipping container/cooler uncompromised?	☒ Yes	☐ No
Number of coolers/boxes received	1	
Custody seals intact on shipping container/cooler?	☐ Yes	☐ No ☒ Not Present
Custody seals intact on sample bottles?	☐ Yes	☐ No ☒ Not Present
Chain of Custody (COC) present?	☒ Yes	☐ No
COC agrees with sample label(s)?	☒ Yes	☐ No
COC properly completed	☒ Yes	☐ No
Samples in proper containers?	☒ Yes	☐ No
Sample containers intact?	☒ Yes	☐ No
Sufficient sample volume for indicated test(s)?	☒ Yes	☐ No
All samples received within holding time?	☒ Yes	☐ No
Cooler temperature in compliance?	☒ Yes	☐ No
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	☒ Yes	☐ No
Water - Sample containers properly preserved	☐ Yes	☐ No ☒ N/A
Water - VOA vials free of headspace	☐ Yes	☐ No ☒ N/A
Trip Blanks received with VOAs	☐ Yes	☐ No ☒ N/A
Soil VOA method 5035 – compliance criteria met	☐ Yes	☐ No ☒ N/A
☐ High concentration container (48 hr)	☐ Low concentration EnCore samplers (48 hr)	
☐ High concentration pre-weighed (methanol -14 d)	☐ Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	☐ Yes	☒ No

Comments:

Signature:

Christina R. Varuso

Date & Time:

05/09/2023 19:09:27



HYDRO-ENVIRONMENTAL TECH
Environmental Consul
P.O. Box 60295
Lafayette, LA 70596-C
Phone (337) 261-1963 FAX (337)

23-129-0031
09996
05-09-2023
17:42:45
Hydro-Environmental Technology, Inc.

23-129-0034
09996
05-09-2023
19:09:06
Hydro-Environmental Technology, Inc.
Gastel

SAMPLE CHAIN-OF-CUSTO

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB01 (0-2)	SO	5/2/2023 0938	No Split	No Split	4°C
SE-SB01 (2-4)	SO	5/2/2023 0940	No Split	No Split	4°C
SE-SB01 (4-6) 52532	SO	5/2/2023 0950	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*	4°C
SE-SB01 (6-8) 52533	SO	5/2/2023 0955	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*	4°C
SE-SB01 (8-10) 52534	SO	5/2/2023 1000	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*	4°C
SE-SB01 (10-12) 52535	SO	5/2/2023 1002	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*	4°C
SE-SB01 (12-14) 52536	SO	5/2/2023 1013	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (14-16) 52537	SO	5/2/2023 1015	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 800</u>	Date/Time: <u>5/5/23 800</u>
Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 1000</u>	Date/Time: <u>5/5/23 10:00</u>
Analysis Due: Verbal:	
Written:	

Rel by: DB. Coco 5/8/23a

Recvd by: P. Howard

Page 1 of 15

Rel. by: P. Howard 5/8/23 9:40

Recd by: K. Hendrix 5/8/23 9:40

Chain of Custody Record Extension

Gastel

Hydro-Environmental

Page 01A of 15

Relinquished by: Print: Kathy Hendrix

Date: 05/08/23

Sign: Kathy Hendrix

Time: 1235

Received by: Print: [Signature]

Date: 5/08/23

Sign: Christopher Monfort

Time: 1235

Relinquished by: Print: Christopher Monfort

Date: 5/9/23

Sign: [Signature]

Time: 0800

Received by: Print: Christine Varuso

Date: 5-9-23

Sign: [Signature]

Time: 0800

Relinquished by: Print: _____

Date: _____

Sign: _____

Time: _____

Received by: Print: _____

Date: _____

Sign: _____

Time: _____

Relinquished by: Print: _____

Date: _____

Sign: _____

Time: _____

Received by: Print: _____

Date: _____

Sign: _____

Time: _____



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
Environmental Consultants
P.O. Box 60295
Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB01 (16-18) 52538	SO	5/2/2023 1025	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (18-20) 52539	SO	5/2/2023 1027	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (20-22) 52540	SO	5/2/2023 1035	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (22-24) 52541	SO	5/2/2023 1037	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (24-26) 52542	SO	5/2/2023 1045	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (26-28) 52543	SO	5/2/2023 1047	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (28-30) 52544	SO	5/2/2023 1055	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (30-32) 52545	SO	5/2/2023 1057	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 800</u>	Date/Time: <u>5/5/23 800</u>
Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 1000</u>	Date/Time: <u>5/5/23 @ 10:00</u>
Analysis Due: Verbal:	
Written:	

Rel. by: D.B. Coco 5/8/23 @ 7:30 Recd by: P. Hawans 5/8/23 7:30
Rel. by: P. Hawans 5/8/23 9:40 Recd by: Kathy Hendrix 5/8/23 12:35
Page 120 of 134

Chain of Custody Record Extension

Relinquished by: Print: _____

Date: _____

Sign: _____

Time: _____

Received by: Print: Christopher Monfort

Date: 5/08/23

Sign: [Signature]

Time: 1235

Relinquished by: Print: Christopher Monfort

Date: 5/9/23

Sign: [Signature]

Time: 0800

Received by: Print: Pristina Varuso

Date: 5-9-23

Sign: [Signature]

Time: 0800

Relinquished by: Print: _____

Date: _____

Sign: _____

Time: _____

Received by: Print: _____

Date: _____

Sign: _____

Time: _____

Relinquished by: Print: _____

Date: _____

Sign: _____

Time: _____

Received by: Print: _____

Date: _____

Sign: _____

Time: _____



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
Environmental Consultants
P.O. Box 60295
Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB01 (32-34) 52546	SO	5/2/2023 1105	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (34-35) 52547	SO	5/2/2023 1107	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (0-2) 52548	SO	5/2/2023 1455	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (2-4) 52549	SO	5/2/2023 1457	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (4-6) 52550	SO	5/2/2023 1505	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (6-8) 52551	SO	5/2/2023 1507	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (8-10) 52552	SO	5/2/2023 1515	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (10-12) 52553	SO	5/2/2023 1517	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 800</u>	Date/Time: <u>5/5/23 800</u>
Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 1200</u>	Date/Time: <u>5/5/23 1200</u>
Analysis Due: Verbal:	Written:

Rel. by: DB Coco 5/8/23 @ 7:30 Rec'd by P. Howard 5/8/23 7:30
Rel'd By: Kathy Hendrix 05/08/23 0940
Reling By: Kathy Hendrix 05/08/23 1235
Reling By: P. Howard 5/8/23 9:40 Rec'd By: [Signature] 5/9/23 0800
Reling By: [Signature] 5/9/23 0800



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
Environmental Consultants
P.O. Box 60295
Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB02 (12-14) <i>52554</i>	SO	5/2/2023 1520	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (14-16) <i>52555</i>	SO	5/2/2023 1522	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (16-18) <i>52556</i>	SO	5/2/2023 1530	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (18-20) <i>52557</i>	SO	5/2/2023 1532	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (20-22) <i>52558</i>	SO	5/2/2023 1540	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (22-24) <i>52559</i>	SO	5/2/2023 1542	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB02 (24-26) <i>52560</i>	SO	5/2/2023 1545	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB03 (0-2) <i>52561</i>	SO	5/3/2023 0958	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <i>[Signature]</i>	Received By: <i>[Signature]</i>
Date/Time: <i>5/5/23 800</i>	Date/Time: <i>5/5/23 800</i>
Relinquished By: <i>[Signature]</i>	Received By: <i>[Signature]</i>
Date/Time: <i>5/5/23 1000</i>	Date/Time: <i>5/5/23 @ 10:00</i>
Analysis Due: Verbal: _____ Written: _____	

Rel by: DB Coco 5/8/23 @ 7:30 Rec'd by: P. Neward 5/8/23 7:30
Rel'd By: Kathy Hendrix 5/8/23 0940
Rel'd By: Kathy Hendrix 5/8/23 0940
Rel'd By: *[Signature]* 5/8/23 1255
Rel'd By: *[Signature]* 5/9/23 0800



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
Environmental Consultants
P.O. Box 60295
Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB03 (2-4) 52562	SO	5/3/2023 1000	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB03 (4-6) 52563	SO	5/3/2023 1005	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB03 (6-8) 52564	SO	5/3/2023 1007	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB03 (8-10) 52565	SO	5/3/2023 1015	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB03 (10-12) 52566	SO	5/3/2023 1017	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB03 (12-14) 52567	SO	5/3/2023 1025	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB03 (14-16) 52568	SO	5/3/2023 1027	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB03 (16-18) 52569	SO	5/3/2023 1035	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 800</u>	Date/Time: <u>5/5/23 800</u>
Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 1000</u>	Date/Time: <u>5/5/23 @ 10:00</u>
Analysis Due: Verbal:	Written:

Rel by: DB. Coco 5/8/23 @ 7:30 Rec'd by: P. Howard 5/8/23 7:30
Rel by: P. Howard 5/8/23 9:40 Rec'd by: Kathy Hendrix 5/8/23 1235
Rel by: [Signature] 5/8/23 1235 Rec'd by: [Signature] 5/9/23 0800
Rel by: [Signature] 5/9/23 0800



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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel **Laboratory:** Waypoint
Project Number: 1705.A37 **Collected By:** DCC
Project Location: Morse, La **Company:** Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
SE-SB03 (18-20) 52570	SO	5/3/2023	1037	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (0-2) 52571	SO	5/3/2023	1255	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (2-4) 52572	SO	5/3/2023	1257	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (4-6) 52573	SO	5/3/2023	1305	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (6-8) 52574	SO	5/3/2023	1307	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (8-10) 52575	SO	5/3/2023	1315	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (10-12) 52576	SO	5/3/2023	1317	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (12-14) 52577	SO	5/3/2023	1320	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23</u> <u>800</u>	Date/Time: <u>5/5/23</u> <u>800</u>
Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23</u> <u>1000</u>	Date/Time: <u>5/5/23 @ 10:00</u>
Analysis Due: Verbal:	Written:

Rel. by: DRB. Coco 5/8/23 @ 7:30
 Rel. by: P. Howard 5/8/23 9:40

Rec'd by: P. Howard 5/8/23 7:30
 Rec'd By: Kaitlyn Hendrix 05/08/23 0940
 Relinquished By: Kaitlyn Hendrix 05/08/23 1235
 Rec'd By: [Signature] 5/8/23 1235
 Relinquished By: [Signature] 5/9/23 0800



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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel **Laboratory:** Waypoint
Project Number: 1705.A37 **Collected By:** DCC
Project Location: Morse, La **Company:** Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB04 (14-16) 52578	SO	5/3/2023 1322	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (16-18) 52579	SO	5/3/2023 1335	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (18-20) 52580	SO	5/3/2023 1337	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (20-22) 52581	SO	5/3/2023 1345	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB04 (22-24) 52582	SO	5/3/2023 1347	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB05 (0-2) 52583	SO	5/3/2023 1450	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB05 (2-4) 52584	SO	5/3/2023 1452	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB05 (4-6) 52585	SO	5/3/2023 1458	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <i>[Signature]</i>	Received By: <i>[Signature]</i>
Date/Time: 5/5/23 800	Date/Time: 5/5/23 800
Relinquished By: <i>[Signature]</i>	Received By: <i>[Signature]</i>
Date/Time: 5/5/23 1000	Date/Time: 5/5/23 @ 10:00
Analysis Due: Verbal: _____ Written: _____	

Rel. by: DB Coco 5/8/23 @ 7:30
 Rec'd by: P. Howard 5/8/23 7:30
 Rel. by: P. Howard 5/8/23 9:40
 Rec'd by: Kathy Mendrix 5/8/23 0940
 Rel. by: Kathy Mendrix 5/8/23 1235
 Rec'd by: _____ 5/8/23 1235
 Rel. by: _____ 5/9/23 0800
 Rec'd by: _____ 5/9/23 0800



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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB05 (6-8) 52586	SO	5/3/2023 1500	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB05 (8-10) 52587	SO	5/3/2023 1505	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB05 (10-12) 52588	SO	5/3/2023 1507	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB05 (12-14) 52589	SO	5/3/2023 1510	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB05 (14-16) 52590	SO	5/3/2023 1512	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB05 (16-18) 52591	SO	5/3/2023 1530	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB05 (18-20) 52592	SO	5/3/2023 1532	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB05 (20-22) 52593	SO	5/3/2023 1545	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 800</u>	Date/Time: <u>5/5/23 800</u>
Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 1000</u>	Date/Time: <u>5/5/23 210:00</u>
Analysis Due: Verbal:	Written:

Rel. by: DB.Coco 5/8/23 @ 7:30 Recd by: P. Howard 5/8/23 7:30
Rel. by: P. Howard 5/8/23 9:40 Recd by: Kathy Hendrix 5/8/23 0940
Reling By: Kathy Hendrix 5/8/23 1235
Recd by: [Signature] 5/8/23 1235
Reling by: [Signature] 5/9/23 0800



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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB05 (22-24) 52594	SO	5/3/2023 1547	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB06 (0-2) 525945	SO	5/4/2023 0940	2 x encore 1 x 4oz 16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*, EPH, VPH, Oil&Grease	4°C HOLD: PAH
SE-SB06 (2-4) 525946	SO	5/4/2023 0942	2 x encore 1 x 4oz 16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*, EPH, VPH, Oil&Grease	4°C HOLD: PAH
SE-SB06 (4-6) 525987	SO	5/4/2023 0955	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*	4°C
SE-SB06 (6-8) 525986	SO	5/4/2023 0957	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*	4°C
SE-SB06 (8-10) 52600 52599	SO	5/4/2023 1005	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*	4°C
SE-SB06 (10-12) 52601 52600	SO	5/4/2023 1007	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*	4°C
SE-SB06 (12-14) 52602 52601	SO	5/4/2023 1015	2 x encore 1 x 4oz 16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*, Metals*, EPH, VPH, Oil&Grease	4°C HOLD: PAH

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 800</u>	Date/Time: <u>5/5/23 800</u>
Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 1000</u>	Date/Time: <u>5/5/23 @ 10:00</u>
Analysis Due: Verbal:	Written:

Relby: DB. Coco 5/8/23 @ 7:30
Rel. by: P. Hanan 5/8/23 9:40
Recd by: P. Hanan 5/8/23 7:30
Recd by: Kathy Hendrix 5/8/23 0940
Rel. by: Kathy Hendrix 5/8/23 1235
Recd by: [Signature] 5/8/23 1235
Rel. by: [Signature] 5/9/23 0800



Project Name:	Gastel	Laboratory:	Waypoint
Project Number:	1705.A37	Collected By:	DCC
Project Location:	Morse, La	Company:	Hydro-Environmental Technology, Inc.
		Date:	5/2/2023

Rel by: DB Coco 5/8/23 @ 7:30 Rec'd by: P. Haines 5/8/23 7:30
Rel by: P. Haines 5/8/23 9:40 Rec'd By: Kathy DenDix 05/08/23 0940
Reling By: Kathy denDix 05/08/23 Page 10 of 15
Rec'd by: 5/08/23 1235
Reling By: 5/9/23 0800

Page 129 of 134



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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB07 (2-4) 52610	SO	5/4/2023 1232	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB07 (4-6) 52612.1	SO	5/4/2023 1240	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB07 (6-8) 52618.2	SO	5/4/2023 1242	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB07 (8-10) 52618.3	SO	5/4/2023 1245	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB07 (10-12) 52615.4	SO	5/4/2023 1247	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB07 (12-14) 52618.5	SO	5/4/2023 1250	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB07 (14-16) 52618.6	SO	5/4/2023 1252	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB07 (16-18) 52618.7	SO	5/4/2023 1255	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 800</u>	Date/Time: <u>5/5/23 800</u>
Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 1000</u>	Date/Time: <u>5/5/23 @ 10:00</u>
Analysis Due: Verbal:	Written:

Rel by: DB Coco 5/8/23 @ 7:30
Rel. by: P. Howard 5/8/23 9:40
Rec'd by: Kathy Hendrix 5/8/23 0940
Reling by: Kathy Hendrix 5/8/23 1235
Rec'd by: [Signature] 5/8/23 1235
Reling by: [Signature] 5/9/23 0800



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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB07 (18-20) 52619 52618	SO	5/4/2023 1257	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB07 (20-22) 52620 52619	SO	5/4/2023 1310	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB07 (22-23) 52621 52620	SO	5/4/2023 1312	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB08 (0-2) 52622 52621	SO	5/4/2023 1345	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB08 (2-4) 52623 52622	SO	5/4/2023 1347	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB08 (4-6) 52624 52623	SO	5/4/2023 1350	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB08 (6-8) 52625 52624	SO	5/4/2023 1352	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB08 (8-10) 52626 52625	SO	5/4/2023 1400	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 800</u>	Date/Time: <u>5/5/23 800</u>
Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 1000</u>	Date/Time: <u>5/5/23 10:00</u>
Analysis Due: Verbal:	Written:

Rel. by: DB Coco 5/8/23 @ 7:30 Recd by: P. Howard 5/8/23 7:30
Rel. by: P. Howard 5/8/23 9:40 Recd by: Kathy Wendix 5/8/23 0940
Rel. by: P. Howard 5/8/23 1235 Recd by: Kathy Wendix 5/8/23 1235
Rel. by: P. Howard 5/8/23 1235 Recd by: P. Howard 5/8/23 1235
Rel. by: P. Howard 5/8/23 0800 Recd by: P. Howard 5/8/23 0800



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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB08 (10-12) 52626	SO	5/4/2023 1402	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB08 (12-14) 52627	SO	5/4/2023 1405	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB08 (14-16) 52628	SO	5/4/2023 1407	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB08 (16-18) 52629	SO	5/4/2023 1415	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB08 (18-20) 52630	SO	5/4/2023 1417	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB08 (20-22) 52631	SO	5/4/2023 1425	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB08 (22-24) 52632	SO	5/4/2023 1427	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (0-2) 52633	SO	5/4/2023 1505	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 800</u>	Date/Time: <u>5/5/23 800</u>
Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 1000</u>	Date/Time: <u>5/5/23 210:00</u>
Analysis Due: Verbal:	Written:

Rel by: DB Coco 5/8/23 @ 7:30 Recvd by: P. Howard 5/8/23 7:30
Rel by: P. Howard 5/8/23 9:40 Recd by: P. Howard 5/8/23 9:40
Rel by: P. Howard 5/8/23 12:35 Recd by: P. Howard 5/8/23 12:35
Rel by: P. Howard 5/9/23 0800 Recd by: P. Howard 5/9/23 0800



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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel **Laboratory:** Waypoint
Project Number: 1705.A37 **Collected By:** DCC
Project Location: Morse, La **Company:** Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
SE-SB09 (2-4) 52634	SO	5/4/2023	1507	16 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (4-6) 52635	SO	5/4/2023	1515	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (6-8) 52636	SO	5/4/2023	1517	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (8-10) 52637	SO	5/4/2023	1520	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (10-12) 52638	SO	5/4/2023	1522	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (12-14) 52639	SO	5/4/2023	1530	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (14-16) 52640	SO	5/4/2023	1532	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (16-18) 52641	SO	5/4/2023	1540	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: *[Signature]*

Date/Time: *5/15/23 800*

Received By: *[Signature]*

Date/Time: *5/5/23 800*

Relinquished By: *[Signature]*
Date/Time: *5/5/23 1000*

Received By: *[Signature]*
Date/Time: *5/5/23 @ 10:00*

Analysis Due: Verbal:

Written:

Rel by: DB Coco 5/8/23 @ 17:30
 Rel. by: P. Howard 5/8/23 9:40
 Recd by: P. Howard 5/8/23 7:30
 Recd by: Kathy Hendrix 5/8/23 0940
 Rel. by: Kathy Hendrix 5/8/23
 Recd by: *[Signature]* 5/8/23 1235
 Rel. by: *[Signature]* 5/9/23 0800



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
Environmental Consultants
P.O. Box 60295
Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 5/2/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB09 (18-20) 52642	SO	5/4/2023 1542	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (20-22) 52643	SO	5/4/2023 1550	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (22-24) 52644	SO	5/4/2023 1552	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB09 (24-26) 52645	SO	5/4/2023 1610	16 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
TRIP BLANK 52646	water	5/4/2023 0730	3 X 40ml (HCL)	VPH	4°C
FIELD BLANK 52647	water	5/4/2023 0800	3 X 40ml (HCL)	VPH	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters

Cations*: Soluble Calcium, Magnesium, and Sodium

Anions*: Cl, SO₄, HCO₃

29-B Metals*: Arsenic, Barium, True Total Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Zinc, Strontium

Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 800</u>	Date/Time: <u>5/5/23 800</u>
Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>5/5/23 1000</u>	Date/Time: <u>5/5/23 @ 10:01</u>
Analysis Due: Verbal:	Written:

Rel by: DB Coco 5/8/23 @ 7:30 Recvd by: P. Howard 5/8/23 7:30
Rel by: P. Howard 5/8/23 9:40 Recvd by: Kathy Hendrix 5/8/23 0940
Rel by: [Signature] Recvd by: [Signature] 5/9/23 0800
Rel by: [Signature] Recvd by: [Signature] 5/9/23 0800

8/8/2023

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA, 70583

Ref: Report Number: 23-172-0018
Project Description: Gastel
Project Number: 1705.A37
Morse, La

Dear Mr. Stewart Stover, Jr.:

Waypoint Analytical Louisiana, Inc. received sample(s) on 6/21/2023 for the analyses presented in the following report. The above referenced project has been analyzed per your instructions. Unless otherwise noted, the analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance. Analyses reported which indicate "Field" for these parameters were analyzed by the client in the field. Results for solid samples are reported on an as received or "wet weight" basis unless otherwise specified.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

All quality control measures undertaken in accordance with Waypoint Analytical Louisiana, Inc. CompQAP990807A and revisions under the terms of the Louisiana Environmental Laboratory Accreditation Program (Certificate #02041) are within acceptance ranges established in that document with the exception of the items indicated and/or discussed in a Case Narrative.

The results are shown on the attached analysis sheet(s). Be aware that the time analyzed for certain samples (e.g. - BOD, CBOD, etc.) refer to the time the sample batch was begun and not necessarily to the time an individual sample was begun. Thank you for allowing Waypoint Analytical Louisiana, Inc. to serve you. Should I be of further assistance, if you have any questions or need additional information please contact me or client services.

Sincerely,



Amy Jackson
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis. This report may be reproduced in full only with the written permission of the laboratory and/or the entity to which it is addressed. Results contained herein relate only to the sample(s) submitted to the laboratory.



Certification Summary

Laboratory ID: WP MLA: Waypoint Analytical Louisiana, Inc., Marrero, LA

State	Program	Lab ID	Expiration Date
Georgia	State Program	02041	06/30/2024
Louisiana	State Program - NELAP	02041	06/30/2024

Laboratory ID: WP MTN: Waypoint Analytical, LLC., Memphis, TN

State	Program	Lab ID	Expiration Date
Alabama	State Program	40750	02/29/2024
Arkansas	State Program	88-0650	02/07/2024
California	State Program	2904	06/30/2024
Florida	State Program - NELAP	E871157	06/30/2024
Georgia	State Program	C044	11/14/2025
Georgia	State Program	04015	06/30/2024
Illinois	State Program - NELAP	200078	10/10/2023
Kentucky	State Program	80215	06/30/2024
Kentucky	State Program	KY90047	12/31/2023
Louisiana	State Program - NELAP	LA037	12/31/2023
Louisiana	State Program - NELAP	04015	06/30/2024
Mississippi	State Program	MS	11/14/2025
North Carolina	State Program	47701	07/31/2024
North Carolina	State Program	415	12/31/2023
Pennsylvania	State Program - NELAP	68-03195	05/31/2024
South Carolina	State Program	84002	06/30/2023
Tennessee	State Program	02027	11/14/2025
Texas	State Program - NELAP	T104704180	09/30/2023
Virginia	State Program	00106	06/30/2024
Virginia	State Program - NELAP	460181	09/14/2023

Sample Summary Table

Report Number: 23-172-0018
Client Project Description: Gastel
Project Number: 1705.A37
Morse, La

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
55340	SE-SB10 (2-4')	Solids	06/15/2023 08:35	06/21/2023		
55341	SE-SB10 (6-8')	Solids	06/15/2023 08:40	06/21/2023		
55342	SE-SB10 (10-12')	Solids	06/15/2023 08:45	06/21/2023		
55343	SE-SB10 (14-16')	Solids	06/15/2023 08:55	06/21/2023		
55344	SE-SB10 (18-20')	Solids	06/15/2023 09:00	06/21/2023		
55345	SE-SB10 (22-24')	Solids	06/15/2023 09:05	06/21/2023		
55346	SE-SB10 (26-28')	Solids	06/15/2023 09:15	06/21/2023		
55347	SE-SB10 (30-32')	Solids	06/15/2023 09:20	06/21/2023		
55348	SE-SB10 (34-36')	Solids	06/15/2023 09:30	06/21/2023		
55349	SE-SB10 (36-38')	Solids	06/15/2023 09:35	06/21/2023		
55350	SE-SB10 (38-40')	Solids	06/15/2023 09:38	06/21/2023		
55351	SE-SB11 (6-8')	Solids	06/15/2023 11:00	06/21/2023		
55352	SE-SB11 (10-12')	Solids	06/15/2023 11:05	06/21/2023		
55353	SE-SB11 (14-16')	Solids	06/15/2023 11:10	06/21/2023		
55354	SE-SB11 (18-20')	Solids	06/15/2023 11:15	06/21/2023		
55355	SE-SB11 (22-24')	Solids	06/15/2023 11:20	06/21/2023		
55356	SE-SB11 (26-28')	Solids	06/15/2023 11:30	06/21/2023		
55357	SE-SB12 (2-4')	Solids	06/15/2023 13:15	06/21/2023		
55358	SE-SB12 (6-8')	Solids	06/15/2023 13:20	06/21/2023		
55359	SE-SB12 (10-12')	Solids	06/15/2023 13:25	06/21/2023		
55360	SE-SB12 (14-16')	Solids	06/15/2023 13:35	06/21/2023		
55361	SE-SB12 (18-20')	Solids	06/15/2023 13:40	06/21/2023		
55362	SE-SB13 (2-4')	Solids	06/15/2023 14:30	06/21/2023		
55363	SE-SB13 (6-8')	Solids	06/15/2023 14:35	06/21/2023		
55364	SE-SB13 (10-12')	Solids	06/15/2023 14:40	06/21/2023		
55365	SE-SB13 (14-16')	Solids	06/15/2023 14:45	06/21/2023		

Sample Summary Table

Report Number: 23-172-0018
Client Project Description: Gastel
Project Number: 1705.A37
Morse, La

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
55366	SE-SB13 (18-20')	Solids	06/15/2023 14:50	06/21/2023		
55367	SE-SB14 (2-4')	Solids	06/16/2023 08:30	06/21/2023		
55368	SE-SB14 (6-8')	Solids	06/16/2023 08:35	06/21/2023		
55369	SE-SB14 (10-12')	Solids	06/16/2023 08:40	06/21/2023		
55370	SE-SB14 (14-16')	Solids	06/16/2023 08:50	06/21/2023		
55371	SE-SB14 (18-20')	Solids	06/16/2023 09:00	06/21/2023		
55372	SE-SB15 (2-4')	Solids	06/16/2023 10:10	06/21/2023		
55373	SE-SB15 (6-8')	Solids	06/16/2023 10:15	06/21/2023		
55374	SE-SB15 (10-12')	Solids	06/16/2023 10:20	06/21/2023		
55375	SE-SB15 (14-16')	Solids	06/16/2023 10:25	06/21/2023		
55376	SE-SB15 (18-20')	Solids	06/16/2023 10:35	06/21/2023		
55377	SE-SB16 (2-4')	Solids	06/16/2023 11:10	06/21/2023		
55378	SE-SB16 (6-8')	Solids	06/16/2023 11:15	06/21/2023		
55379	SE-SB16 (10-12')	Solids	06/16/2023 11:25	06/21/2023		
55380	SE-SB16 (14-16')	Solids	06/16/2023 11:30	06/21/2023		
55381	SE-SB01 (34-36')	Solids	06/16/2023 13:30	06/21/2023		
55382	SE-SB01 (38-40')	Solids	06/16/2023 13:35	06/21/2023		
55383	SE-SB01 (42-44')	Solids	06/16/2023 14:05	06/21/2023		
55384	SE-SB01 (44-46')	Solids	06/16/2023 14:15	06/21/2023		
57579	SE-SB01 (34-36')	TCLP	06/16/2023 13:30	06/21/2023	9056	WP MTN
57579	SE-SB01 (34-36')	TCLP	06/16/2023 13:30	06/21/2023	6010D	WP MTN
57579	SE-SB01 (34-36')	TCLP	06/16/2023 13:30	06/21/2023	1312	WP MTN
57580	SE-SB01 (44-46')	TCLP	06/16/2023 14:15	06/21/2023	9056	WP MTN
57580	SE-SB01 (44-46')	TCLP	06/16/2023 14:15	06/21/2023	6010D	WP MTN
57580	SE-SB01 (44-46')	TCLP	06/16/2023 14:15	06/21/2023	1312	WP MTN



Client: Hydro-Environmental Technology, Inc.
Project: Gastel
Lab Report Number: 23-172-0018
Date: 8/8/2023

CASE NARRATIVE

Methods

Methods reported as 29B are from the Laboratory Procedures for Analysis of Exploration & Production Waste – LDNR Office of Conservation Injection and Mining Division – Revised 11/2011.

Results

- 6010D/7471A metals are reported AR - As Received by adjusting the data using the percent moisture result.
- True Total Barium results are reported dry weight
- Oil & Grease results reported dry weight
- TX1006 results are reported as received
- VPH/EPH results reported as received
- PAH results reported as received

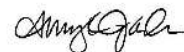
09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
Received : 06/21/2023



Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55340**

Matrix: **Solids**

Sample ID : **SE-SB10 (2-4')**

Sampled: **6/15/2023 8:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	23.2	%		1	07/05/23 11:02	BXH	SW-DRYWT
% Saturation (Sat Paste)	106	%		1	07/12/23 12:00	APB	29B
Alkalinity (Sat Paste)	0.8	meq/L		1	07/13/23 16:12	AJA	29B
Chloride (Sat Paste)	10.3	meq/L	0.010	5	07/17/23 12:39	MJM	29B
Chloride	157	mg/Kg	4.00	1	07/12/23 18:22	MJM	9056
Electrical Conductivity (Sat Paste)	1.57	mmhos/cm		1	07/12/23 12:00	APB	29B
pH (Sat Paste)	7.30	s.u.		1	07/12/23 12:00	APB	29B
Sulfate (Sat Paste)	2.69	meq/L	0.010	5	07/17/23 12:39	MJM	29B
Cation Exchange Capacity	25.2	meq/100g	0.100	20	07/12/23 20:54		29B
Exchangeable Sodium Percentage	8.19	%	0.100	1	07/12/23 12:00		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	11.9	Calc	0.050	10	07/13/23 18:13		29B
Calcium (Sat Paste)	1.79	meq/L	0.050	10	07/13/23 18:13	APB	29B
Magnesium (Sat Paste)	0.480	meq/L	0.082	10	07/13/23 18:13	APB	29B
Sodium (Sat Paste)	12.7	meq/L	0.210	10	07/13/23 18:13	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

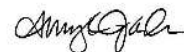
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Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
Received : 06/21/2023



Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55341**

Matrix: **Solids**

Sample ID : **SE-SB10 (6-8')**

Sampled: **6/15/2023 8:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.7	%		1	07/05/23 11:02	BXH	SW-DRYWT
% Saturation (Sat Paste)	90.4	%		1	07/12/23 12:00	APB	29B
Alkalinity (Sat Paste)	1.2	meq/L		1	07/13/23 16:12	AJA	29B
Chloride (Sat Paste)	11.7	meq/L	0.010	10	07/17/23 12:52	MJM	29B
Chloride	124	mg/Kg	4.00	1	07/12/23 18:34	MJM	9056
Electrical Conductivity (Sat Paste)	2.00	mmhos/cm		1	07/12/23 12:00	APB	29B
pH (Sat Paste)	7.76	s.u.		1	07/12/23 12:00	APB	29B
Sulfate (Sat Paste)	5.47	meq/L	0.010	10	07/17/23 12:52	MJM	29B
Calcium (Sat Paste)	1.55	meq/L	0.100	20	07/13/23 18:17	APB	29B
Magnesium (Sat Paste)	0.684	meq/L	0.164	20	07/13/23 18:17	APB	29B
Sodium (Sat Paste)	16.4	meq/L	0.420	20	07/13/23 18:17	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

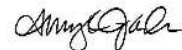
09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
Received : 06/21/2023



Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55342**

Matrix: **Solids**

Sample ID : **SE-SB10 (10-12')**

Sampled: **6/15/2023 8:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	16.5	%		1	07/05/23 11:02	BXH	SW-DRYWT
% Saturation (Sat Paste)	58.4	%		1	07/12/23 12:00	APB	29B
Alkalinity (Sat Paste)	1.0	meq/L		1	07/13/23 16:12	AJA	29B
Chloride (Sat Paste)	14.8	meq/L	0.010	10	07/17/23 13:04	MJM	29B
Chloride	229	mg/Kg	4.00	1	07/12/23 18:46	MJM	9056
Electrical Conductivity (Sat Paste)	2.21	mmhos/cm		1	07/12/23 12:00	APB	29B
pH (Sat Paste)	7.39	s.u.		1	07/12/23 12:00	APB	29B
Sulfate (Sat Paste)	4.38	meq/L	0.010	10	07/17/23 13:04	MJM	29B
Calcium (Sat Paste)	1.35	meq/L	0.100	20	07/13/23 18:21	APB	29B
Magnesium (Sat Paste)	0.452	meq/L	0.164	20	07/13/23 18:21	APB	29B
Sodium (Sat Paste)	18.7	meq/L	0.420	20	07/13/23 18:21	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

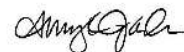
09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
Received : 06/21/2023



Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55343**

Matrix: **Solids**

Sample ID : **SE-SB10 (14-16')**

Sampled: **6/15/2023 8:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	23.1	%		1	07/07/23 15:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	89.8	%		1	07/12/23 12:00	APB	29B
Alkalinity (Sat Paste)	0.5	meq/L		1	07/13/23 16:12	AJA	29B
Chloride (Sat Paste)	106	meq/L	0.014	50	07/17/23 13:17	MJM	29B
Chloride	2420	mg/Kg	20.0	5	07/12/23 20:37	MJM	9056
Electrical Conductivity (Sat Paste)	10.8	mmhos/cm		1	07/12/23 12:00	APB	29B
pH (Sat Paste)	6.93	s.u.		1	07/12/23 12:00	APB	29B
Sulfate (Sat Paste)	0.526	meq/L	0.010	50	07/17/23 13:17	MJM	29B
Calcium (Sat Paste)	26.0	meq/L	0.100	20	07/13/23 18:25	APB	29B
Magnesium (Sat Paste)	15.6	meq/L	0.164	20	07/13/23 18:25	APB	29B
Sodium (Sat Paste)	60.1	meq/L	0.420	20	07/13/23 18:25	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

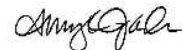
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Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
Received : 06/21/2023



Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55344**

Matrix: **Solids**

Sample ID : **SE-SB10 (18-20')**

Sampled: **6/15/2023 9:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	27.7	%		1	07/07/23 15:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	138	%		1	07/12/23 12:00	APB	29B
Alkalinity (Sat Paste)	2.2	meq/L		1	07/13/23 16:12	AJA	29B
Chloride (Sat Paste)	8.57	meq/L	0.010	5	07/17/23 13:30	MJM	29B
Chloride	219	mg/Kg	4.00	1	07/12/23 20:50	MJM	9056
Electrical Conductivity (Sat Paste)	1.32	mmhos/cm		1	07/12/23 12:00	APB	29B
pH (Sat Paste)	8.33	s.u.		1	07/12/23 12:00	APB	29B
Sulfate (Sat Paste)	1.52	meq/L	0.010	5	07/17/23 13:30	MJM	29B
Calcium (Sat Paste)	2.67	meq/L	0.050	10	07/13/23 18:29	APB	29B
Magnesium (Sat Paste)	1.61	meq/L	0.082	10	07/13/23 18:29	APB	29B
Sodium (Sat Paste)	7.53	meq/L	0.210	10	07/13/23 18:29	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

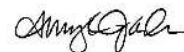
09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
Received : 06/21/2023



Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55345**

Matrix: **Solids**

Sample ID : **SE-SB10 (22-24')**

Sampled: **6/15/2023 9:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	17.0	%		1	07/07/23 15:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	57.7	%		1	07/12/23 12:00	APB	29B
Alkalinity (Sat Paste)	1.3	meq/L		1	07/13/23 16:12	AJA	29B
Chloride (Sat Paste)	61.3	meq/L	0.014	50	07/17/23 13:43	MJM	29B
Chloride	854	mg/Kg	20.0	5	07/12/23 21:02	MJM	9056
Electrical Conductivity (Sat Paste)	6.53	mmhos/cm		1	07/12/23 12:00	APB	29B
pH (Sat Paste)	7.55	s.u.		1	07/12/23 12:00	APB	29B
Sulfate (Sat Paste)	1.37	meq/L	0.010	50	07/17/23 13:43	MJM	29B
Calcium (Sat Paste)	15.5	meq/L	0.100	20	07/13/23 18:34	APB	29B
Magnesium (Sat Paste)	8.89	meq/L	0.164	20	07/13/23 18:34	APB	29B
Sodium (Sat Paste)	35.4	meq/L	0.420	20	07/13/23 18:34	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Hydro-Environmental Technology, Inc.
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Information : Project Number: 1705.A37
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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55346**

Matrix: **Solids**

Sample ID : **SE-SB10 (26-28')**

Sampled: **6/15/2023 9:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.7	%		1	07/07/23 15:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	48.4	%		1	07/12/23 12:00	APB	29B
Alkalinity (Sat Paste)	0.9	meq/L		1	07/13/23 16:12	AJA	29B
Chloride (Sat Paste)	64.0	meq/L	0.014	50	07/17/23 13:56	MJM	29B
Chloride	1040	mg/Kg	20.0	5	07/12/23 21:14	MJM	9056
Electrical Conductivity (Sat Paste)	6.72	mmhos/cm		1	07/12/23 12:00	APB	29B
pH (Sat Paste)	7.31	s.u.		1	07/12/23 12:00	APB	29B
Sulfate (Sat Paste)	1.19	meq/L	0.010	50	07/17/23 13:56	MJM	29B
Calcium (Sat Paste)	21.9	meq/L	0.100	20	07/13/23 18:38	APB	29B
Magnesium (Sat Paste)	12.4	meq/L	0.164	20	07/13/23 18:38	APB	29B
Sodium (Sat Paste)	26.8	meq/L	0.420	20	07/13/23 18:38	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

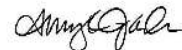
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Project Gastel

Information : Project Number: 1705.A37
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Report Date : 08/08/2023
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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55347**

Matrix: **Solids**

Sample ID : **SE-SB10 (30-32')**

Sampled: **6/15/2023 9:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.7	%		1	07/07/23 15:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	53.3	%		1	07/12/23 12:00	APB	29B
Alkalinity (Sat Paste)	0.8	meq/L		1	07/13/23 16:12	AJA	29B
Chloride (Sat Paste)	86.6	meq/L	0.014	50	07/17/23 14:09	MJM	29B
Chloride	1210	mg/Kg	20.0	5	07/12/23 21:27	MJM	9056
Electrical Conductivity (Sat Paste)	9.00	mmhos/cm		1	07/12/23 12:00	APB	29B
pH (Sat Paste)	7.33	s.u.		1	07/12/23 12:00	APB	29B
Sulfate (Sat Paste)	1.16	meq/L	0.010	50	07/17/23 14:09	MJM	29B
Calcium (Sat Paste)	18.8	meq/L	0.100	20	07/13/23 18:42	APB	29B
Magnesium (Sat Paste)	10.5	meq/L	0.164	20	07/13/23 18:42	APB	29B
Sodium (Sat Paste)	53.9	meq/L	0.420	20	07/13/23 18:42	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Project Gastel

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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55348**

Matrix: **Solids**

Sample ID : **SE-SB10 (34-36')**

Sampled: **6/15/2023 9:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.9	%		1	07/07/23 15:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	43.5	%		1	07/12/23 12:00	APB	29B
Alkalinity (Sat Paste)	0.7	meq/L		1	07/13/23 16:12	AJA	29B
Chloride (Sat Paste)	118	meq/L	0.014	50	07/17/23 14:22	MJM	29B
Chloride	1600	mg/Kg	20.0	5	07/12/23 21:39	MJM	9056
Electrical Conductivity (Sat Paste)	12.0	mmhos/cm		1	07/12/23 12:00	APB	29B
pH (Sat Paste)	7.26	s.u.		1	07/12/23 12:00	APB	29B
Sulfate (Sat Paste)	1.62	meq/L	0.010	50	07/17/23 14:22	MJM	29B
Calcium (Sat Paste)	36.1	meq/L	0.100	20	07/13/23 18:46	APB	29B
Magnesium (Sat Paste)	21.9	meq/L	0.164	20	07/13/23 18:46	APB	29B
Sodium (Sat Paste)	55.8	meq/L	0.420	20	07/13/23 18:46	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Hydro-Environmental Technology, Inc.
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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55349**

Matrix: **Solids**

Sample ID : **SE-SB10 (36-38')**

Sampled: **6/15/2023 9:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	15.6	%		1	07/07/23 15:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	34.8	%		1	07/12/23 12:00	APB	29B
Alkalinity (Sat Paste)	2.0	meq/L		1	07/13/23 16:12	AJA	29B
Chloride (Sat Paste)	11.3	meq/L	0.010	5	07/17/23 14:35	MJM	29B
Chloride	116	mg/Kg	4.00	1	07/12/23 21:52	MJM	9056
Electrical Conductivity (Sat Paste)	1.86	mmhos/cm		1	07/12/23 12:00	APB	29B
pH (Sat Paste)	8.05	s.u.		1	07/12/23 12:00	APB	29B
Sulfate (Sat Paste)	4.86	meq/L	0.010	5	07/17/23 14:35	MJM	29B
Calcium (Sat Paste)	6.01	meq/L	0.050	10	07/13/23 18:50	APB	29B
Magnesium (Sat Paste)	3.18	meq/L	0.082	10	07/13/23 18:50	APB	29B
Sodium (Sat Paste)	7.42	meq/L	0.210	10	07/13/23 18:50	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

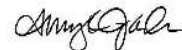
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Project Gastel

Information : Project Number: 1705.A37
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Report Date : 08/08/2023
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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55350**

Matrix: **Solids**

Sample ID : **SE-SB10 (38-40')**

Sampled: **6/15/2023 9:38**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.4	%		1	07/07/23 15:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	31.9	%		1	07/12/23 12:00	APB	29B
Alkalinity (Sat Paste)	3.4	meq/L		1	07/13/23 16:12	AJA	29B
Chloride (Sat Paste)	3.68	meq/L	0.010	5	07/14/23 18:43	MJM	29B
Chloride	21.2	mg/Kg	4.00	1	07/12/23 22:04	MJM	9056
Electrical Conductivity (Sat Paste)	1.41	mmhos/cm		1	07/12/23 12:00	APB	29B
pH (Sat Paste)	8.26	s.u.		1	07/12/23 12:00	APB	29B
Sulfate (Sat Paste)	8.25	meq/L	0.010	5	07/14/23 18:43	MJM	29B
Calcium (Sat Paste)	4.23	meq/L	0.050	10	07/13/23 19:03	APB	29B
Magnesium (Sat Paste)	2.38	meq/L	0.082	10	07/13/23 19:03	APB	29B
Sodium (Sat Paste)	7.57	meq/L	0.210	10	07/13/23 19:03	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
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Report Date : 08/08/2023
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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55351**

Matrix: **Solids**

Sample ID : **SE-SB11 (6-8')**

Sampled: **6/15/2023 11:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	20.2	%		1	07/07/23 15:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	88.7	%		1	07/12/23 12:00	APB	29B
Alkalinity (Sat Paste)	2.0	meq/L		1	07/13/23 16:12	AJA	29B
Chloride (Sat Paste)	9.80	meq/L	0.010	5	07/14/23 18:56	MJM	29B
Chloride	158	mg/Kg	4.00	1	07/12/23 22:53	MJM	9056
Electrical Conductivity (Sat Paste)	1.51	mmhos/cm		1	07/12/23 12:00	APB	29B
pH (Sat Paste)	8.10	s.u.		1	07/12/23 12:00	APB	29B
Sulfate (Sat Paste)	2.15	meq/L	0.010	5	07/14/23 18:56	MJM	29B
Calcium (Sat Paste)	0.927	meq/L	0.050	10	07/13/23 19:07	APB	29B
Magnesium (Sat Paste)	0.498	meq/L	0.082	10	07/13/23 19:07	APB	29B
Sodium (Sat Paste)	11.8	meq/L	0.210	10	07/13/23 19:07	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
Received : 06/21/2023



Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55352**

Matrix: **Solids**

Sample ID : **SE-SB11 (10-12')**

Sampled: **6/15/2023 11:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	17.8	%		1	07/07/23 15:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	74.2	%		1	07/12/23 12:00	APB	29B
Alkalinity (Sat Paste)	1.6	meq/L		1	07/13/23 16:12	AJA	29B
Chloride (Sat Paste)	7.83	meq/L	0.010	5	07/14/23 19:09	MJM	29B
Chloride	67.0	mg/Kg	4.00	1	07/12/23 23:06	MJM	9056
Electrical Conductivity (Sat Paste)	1.20	mmhos/cm		1	07/12/23 12:00	APB	29B
pH (Sat Paste)	7.83	s.u.		1	07/12/23 12:00	APB	29B
Sulfate (Sat Paste)	1.55	meq/L	0.010	5	07/14/23 19:09	MJM	29B
Calcium (Sat Paste)	1.22	meq/L	0.050	10	07/13/23 19:11	APB	29B
Magnesium (Sat Paste)	0.690	meq/L	0.082	10	07/13/23 19:11	APB	29B
Sodium (Sat Paste)	8.74	meq/L	0.210	10	07/13/23 19:11	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

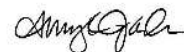
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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55353**

Matrix: **Solids**

Sample ID : **SE-SB11 (14-16')**

Sampled: **6/15/2023 11:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	21.3	%		1	07/07/23 15:58	BXH	SW-DRYWT
% Saturation (Sat Paste)	57.7	%		1	07/12/23 12:00	APB	29B
Alkalinity (Sat Paste)	2.8	meq/L		1	07/13/23 16:12	AJA	29B
Chloride (Sat Paste)	2.92	meq/L	0.010	5	07/14/23 19:22	MJM	29B
Chloride	36.9	mg/Kg	4.00	1	07/12/23 23:18	MJM	9056
Electrical Conductivity (Sat Paste)	0.686	mmhos/cm		1	07/12/23 12:00	APB	29B
pH (Sat Paste)	7.79	s.u.		1	07/12/23 12:00	APB	29B
Sulfate (Sat Paste)	0.846	meq/L	0.010	5	07/14/23 19:22	MJM	29B
Calcium (Sat Paste)	1.02	meq/L	0.050	10	07/13/23 19:15	APB	29B
Magnesium (Sat Paste)	0.577	meq/L	0.082	10	07/13/23 19:15	APB	29B
Sodium (Sat Paste)	4.67	meq/L	0.210	10	07/13/23 19:15	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

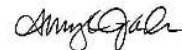
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Information : Project Number: 1705.A37
Morse, La

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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55354**

Matrix: **Solids**

Sample ID : **SE-SB11 (18-20')**

Sampled: **6/15/2023 11:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	21.7	%		1	07/07/23 15:58	BXH	SW-DRYWT
% Saturation (Sat Paste)	121	%		1	07/12/23 12:00	APB	29B
Alkalinity (Sat Paste)	3.8	meq/L		1	07/13/23 16:12	AJA	29B
Chloride (Sat Paste)	1.19	meq/L	0.010	5	07/14/23 19:34	MJM	29B
Chloride	19.3	mg/Kg	4.00	1	07/12/23 23:30	MJM	9056
Electrical Conductivity (Sat Paste)	0.611	mmhos/cm		1	07/12/23 12:00	APB	29B
pH (Sat Paste)	8.32	s.u.		1	07/12/23 12:00	APB	29B
Sulfate (Sat Paste)	0.841	meq/L	0.010	5	07/14/23 19:34	MJM	29B
Calcium (Sat Paste)	1.06	meq/L	0.050	10	07/13/23 19:19	APB	29B
Magnesium (Sat Paste)	0.582	meq/L	0.082	10	07/13/23 19:19	APB	29B
Sodium (Sat Paste)	4.32	meq/L	0.210	10	07/13/23 19:19	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

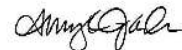
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55355**

Matrix: **Solids**

Sample ID : **SE-SB11 (22-24')**

Sampled: **6/15/2023 11:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	26.3	%		1	07/07/23 15:58	BXH	SW-DRYWT
% Saturation (Sat Paste)	135	%		1	07/12/23 12:00	APB	29B
Alkalinity (Sat Paste)	2.8	meq/L		1	07/13/23 16:12	AJA	29B
Chloride (Sat Paste)	1.04	meq/L	0.010	5	07/14/23 19:47	MJM	29B
Chloride	17.8	mg/Kg	4.00	1	07/14/23 14:13	MJM	9056
Electrical Conductivity (Sat Paste)	0.471	mmhos/cm		1	07/12/23 12:00	APB	29B
pH (Sat Paste)	8.34	s.u.		1	07/12/23 12:00	APB	29B
Sulfate (Sat Paste)	0.486	meq/L	0.010	5	07/14/23 19:47	MJM	29B
Calcium (Sat Paste)	0.847	meq/L	0.050	10	07/13/23 19:23	APB	29B
Magnesium (Sat Paste)	0.513	meq/L	0.082	10	07/13/23 19:23	APB	29B
Sodium (Sat Paste)	3.09	meq/L	0.210	10	07/13/23 19:23	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

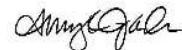
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Morse, La

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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55356**

Matrix: **Solids**

Sample ID : **SE-SB11 (26-28')**

Sampled: **6/15/2023 11:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	16.3	%		1	07/07/23 15:58	BXH	SW-DRYWT
% Saturation (Sat Paste)	46.7	%		1	07/12/23 12:00	APB	29B
Alkalinity (Sat Paste)	2.5	meq/L		1	07/13/23 16:12	AJA	29B
Chloride (Sat Paste)	1.44	meq/L	0.010	5	07/14/23 20:00	MJM	29B
Chloride	15.5	mg/Kg	4.00	1	07/14/23 14:26	MJM	9056
Electrical Conductivity (Sat Paste)	0.466	mmhos/cm		1	07/12/23 12:00	APB	29B
pH (Sat Paste)	7.90	s.u.		1	07/12/23 12:00	APB	29B
Sulfate (Sat Paste)	0.596	meq/L	0.010	5	07/14/23 20:00	MJM	29B
Calcium (Sat Paste)	1.06	meq/L	0.050	10	07/13/23 19:27	APB	29B
Magnesium (Sat Paste)	0.595	meq/L	0.082	10	07/13/23 19:27	APB	29B
Sodium (Sat Paste)	2.72	meq/L	0.210	10	07/13/23 19:27	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

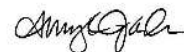
09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
Received : 06/21/2023



Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55357**

Matrix: **Solids**

Sample ID : **SE-SB12 (2-4')**

Sampled: **6/15/2023 13:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.0	%		1	07/07/23 15:58	BXH	SW-DRYWT
% Saturation (Sat Paste)	117	%		1	07/12/23 12:00	APB	29B
Alkalinity (Sat Paste)	2.9	meq/L		1	07/13/23 16:12	AJA	29B
Chloride (Sat Paste)	7.82	meq/L	0.010	5	07/14/23 20:13	MJM	29B
Chloride	196	mg/Kg	4.00	1	07/14/23 14:38	MJM	9056
Electrical Conductivity (Sat Paste)	1.35	mmhos/cm		1	07/12/23 12:00	APB	29B
pH (Sat Paste)	8.41	s.u.		1	07/12/23 12:00	APB	29B
Sulfate (Sat Paste)	1.58	meq/L	0.010	5	07/14/23 20:13	MJM	29B
Cation Exchange Capacity	22.7	meq/100g	0.100	20	07/12/23 20:58		29B
Exchangeable Sodium Percentage	11.6	%	0.100	1	07/12/23 12:00		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	16.4	Calc	0.050	10	07/13/23 19:31		29B
Calcium (Sat Paste)	0.530	meq/L	0.050	10	07/13/23 19:31	APB	29B
Magnesium (Sat Paste)	0.431	meq/L	0.082	10	07/13/23 19:31	APB	29B
Sodium (Sat Paste)	11.4	meq/L	0.210	10	07/13/23 19:31	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

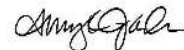
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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55358**

Matrix: **Solids**

Sample ID : **SE-SB12 (6-8')**

Sampled: **6/15/2023 13:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.4	%		1	07/07/23 15:58	BXH	SW-DRYWT
% Saturation (Sat Paste)	62.6	%		1	07/12/23 12:00	APB	29B
Alkalinity (Sat Paste)	0.8	meq/L		1	07/13/23 16:12	AJA	29B
Chloride (Sat Paste)	12.6	meq/L	0.010	5	07/14/23 20:26	MJM	29B
Chloride	254	mg/Kg	4.00	1	07/14/23 14:50	MJM	9056
Electrical Conductivity (Sat Paste)	1.66	mmhos/cm		1	07/12/23 12:00	APB	29B
pH (Sat Paste)	7.39	s.u.		1	07/12/23 12:00	APB	29B
Sulfate (Sat Paste)	1.24	meq/L	0.010	5	07/14/23 20:26	MJM	29B
Calcium (Sat Paste)	0.786	meq/L	0.050	10	07/13/23 19:35	APB	29B
Magnesium (Sat Paste)	0.556	meq/L	0.082	10	07/13/23 19:35	APB	29B
Sodium (Sat Paste)	12.9	meq/L	0.210	10	07/13/23 19:35	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

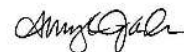
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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55359**

Matrix: **Solids**

Sample ID : **SE-SB12 (10-12')**

Sampled: **6/15/2023 13:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	25.7	%		1	07/07/23 15:58	BXH	SW-DRYWT
% Saturation (Sat Paste)	52.7	%		1	07/12/23 12:00	APB	29B
Alkalinity (Sat Paste)	0.8	meq/L		1	07/13/23 16:12	AJA	29B
Chloride (Sat Paste)	6.51	meq/L	0.010	5	07/14/23 21:30	MJM	29B
Chloride	121	mg/Kg	4.00	1	07/14/23 15:27	MJM	9056
Electrical Conductivity (Sat Paste)	1.05	mmhos/cm		1	07/12/23 12:00	APB	29B
pH (Sat Paste)	7.86	s.u.		1	07/12/23 12:00	APB	29B
Sulfate (Sat Paste)	0.845	meq/L	0.010	5	07/14/23 21:30	MJM	29B
Calcium (Sat Paste)	1.20	meq/L	0.050	10	07/13/23 19:52	APB	29B
Magnesium (Sat Paste)	0.739	meq/L	0.082	10	07/13/23 19:52	APB	29B
Sodium (Sat Paste)	7.65	meq/L	0.210	10	07/13/23 19:52	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Hydro-Environmental Technology, Inc.
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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55360**

Matrix: **Solids**

Sample ID : **SE-SB12 (14-16')**

Sampled: **6/15/2023 13:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	25.8	%		1	07/07/23 15:58	BXH	SW-DRYWT
% Saturation (Sat Paste)	109	%		1	07/14/23 10:53	APB	29B
Alkalinity (Sat Paste)	1.7	meq/L		1	07/14/23 08:00	AJA	29B
Chloride (Sat Paste)	1.88	meq/L	0.010	5	07/18/23 12:12	MJM	29B
Chloride	39.9	mg/Kg	4.00	1	07/14/23 15:40	MJM	9056
Electrical Conductivity (Sat Paste)	0.518	mmhos/cm		1	07/14/23 10:53	APB	29B
pH (Sat Paste)	7.91	s.u.		1	07/14/23 10:53	APB	29B
Sulfate (Sat Paste)	0.810	meq/L	0.010	5	07/18/23 12:12	MJM	29B
Calcium (Sat Paste)	1.69	meq/L	0.050	10	07/17/23 12:31	APB	29B
Magnesium (Sat Paste)	0.389	meq/L	0.082	10	07/17/23 12:31	APB	29B
Sodium (Sat Paste)	3.98	meq/L	0.210	10	07/17/23 12:31	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

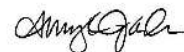
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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55361**

Matrix: **Solids**

Sample ID : **SE-SB12 (18-20')**

Sampled: **6/15/2023 13:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.6	%		1	07/07/23 15:58	BXH	SW-DRYWT
% Saturation (Sat Paste)	66.3	%		1	07/14/23 10:53	APB	29B
Alkalinity (Sat Paste)	3.8	meq/L		1	07/14/23 08:00	AJA	29B
Chloride (Sat Paste)	2.14	meq/L	0.010	5	07/18/23 12:25	MJM	29B
Chloride	18.4	mg/Kg	4.00	1	07/14/23 15:52	MJM	9056
Electrical Conductivity (Sat Paste)	0.739	mmhos/cm		1	07/14/23 10:53	APB	29B
pH (Sat Paste)	8.19	s.u.		1	07/14/23 10:53	APB	29B
Sulfate (Sat Paste)	1.01	meq/L	0.010	5	07/18/23 12:25	MJM	29B
Calcium (Sat Paste)	1.70	meq/L	0.050	10	07/17/23 12:35	APB	29B
Magnesium (Sat Paste)	0.761	meq/L	0.082	10	07/17/23 12:35	APB	29B
Sodium (Sat Paste)	5.40	meq/L	0.210	10	07/17/23 12:35	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

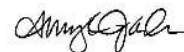
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Project Gastel

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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55362**

Matrix: **Solids**

Sample ID : **SE-SB13 (2-4')**

Sampled: **6/15/2023 14:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.1	%		1	07/07/23 15:58	BXH	SW-DRYWT
% Saturation (Sat Paste)	83.0	%		1	07/14/23 10:53	APB	29B
Alkalinity (Sat Paste)	0.2	meq/L		1	07/14/23 08:00	AJA	29B
Chloride (Sat Paste)	40.3	meq/L	0.010	20	07/18/23 12:38	MJM	29B
Chloride	1010	mg/Kg	8.00	2	07/14/23 16:04	MJM	9056
Electrical Conductivity (Sat Paste)	4.37	mmhos/cm		1	07/14/23 10:53	APB	29B
pH (Sat Paste)	7.41	s.u.		1	07/14/23 10:53	APB	29B
Sulfate (Sat Paste)	0.140	meq/L	0.010	20	07/18/23 12:38	MJM	29B
Cation Exchange Capacity	32.4	meq/100g	0.100	20	07/12/23 21:15		29B
Exchangeable Sodium Percentage	3.78	%	0.100	1	07/12/23 21:15		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	7.96	Calc	0.100	20	07/17/23 12:39		29B
Calcium (Sat Paste)	10.5	meq/L	0.100	20	07/17/23 12:39	APB	29B
Magnesium (Sat Paste)	6.48	meq/L	0.164	20	07/17/23 12:39	APB	29B
Sodium (Sat Paste)	23.2	meq/L	0.420	20	07/17/23 12:39	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55363**

Matrix: **Solids**

Sample ID : **SE-SB13 (6-8')**

Sampled: **6/15/2023 14:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	15.9	%		1	07/07/23 16:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	93.0	%		1	07/14/23 10:53	APB	29B
Alkalinity (Sat Paste)	0.8	meq/L		1	07/14/23 08:00	AJA	29B
Chloride (Sat Paste)	5.84	meq/L	0.010	5	07/18/23 12:50	MJM	29B
Chloride	132	mg/Kg	4.00	1	07/14/23 16:54	MJM	9056
Electrical Conductivity (Sat Paste)	0.816	mmhos/cm		1	07/14/23 10:53	APB	29B
pH (Sat Paste)	7.50	s.u.		1	07/14/23 10:53	APB	29B
Sulfate (Sat Paste)	0.493	meq/L	0.010	5	07/18/23 12:50	MJM	29B
Calcium (Sat Paste)	1.29	meq/L	0.050	10	07/17/23 12:44	APB	29B
Magnesium (Sat Paste)	0.714	meq/L	0.082	10	07/17/23 12:44	APB	29B
Sodium (Sat Paste)	5.34	meq/L	0.210	10	07/17/23 12:44	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55364**

Matrix: **Solids**

Sample ID : **SE-SB13 (10-12')**

Sampled: **6/15/2023 14:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	17.7	%		1	07/07/23 16:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	79.5	%		1	07/14/23 10:53	APB	29B
Alkalinity (Sat Paste)	0.6	meq/L		1	07/14/23 08:00	AJA	29B
Chloride (Sat Paste)	13.6	meq/L	0.010	5	07/18/23 13:03	MJM	29B
Chloride	324	mg/Kg	4.00	1	07/14/23 17:06	MJM	9056
Electrical Conductivity (Sat Paste)	1.71	mmhos/cm		1	07/14/23 10:53	APB	29B
pH (Sat Paste)	7.25	s.u.		1	07/14/23 10:53	APB	29B
Sulfate (Sat Paste)	0.428	meq/L	0.010	5	07/18/23 13:03	MJM	29B
Calcium (Sat Paste)	3.21	meq/L	0.050	10	07/17/23 12:48	APB	29B
Magnesium (Sat Paste)	1.70	meq/L	0.082	10	07/17/23 12:48	APB	29B
Sodium (Sat Paste)	10.3	meq/L	0.210	10	07/17/23 12:48	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55365**

Matrix: **Solids**

Sample ID : **SE-SB13 (14-16')**

Sampled: **6/15/2023 14:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	7.49	%		1	07/07/23 16:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	37.4	%		1	07/14/23 10:53	APB	29B
Alkalinity (Sat Paste)	0.4	meq/L		1	07/14/23 08:00	AJA	29B
Chloride (Sat Paste)	15.9	meq/L	0.010	10	07/19/23 09:55	MJM	29B
Chloride	106	mg/Kg	4.00	1	07/14/23 17:18	MJM	9056
Electrical Conductivity (Sat Paste)	1.87	mmhos/cm		1	07/14/23 10:53	APB	29B
pH (Sat Paste)	6.80	s.u.		1	07/14/23 10:53	APB	29B
Sulfate (Sat Paste)	0.341	meq/L	0.010	10	07/19/23 09:55	MJM	29B
Calcium (Sat Paste)	6.46	meq/L	0.050	10	07/17/23 12:52	APB	29B
Magnesium (Sat Paste)	2.81	meq/L	0.082	10	07/17/23 12:52	APB	29B
Sodium (Sat Paste)	7.49	meq/L	0.210	10	07/17/23 12:52	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

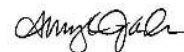
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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55366**

Matrix: **Solids**

Sample ID : **SE-SB13 (18-20')**

Sampled: **6/15/2023 14:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	20.7	%		1	07/07/23 16:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	120	%		1	07/14/23 10:53	APB	29B
Alkalinity (Sat Paste)	2.0	meq/L		1	07/14/23 08:00	AJA	29B
Chloride (Sat Paste)	4.66	meq/L	0.010	5	07/18/23 13:29	MJM	29B
Chloride	114	mg/Kg	4.00	1	07/14/23 17:31	MJM	9056
Electrical Conductivity (Sat Paste)	0.790	mmhos/cm		1	07/14/23 10:53	APB	29B
pH (Sat Paste)	7.89	s.u.		1	07/14/23 10:53	APB	29B
Sulfate (Sat Paste)	0.552	meq/L	0.010	5	07/18/23 13:29	MJM	29B
Calcium (Sat Paste)	2.57	meq/L	0.050	10	07/17/23 12:56	APB	29B
Magnesium (Sat Paste)	1.25	meq/L	0.082	10	07/17/23 12:56	APB	29B
Sodium (Sat Paste)	3.45	meq/L	0.210	10	07/17/23 12:56	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Hydro-Environmental Technology, Inc.
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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55367**

Matrix: **Solids**

Sample ID : **SE-SB14 (2-4')**

Sampled: **6/16/2023 8:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.1	%		1	07/07/23 16:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	78.1	%		1	07/14/23 10:53	APB	29B
Alkalinity (Sat Paste)	0.2	meq/L		1	07/14/23 08:00	AJA	29B
Chloride (Sat Paste)	19.7	meq/L	0.010	10	07/18/23 13:42	MJM	29B
Chloride	542	mg/Kg	4.00	1	07/14/23 17:43	MJM	9056
Electrical Conductivity (Sat Paste)	2.25	mmhos/cm		1	07/14/23 10:53	APB	29B
pH (Sat Paste)	5.28	s.u.		1	07/14/23 10:53	APB	29B
Sulfate (Sat Paste)	0.156	meq/L	0.010	10	07/18/23 13:42	MJM	29B
Cation Exchange Capacity	28.4	meq/100g	0.100	20	07/12/23 21:19		29B
Exchangeable Sodium Percentage	3.91	%	0.100	1	07/12/23 21:19		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	6.20	Calc	0.100	20	07/17/23 13:00		29B
Calcium (Sat Paste)	5.04	meq/L	0.100	20	07/17/23 13:00	APB	29B
Magnesium (Sat Paste)	2.82	meq/L	0.164	20	07/17/23 13:00	APB	29B
Sodium (Sat Paste)	12.3	meq/L	0.420	20	07/17/23 13:00	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

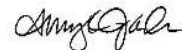
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Project Gastel

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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55368**

Matrix: **Solids**

Sample ID : **SE-SB14 (6-8')**

Sampled: **6/16/2023 8:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.9	%		1	07/07/23 16:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	93.1	%		1	07/14/23 10:53	APB	29B
Alkalinity (Sat Paste)	2.0	meq/L		1	07/14/23 08:00	AJA	29B
Chloride (Sat Paste)	5.79	meq/L	0.010	5	07/18/23 13:55	MJM	29B
Chloride	136	mg/Kg	4.00	1	07/14/23 17:56	MJM	9056
Electrical Conductivity (Sat Paste)	0.895	mmhos/cm		1	07/14/23 10:53	APB	29B
pH (Sat Paste)	8.03	s.u.		1	07/14/23 10:53	APB	29B
Sulfate (Sat Paste)	0.419	meq/L	0.010	5	07/18/23 13:55	MJM	29B
Calcium (Sat Paste)	1.91	meq/L	0.050	10	07/17/23 13:04	APB	29B
Magnesium (Sat Paste)	1.06	meq/L	0.082	10	07/17/23 13:04	APB	29B
Sodium (Sat Paste)	5.38	meq/L	0.210	10	07/17/23 13:04	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
Received : 06/21/2023



Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55369**

Matrix: **Solids**

Sample ID : **SE-SB14 (10-12')**

Sampled: **6/16/2023 8:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.3	%		1	07/07/23 16:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	79.1	%		1	07/14/23 10:53	APB	29B
Alkalinity (Sat Paste)	2.5	meq/L		1	07/14/23 08:00	AJA	29B
Chloride (Sat Paste)	9.19	meq/L	0.010	5	07/18/23 14:59	MJM	29B
Chloride	186	mg/Kg	4.00	1	07/14/23 18:08	MJM	9056
Electrical Conductivity (Sat Paste)	1.33	mmhos/cm		1	07/14/23 10:53	APB	29B
pH (Sat Paste)	8.13	s.u.		1	07/14/23 10:53	APB	29B
Sulfate (Sat Paste)	0.492	meq/L	0.010	5	07/18/23 14:59	MJM	29B
Calcium (Sat Paste)	3.35	meq/L	0.050	10	07/17/23 13:21	APB	29B
Magnesium (Sat Paste)	1.75	meq/L	0.082	10	07/17/23 13:21	APB	29B
Sodium (Sat Paste)	7.18	meq/L	0.210	10	07/17/23 13:21	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

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Project Gastel

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Morse, La

Report Date : 08/08/2023
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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55370**

Matrix: **Solids**

Sample ID : **SE-SB14 (14-16')**

Sampled: **6/16/2023 8:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	22.0	%		1	07/07/23 16:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	50.9	%		1	07/14/23 10:53	APB	29B
Alkalinity (Sat Paste)	1.8	meq/L		1	07/14/23 08:00	AJA	29B
Chloride (Sat Paste)	8.81	meq/L	0.010	5	07/18/23 15:12	MJM	29B
Chloride	141	mg/Kg	4.00	1	07/14/23 18:20	MJM	9056
Electrical Conductivity (Sat Paste)	1.22	mmhos/cm		1	07/14/23 10:53	APB	29B
pH (Sat Paste)	7.80	s.u.		1	07/14/23 10:53	APB	29B
Sulfate (Sat Paste)	0.510	meq/L	0.010	5	07/18/23 15:12	MJM	29B
Calcium (Sat Paste)	4.26	meq/L	0.050	10	07/17/23 13:25	APB	29B
Magnesium (Sat Paste)	2.07	meq/L	0.082	10	07/17/23 13:25	APB	29B
Sodium (Sat Paste)	4.79	meq/L	0.210	10	07/17/23 13:25	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

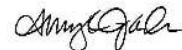
09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
Received : 06/21/2023



Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55371**

Matrix: **Solids**

Sample ID : **SE-SB14 (18-20')**

Sampled: **6/16/2023 9:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	23.1	%		1	07/07/23 16:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	123	%		1	07/14/23 10:53	APB	29B
Alkalinity (Sat Paste)	3.0	meq/L		1	07/14/23 08:00	AJA	29B
Chloride (Sat Paste)	0.922	meq/L	0.010	5	07/18/23 15:25	MJM	29B
Chloride	11.2	mg/Kg	4.00	1	07/14/23 18:33	MJM	9056
Electrical Conductivity (Sat Paste)	0.476	mmhos/cm		1	07/14/23 10:53	APB	29B
pH (Sat Paste)	8.15	s.u.		1	07/14/23 10:53	APB	29B
Sulfate (Sat Paste)	0.903	meq/L	0.010	5	07/18/23 15:25	MJM	29B
Calcium (Sat Paste)	1.03	meq/L	0.050	10	07/17/23 13:29	APB	29B
Magnesium (Sat Paste)	0.637	meq/L	0.082	10	07/17/23 13:29	APB	29B
Sodium (Sat Paste)	3.16	meq/L	0.210	10	07/17/23 13:29	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55372**

Matrix: **Solids**

Sample ID : **SE-SB15 (2-4')**

Sampled: **6/16/2023 10:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	16.3	%		1	07/07/23 16:31	BXH	SW-DRYWT
% Saturation (Sat Paste)	50.7	%		1	07/14/23 10:53	APB	29B
Alkalinity (Sat Paste)	1.8	meq/L		1	07/14/23 08:00	AJA	29B
Chloride (Sat Paste)	2.29	meq/L	0.010	5	07/18/23 15:38	MJM	29B
Chloride	27.2	mg/Kg	4.00	1	07/14/23 18:45	MJM	9056
Electrical Conductivity (Sat Paste)	0.653	mmhos/cm		1	07/14/23 10:53	APB	29B
pH (Sat Paste)	7.72	s.u.		1	07/14/23 10:53	APB	29B
Sulfate (Sat Paste)	1.19	meq/L	0.010	5	07/18/23 15:38	MJM	29B
Cation Exchange Capacity	15.9	meq/100g	0.100	20	07/12/23 21:23		29B
Exchangeable Sodium Percentage	3.5	%	0.1	1	07/17/23 13:33		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	5.79	Calc	0.050	10	07/17/23 13:33		29B
Calcium (Sat Paste)	0.920	meq/L	0.050	10	07/17/23 13:33	APB	29B
Magnesium (Sat Paste)	0.511	meq/L	0.082	10	07/17/23 13:33	APB	29B
Sodium (Sat Paste)	4.90	meq/L	0.210	10	07/17/23 13:33	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

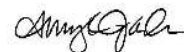
09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
Received : 06/21/2023



Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55373**

Matrix: **Solids**

Sample ID : **SE-SB15 (6-8')**

Sampled: **6/16/2023 10:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.7	%		1	07/08/23 09:07	BXH	SW-DRYWT
% Saturation (Sat Paste)	114	%		1	07/14/23 10:53	APB	29B
Alkalinity (Sat Paste)	3.5	meq/L		1	07/14/23 08:00	AJA	29B
Chloride (Sat Paste)	4.19	meq/L	0.010	5	07/18/23 15:51	MJM	29B
Chloride	71.9	mg/Kg	4.00	1	07/14/23 19:34	MJM	9056
Electrical Conductivity (Sat Paste)	1.14	mmhos/cm		1	07/14/23 10:53	APB	29B
pH (Sat Paste)	8.37	s.u.		1	07/14/23 10:53	APB	29B
Sulfate (Sat Paste)	2.75	meq/L	0.010	5	07/18/23 15:51	MJM	29B
Calcium (Sat Paste)	0.694	meq/L	0.050	10	07/17/23 13:37	APB	29B
Magnesium (Sat Paste)	0.362	meq/L	0.082	10	07/17/23 13:37	APB	29B
Sodium (Sat Paste)	10.4	meq/L	0.210	10	07/17/23 13:37	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

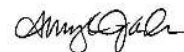
09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55374**

Matrix: **Solids**

Sample ID : **SE-SB15 (10-12')**

Sampled: **6/16/2023 10:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	22.3	%		1	07/08/23 09:07	BXH	SW-DRYWT
% Saturation (Sat Paste)	64.4	%		1	07/14/23 10:53	APB	29B
Alkalinity (Sat Paste)	2.1	meq/L		1	07/14/23 08:00	AJA	29B
Chloride (Sat Paste)	6.91	meq/L	0.010	5	07/18/23 16:04	MJM	29B
Chloride	103	mg/Kg	4.00	1	07/14/23 19:47	MJM	9056
Electrical Conductivity (Sat Paste)	1.08	mmhos/cm		1	07/14/23 10:53	APB	29B
pH (Sat Paste)	7.94	s.u.		1	07/14/23 10:53	APB	29B
Sulfate (Sat Paste)	0.865	meq/L	0.010	5	07/18/23 16:04	MJM	29B
Calcium (Sat Paste)	0.874	meq/L	0.050	10	07/17/23 13:41	APB	29B
Magnesium (Sat Paste)	0.480	meq/L	0.082	10	07/17/23 13:41	APB	29B
Sodium (Sat Paste)	9.02	meq/L	0.210	10	07/17/23 13:41	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

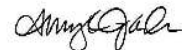
09996

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Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55375**

Matrix: **Solids**

Sample ID : **SE-SB15 (14-16')**

Sampled: **6/16/2023 10:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	20.9	%		1	07/08/23 09:07	BXH	SW-DRYWT
% Saturation (Sat Paste)	76.6	%		1	07/14/23 10:53	APB	29B
Alkalinity (Sat Paste)	2.2	meq/L		1	07/14/23 08:00	AJA	29B
Chloride (Sat Paste)	2.40	meq/L	0.010	5	07/18/23 16:16	MJM	29B
Chloride	35.2	mg/Kg	4.00	1	07/14/23 19:59	MJM	9056
Electrical Conductivity (Sat Paste)	0.555	mmhos/cm		1	07/14/23 10:53	APB	29B
pH (Sat Paste)	8.10	s.u.		1	07/14/23 10:53	APB	29B
Sulfate (Sat Paste)	0.424	meq/L	0.010	5	07/18/23 16:16	MJM	29B
Calcium (Sat Paste)	0.804	meq/L	0.050	10	07/17/23 13:45	APB	29B
Magnesium (Sat Paste)	0.459	meq/L	0.082	10	07/17/23 13:45	APB	29B
Sodium (Sat Paste)	4.04	meq/L	0.210	10	07/17/23 13:45	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

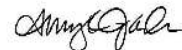
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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55376**

Matrix: **Solids**

Sample ID : **SE-SB15 (18-20')**

Sampled: **6/16/2023 10:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	25.8	%		1	07/08/23 09:07	BXH	SW-DRYWT
% Saturation (Sat Paste)	141	%		1	07/14/23 10:53	APB	29B
Alkalinity (Sat Paste)	3.3	meq/L		1	07/14/23 08:00	AJA	29B
Chloride (Sat Paste)	1.37	meq/L	0.010	5	07/18/23 16:29	MJM	29B
Chloride	33.9	mg/Kg	4.00	1	07/14/23 20:36	MJM	9056
Electrical Conductivity (Sat Paste)	0.454	mmhos/cm		1	07/14/23 10:53	APB	29B
pH (Sat Paste)	7.95	s.u.		1	07/14/23 10:53	APB	29B
Sulfate (Sat Paste)	0.208	meq/L	0.010	5	07/18/23 16:29	MJM	29B
Calcium (Sat Paste)	0.995	meq/L	0.050	10	07/17/23 13:49	APB	29B
Magnesium (Sat Paste)	0.571	meq/L	0.082	10	07/17/23 13:49	APB	29B
Sodium (Sat Paste)	3.08	meq/L	0.210	10	07/17/23 13:49	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

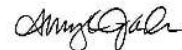
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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55377**

Matrix: **Solids**

Sample ID : **SE-SB16 (2-4')**

Sampled: **6/16/2023 11:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.8	%		1	07/08/23 09:07	BXH	SW-DRYWT
% Saturation (Sat Paste)	77.3	%		1	07/14/23 10:53	APB	29B
Alkalinity (Sat Paste)	2.1	meq/L		1	07/14/23 08:00	AJA	29B
Chloride (Sat Paste)	13.2	meq/L	0.010	5	07/18/23 16:42	MJM	29B
Chloride	242	mg/Kg	4.00	1	07/14/23 20:48	MJM	9056
Electrical Conductivity (Sat Paste)	1.78	mmhos/cm		1	07/14/23 10:53	APB	29B
pH (Sat Paste)	7.91	s.u.		1	07/14/23 10:53	APB	29B
Sulfate (Sat Paste)	0.465	meq/L	0.010	5	07/18/23 16:42	MJM	29B
Cation Exchange Capacity	27.6	meq/100g	0.100	20	07/12/23 21:27		29B
Exchangeable Sodium Percentage	2.1	%	0.1	1	07/17/23 13:53		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	4.16	Calc	0.050	10	07/17/23 13:53		29B
Calcium (Sat Paste)	5.25	meq/L	0.050	10	07/17/23 13:53	APB	29B
Magnesium (Sat Paste)	2.83	meq/L	0.082	10	07/17/23 13:53	APB	29B
Sodium (Sat Paste)	8.37	meq/L	0.210	10	07/17/23 13:53	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55378**

Matrix: **Solids**

Sample ID : **SE-SB16 (6-8')**

Sampled: **6/16/2023 11:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.9	%		1	07/08/23 09:07	BXH	SW-DRYWT
% Saturation (Sat Paste)	77.8	%		1	07/14/23 10:53	APB	29B
Alkalinity (Sat Paste)	1.6	meq/L		1	07/14/23 08:00	AJA	29B
Chloride (Sat Paste)	6.83	meq/L	0.010	5	07/18/23 16:55	MJM	29B
Chloride	119	mg/Kg	4.00	1	07/14/23 21:01	MJM	9056
Electrical Conductivity (Sat Paste)	0.952	mmhos/cm		1	07/14/23 10:53	APB	29B
pH (Sat Paste)	7.81	s.u.		1	07/14/23 10:53	APB	29B
Sulfate (Sat Paste)	0.410	meq/L	0.010	5	07/18/23 16:55	MJM	29B
Calcium (Sat Paste)	1.62	meq/L	0.050	10	07/17/23 14:06	APB	29B
Magnesium (Sat Paste)	0.809	meq/L	0.082	10	07/17/23 14:06	APB	29B
Sodium (Sat Paste)	6.32	meq/L	0.210	10	07/17/23 14:06	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

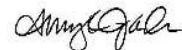
09996

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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
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Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55379**

Matrix: **Solids**

Sample ID : **SE-SB16 (10-12')**

Sampled: **6/16/2023 11:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	20.1	%		1	07/08/23 09:07	BXH	SW-DRYWT
% Saturation (Sat Paste)	48.2	%		1	07/14/23 10:53	APB	29B
Alkalinity (Sat Paste)	1.6	meq/L		1	07/14/23 08:00	AJA	29B
Chloride (Sat Paste)	13.1	meq/L	0.010	5	07/18/23 17:54	MJM	29B
Chloride	200	mg/Kg	4.00	1	07/14/23 21:13	MJM	9056
Electrical Conductivity (Sat Paste)	1.67	mmhos/cm		1	07/14/23 10:53	APB	29B
pH (Sat Paste)	7.72	s.u.		1	07/14/23 10:53	APB	29B
Sulfate (Sat Paste)	0.244	meq/L	0.010	5	07/18/23 17:54	MJM	29B
Calcium (Sat Paste)	4.94	meq/L	0.050	10	07/17/23 14:10	APB	29B
Magnesium (Sat Paste)	2.36	meq/L	0.082	10	07/17/23 14:10	APB	29B
Sodium (Sat Paste)	7.81	meq/L	0.210	10	07/17/23 14:10	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

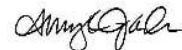
09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
Received : 06/21/2023



Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55380**

Matrix: **Solids**

Sample ID : **SE-SB16 (14-16')**

Sampled: **6/16/2023 11:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	22.2	%		1	07/08/23 09:07	BXH	SW-DRYWT
% Saturation (Sat Paste)	148	%		1	07/14/23 10:30	APB	29B
Alkalinity (Sat Paste)	2.4	meq/L		1	07/14/23 10:51	AJA	29B
Chloride (Sat Paste)	1.22	meq/L	0.010	5	07/18/23 18:07	MJM	29B
Chloride	23.2	mg/Kg	4.00	1	07/14/23 21:25	MJM	9056
Electrical Conductivity (Sat Paste)	0.399	mmhos/cm		1	07/14/23 10:30	APB	29B
pH (Sat Paste)	8.26	s.u.		1	07/14/23 10:30	APB	29B
Sulfate (Sat Paste)	0.268	meq/L	0.010	5	07/18/23 18:07	MJM	29B
Calcium (Sat Paste)	0.913	meq/L	0.025	5	07/17/23 14:14	APB	29B
Magnesium (Sat Paste)	0.445	meq/L	0.041	5	07/17/23 14:14	APB	29B
Sodium (Sat Paste)	2.77	meq/L	0.105	5	07/17/23 14:14	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

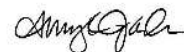
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Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
Received : 06/21/2023



Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55381**

Matrix: **Solids**

Sample ID : **SE-SB01 (34-36')**

Sampled: **6/16/2023 13:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	20.6	%		1	07/08/23 09:07	BXH	SW-DRYWT
% Saturation (Sat Paste)	39.0	%		1	07/14/23 10:30	APB	29B
Alkalinity (Sat Paste)	1.2	meq/L		1	07/14/23 10:51	AJA	29B
Chloride (Sat Paste)	278	meq/L	0.056	200	07/18/23 18:20	MJM	29B
Chloride	4310	mg/Kg	40.0	10	07/14/23 22:15	MJM	9056
Electrical Conductivity (Sat Paste)	26.1	mmhos/cm		1	07/14/23 10:30	APB	29B
pH (Sat Paste)	7.53	s.u.		1	07/14/23 10:30	APB	29B
Sulfate (Sat Paste)	0.604	meq/L	0.041	200	07/18/23 18:20	MJM	29B
Calcium (Sat Paste)	53.1	meq/L	1.00	200	07/17/23 14:18	APB	29B
Magnesium (Sat Paste)	22.1	meq/L	1.64	200	07/17/23 14:18	APB	29B
Sodium (Sat Paste)	201	meq/L	4.20	200	07/17/23 14:18	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

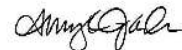
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
Received : 06/21/2023



Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55382**

Matrix: **Solids**

Sample ID : **SE-SB01 (38-40')**

Sampled: **6/16/2023 13:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	23.6	%		1	07/08/23 09:07	BXH	SW-DRYWT
% Saturation (Sat Paste)	51.1	%		1	07/14/23 10:30	APB	29B
Alkalinity (Sat Paste)	1.3	meq/L		1	07/14/23 10:51	AJA	29B
Chloride (Sat Paste)	108	meq/L	0.014	50	07/18/23 18:33	MJM	29B
Chloride	1570	mg/Kg	20.0	5	07/14/23 22:27	MJM	9056
Electrical Conductivity (Sat Paste)	10.8	mmhos/cm		1	07/14/23 10:30	APB	29B
pH (Sat Paste)	7.77	s.u.		1	07/14/23 10:30	APB	29B
Sulfate (Sat Paste)	1.54	meq/L	0.010	50	07/18/23 18:33	MJM	29B
Calcium (Sat Paste)	45.7	meq/L	0.100	20	07/17/23 14:22	APB	29B
Magnesium (Sat Paste)	22.0	meq/L	0.164	20	07/17/23 14:22	APB	29B
Sodium (Sat Paste)	40.4	meq/L	0.420	20	07/17/23 14:22	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

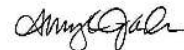
09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
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Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
Received : 06/21/2023



Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55383**

Matrix: **Solids**

Sample ID : **SE-SB01 (42-44')**

Sampled: **6/16/2023 14:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	33.7	%		1	07/08/23 09:42	BXH	SW-DRYWT
% Saturation (Sat Paste)	52.3	%		1	07/14/23 10:30	APB	29B
Alkalinity (Sat Paste)	2.0	meq/L		1	07/14/23 10:51	AJA	29B
Chloride (Sat Paste)	56.1	meq/L	0.014	50	07/18/23 18:46	MJM	29B
Chloride	609	mg/Kg	20.0	5	07/14/23 22:40	MJM	9056
Electrical Conductivity (Sat Paste)	6.11	mmhos/cm		1	07/14/23 10:30	APB	29B
pH (Sat Paste)	8.01	s.u.		1	07/14/23 10:30	APB	29B
Sulfate (Sat Paste)	4.07	meq/L	0.010	50	07/18/23 18:46	MJM	29B
Calcium (Sat Paste)	26.6	meq/L	0.100	20	07/17/23 14:26	APB	29B
Magnesium (Sat Paste)	13.9	meq/L	0.164	20	07/17/23 14:26	APB	29B
Sodium (Sat Paste)	19.2	meq/L	0.420	20	07/17/23 14:26	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
Received : 06/21/2023



Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **55384**

Matrix: **Solids**

Sample ID : **SE-SB01 (44-46')**

Sampled: **6/16/2023 14:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	31.4	%		1	07/08/23 09:42	BXH	SW-DRYWT
% Saturation (Sat Paste)	70.4	%		1	07/14/23 10:30	APB	29B
Alkalinity (Sat Paste)	3.6	meq/L		1	07/14/23 10:51	AJA	29B
Chloride (Sat Paste)	45.0	meq/L	0.010	20	07/18/23 18:58	MJM	29B
Chloride	713	mg/Kg	8.00	2	07/14/23 22:52	MJM	9056
Electrical Conductivity (Sat Paste)	5.09	mmhos/cm		1	07/14/23 10:30	APB	29B
pH (Sat Paste)	8.03	s.u.		1	07/14/23 10:30	APB	29B
Sulfate (Sat Paste)	1.84	meq/L	0.010	20	07/18/23 18:58	MJM	29B
Calcium (Sat Paste)	21.5	meq/L	0.100	20	07/17/23 14:30	APB	29B
Magnesium (Sat Paste)	9.97	meq/L	0.164	20	07/17/23 14:30	APB	29B
Sodium (Sat Paste)	16.5	meq/L	0.420	20	07/17/23 14:30	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
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Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
Received : 06/21/2023



Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **57579**

Matrix: **TCLP**

Sample ID : **SE-SB01 (34-36')**

Sampled: **6/16/2023 13:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
SPLP Extraction	Leachate			1	07/25/23 13:00	ALM	1312
SPLP Chloride	204	mg/L	1.60	10	08/07/23 10:57	NFP	9056
SPLP Sodium	125	mg/L	2.78	5	07/27/23 15:12	JTR	6010D

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastel

Information : Project Number: 1705.A37
Morse, La

Report Date : 08/08/2023
Received : 06/21/2023



Report Number : **23-172-0018**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **57580**

Matrix: **TCLP**

Sample ID : **SE-SB01 (44-46')**

Sampled: **6/16/2023 14:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
SPLP Extraction	Leachate			1	07/25/23 13:00	ALM	1312
SPLP Chloride	32.4	mg/L	1.60	10	08/07/23 11:10	NFP	9056
SPLP Sodium	36.9	mg/L	0.556	1	07/26/23 23:38	JTR	6010D

Qualifiers/ Definitions

DF Dilution Factor

MQL Method Quantitation Limit

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-172-0018

QC Prep:	A83953	QC Analytical Batch(es):	A84113
QC Prep Batch Method:	LA 29B CEC (PREP)	Analysis Method:	29B
		Analysis Description:	Cation Exchange Capacity

Lab Reagent Blank LRB-A83953 Matrix: SOL
Associated Lab Samples: 55340, 55357, 55362, 55367, 55372, 55377

Parameter	Units	Blank Result	MQL	Analyzed
Total Sodium CEC	mg/Kg	< 100	100	07/12/23 20:50

Duplicate A 55357-A83689-DUP-A83953

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Sodium CEC	mg/Kg	5220	5600	7.0	30.0	07/12/23 21:02

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-172-0018

QC Prep: A83954

QC Prep Batch Method: 29B

QC Analytical Batch(es): A84114

Analysis Method: 29B

Analysis Description: Exchangeable Sodium Percentage

Duplicate A 55357-A83689-DUP-A83954

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Sodium ESP	meq/100g	3.97	3.89	2.0	30.0	07/12/23 21:51

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-172-0018

QC Prep: A83888

QC Prep Batch Method: 29B

QC Analytical Batch(es): A84115,A84170,A84116,A84187

Analysis Method: 29B

Analysis Description: Alkalinity

Duplicate A 55358-A83689-DUP-A83888

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Alkalinity (Sat Paste)	meq/L	0.8	0.8	0.0	30.0	07/13/23 16:12

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-172-0018

QC Prep:	A83889	QC Analytical Batch(es):	A84180,A84210,A84182,A84232
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Alkalinity

Duplicate A 55368-A83692-DUP-A83889

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Alkalinity (Sat Paste)	meq/L	2.0	2.2	9.5	30.0	07/14/23 08:00

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-172-0018

QC Prep:	A84158	QC Analytical Batch(es):	A84181,A84211,A84183,A84232
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Alkalinity

Duplicate A 55799-A84044-DUP-A84158

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Alkalinity (Sat Paste)	meq/L	1.9	1.9	0.0	30.0	07/14/23 10:51

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-172-0018

QC Prep:	A83888	QC Analytical Batch(es):	A84115,A84170,A84116,A84187
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Anions by Ion Chromatography

Duplicate A 55358-A83689-DUP-A83888

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Chloride (Sat Paste)	meq/L	12.6	13.2	4.6	30.0	07/14/23 20:39
Sulfate (Sat Paste)	meq/L	1.24	1.31	5.4	30.0	07/14/23 20:39

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-172-0018

QC Prep:	A83889	QC Analytical Batch(es):	A84180,A84210,A84182,A84232
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Anions by Ion Chromatography

Duplicate A 55368-A83692-DUP-A83889

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Chloride (Sat Paste)	meq/L	5.79	6.25	7.6	30.0	07/18/23 14:08
Sulfate (Sat Paste)	meq/L	0.419	0.451	7.3	30.0	07/18/23 14:08

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-172-0018

QC Prep:	A84158	QC Analytical Batch(es):	A84181,A84211,A84183,A84232
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Anions by Ion Chromatography

Duplicate A 55799-A84044-DUP-A84158

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Chloride (Sat Paste)	meq/L	42.3	41.2	2.6	30.0	07/18/23 19:37
Sulfate (Sat Paste)	meq/L	5.41	5.23	3.3	30.0	07/18/23 19:37

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-172-0018

QC Prep: A83888
QC Prep Batch Method: 29B
QC Analytical Batch(es): A84115,A84170,A84116,A84187
Analysis Method: 29B
Analysis Description: Saturated Paste Extraction

Duplicate A 55358-A83689-DUP-A83888

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Saturation (Sat Paste)	%	62.6	62.8	0.3	30.0	07/12/23 12:00
Electrical Conductivity (Sat Paste)	nmhos/cm	1.66	1.75	5.2	30.0	07/12/23 12:00
pH (Sat Paste)	s.u.	7.39	7.39	0.0	30.0	07/12/23 12:00

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-172-0018

QC Prep:	A83889	QC Analytical Batch(es):	A84180,A84210,A84182,A84232
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 55368-A83692-DUP-A83889

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Saturation (Sat Paste)	%	93.1	102	9.1	30.0	07/14/23 10:53
Electrical Conductivity (Sat Paste)	nmhos/cm	0.895	0.979	8.9	30.0	07/14/23 10:53
pH (Sat Paste)	s.u.	8.03	8.14	1.3	30.0	07/14/23 10:53

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-172-0018

QC Prep: A84158
QC Prep Batch Method: 29B
QC Analytical Batch(es): A84181,A84211,A84183,A84232
Analysis Method: 29B
Analysis Description: Saturated Paste Extraction

Duplicate A 55799-A84044-DUP-A84158

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Saturation (Sat Paste)	%	134	135	0.7	30.0	07/14/23 10:30
Electrical Conductivity (Sat Paste)	nmhos/cm	5.29	5.13	3.0	30.0	07/14/23 10:30
pH (Sat Paste)	s.u.	8.21	8.23	0.2	30.0	07/14/23 10:30

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-172-0018

QC Prep:	A83888	QC Analytical Batch(es):	A84115,A84170,A84116,A84187
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 55358-A83689-DUP-A83888

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Calcium (Sat Paste)	meq/L	0.786	0.861	9.1	30.0	07/13/23 19:39
Magnesium (Sat Paste)	meq/L	0.556	0.598	7.2	30.0	07/13/23 19:39
Sodium (Sat Paste)	meq/L	12.9	13.5	4.5	30.0	07/13/23 19:39

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-172-0018

QC Prep:	A83889	QC Analytical Batch(es):	A84180,A84210,A84182,A84232
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 55368-A83692-DUP-A83889

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Calcium (Sat Paste)	meq/L	1.91	2.12	10.4	30.0	07/17/23 13:17
Magnesium (Sat Paste)	meq/L	1.06	1.20	12.3	30.0	07/17/23 13:17
Sodium (Sat Paste)	meq/L	5.38	5.88	8.8	30.0	07/17/23 13:17

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-172-0018

QC Prep:	A84158	QC Analytical Batch(es):	A84181,A84211,A84183,A84232
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 55799-A84044-DUP-A84158

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Calcium (Sat Paste)	meq/L	1.28	1.12	13.3	30.0	07/17/23 14:43
Magnesium (Sat Paste)	meq/L	2.54	2.44	4.0	30.0	07/17/23 14:43
Sodium (Sat Paste)	meq/L	45.8	44.1	3.7	30.0	07/17/23 14:43

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-172-0018

QC Prep: L694994 **QC Analytical Batch(es):** L695276,L695393
QC Prep Batch Method: 3015A **Analysis Method:** 6010D
Analysis Description: Metals Analysis (SPLP)

Lab Reagent Blank LRB-L694994 Matrix: TCL
Associated Lab Samples: 57579, 57580

Parameter	Units	Blank Result	MQL	Analyzed
SPLP Sodium	mg/L	< 0.500	0.500	07/26/23 22:34

Laboratory Control Sample LCS-L694994

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
SPLP Sodium	mg/L	10.0	9.40	94.0	80-120

Matrix Spike & Matrix Spike Duplicate L 82355-MS-L694994 L 82355-MSD-L694994

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
SPLP Sodium	mg/L	1380	500	500	1870	1890	98.0	102	75-125	1.0	20.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-172-0018

QC Prep:	A83585	QC Analytical Batch(es):	A83969
QC Prep Batch Method:	SW-9056 (PREP)	Analysis Method:	9056
		Analysis Description:	Anions by Ion Chromatography

Lab Reagent Blank LRB-A83585 Matrix: SOL
Associated Lab Samples: 55340, 55341, 55342, 55343, 55344, 55345, 55346, 55347, 55348, 55349, 55350, 55351, 55352, 55353, 55354

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/Kg	< 4.00	4.00	07/12/23 19:48

Laboratory Control Sample LCS-A83585

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Chloride	mg/Kg	500	501	100	80-120

Matrix Spike & Matrix Spike Duplicate A 55342-MS-A83585 A 55342-MSD-A83585

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Chloride	mg/Kg	229	480	472	728	728	104	106	80-120	0.0	15.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-172-0018

QC Prep: A83586 **QC Analytical Batch(es):** A83970
QC Prep Batch Method: SW-9056 (PREP) **Analysis Method:** 9056
Analysis Description: Anions by Ion Chromatography

Lab Reagent Blank LRB-A83586 Matrix: SOL
Associated Lab Samples: 55355, 55356, 55357, 55358, 55359, 55360, 55361, 55362, 55363, 55364, 55365, 55366, 55367, 55368, 55369, 55370, 55371, 55372, 55373, 55374

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/Kg	< 4.00	4.00	07/14/23 13:12

Laboratory Control Sample LCS-A83586

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Chloride	mg/Kg	500	519	104	80-120

Matrix Spike & Matrix Spike Duplicate A 55358-MS-A83586 A 55358-MSD-A83586

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Chloride	mg/Kg	254	469	474	741	730	104	100	80-120	1.4	15.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-172-0018

QC Prep:	A83587	QC Analytical Batch(es):	A83971
QC Prep Batch Method:	SW-9056 (PREP)	Analysis Method:	9056
		Analysis Description:	Anions by Ion Chromatography

Lab Reagent Blank LRB-A83587 Matrix: SOL
Associated Lab Samples: 55375, 55376, 55377, 55378, 55379, 55380, 55381, 55382, 55383, 55384

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/Kg	< 4.00	4.00	07/14/23 13:49

Laboratory Control Sample LCS-A83587

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Chloride	mg/Kg	500	520	104	80-120

Matrix Spike & Matrix Spike Duplicate A 55375-MS-A83587 A 55375-MSD-A83587

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Chloride	mg/Kg	35.2	474	466	539	543	106	109	80-120	0.7	15.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-172-0018

QC Prep:	L695372	QC Analytical Batch(es):	L697048
QC Prep Batch Method:	SW-9056A (PREP)	Analysis Method:	9056
		Analysis Description:	Anions by Ion Chromatography (SPLP)

Lab Reagent Blank LRB-L695372 Matrix: TCL
Associated Lab Samples: 57579, 57580

Parameter	Units	Blank Result	MQL	Analyzed
SPLP Chloride	mg/L	< 0.400	0.400	08/07/23 07:58

Laboratory Control Sample LCS-L695372

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
SPLP Chloride	mg/L	50.0	50.5	101	90-110

Matrix Spike & Matrix Spike Duplicate A 57452-MS-L695372 A 57452-MSD-L695372

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
SPLP Chloride	mg/L	255	263	263	558	531	115	105	80-120	4.9	15.0



Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastel
Report No: 23-172-0018

QC Analytical Batch: A83871
Analysis Method: SW-DRYWT
Analysis Description: Dry Weight Determination

Duplicate A 55257-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	41.0	43.2	5.2	20.0	07/05/23 11:02

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-172-0018

QC Analytical Batch: A83926

Analysis Method: SW-DRYWT

Analysis Description: Dry Weight Determination

Duplicate A 55353-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	21.3	21.4	0.4	20.0	07/07/23 15:58

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-172-0018

QC Analytical Batch: A83927

Analysis Method: SW-DRYWT

Analysis Description: Dry Weight Determination

Duplicate A 55363-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	15.9	16.5	3.7	20.0	07/07/23 16:31

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-172-0018

QC Analytical Batch: A83928

Analysis Method: SW-DRYWT

Analysis Description: Dry Weight Determination

Duplicate A 55373-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	18.7	18.8	0.5	20.0	07/08/23 09:07

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-172-0018

QC Analytical Batch: A83978

Analysis Method: SW-DRYWT

Analysis Description: Dry Weight Determination

Duplicate A 55343-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	23.1	23.0	0.4	20.0	07/07/23 15:31

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastel

Report No: 23-172-0018

QC Analytical Batch: A83988

Analysis Method: SW-DRYWT

Analysis Description: Dry Weight Determination

Duplicate A 55383-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	33.7	34.5	2.3	20.0	07/08/23 09:42

Shipment Receipt Form

Customer Number: **09996**

Customer Name: **Hydro-Environmental Technology, Inc.**

Report Number: **23-172-0018**

Shipping Method

☐ Fed Ex	☐ US Postal	☒ Lab	☐ Other :	
☐ UPS	☐ Client	☐ Courier	Thermometer ID:	IR 1

Shipping container/cooler uncompromised?	☒ Yes	☐ No
Number of coolers/boxes received	1	
Custody seals intact on shipping container/cooler?	☐ Yes	☐ No ☒ Not Present
Custody seals intact on sample bottles?	☐ Yes	☐ No ☒ Not Present
Chain of Custody (COC) present?	☒ Yes	☐ No
COC agrees with sample label(s)?	☒ Yes	☐ No
COC properly completed	☒ Yes	☐ No
Samples in proper containers?	☒ Yes	☐ No
Sample containers intact?	☒ Yes	☐ No
Sufficient sample volume for indicated test(s)?	☒ Yes	☐ No
All samples received within holding time?	☒ Yes	☐ No
Cooler temperature in compliance?	☒ Yes	☐ No
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	☒ Yes	☐ No
Water - Sample containers properly preserved	☐ Yes	☐ No ☒ N/A
Water - VOA vials free of headspace	☐ Yes	☐ No ☒ N/A
Trip Blanks received with VOAs	☐ Yes	☐ No ☒ N/A
Soil VOA method 5035 – compliance criteria met	☐ Yes	☐ No ☒ N/A
☐ High concentration container (48 hr)	☐ Low concentration EnCore samplers (48 hr)	
☐ High concentration pre-weighed (methanol -14 d)	☐ Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	☐ Yes	☒ No

Comments:

Signature:

Christina R. Varuso

Date & Time:

06/22/2023 08:29:09



HYDRO-ENVIRONMENTAL TEC
Environmental Cons
P.O. Box 6029!
Lafayette, LA 70596
Phone (337) 261-1963 FAX (



Hydro-Environmental Technology, Inc.
Gastel

23-172-0018
09996
06-21-2023
14:25:24

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: EM
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 6/15/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB10 (2-4') 55340	SO	6/15/2023 8:35	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB10 (6-8') 55341	SO	6/15/2023 8:40	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB10 (10-12') 55342	SO	6/15/2023 8:45	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB10 (14-16') 55343	SO	6/15/2023 8:55	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB10 (18-20') 55344	SO	6/15/2023 9:00	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB10 (22-24') 55345	SO	6/15/2023 9:05	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB10 (26-28') 55346	SO	6/15/2023 9:15	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB10 (30-32') 55347	SO	6/15/2023 9:20	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: Eric Montenegro Received By: P. Howard
Date/Time: 6/21/23 810 Date/Time: 6/21/23 810
Relinquished By: P. Howard Received By: Kathy Hendrix Relinquished By: Kathy Hendrix
Date/Time: 6/21/23 9:55 Date/Time: 06/21/23 0950 Date/Time: 06/21/23 1257
Analysis Due: Verbal:
Written:

Rec'd By: [Signature] 6/21/23 1257 Relinquished By: [Signature] 6/21/23 1451
Page 79 of 84 Page 1 of 6



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
Environmental Consultants
P.O. Box 60295
Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel **Laboratory:** Waypoint
Project Number: 1705.A37 **Collected By:** EM
Project Location: Morse, La **Company:** Hydro-Environmental Technology, Inc.
Date: 6/15/2023

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
SE-SB10 (34-36') 55348	SO	6/15/2023	9:30	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB10 (36-38') 55349	SO	6/15/2023	9:35	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB10 (38-40') 55350	SO	6/15/2023	9:38	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB11 (2-4') -	SO	6/15/2023	10:55	No Split	No Split	N/A
SE-SB11 (6-8') 55351	SO	6/15/2023	11:00	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB11 (10-12') 55352	SO	6/15/2023	11:05	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB11 (14-16') 55353	SO	6/15/2023	11:10	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB11 (18-20') 55354	SO	6/15/2023	11:15	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: Eric Montesano
Date/Time: 6/21/23 810

Received By: P. Howard
Date/Time: 6/21/23 810

Relinquished By: P. Howard
Date/Time: 6/21/23 9155

Received By: Kathy Hendrix | Relinquished By: Kathy Hendrix
Date/Time: 6/21/23 0956 | 06/21/23 1251

Analysis Due: Verbal:

Written:

Rec'd By: [Signature] 6/21/23 1251
 Rec'd By: [Signature] 6/21/23 1751
 Relinquished By: [Signature] 6/21/23 1451
 Page 80 of 84



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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: EM
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 6/15/2023

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
SE-SB11 (22-24') 55355	SO	6/15/2023	11:20	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB11 (26-28') 55356	SO	6/15/2023	11:30	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB12 (2-4') 55357	SO	6/15/2023	13:15	8 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB12 (6-8') 55358	SO	6/15/2023	13:20	8 oz	EC, SAR, ESP, CEC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB12 (10-12') 55359	SO	6/15/2023	13:25	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB12 (14-16') 55360	SO	6/15/2023	13:35	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB12 (18-20') 55361	SO	6/15/2023	13:40	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB13 (2-4') 55362	SO	6/15/2023	14:30	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: <u>Eric Montano</u>	Received By: <u>P. Hannon</u>
Date/Time: <u>6/21/23 8:10</u>	Date/Time: <u>6/21/23 8:10</u>
Relinquished By: <u>P. Hannon</u>	Received By: <u>Kathy Hendrix</u>
Date/Time: <u>6/21/23 9:55</u>	Date/Time: <u>06/21/23 09:50</u>
	Relinquished By: <u>Kathy Hendrix</u>
	Date/Time: <u>06/21/23 12:51</u>

Analysis Due: Verbal: _____ Written: _____

Rec'd By: [Signature] 6/21/23 12:51
Relinquished By: [Signature] 6/21/23 14:51
Rec'd By: [Signature] 6/21/23 14:51
Relinquished By: [Signature] 6/21/23 14:51



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Lafayette, LA 70596-0295
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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: EM
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 6/15/2023

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
SE-SB13 (6-8') 55363	SO	6/15/2023	14:35	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB13 (10-12') 55364	SO	6/15/2023	14:40	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB13 (14-16') 55365	SO	6/15/2023	14:45	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB13 (18-20') 55366	SO	6/15/2023	14:50	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB14 (2-4') 55367	SO	6/16/2023	8:30	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB14 (6-8') 55368	SO	6/16/2023	8:35	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB14 (10-12') 55369	SO	6/16/2023	8:40	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB14 (14-16') 55370	SO	6/16/2023	8:50	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: Eric Meekins
Date/Time: 6/21/23 810

Received By: P. Howard
Date/Time: 6/21/23 810

Relinquished By: P. Howard
Date/Time: 6/21/23 9155

Received By: Kathy Hendrix
Date/Time: 06/21/23 0956

Relinquished By: Kathy Hendrix
Date/Time: 06/21/23 1251

Analysis Due: Verbal:

Written:

Rec'd By: [Signature] 6/21/23 1251 Relinquished By: [Signature] 6/21/23 1451
Rec'd By: [Signature] 6/21/23 1451



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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: EM
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 6/15/2023

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
SE-SB14 (18-20') <i>55371</i>	SO	6/16/2023	9:00	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB15 (2-4') <i>55372</i>	SO	6/16/2023	10:10	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB15 (6-8') <i>55373</i>	SO	6/16/2023	10:15	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB15 (10-12') <i>55374</i>	SO	6/16/2023	10:20	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB15 (14-16') <i>55375</i>	SO	6/16/2023	10:25	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB15 (18-20') <i>55376</i>	SO	6/16/2023	10:35	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB16 (2-4') <i>55377</i>	SO	6/16/2023	11:10	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB16 (6-8') <i>55378</i>	SO	6/16/2023	11:15	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: <i>Eric Montecano</i>	Received By: <i>P. Howard</i>
Date/Time: <i>6/21/23 810</i>	Date/Time: <i>6/21/23 810</i>
Relinquished By: <i>P. Howard</i>	Received By: <i>Kathy Hendrix</i>
Date/Time: <i>6/21/23 9155</i>	Date/Time: <i>06/21/23 0952</i>
	Relinquished By: <i>Kathy Hendrix</i>
	Date/Time: <i>06/21/23 1257</i>

Analysis Due: Verbal: _____ Written: _____

Rec'd By: [Signature] 6/21/23 1251 *Rel: [Signature] 6/21/23 1451*
Rec'd By: [Signature] 6/21/23 1451



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
Environmental Consultants
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Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: EM
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 6/15/2023

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
SE-SB16 (10-12') 55379	SO	6/16/2023	11:25	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB16 (14-16') 55380	SO	6/16/2023	11:30	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (34-36') 55381	SO	6/16/2023	13:30	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (38-40') 55382	SO	6/16/2023	13:35	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (40-42') -	SO	6/16/2023	14:00	No Split	N/A	4°C
SE-SB01 (42-44') 55383	SO	6/16/2023	14:05	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB01 (44-46') 55384	SO	6/16/2023	14:15	8 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: E. Montero
Date/Time: 6/21/23 8:10

Received By: P. Howard
Date/Time: 6/21/23 8:10

Relinquished By: P. Howard
Date/Time: 6/21/23 9:55

Received By: Kathy Hendrix | Relinquished By: Kathy Hendrix
Date/Time: 6/21/23 07:56 | 12:51

Analysis Due: Verbal:

Written:

Rec'd By: [Signature] 6/21/23 12:51

Relinquished By: [Signature] 6/21/23 14:51

Rec'd By: [Signature] 6/21/23 14:51

9/27/2023

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA, 70583

Ref: Report Number: 23-251-0045
Project Description: Gastal
Project Number: 1705.A37
Morse, La

Dear Mr. Stewart Stover, Jr.:

Waypoint Analytical Louisiana, Inc. received sample(s) on 9/8/2023 for the analyses presented in the following report. The above referenced project has been analyzed per your instructions. Unless otherwise noted, the analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance. Analyses reported which indicate "Field" for these parameters were analyzed by the client in the field. Results for solid samples are reported on an as received or "wet weight" basis unless otherwise specified.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

All quality control measures undertaken in accordance with Waypoint Analytical Louisiana, Inc. CompQAP990807A and revisions under the terms of the Louisiana Environmental Laboratory Accreditation Program (Certificate #02041) are within acceptance ranges established in that document with the exception of the items indicated and/or discussed in a Case Narrative.

The results are shown on the attached analysis sheet(s). Be aware that the time analyzed for certain samples (e.g. - BOD, CBOD, etc.) refer to the time the sample batch was begun and not necessarily to the time an individual sample was begun. Thank you for allowing Waypoint Analytical Louisiana, Inc. to serve you. Should I be of further assistance, if you have any questions or need additional information please contact me or client services.

Sincerely,



Amy Jackson
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis. This report may be reproduced in full only with the written permission of the laboratory and/or the entity to which it is addressed. Results contained herein relate only to the sample(s) submitted to the laboratory.



Certification Summary

Laboratory ID: WP MLA: Waypoint Analytical Louisiana, Inc., Marrero, LA

State	Program	Lab ID	Expiration Date
Georgia	State Program	02041	06/30/2024
Louisiana	State Program - NELAP	02041	06/30/2024

Sample Summary Table

Report Number: 23-251-0045
Client Project Description: Gastal
Project Number: 1705.A37
Morse, La

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
61789	SE-SB10 (0-2')	Solids	09/05/2023 16:00	09/08/2023
61790	SE-SB11 (0-2')	Solids	09/05/2023 15:55	09/08/2023
61791	SE-SB12 (0-2')	Solids	09/05/2023 15:50	09/08/2023
61792	SE-SB13 (0-2')	Solids	09/05/2023 16:10	09/08/2023
61793	SE-SB14 (0-2')	Solids	09/05/2023 16:05	09/08/2023
61794	SE-SB19 (0-2')	Solids	09/06/2023 11:20	09/08/2023
61795	SE-SB19 (2-4')	Solids	09/06/2023 11:22	09/08/2023
61796	SE-SB19 (6-8')	Solids	09/06/2023 11:30	09/08/2023
61797	SE-SB19 (10-12')	Solids	09/06/2023 11:40	09/08/2023
61798	SE-SB19 (14-16')	Solids	09/06/2023 11:45	09/08/2023
61799	SE-SB19 (18-20')	Solids	09/06/2023 11:50	09/08/2023
61800	SE-SB20 (0-2')	Solids	09/06/2023 14:05	09/08/2023
61801	SE-SB20 (2-4')	Solids	09/06/2023 14:07	09/08/2023
61802	SE-SB20 (6-8')	Solids	09/06/2023 14:15	09/08/2023
61803	SE-SB20 (10-12')	Solids	09/06/2023 14:25	09/08/2023
61804	SE-SB20 (14-16')	Solids	09/06/2023 14:35	09/08/2023
61805	SE-SB20 (18-20')	Solids	09/06/2023 14:40	09/08/2023
61806	SE-SB21 (0-2')	Solids	09/06/2023 15:40	09/08/2023
61807	SE-SB21 (2-4')	Solids	09/06/2023 15:42	09/08/2023
61808	SE-SB21 (6-8')	Solids	09/06/2023 15:45	09/08/2023
61809	SE-SB21 (10-12')	Solids	09/06/2023 15:55	09/08/2023
61810	SE-SB21 (12-14')	Solids	09/06/2023 16:00	09/08/2023
61811	SE-SB21 (14-16')	Solids	09/06/2023 16:12	09/08/2023
61812	SE-SB21 (18-20')	Solids	09/06/2023 16:20	09/08/2023
61813	SE-SB21 (20-22')	Solids	09/06/2023 16:05	09/08/2023
61814	SE-SB16 (0-2')	Solids	09/06/2023 10:10	09/08/2023



Sample Summary Table

Report Number: 23-251-0045
Client Project Description: Gastal
Project Number: 1705.A37
Morse, La

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
61815	SE-SB17 (0-2')	Solids	09/06/2023 10:15	09/08/2023
61816	SE-SB18 (0-2')	Solids	09/06/2023 10:30	09/08/2023



Client: Hydro-Environmental Technology, Inc.
Project: Gastal
Lab Report Number: 23-251-0045
Date: 9/27/2023

CASE NARRATIVE

Methods

Methods reported as 29B are from the Laboratory Procedures for Analysis of Exploration & Production Waste – LDNR Office of Conservation Injection and Mining Division – Revised 11/2011.

Results

- 6010D/7471A metals are reported AR - As Received by adjusting the data using the percent moisture result.
- True Total Barium results are reported dry weight
- Oil & Grease results reported dry weight
- TX1006 results are reported as received
- VPH/EPH results reported as received
- PAH results reported as received

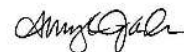
09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastal

Information : Project Number: 1705.A37
Morse, La

Report Date : 09/27/2023
Received : 09/08/2023



Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61789**

Matrix: **Solids**

Sample ID : **SE-SB10 (0-2')**

Sampled: **9/5/2023 16:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	15.7	%		1	09/14/23 15:28	JMB	SW-DRYWT
% Saturation (Sat Paste)	66.5	%		1	09/21/23 16:39	APB	29B
Alkalinity (Sat Paste)	<0.3	meq/L	0.3	1	09/25/23 10:45	JMB	29B
Chloride (Sat Paste)	15.6	meq/L	0.010	10	09/22/23 10:24	MJM	29B
Chloride	375	mg/Kg	4.00	1	09/22/23 11:28	MJM	9056
Electrical Conductivity (Sat Paste)	1.95	mmhos/cm		1	09/21/23 16:39	APB	29B
pH (Sat Paste)	6.85	s.u.		1	09/21/23 16:39	APB	29B
Sulfate (Sat Paste)	1.02	meq/L	0.010	10	09/22/23 10:24	MJM	29B
Cation Exchange Capacity	21.4	meq/100g	0.100	20	09/25/23 13:40		29B
Exchangeable Sodium Percentage	6.76	%	0.100	1	09/21/23 16:39		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	12.1	Calc	0.050	10	09/22/23 17:07		29B
Calcium (Sat Paste)	1.89	meq/L	0.050	10	09/22/23 17:07	APB	29B
Magnesium (Sat Paste)	0.989	meq/L	0.082	10	09/22/23 17:07	APB	29B
Sodium (Sat Paste)	14.5	meq/L	0.210	10	09/22/23 17:07	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

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Morse, La

Report Date : 09/27/2023
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Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61790**

Matrix: **Solids**

Sample ID : **SE-SB11 (0-2')**

Sampled: **9/5/2023 15:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	13.9	%		1	09/14/23 15:28	JMB	SW-DRYWT
% Saturation (Sat Paste)	93.6	%		1	09/21/23 16:39	APB	29B
Alkalinity (Sat Paste)	<0.3	meq/L	0.3	1	09/25/23 10:45	JMB	29B
Chloride (Sat Paste)	14.7	meq/L	0.010	10	09/22/23 10:37	MJM	29B
Chloride	401	mg/Kg	4.00	1	09/22/23 11:41	MJM	9056
Electrical Conductivity (Sat Paste)	1.88	mmhos/cm		1	09/21/23 16:39	APB	29B
pH (Sat Paste)	6.76	s.u.		1	09/21/23 16:39	APB	29B
Sulfate (Sat Paste)	1.51	meq/L	0.010	10	09/22/23 10:37	MJM	29B
Cation Exchange Capacity	29.4	meq/100g	0.100	20	09/25/23 13:44		29B
Exchangeable Sodium Percentage	9.46	%	0.100	1	09/21/23 16:39		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	13.9	Calc	0.050	10	09/22/23 17:11		29B
Calcium (Sat Paste)	1.41	meq/L	0.050	10	09/22/23 17:11	APB	29B
Magnesium (Sat Paste)	0.741	meq/L	0.082	10	09/22/23 17:11	APB	29B
Sodium (Sat Paste)	14.4	meq/L	0.210	10	09/22/23 17:11	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

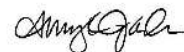
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Report Date : 09/27/2023
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Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61791**

Sample ID : **SE-SB12 (0-2')**

Matrix: **Solids**

Sampled: **9/5/2023 15:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	14.2	%		1	09/14/23 15:28	JMB	SW-DRYWT
% Saturation (Sat Paste)	91.1	%		1	09/21/23 16:39	APB	29B
Alkalinity (Sat Paste)	5.4	meq/L	0.3	1	09/25/23 10:45	JMB	29B
Chloride (Sat Paste)	23.9	meq/L	0.010	20	09/22/23 10:50	MJM	29B
Chloride	362	mg/Kg	8.00	2	09/22/23 11:53	MJM	9056
Electrical Conductivity (Sat Paste)	3.28	mmhos/cm		1	09/21/23 16:39	APB	29B
pH (Sat Paste)	8.35	s.u.		1	09/21/23 16:39	APB	29B
Sulfate (Sat Paste)	1.89	meq/L	0.010	20	09/22/23 10:50	MJM	29B
Cation Exchange Capacity	25.0	meq/100g	0.100	20	09/25/23 13:48		29B
Exchangeable Sodium Percentage	4.14	%	0.100	1	09/21/23 16:39		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	17.5	Calc	0.100	20	09/22/23 17:25		29B
Calcium (Sat Paste)	2.56	meq/L	0.100	20	09/22/23 17:25	APB	29B
Magnesium (Sat Paste)	2.01	meq/L	0.164	20	09/22/23 17:25	APB	29B
Sodium (Sat Paste)	26.5	meq/L	0.420	20	09/22/23 17:25	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

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Project Gastal

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Report Date : 09/27/2023
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Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61792**

Matrix: **Solids**

Sample ID : **SE-SB13 (0-2')**

Sampled: **9/5/2023 16:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	13.7	%		1	09/14/23 15:28	JMB	SW-DRYWT
% Saturation (Sat Paste)	57.3	%		1	09/21/23 16:39	APB	29B
Alkalinity (Sat Paste)	0.5	meq/L	0.3	1	09/25/23 10:45	JMB	29B
Chloride (Sat Paste)	54.1	meq/L	0.014	50	09/22/23 11:03	MJM	29B
Chloride	856	mg/Kg	20.0	5	09/22/23 12:05	MJM	9056
Electrical Conductivity (Sat Paste)	5.83	mmhos/cm		1	09/21/23 16:39	APB	29B
pH (Sat Paste)	6.92	s.u.		1	09/21/23 16:39	APB	29B
Sulfate (Sat Paste)	0.161	meq/L	0.010	50	09/22/23 11:03	MJM	29B
Cation Exchange Capacity	15.5	meq/100g	0.100	20	09/25/23 13:52		29B
Exchangeable Sodium Percentage	14.3	%	0.100	1	09/21/23 16:39		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	29.3	Calc	0.100	20	09/22/23 17:29		29B
Calcium (Sat Paste)	3.50	meq/L	0.100	20	09/22/23 17:29	APB	29B
Magnesium (Sat Paste)	1.82	meq/L	0.164	20	09/22/23 17:29	APB	29B
Sodium (Sat Paste)	47.8	meq/L	0.420	20	09/22/23 17:29	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61793**

Matrix: **Solids**

Sample ID : **SE-SB14 (0-2')**

Sampled: **9/5/2023 16:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	10.8	%		1	09/14/23 15:28	JMB	SW-DRYWT
% Saturation (Sat Paste)	67.8	%		1	09/21/23 16:39	APB	29B
Alkalinity (Sat Paste)	<0.3	meq/L	0.3	1	09/25/23 10:45	JMB	29B
Chloride (Sat Paste)	39.4	meq/L	0.010	20	09/22/23 11:29	MJM	29B
Chloride	879	mg/Kg	8.00	2	09/22/23 12:18	MJM	9056
Electrical Conductivity (Sat Paste)	4.37	mmhos/cm		1	09/21/23 16:39	APB	29B
pH (Sat Paste)	5.94	s.u.		1	09/21/23 16:39	APB	29B
Sulfate (Sat Paste)	0.290	meq/L	0.010	20	09/22/23 11:29	MJM	29B
Cation Exchange Capacity	22.0	meq/100g	0.100	20	09/25/23 13:57		29B
Exchangeable Sodium Percentage	8.25	%	0.100	1	09/21/23 16:39		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	14.5	Calc	0.100	20	09/22/23 17:38		29B
Calcium (Sat Paste)	5.43	meq/L	0.100	20	09/22/23 17:38	APB	29B
Magnesium (Sat Paste)	3.14	meq/L	0.164	20	09/22/23 17:38	APB	29B
Sodium (Sat Paste)	30.0	meq/L	0.420	20	09/22/23 17:38	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

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Project Gastal

Information : Project Number: 1705.A37
Morse, La

Report Date : 09/27/2023
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Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61794**

Matrix: **Solids**

Sample ID : **SE-SB19 (0-2')**

Sampled: **9/6/2023 11:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	10.4	%		1	09/14/23 15:28	JMB	SW-DRYWT
% Saturation (Sat Paste)	57.0	%		1	09/21/23 16:39	APB	29B
Alkalinity (Sat Paste)	<0.3	meq/L	0.3	1	09/25/23 10:45	JMB	29B
Chloride (Sat Paste)	12.9	meq/L	0.010	5	09/22/23 11:42	MJM	29B
Chloride	317	mg/Kg	4.00	1	09/22/23 12:55	MJM	9056
Electrical Conductivity (Sat Paste)	1.58	mmhos/cm		1	09/21/23 16:39	APB	29B
pH (Sat Paste)	5.86	s.u.		1	09/21/23 16:39	APB	29B
Sulfate (Sat Paste)	0.404	meq/L	0.010	5	09/22/23 11:42	MJM	29B
Cation Exchange Capacity	17.2	meq/100g	0.100	20	09/25/23 14:06		29B
Exchangeable Sodium Percentage	5.36	%	0.100	1	09/21/23 16:39		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	9.86	Calc	0.050	10	09/22/23 17:42		29B
Calcium (Sat Paste)	1.65	meq/L	0.050	10	09/22/23 17:42	APB	29B
Magnesium (Sat Paste)	0.932	meq/L	0.082	10	09/22/23 17:42	APB	29B
Sodium (Sat Paste)	11.2	meq/L	0.210	10	09/22/23 17:42	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
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Project Gastal

Information : Project Number: 1705.A37
Morse, La

Report Date : 09/27/2023
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Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61795**

Matrix: **Solids**

Sample ID : **SE-SB19 (2-4')**

Sampled: **9/6/2023 11:22**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	16.6	%		1	09/14/23 15:28	JMB	SW-DRYWT
% Saturation (Sat Paste)	152	%		1	09/21/23 16:39	APB	29B
Alkalinity (Sat Paste)	0.4	meq/L	0.3	1	09/25/23 10:45	JMB	29B
Chloride (Sat Paste)	1.40	meq/L	0.010	5	09/22/23 11:54	MJM	29B
Chloride	77.0	mg/Kg	4.00	1	09/22/23 13:07	MJM	9056
Electrical Conductivity (Sat Paste)	0.347	mmhos/cm		1	09/21/23 16:39	APB	29B
pH (Sat Paste)	6.71	s.u.		1	09/21/23 16:39	APB	29B
Sulfate (Sat Paste)	1.24	meq/L	0.010	5	09/22/23 11:54	MJM	29B
Cation Exchange Capacity	26.6	meq/100g	0.100	20	09/25/23 14:10		29B
Exchangeable Sodium Percentage	8.94	%	0.100	1	09/21/23 16:39		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	8.31	Calc	0.025	5	09/22/23 17:46		29B
Calcium (Sat Paste)	0.160	meq/L	0.025	5	09/22/23 17:46	APB	29B
Magnesium (Sat Paste)	0.075	meq/L	0.041	5	09/22/23 17:46	APB	29B
Sodium (Sat Paste)	2.85	meq/L	0.105	5	09/22/23 17:46	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

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Report Date : 09/27/2023
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Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61796**

Matrix: **Solids**

Sample ID : **SE-SB19 (6-8')**

Sampled: **9/6/2023 11:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	16.5	%		1	09/14/23 15:28	JMB	SW-DRYWT
% Saturation (Sat Paste)	101	%		1	09/21/23 16:39	APB	29B
Alkalinity (Sat Paste)	0.8	meq/L	0.3	1	09/25/23 10:45	JMB	29B
Chloride (Sat Paste)	4.19	meq/L	0.010	5	09/22/23 12:07	MJM	29B
Chloride	75.3	mg/Kg	4.00	1	09/22/23 13:19	MJM	9056
Electrical Conductivity (Sat Paste)	0.849	mmhos/cm		1	09/21/23 16:39	APB	29B
pH (Sat Paste)	7.28	s.u.		1	09/21/23 16:39	APB	29B
Sulfate (Sat Paste)	2.67	meq/L	0.010	5	09/22/23 12:07	MJM	29B
Calcium (Sat Paste)	0.369	meq/L	0.025	5	09/22/23 17:51	APB	29B
Magnesium (Sat Paste)	0.191	meq/L	0.041	5	09/22/23 17:51	APB	29B
Sodium (Sat Paste)	7.06	meq/L	0.105	5	09/22/23 17:51	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

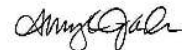
09996

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Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61797**

Matrix: **Solids**

Sample ID : **SE-SB19 (10-12')**

Sampled: **9/6/2023 11:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	16.3	%		1	09/14/23 15:28	JMB	SW-DRYWT
% Saturation (Sat Paste)	57.2	%		1	09/21/23 16:39	APB	29B
Alkalinity (Sat Paste)	0.8	meq/L	0.3	1	09/25/23 10:45	JMB	29B
Chloride (Sat Paste)	5.05	meq/L	0.010	5	09/22/23 12:20	MJM	29B
Chloride	68.7	mg/Kg	4.00	1	09/22/23 14:09	MJM	9056
Electrical Conductivity (Sat Paste)	0.936	mmhos/cm		1	09/21/23 16:39	APB	29B
pH (Sat Paste)	7.27	s.u.		1	09/21/23 16:39	APB	29B
Sulfate (Sat Paste)	2.85	meq/L	0.010	5	09/22/23 12:20	MJM	29B
Calcium (Sat Paste)	0.621	meq/L	0.025	5	09/22/23 17:55	APB	29B
Magnesium (Sat Paste)	0.359	meq/L	0.041	5	09/22/23 17:55	APB	29B
Sodium (Sat Paste)	7.46	meq/L	0.105	5	09/22/23 17:55	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

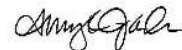
09996

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Project Gastal

Information : Project Number: 1705.A37
Morse, La

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Received : 09/08/2023



Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61798**

Matrix: **Solids**

Sample ID : **SE-SB19 (14-16')**

Sampled: **9/6/2023 11:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	20.8	%		1	09/14/23 15:28	JMB	SW-DRYWT
% Saturation (Sat Paste)	94.5	%		1	09/21/23 16:39	APB	29B
Alkalinity (Sat Paste)	1.2	meq/L	0.3	1	09/25/23 10:45	JMB	29B
Chloride (Sat Paste)	2.98	meq/L	0.010	5	09/22/23 13:12	MJM	29B
Chloride	51.2	mg/Kg	4.00	1	09/22/23 14:21	MJM	9056
Electrical Conductivity (Sat Paste)	0.685	mmhos/cm		1	09/21/23 16:39	APB	29B
pH (Sat Paste)	7.50	s.u.		1	09/21/23 16:39	APB	29B
Sulfate (Sat Paste)	2.10	meq/L	0.010	5	09/22/23 13:12	MJM	29B
Calcium (Sat Paste)	0.596	meq/L	0.025	5	09/22/23 17:59	APB	29B
Magnesium (Sat Paste)	0.351	meq/L	0.041	5	09/22/23 17:59	APB	29B
Sodium (Sat Paste)	5.34	meq/L	0.105	5	09/22/23 17:59	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

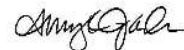
09996

Hydro-Environmental Technology, Inc.
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Project Gastal

Information : Project Number: 1705.A37
Morse, La

Report Date : 09/27/2023
Received : 09/08/2023



Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61799**

Matrix: **Solids**

Sample ID : **SE-SB19 (18-20')**

Sampled: **9/6/2023 11:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	24.4	%		1	09/14/23 16:08	JMB	SW-DRYWT
% Saturation (Sat Paste)	115	%		1	09/21/23 16:39	APB	29B
Alkalinity (Sat Paste)	3.2	meq/L	0.3	1	09/25/23 10:45	JMB	29B
Chloride (Sat Paste)	2.54	meq/L	0.010	5	09/22/23 13:25	MJM	29B
Chloride	55.6	mg/Kg	4.00	1	09/22/23 14:34	MJM	9056
Electrical Conductivity (Sat Paste)	0.783	mmhos/cm		1	09/21/23 16:39	APB	29B
pH (Sat Paste)	8.01	s.u.		1	09/21/23 16:39	APB	29B
Sulfate (Sat Paste)	1.89	meq/L	0.010	5	09/22/23 13:25	MJM	29B
Calcium (Sat Paste)	1.28	meq/L	0.025	5	09/22/23 18:03	APB	29B
Magnesium (Sat Paste)	0.688	meq/L	0.041	5	09/22/23 18:03	APB	29B
Sodium (Sat Paste)	5.67	meq/L	0.105	5	09/22/23 18:03	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

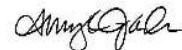
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Project Gastal

Information : Project Number: 1705.A37
Morse, La

Report Date : 09/27/2023
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Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61800**

Matrix: **Solids**

Sample ID : **SE-SB20 (0-2')**

Sampled: **9/6/2023 14:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	17.1	%		1	09/14/23 16:08	JMB	SW-DRYWT
% Saturation (Sat Paste)	101	%		1	09/21/23 16:39	APB	29B
Alkalinity (Sat Paste)	3.2	meq/L	0.3	1	09/25/23 10:45	JMB	29B
Chloride (Sat Paste)	7.60	meq/L	0.010	5	09/22/23 13:37	MJM	29B
Chloride	234	mg/Kg	4.00	1	09/22/23 14:46	MJM	9056
Electrical Conductivity (Sat Paste)	1.20	mmhos/cm		1	09/21/23 16:39	APB	29B
pH (Sat Paste)	7.99	s.u.		1	09/21/23 16:39	APB	29B
Sulfate (Sat Paste)	0.487	meq/L	0.010	5	09/22/23 13:37	MJM	29B
Cation Exchange Capacity	31.6	meq/100g	0.100	20	09/25/23 14:14		29B
Exchangeable Sodium Percentage	3.09	%	0.100	1	09/21/23 16:39		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	5.69	Calc	0.025	5	09/22/23 18:17		29B
Calcium (Sat Paste)	2.37	meq/L	0.025	5	09/22/23 18:17	APB	29B
Magnesium (Sat Paste)	1.25	meq/L	0.041	5	09/22/23 18:17	APB	29B
Sodium (Sat Paste)	7.66	meq/L	0.105	5	09/22/23 18:17	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

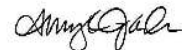
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Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61801**

Matrix: **Solids**

Sample ID : **SE-SB20 (2-4')**

Sampled: **9/6/2023 14:07**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	15.8	%		1	09/14/23 16:08	JMB	SW-DRYWT
% Saturation (Sat Paste)	74.8	%		1	09/21/23 16:39	APB	29B
Alkalinity (Sat Paste)	1.0	meq/L	0.3	1	09/25/23 10:45	JMB	29B
Chloride (Sat Paste)	7.37	meq/L	0.010	5	09/22/23 13:50	MJM	29B
Chloride	159	mg/Kg	4.00	1	09/22/23 14:58	MJM	9056
Electrical Conductivity (Sat Paste)	0.952	mmhos/cm		1	09/21/23 16:39	APB	29B
pH (Sat Paste)	7.31	s.u.		1	09/21/23 16:39	APB	29B
Sulfate (Sat Paste)	0.200	meq/L	0.010	5	09/22/23 13:50	MJM	29B
Cation Exchange Capacity	28.5	meq/100g	0.100	20	09/25/23 14:18		29B
Exchangeable Sodium Percentage	2.24	%	0.100	1	09/21/23 16:39		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	3.61	Calc	0.025	5	09/22/23 18:21		29B
Calcium (Sat Paste)	2.03	meq/L	0.025	5	09/22/23 18:21	APB	29B
Magnesium (Sat Paste)	1.47	meq/L	0.041	5	09/22/23 18:21	APB	29B
Sodium (Sat Paste)	4.77	meq/L	0.105	5	09/22/23 18:21	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

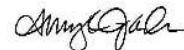
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Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61802**

Matrix: **Solids**

Sample ID : **SE-SB20 (6-8')**

Sampled: **9/6/2023 14:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.1	%		1	09/14/23 16:08	JMB	SW-DRYWT
% Saturation (Sat Paste)	94.1	%		1	09/21/23 16:39	APB	29B
Alkalinity (Sat Paste)	2.2	meq/L	0.3	1	09/25/23 10:45	JMB	29B
Chloride (Sat Paste)	3.49	meq/L	0.010	5	09/22/23 14:03	MJM	29B
Chloride	57.0	mg/Kg	4.00	1	09/22/23 15:11	MJM	9056
Electrical Conductivity (Sat Paste)	0.741	mmhos/cm		1	09/21/23 16:39	APB	29B
pH (Sat Paste)	7.98	s.u.		1	09/21/23 16:39	APB	29B
Sulfate (Sat Paste)	1.09	meq/L	0.010	5	09/22/23 14:03	MJM	29B
Calcium (Sat Paste)	0.750	meq/L	0.025	5	09/22/23 18:25	APB	29B
Magnesium (Sat Paste)	0.490	meq/L	0.041	5	09/22/23 18:25	APB	29B
Sodium (Sat Paste)	5.69	meq/L	0.105	5	09/22/23 18:25	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

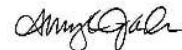
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Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61803**

Matrix: **Solids**

Sample ID : **SE-SB20 (10-12')**

Sampled: **9/6/2023 14:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.8	%		1	09/14/23 16:08	JMB	SW-DRYWT
% Saturation (Sat Paste)	71.0	%		1	09/21/23 16:39	APB	29B
Alkalinity (Sat Paste)	0.8	meq/L	0.3	1	09/25/23 10:45	JMB	29B
Chloride (Sat Paste)	3.72	meq/L	0.010	5	09/22/23 14:16	MJM	29B
Chloride	58.5	mg/Kg	4.00	1	09/22/23 15:23	MJM	9056
Electrical Conductivity (Sat Paste)	0.567	mmhos/cm		1	09/21/23 16:39	APB	29B
pH (Sat Paste)	7.47	s.u.		1	09/21/23 16:39	APB	29B
Sulfate (Sat Paste)	0.354	meq/L	0.010	5	09/22/23 14:16	MJM	29B
Calcium (Sat Paste)	0.376	meq/L	0.025	5	09/22/23 18:30	APB	29B
Magnesium (Sat Paste)	0.246	meq/L	0.041	5	09/22/23 18:30	APB	29B
Sodium (Sat Paste)	4.37	meq/L	0.105	5	09/22/23 18:30	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

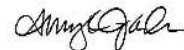
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Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61804**

Matrix: **Solids**

Sample ID : **SE-SB20 (14-16')**

Sampled: **9/6/2023 14:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	25.2	%		1	09/14/23 16:08	JMB	SW-DRYWT
% Saturation (Sat Paste)	136	%		1	09/21/23 16:39	APB	29B
Alkalinity (Sat Paste)	0.7	meq/L	0.3	1	09/25/23 10:45	JMB	29B
Chloride (Sat Paste)	0.643	meq/L	0.010	5	09/22/23 14:29	MJM	29B
Chloride	8.14	mg/Kg	4.00	1	09/22/23 15:35	MJM	9056
Electrical Conductivity (Sat Paste)	0.257	mmhos/cm		1	09/21/23 16:39	APB	29B
pH (Sat Paste)	7.73	s.u.		1	09/21/23 16:39	APB	29B
Sulfate (Sat Paste)	0.620	meq/L	0.010	5	09/22/23 14:29	MJM	29B
Calcium (Sat Paste)	0.127	meq/L	0.025	5	09/22/23 18:34	APB	29B
Magnesium (Sat Paste)	0.098	meq/L	0.041	5	09/22/23 18:34	APB	29B
Sodium (Sat Paste)	2.29	meq/L	0.105	5	09/22/23 18:34	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

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Project Gastal

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Report Date : 09/27/2023
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Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61805**

Matrix: **Solids**

Sample ID : **SE-SB20 (18-20')**

Sampled: **9/6/2023 14:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.7	%		1	09/14/23 16:08	JMB	SW-DRYWT
% Saturation (Sat Paste)	59.4	%		1	09/21/23 16:39	APB	29B
Alkalinity (Sat Paste)	3.2	meq/L	0.3	1	09/25/23 10:45	JMB	29B
Chloride (Sat Paste)	0.623	meq/L	0.010	5	09/22/23 14:42	MJM	29B
Chloride	8.58	mg/Kg	4.00	1	09/22/23 15:48	MJM	9056
Electrical Conductivity (Sat Paste)	0.446	mmhos/cm		1	09/21/23 16:39	APB	29B
pH (Sat Paste)	8.05	s.u.		1	09/21/23 16:39	APB	29B
Sulfate (Sat Paste)	0.526	meq/L	0.010	5	09/22/23 14:42	MJM	29B
Calcium (Sat Paste)	0.410	meq/L	0.025	5	09/22/23 18:39	APB	29B
Magnesium (Sat Paste)	0.255	meq/L	0.041	5	09/22/23 18:39	APB	29B
Sodium (Sat Paste)	3.89	meq/L	0.105	5	09/22/23 18:39	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61806**

Matrix: **Solids**

Sample ID : **SE-SB21 (0-2')**

Sampled: **9/6/2023 15:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	15.2	%		1	09/14/23 16:08	JMB	SW-DRYWT
% Saturation (Sat Paste)	59.5	%		1	09/21/23 16:39	APB	29B
Alkalinity (Sat Paste)	6.8	meq/L	0.3	1	09/25/23 10:45	JMB	29B
Chloride (Sat Paste)	1.27	meq/L	0.010	5	09/22/23 14:55	MJM	29B
Chloride	34.4	mg/Kg	4.00	1	09/22/23 16:00	MJM	9056
Electrical Conductivity (Sat Paste)	0.891	mmhos/cm		1	09/21/23 16:39	APB	29B
pH (Sat Paste)	8.26	s.u.		1	09/21/23 16:39	APB	29B
Sulfate (Sat Paste)	0.531	meq/L	0.010	5	09/22/23 14:55	MJM	29B
Cation Exchange Capacity	19.0	meq/100g	0.100	20	09/25/23 14:32		29B
Exchangeable Sodium Percentage	2.82	%	0.100	1	09/21/23 16:39		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	4.88	Calc	0.025	5	09/22/23 18:43		29B
Calcium (Sat Paste)	2.26	meq/L	0.025	5	09/22/23 18:43	APB	29B
Magnesium (Sat Paste)	1.09	meq/L	0.041	5	09/22/23 18:43	APB	29B
Sodium (Sat Paste)	6.31	meq/L	0.105	5	09/22/23 18:43	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61807**

Matrix: **Solids**

Sample ID : **SE-SB21 (2-4')**

Sampled: **9/6/2023 15:42**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.3	%		1	09/14/23 16:08	JMB	SW-DRYWT
% Saturation (Sat Paste)	71.4	%		1	09/21/23 16:39	APB	29B
Alkalinity (Sat Paste)	1.8	meq/L	0.3	1	09/25/23 10:45	JMB	29B
Chloride (Sat Paste)	1.36	meq/L	0.010	5	09/22/23 15:08	MJM	29B
Chloride	15.8	mg/Kg	4.00	1	09/22/23 16:49	MJM	9056
Electrical Conductivity (Sat Paste)	0.497	mmhos/cm		1	09/21/23 16:39	APB	29B
pH (Sat Paste)	7.79	s.u.		1	09/21/23 16:39	APB	29B
Sulfate (Sat Paste)	0.996	meq/L	0.010	5	09/22/23 15:08	MJM	29B
Cation Exchange Capacity	25.6	meq/100g	0.100	20	09/25/23 14:36		29B
Exchangeable Sodium Percentage	4.01	%	0.100	1	09/21/23 16:39		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	7.22	Calc	0.025	5	09/22/23 18:47		29B
Calcium (Sat Paste)	0.405	meq/L	0.025	5	09/22/23 18:47	APB	29B
Magnesium (Sat Paste)	0.246	meq/L	0.041	5	09/22/23 18:47	APB	29B
Sodium (Sat Paste)	4.12	meq/L	0.105	5	09/22/23 18:47	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

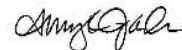
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Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61808**

Matrix: **Solids**

Sample ID : **SE-SB21 (6-8')**

Sampled: **9/6/2023 15:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	20.3	%		1	09/14/23 16:08	JMB	SW-DRYWT
% Saturation (Sat Paste)	84.6	%		1	09/21/23 16:39	APB	29B
Alkalinity (Sat Paste)	1.8	meq/L	0.3	1	09/25/23 10:45	JMB	29B
Chloride (Sat Paste)	1.17	meq/L	0.010	5	09/22/23 15:59	MJM	29B
Chloride	15.8	mg/Kg	4.00	1	09/22/23 17:02	MJM	9056
Electrical Conductivity (Sat Paste)	0.548	mmhos/cm		1	09/21/23 16:39	APB	29B
pH (Sat Paste)	7.97	s.u.		1	09/21/23 16:39	APB	29B
Sulfate (Sat Paste)	1.65	meq/L	0.010	5	09/22/23 15:59	MJM	29B
Calcium (Sat Paste)	0.327	meq/L	0.025	5	09/22/23 18:51	APB	29B
Magnesium (Sat Paste)	0.193	meq/L	0.041	5	09/22/23 18:51	APB	29B
Sodium (Sat Paste)	4.76	meq/L	0.105	5	09/22/23 18:51	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

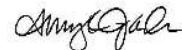
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Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61809**

Matrix: **Solids**

Sample ID : **SE-SB21 (10-12')**

Sampled: **9/6/2023 15:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.7	%		1	09/15/23 16:18	JMB	SW-DRYWT
% Saturation (Sat Paste)	49.5	%		1	09/22/23 10:54	MJM	29B
Alkalinity (Sat Paste)	0.5	meq/L	0.3	1	09/26/23 10:15	APB	29B
Chloride (Sat Paste)	7.71	meq/L	0.010	5	09/25/23 12:49	MJM	29B
Chloride	105	mg/Kg	4.00	1	09/25/23 12:42	MJM	9056
Electrical Conductivity (Sat Paste)	1.05	mmhos/cm		1	09/22/23 10:54	MJM	29B
pH (Sat Paste)	7.44	s.u.		1	09/22/23 10:54	MJM	29B
Sulfate (Sat Paste)	0.836	meq/L	0.010	5	09/25/23 12:49	MJM	29B
Calcium (Sat Paste)	2.96	meq/L	0.025	5	09/25/23 19:26	APB	29B
Magnesium (Sat Paste)	0.672	meq/L	0.041	5	09/25/23 19:26	APB	29B
Sodium (Sat Paste)	6.93	meq/L	0.105	5	09/25/23 19:26	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastal

Information : Project Number: 1705.A37
Morse, La

Report Date : 09/27/2023
Received : 09/08/2023



Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61810**

Matrix: **Solids**

Sample ID : **SE-SB21 (12-14')**

Sampled: **9/6/2023 16:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	29.4	%		1	09/15/23 16:18	JMB	SW-DRYWT
% Saturation (Sat Paste)	133	%		1	09/22/23 10:54	MJM	29B
Alkalinity (Sat Paste)	0.8	meq/L	0.3	1	09/26/23 10:15	APB	29B
Chloride (Sat Paste)	3.25	meq/L	0.010	5	09/25/23 13:02	MJM	29B
Chloride	80.7	mg/Kg	4.00	1	09/25/23 12:54	MJM	9056
Electrical Conductivity (Sat Paste)	0.501	mmhos/cm		1	09/22/23 10:54	MJM	29B
pH (Sat Paste)	7.48	s.u.		1	09/22/23 10:54	MJM	29B
Sulfate (Sat Paste)	0.367	meq/L	0.010	5	09/25/23 13:02	MJM	29B
Calcium (Sat Paste)	0.900	meq/L	0.025	5	09/25/23 19:30	APB	29B
Magnesium (Sat Paste)	0.304	meq/L	0.041	5	09/25/23 19:30	APB	29B
Sodium (Sat Paste)	3.36	meq/L	0.105	5	09/25/23 19:30	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastal

Information : Project Number: 1705.A37
Morse, La

Report Date : 09/27/2023
Received : 09/08/2023



Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61811**

Matrix: **Solids**

Sample ID : **SE-SB21 (14-16')**

Sampled: **9/6/2023 16:12**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	27.2	%		1	09/15/23 16:18	JMB	SW-DRYWT
% Saturation (Sat Paste)	71.8	%		1	09/22/23 10:54	MJM	29B
Alkalinity (Sat Paste)	1.5	meq/L	0.3	1	09/26/23 10:15	APB	29B
Chloride (Sat Paste)	3.55	meq/L	0.010	5	09/25/23 13:15	MJM	29B
Chloride	59.1	mg/Kg	4.00	1	09/25/23 13:06	MJM	9056
Electrical Conductivity (Sat Paste)	0.598	mmhos/cm		1	09/22/23 10:54	MJM	29B
pH (Sat Paste)	7.79	s.u.		1	09/22/23 10:54	MJM	29B
Sulfate (Sat Paste)	0.492	meq/L	0.010	5	09/25/23 13:15	MJM	29B
Calcium (Sat Paste)	1.16	meq/L	0.025	5	09/25/23 19:35	APB	29B
Magnesium (Sat Paste)	0.483	meq/L	0.041	5	09/25/23 19:35	APB	29B
Sodium (Sat Paste)	3.82	meq/L	0.105	5	09/25/23 19:35	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastal

Information : Project Number: 1705.A37
Morse, La

Report Date : 09/27/2023
Received : 09/08/2023



Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61812**

Matrix: **Solids**

Sample ID : **SE-SB21 (18-20')**

Sampled: **9/6/2023 16:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	26.2	%		1	09/15/23 16:18	JMB	SW-DRYWT
% Saturation (Sat Paste)	120	%		1	09/22/23 10:54	MJM	29B
Alkalinity (Sat Paste)	1.4	meq/L	0.3	1	09/26/23 10:15	APB	29B
Chloride (Sat Paste)	2.36	meq/L	0.010	5	09/25/23 13:41	MJM	29B
Chloride	44.0	mg/Kg	4.00	1	09/25/23 13:19	MJM	9056
Electrical Conductivity (Sat Paste)	0.494	mmhos/cm		1	09/22/23 10:54	MJM	29B
pH (Sat Paste)	7.77	s.u.		1	09/22/23 10:54	MJM	29B
Sulfate (Sat Paste)	0.776	meq/L	0.010	5	09/25/23 13:41	MJM	29B
Calcium (Sat Paste)	0.877	meq/L	0.025	5	09/25/23 19:43	APB	29B
Magnesium (Sat Paste)	0.344	meq/L	0.041	5	09/25/23 19:43	APB	29B
Sodium (Sat Paste)	3.30	meq/L	0.105	5	09/25/23 19:43	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastal

Information : Project Number: 1705.A37
Morse, La

Report Date : 09/27/2023
Received : 09/08/2023



Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61813**

Matrix: **Solids**

Sample ID : **SE-SB21 (20-22')**

Sampled: **9/6/2023 16:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	27.4	%		1	09/15/23 16:18	JMB	SW-DRYWT
% Saturation (Sat Paste)	121	%		1	09/22/23 10:54	MJM	29B
Alkalinity (Sat Paste)	2.1	meq/L	0.3	1	09/26/23 10:15	APB	29B
Chloride (Sat Paste)	3.58	meq/L	0.010	5	09/25/23 13:54	MJM	29B
Chloride	63.1	mg/Kg	4.00	1	09/25/23 13:31	MJM	9056
Electrical Conductivity (Sat Paste)	0.706	mmhos/cm		1	09/22/23 10:54	MJM	29B
pH (Sat Paste)	8.06	s.u.		1	09/22/23 10:54	MJM	29B
Sulfate (Sat Paste)	0.722	meq/L	0.010	5	09/25/23 13:54	MJM	29B
Calcium (Sat Paste)	1.36	meq/L	0.025	5	09/25/23 19:48	APB	29B
Magnesium (Sat Paste)	0.623	meq/L	0.041	5	09/25/23 19:48	APB	29B
Sodium (Sat Paste)	4.31	meq/L	0.105	5	09/25/23 19:48	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastal

Information : Project Number: 1705.A37
Morse, La

Report Date : 09/27/2023
Received : 09/08/2023



Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61814**

Matrix: **Solids**

Sample ID : **SE-SB16 (0-2')**

Sampled: **9/6/2023 10:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	10.4	%		1	09/15/23 16:18	JMB	SW-DRYWT
% Saturation (Sat Paste)	68.3	%		1	09/22/23 10:54	MJM	29B
Alkalinity (Sat Paste)	2.4	meq/L	0.3	1	09/26/23 10:15	APB	29B
Chloride (Sat Paste)	10.6	meq/L	0.010	5	09/25/23 14:45	MJM	29B
Chloride	243	mg/Kg	4.00	1	09/25/23 14:08	MJM	9056
Electrical Conductivity (Sat Paste)	1.45	mmhos/cm		1	09/22/23 10:54	MJM	29B
pH (Sat Paste)	8.08	s.u.		1	09/22/23 10:54	MJM	29B
Sulfate (Sat Paste)	0.349	meq/L	0.010	5	09/25/23 14:45	MJM	29B
Cation Exchange Capacity	24.6	meq/100g	0.100	20	09/25/23 14:40		29B
Exchangeable Sodium Percentage	4.57	%	0.100	1	09/22/23 10:54		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	6.18	Calc	0.050	10	09/25/23 19:52		29B
Calcium (Sat Paste)	2.93	meq/L	0.050	10	09/25/23 19:52	APB	29B
Magnesium (Sat Paste)	1.34	meq/L	0.082	10	09/25/23 19:52	APB	29B
Sodium (Sat Paste)	9.03	meq/L	0.210	10	09/25/23 19:52	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

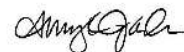
09996

Hydro-Environmental Technology, Inc.
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Scott, LA 70583

Project Gastal

Information : Project Number: 1705.A37
Morse, La

Report Date : 09/27/2023
Received : 09/08/2023



Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61815**

Matrix: **Solids**

Sample ID : **SE-SB17 (0-2')**

Sampled: **9/6/2023 10:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	9.57	%		1	09/15/23 16:18	JMB	SW-DRYWT
% Saturation (Sat Paste)	66.7	%		1	09/22/23 10:54	MJM	29B
Alkalinity (Sat Paste)	4.6	meq/L	0.3	1	09/26/23 10:15	APB	29B
Chloride (Sat Paste)	18.2	meq/L	0.010	10	09/25/23 14:58	MJM	29B
Chloride	403	mg/Kg	4.00	1	09/25/23 14:20	MJM	9056
Electrical Conductivity (Sat Paste)	2.45	mmhos/cm		1	09/22/23 10:54	MJM	29B
pH (Sat Paste)	8.45	s.u.		1	09/22/23 10:54	MJM	29B
Sulfate (Sat Paste)	0.384	meq/L	0.010	10	09/25/23 14:58	MJM	29B
Cation Exchange Capacity	20.8	meq/100g	0.100	20	09/25/23 14:44		29B
Exchangeable Sodium Percentage	8.01	%	0.100	1	09/22/23 10:54		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	14.0	Calc	0.050	10	09/25/23 19:56		29B
Calcium (Sat Paste)	2.35	meq/L	0.050	10	09/25/23 19:56	APB	29B
Magnesium (Sat Paste)	1.28	meq/L	0.082	10	09/25/23 19:56	APB	29B
Sodium (Sat Paste)	18.8	meq/L	0.210	10	09/25/23 19:56	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
91 Apollo Rd
Scott, LA 70583

Project Gastal

Information : Project Number: 1705.A37
Morse, La

Report Date : 09/27/2023
Received : 09/08/2023



Report Number : **23-251-0045**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **61816**

Matrix: **Solids**

Sample ID : **SE-SB18 (0-2')**

Sampled: **9/6/2023 10:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	10.5	%		1	09/15/23 16:18	JMB	SW-DRYWT
% Saturation (Sat Paste)	51.9	%		1	09/22/23 10:54	MJM	29B
Alkalinity (Sat Paste)	2.3	meq/L	0.3	1	09/26/23 10:15	APB	29B
Chloride (Sat Paste)	8.41	meq/L	0.010	5	09/25/23 15:11	MJM	29B
Chloride	113	mg/Kg	4.00	1	09/25/23 14:33	MJM	9056
Electrical Conductivity (Sat Paste)	1.21	mmhos/cm		1	09/22/23 10:54	MJM	29B
pH (Sat Paste)	7.82	s.u.		1	09/22/23 10:54	MJM	29B
Sulfate (Sat Paste)	0.535	meq/L	0.010	5	09/25/23 15:11	MJM	29B
Cation Exchange Capacity	17.8	meq/100g	0.100	20	09/25/23 14:49		29B
Exchangeable Sodium Percentage	4.00	%	0.100	1	09/22/23 10:54		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	6.71	Calc	0.050	10	09/25/23 20:00		29B
Calcium (Sat Paste)	1.79	meq/L	0.050	10	09/25/23 20:00	APB	29B
Magnesium (Sat Paste)	1.08	meq/L	0.082	10	09/25/23 20:00	APB	29B
Sodium (Sat Paste)	8.04	meq/L	0.210	10	09/25/23 20:00	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 23-251-0045

QC Prep:	A85998	QC Analytical Batch(es):	A86162
QC Prep Batch Method:	LA 29B CEC (PREP)	Analysis Method:	29B
		Analysis Description:	Cation Exchange Capacity

Lab Reagent Blank LRB-A85998 Matrix: SOL
Associated Lab Samples: 61789, 61790, 61791, 61792, 61793, 61794, 61795, 61800, 61801, 61806, 61807, 61814, 61815, 61816

Parameter	Units	Blank Result	MQL	Analyzed
Total Sodium CEC	mg/Kg	< 100	100	09/25/23 15:44

Duplicate A 61793-A85872-DUP-A85998

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Sodium CEC	mg/Kg	5060	5370	5.9	30.0	09/25/23 14:01

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 23-251-0045

QC Prep:	A85999	QC Analytical Batch(es):	A86163
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Exchangeable Sodium Percentage

Duplicate A 61793-A85872-DUP-A85999

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Sodium ESP	meq/100g	3.85	3.92	1.8	30.0	09/25/23 16:10

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 23-251-0045

QC Prep:	A85996	QC Analytical Batch(es):	A86038,A86052,A86039,A86040
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Alkalinity

Duplicate A 61792-A85872-DUP-A85996

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Alkalinity (Sat Paste)	meq/L	0.5	0.5	0.0	30.0	09/25/23 10:45

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 23-251-0045

QC Prep:	A85997	QC Analytical Batch(es):	A86093,A86160,A86100,A86176
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Alkalinity

Duplicate A 61811-A85873-DUP-A85997

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Alkalinity (Sat Paste)	meq/L	1.5	1.8	18.1	30.0	09/26/23 10:15

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 23-251-0045

QC Prep:	A85996	QC Analytical Batch(es):	A86038,A86052,A86039,A86040
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Anions by Ion Chromatography

Duplicate A 61792-A85872-DUP-A85996

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Chloride (Sat Paste)	meq/L	54.1	53.4	1.3	30.0	09/22/23 11:16
Sulfate (Sat Paste)	meq/L	0.161	0.164	1.8	30.0	09/22/23 11:16

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 23-251-0045

QC Prep:	A85997	QC Analytical Batch(es):	A86093,A86160,A86100,A86176
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Anions by Ion Chromatography

Duplicate A 61811-A85873-DUP-A85997

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Chloride (Sat Paste)	meq/L	3.55	4.72	28.2	30.0	09/25/23 13:28
Sulfate (Sat Paste)	meq/L	0.492	0.660	29.1	30.0	09/25/23 13:28

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 23-251-0045

QC Prep:	A85996	QC Analytical Batch(es):	A86038,A86052,A86039,A86040
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 61792-A85872-DUP-A85996

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Saturation (Sat Paste)	%	57.3	58.0	1.2	30.0	09/21/23 16:39
Electrical Conductivity (Sat Paste)	nmhos/cm	5.83	5.74	1.5	30.0	09/21/23 16:39
pH (Sat Paste)	s.u.	6.92	7.01	1.2	30.0	09/21/23 16:39

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 23-251-0045

QC Prep:	A85997	QC Analytical Batch(es):	A86093,A86160,A86100,A86176
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 61811-A85873-DUP-A85997

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Saturation (Sat Paste)	%	71.8	71.7	0.1	30.0	09/22/23 10:54
Electrical Conductivity (Sat Paste)	nmhos/cm	0.598	0.784	26.9	30.0	09/22/23 10:54
pH (Sat Paste)	s.u.	7.79	7.90	1.4	30.0	09/22/23 10:54

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 23-251-0045

QC Prep: A85996
QC Prep Batch Method: 29B
QC Analytical Batch(es): A86038,A86052,A86039,A86040
Analysis Method: 29B
Analysis Description: Saturated Paste Extraction

Duplicate A 61792-A85872-DUP-A85996

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Calcium (Sat Paste)	meq/L	3.50	3.42	2.3	30.0	09/22/23 17:33
Magnesium (Sat Paste)	meq/L	1.82	1.76	3.3	30.0	09/22/23 17:33
Sodium (Sat Paste)	meq/L	47.8	47.0	1.6	30.0	09/22/23 17:33

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 23-251-0045

QC Prep:	A85997	QC Analytical Batch(es):	A86093,A86160,A86100,A86176
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 61811-A85873-DUP-A85997

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Calcium (Sat Paste)	meq/L	1.16	1.44	21.5	30.0	09/25/23 19:39
Magnesium (Sat Paste)	meq/L	0.483	0.650	29.4	30.0	09/25/23 19:39
Sodium (Sat Paste)	meq/L	3.82	4.98	26.3	30.0	09/25/23 19:39

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 23-251-0045

QC Prep:	A86000	QC Analytical Batch(es):	A86082
QC Prep Batch Method:	SW-9056 (PREP)	Analysis Method:	9056
		Analysis Description:	Anions by Ion Chromatography

Lab Reagent Blank LRB-A86000 Matrix: SOL
Associated Lab Samples: 61789, 61790, 61791, 61792, 61793, 61794, 61795, 61796, 61797, 61798, 61799, 61800, 61801, 61802, 61803, 61804, 61805, 61806, 61807, 61808

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/Kg	< 4.00	4.00	09/22/23 11:04

Laboratory Control Sample LCS-A86000

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Chloride	mg/Kg	500	481	96.2	80-120

Matrix Spike & Matrix Spike Duplicate A 61793-MS-A86000 A 61793-MSD-A86000

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Chloride	mg/Kg	879	475	480	1280	1290	84.4	85.6	80-120	0.7	15.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 23-251-0045

QC Prep: A86001 **QC Analytical Batch(es):** A86083
QC Prep Batch Method: SW-9056 (PREP) **Analysis Method:** 9056
Analysis Description: Anions by Ion Chromatography

Lab Reagent Blank LRB-A86001 Matrix: SOL
Associated Lab Samples: 61809, 61810, 61811, 61812, 61813, 61814, 61815, 61816

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/Kg	< 4.00	4.00	09/25/23 12:17

Laboratory Control Sample LCS-A86001

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Chloride	mg/Kg	500	467	93.4	80-120

Matrix Spike & Matrix Spike Duplicate A 61813-MS-A86001 A 61813-MSD-A86001

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Chloride	mg/Kg	63.1	484	483	516	520	93.5	94.5	80-120	0.7	15.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 23-251-0045

QC Analytical Batch: A85856

Analysis Method: SW-DRYWT

Analysis Description: Dry Weight Determination

Duplicate A 61789-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	15.7	15.2	3.2	20.0	09/14/23 15:28

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 23-251-0045

QC Analytical Batch: A85857

Analysis Method: SW-DRYWT

Analysis Description: Dry Weight Determination

Duplicate A 61799-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	24.4	24.6	0.8	20.0	09/14/23 16:08

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 23-251-0045

QC Analytical Batch: A85865

Analysis Method: SW-DRYWT

Analysis Description: Dry Weight Determination

Duplicate A 61809-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	19.7	19.3	2.0	20.0	09/15/23 16:18

Shipment Receipt Form

Customer Number: **09996**

Customer Name: **Hydro-Environmental Technology, Inc.**

Report Number: **23-251-0045**

Shipping Method

☐ Fed Ex	☐ US Postal	☒ Lab	☐ Other :	
☐ UPS	☐ Client	☐ Courier	Thermometer ID:	IR 1

Shipping container/cooler uncompromised?	☒ Yes	☐ No
Number of coolers/boxes received	1	
Custody seals intact on shipping container/cooler?	☐ Yes	☐ No ☒ Not Present
Custody seals intact on sample bottles?	☐ Yes	☐ No ☒ Not Present
Chain of Custody (COC) present?	☒ Yes	☐ No
COC agrees with sample label(s)?	☒ Yes	☐ No
COC properly completed	☒ Yes	☐ No
Samples in proper containers?	☒ Yes	☐ No
Sample containers intact?	☒ Yes	☐ No
Sufficient sample volume for indicated test(s)?	☒ Yes	☐ No
All samples received within holding time?	☒ Yes	☐ No
Cooler temperature in compliance?	☒ Yes	☐ No
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	☒ Yes	☐ No
Water - Sample containers properly preserved	☐ Yes	☐ No ☒ N/A
Water - VOA vials free of headspace	☐ Yes	☐ No ☒ N/A
Trip Blanks received with VOAs	☐ Yes	☐ No ☒ N/A
Soil VOA method 5035 – compliance criteria met	☐ Yes	☐ No ☒ N/A
☐ High concentration container (48 hr)	☐ Low concentration EnCore samplers (48 hr)	
☐ High concentration pre-weighed (methanol -14 d)	☐ Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	☐ Yes	☒ No

Comments:

Signature:

Christina R. Varuso

Date & Time:

09/08/2023 17:23:59



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
Environmental Consultants
P.O. Box 6029
Lafayette, LA 70596
Phone (337) 261-1963 FAX (337) 261-1964



23-251-0045
09996
09-08-2023
17:23:23

Hydro-Environmental Technology, Inc.
Gastel

SAMPLE CHAIN-OF-CUSTODY

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 9/5/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB10 (0-2') 61789	SO	9/5/2023 1600	16 oz	EC, SAR, CEC, ESP, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB11 (0-2') 61790	SO	9/5/2023 1555	16 oz	EC, SAR, CEC, ESP, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB12 (0-2') 61791	SO	9/5/2023 1550	16 oz	EC, SAR, CEC, ESP, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB13 (0-2') 61792	SO	9/5/2023 1610	16 oz	EC, SAR, CEC, ESP, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB14 (0-2') 61793	SO	9/5/2023 1605	16 oz	EC, SAR, CEC, ESP, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB19 (0-2') 61794	SO	9/6/2023 1120	9 oz	EC, SAR, CEC, ESP, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB19 (2-4') 61795	SO	9/6/2023 1122	9 oz	EC, SAR, CEC, ESP, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB19 (6-8') 61796	SO	9/6/2023 1130	9 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: <u>[Signature]</u>	Received By: <u>P. Howard</u>
Date/Time: <u>9/8/23 0803</u>	Date/Time: <u>9/8/23 0803</u>
Relinquished By: <u>P. Howard</u>	Received By: <u>Kathy Hendrix</u>
Date/Time: <u>9/8/23 9:43</u>	Date/Time: <u>09/08/23 0944</u>
Analysis Due: Verbal:	Written: <u>Relinquish By Kathy Hendrix 09/08/23 0944</u>

Rec'd By: [Signature] 9/8/23 0944
Rec'd By: [Signature] 9/8/23 1330

Relinquish By: [Signature] 9/8/23 1330



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
Environmental Consultants
P.O. Box 60295
Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 9/5/2023

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
SE-SB19 (10-12') 61797	SO	9/6/2023	1140	9 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB19 (14-16') 61798	SO	9/6/2023	1145	9 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB19 (18-20') 61799	SO	9/6/2023	1150	9 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB20 (0-2') 61800	SO	9/6/2023	1405	9 oz	EC, SAR, CEC, ESP, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB20 (2-4') 61801	SO	9/6/2023	1407	9 oz	EC, SAR, CEC, ESP, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB20 (6-8') 61802	SO	9/6/2023	1415	9 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB20 (10-12') 61803	SO	9/6/2023	1425	9 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB20 (14-16') 61804	SO	9/6/2023	1435	9 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: [Signature]
Date/Time: 9/8/23 0803

Received By: P. Howard
Date/Time: 9/8/23 0803

Relinquished By: P. Howard
Date/Time: 9/8/23 9:47

Received By: Kathy Hendrix
Date/Time: 09/08/23 0944

Relinquished By: Kathy Hendrix
Date/Time: 09/08/23 0944

Analysis Due: Verbal:

Written:

Rec'd By: [Signature] 9/8/23 0944 Relinquish By: [Signature] 9/8/23 1330
Rec'd By: [Signature] 9/8/23 1330



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
Environmental Consultants
P.O. Box 60295
Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 9/5/2023

Sample I.D.	Type	Date/Time Sampled	Containers	Analysis Requested/Method	Comments
SE-SB20 (18-20') 61805	SO	9/6/2023 1440	9 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB21 (0-2') 61806	SO	9/6/2023 1540	9 oz	EC, SAR, CEC, ESP, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB21 (2-4') 61807	SO	9/6/2023 1542	9 oz	EC, SAR, CEC, ESP, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB21 (6-8') 61808	SO	9/6/2023 1545	9 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB21 (10-12') 61809	SO	9/6/2023 1555	9 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB21 (12-14') 61810	SO	9/6/2023 1600	9 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB21 (14-16') 61811	SO	9/6/2023 1612	9 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB21 (18-20') 61812	SO	9/6/2023 1620	9 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB21 (20-22') 61813	SO	9/6/2023 1605	9 oz	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: [Signature] Received By: P. Harwood
Date/Time: 9/8/23 0803 Date/Time: 9/8/23 0803
Relinquished By: P. Harwood Received By: Kathy Hendrix Relinquished By: Kathy Hendrix
Date/Time: 9/8/23 0943 Date/Time: 09/08/23 0944 Date/Time: 09/08/23 0944
Analysis Due: Verbal: [Signature] Written: [Signature]
Rec'd By: [Signature] 9/8/23 0944 Relinquished By: [Signature] 9/8/23 1330

Rec'd By: [Signature] 9/8/23 1330



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
Environmental Consultants
P.O. Box 60295
Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastel Laboratory: Waypoint
Project Number: 1705.A37 Collected By: DCC
Project Location: Morse, La Company: Hydro-Environmental Technology, Inc.
Date: 9/5/2023

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
SE-SB16 (0-2') 61814	SO	9/6/2023	1010	9 oz	EC, SAR, CEC, ESP, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB17 (0-2') 61815	SO	9/6/2023	1015	9 oz	EC, SAR, CEC, ESP, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
SE-SB18 (0-2') 61816	SO	9/6/2023	1030	9 oz	EC, SAR, CEC, ESP, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: <u>[Signature]</u>	Received By: <u>P. Hayward</u>
Date/Time: <u>9/8/23 0803</u>	Date/Time: <u>9/8/23 0803</u>
Relinquished By: <u>P. Hayward</u>	Received By: <u>Kathy Hendrix</u>
Date/Time: <u>9/8/23 9:43</u>	Date/Time: <u>09/08/23 0944</u>
Relinquished By: <u>[Signature]</u>	Received By: <u>Kathy Hendrix</u>
Date/Time: <u>9/8/23 1330</u>	Date/Time: <u>09/08/23 0944</u>
Analysis Due: Verbal:	Written:

Rec'd By: [Signature] 9/8/23 0944
Rec'd By: [Signature] 9/8/23 1330

Reling By: [Signature] 9/8/23 1330

3/18/2025

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA, 70583

Ref: Report Number: 25-064-0033
Project Description: Gastal
1705.A37
Morse, LA

Dear Mr. Stewart Stover, Jr.:

Waypoint Analytical Louisiana, Inc. received sample(s) on 3/5/2025 for the analyses presented in the following report. The above referenced project has been analyzed per your instructions. Unless otherwise noted, the analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance. Analyses reported which indicate "Field" for these parameters were analyzed by the client in the field. Results for solid samples are reported on an as received or "wet weight" basis unless otherwise specified.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

All quality control measures undertaken in accordance with Waypoint Analytical Louisiana, Inc. CompQAP990807A and revisions under the terms of the Louisiana Environmental Laboratory Accreditation Program (Certificate #02041) are within acceptance ranges established in that document with the exception of the items indicated and/or discussed in a Case Narrative.

The results are shown on the attached analysis sheet(s). Be aware that the time analyzed for certain samples (e.g. - BOD, CBOD, etc.) refer to the time the sample batch was begun and not necessarily to the time an individual sample was begun. Thank you for allowing Waypoint Analytical Louisiana, Inc. to serve you. Should I be of further assistance, if you have any questions or need additional information please contact me or client services.

Sincerely,



Amy Jackson
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis. This report may be reproduced in full only with the written permission of the laboratory and/or the entity to which it is addressed. Results contained herein relate only to the sample(s) submitted to the laboratory.





Certification Summary

Laboratory ID: WP MLA: Waypoint Analytical Louisiana, Inc., Marrero, LA

State	Program	Lab ID	Expiration Date
Georgia	State Program	02041	06/30/2025
Louisiana	State Program - NELAP	02041	06/30/2025



Sample Summary Table

Report Number: 25-064-0033

Client Project Description: Gastal
1705.A37
Morse, LA

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
52347	B-1 (0-1')	Solids	02/25/2025 10:15	03/05/2025 14:59
52348	B-1 (1-2')	Solids	02/25/2025 10:15	03/05/2025 14:59
52349	B-2 (0-1')	Solids	02/25/2025 14:20	03/05/2025 14:59
52350	B-2 (1-2')	Solids	02/25/2025 14:20	03/05/2025 14:59
52351	B-3 (0-1')	Solids	02/25/2025 14:45	03/05/2025 14:59
52352	B-3 (1-2')	Solids	02/25/2025 14:45	03/05/2025 14:59
52353	B-4 (0-1')	Solids	02/25/2025 15:00	03/05/2025 14:59
52354	B-4 (1-2')	Solids	02/25/2025 15:00	03/05/2025 14:59
52355	B-5 (0-1')	Solids	02/25/2025 15:20	03/05/2025 14:59
52356	B-5 (1-2')	Solids	02/25/2025 15:20	03/05/2025 14:59



Client: Hydro-Environmental Technology, Inc.
Project: Gastal
Lab Report Number: 25-064-0033
Date: 3/18/2025

CASE NARRATIVE

Methods

Methods reported as 29B are from the Laboratory Procedures for Analysis of Exploration & Production Waste – LDNR Office of Conservation Injection and Mining Division – Revised 11/2011.

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA 70583

Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 03/18/2025
Received : 03/05/2025



Report Number : **25-064-0033**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52347**

Matrix: **Solids**

Sample ID : **B-1 (0-1')**

Sampled: **2/25/2025 10:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.0	%	0.050	1	03/12/25 16:20	JMB	SW-DRYWT
% Saturation (Sat Paste)	68.6	%		1	03/14/25 14:50	TJL	29B
Electrical Conductivity (Sat Paste)	5.83	mmhos/cm		1	03/14/25 14:50	TJL	29B
Cation Exchange Capacity	16.3	meq/100g	0.100	10	03/17/25 19:18		29B
Exchangeable Sodium Percentage	20.4	%	0.100	1	03/14/25 14:50		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	39.0	Calc	0.050	10	03/17/25 13:53		29B
Calcium (Sat Paste)	3.62	meq/L	0.050	10	03/17/25 13:53	APB	29B
Magnesium (Sat Paste)	<0.082	meq/L	0.082	10	03/17/25 13:53	APB	29B
Sodium (Sat Paste)	52.5	meq/L	0.220	10	03/17/25 13:53	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA 70583

Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 03/18/2025
Received : 03/05/2025



Report Number : **25-064-0033**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52348**

Matrix: **Solids**

Sample ID : **B-1 (1-2')**

Sampled: **2/25/2025 10:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.9	%	0.050	1	03/12/25 16:20	JMB	SW-DRYWT
% Saturation (Sat Paste)	62.2	%		1	03/14/25 14:50	TJL	29B
Electrical Conductivity (Sat Paste)	9.70	mmhos/cm		1	03/14/25 14:50	TJL	29B
Cation Exchange Capacity	16.4	meq/100g	0.100	10	03/17/25 19:22		29B
Exchangeable Sodium Percentage	29.7	%	0.100	1	03/14/25 14:50		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	78.3	Calc	0.050	10	03/17/25 13:57		29B
Calcium (Sat Paste)	2.30	meq/L	0.050	10	03/17/25 13:57	APB	29B
Magnesium (Sat Paste)	0.373	meq/L	0.082	10	03/17/25 13:57	APB	29B
Sodium (Sat Paste)	90.5	meq/L	0.220	10	03/17/25 13:57	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA 70583

Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 03/18/2025
Received : 03/05/2025



Report Number : **25-064-0033**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52349**

Matrix: **Solids**

Sample ID : **B-2 (0-1')**

Sampled: **2/25/2025 14:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	20.0	%	0.050	1	03/12/25 16:20	JMB	SW-DRYWT
% Saturation (Sat Paste)	40.2	%		1	03/14/25 14:50	TJL	29B
Electrical Conductivity (Sat Paste)	1.74	mmhos/cm		1	03/14/25 14:50	TJL	29B
Cation Exchange Capacity	14.6	meq/100g	0.100	10	03/17/25 19:26		29B
Exchangeable Sodium Percentage	14.8	%	0.100	1	03/14/25 14:50		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	18.8	Calc	0.050	10	03/17/25 14:01		29B
Calcium (Sat Paste)	0.912	meq/L	0.050	10	03/17/25 14:01	APB	29B
Magnesium (Sat Paste)	0.293	meq/L	0.082	10	03/17/25 14:01	APB	29B
Sodium (Sat Paste)	14.6	meq/L	0.220	10	03/17/25 14:01	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA 70583

Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 03/18/2025
Received : 03/05/2025



Report Number : **25-064-0033**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52350**

Matrix: **Solids**

Sample ID : **B-2 (1-2')**

Sampled: **2/25/2025 14:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	21.8	%	0.050	1	03/12/25 16:20	JMB	SW-DRYWT
% Saturation (Sat Paste)	76.0	%		1	03/14/25 14:50	TJL	29B
Electrical Conductivity (Sat Paste)	1.94	mmhos/cm		1	03/14/25 14:50	TJL	29B
Cation Exchange Capacity	19.3	meq/100g	0.100	10	03/17/25 19:30		29B
Exchangeable Sodium Percentage	10.6	%	0.100	1	03/14/25 14:50		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	20.0	Calc	0.050	10	03/17/25 14:06		29B
Calcium (Sat Paste)	0.786	meq/L	0.050	10	03/17/25 14:06	APB	29B
Magnesium (Sat Paste)	0.410	meq/L	0.082	10	03/17/25 14:06	APB	29B
Sodium (Sat Paste)	15.5	meq/L	0.220	10	03/17/25 14:06	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA 70583

Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 03/18/2025
Received : 03/05/2025



Report Number : **25-064-0033**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52351**

Matrix: **Solids**

Sample ID : **B-3 (0-1')**

Sampled: **2/25/2025 14:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	22.6	%	0.050	1	03/12/25 16:20	JMB	SW-DRYWT
% Saturation (Sat Paste)	95.9	%		1	03/14/25 14:50	TJL	29B
Electrical Conductivity (Sat Paste)	1.46	mmhos/cm		1	03/14/25 14:50	TJL	29B
Cation Exchange Capacity	27.5	meq/100g	0.100	10	03/17/25 19:38		29B
Exchangeable Sodium Percentage	6.18	%	0.100	1	03/14/25 14:50		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	15.0	Calc	0.050	10	03/17/25 14:10		29B
Calcium (Sat Paste)	0.831	meq/L	0.050	10	03/17/25 14:10	APB	29B
Magnesium (Sat Paste)	0.422	meq/L	0.082	10	03/17/25 14:10	APB	29B
Sodium (Sat Paste)	11.9	meq/L	0.220	10	03/17/25 14:10	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA 70583

Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 03/18/2025
Received : 03/05/2025



Report Number : **25-064-0033**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52352**

Matrix: **Solids**

Sample ID : **B-3 (1-2')**

Sampled: **2/25/2025 14:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	22.5	%	0.050	1	03/13/25 16:30	JMB	SW-DRYWT
% Saturation (Sat Paste)	106	%		1	03/14/25 14:50	TJL	29B
Electrical Conductivity (Sat Paste)	1.88	mmhos/cm		1	03/14/25 14:50	TJL	29B
Cation Exchange Capacity	32.5	meq/100g	0.100	10	03/17/25 19:42		29B
Exchangeable Sodium Percentage	6.02	%	0.100	1	03/14/25 14:50		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	11.1	Calc	0.050	10	03/17/25 14:14		29B
Calcium (Sat Paste)	2.06	meq/L	0.050	10	03/17/25 14:14	APB	29B
Magnesium (Sat Paste)	1.02	meq/L	0.082	10	03/17/25 14:14	APB	29B
Sodium (Sat Paste)	13.8	meq/L	0.220	10	03/17/25 14:14	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA 70583

Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 03/18/2025
Received : 03/05/2025



Report Number : **25-064-0033**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52355**

Matrix: **Solids**

Sample ID : **B-5 (0-1')**

Sampled: **2/25/2025 15:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	21.3	%	0.050	1	03/13/25 16:30	JMB	SW-DRYWT
% Saturation (Sat Paste)	82.6	%		1	03/14/25 14:50	TJL	29B
Electrical Conductivity (Sat Paste)	3.43	mmhos/cm		1	03/14/25 14:50	TJL	29B
Cation Exchange Capacity	18.6	meq/100g	0.100	10	03/17/25 19:46		29B
Exchangeable Sodium Percentage	14.7	%	0.100	1	03/14/25 14:50		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	31.9	Calc	0.050	10	03/17/25 14:31		29B
Calcium (Sat Paste)	1.10	meq/L	0.050	10	03/17/25 14:31	APB	29B
Magnesium (Sat Paste)	0.526	meq/L	0.082	10	03/17/25 14:31	APB	29B
Sodium (Sat Paste)	28.8	meq/L	0.220	10	03/17/25 14:31	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA 70583

Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 03/18/2025
Received : 03/05/2025



Report Number : **25-064-0033**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52356**

Matrix: **Solids**

Sample ID : **B-5 (1-2')**

Sampled: **2/25/2025 15:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.8	%	0.050	1	03/13/25 16:30	JMB	SW-DRYWT
% Saturation (Sat Paste)	73.0	%		1	03/14/25 14:50	TJL	29B
Electrical Conductivity (Sat Paste)	4.10	mmhos/cm		1	03/14/25 14:50	TJL	29B
Cation Exchange Capacity	21.4	meq/100g	0.100	10	03/17/25 19:50		29B
Exchangeable Sodium Percentage	9.17	%	0.100	1	03/14/25 14:50		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	18.9	Calc	0.050	10	03/17/25 14:35		29B
Calcium (Sat Paste)	3.52	meq/L	0.050	10	03/17/25 14:35	APB	29B
Magnesium (Sat Paste)	1.91	meq/L	0.082	10	03/17/25 14:35	APB	29B
Sodium (Sat Paste)	31.2	meq/L	0.220	10	03/17/25 14:35	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 25-064-0033

QC Prep:	A100764	QC Analytical Batch(es):	A100867
QC Prep Batch Method:	LA 29B CEC (PREP)	Analysis Method:	29B
		Analysis Description:	Cation Exchange Capacity

Lab Reagent Blank LRB-A100764 Matrix: SOL
Associated Lab Samples: 52347, 52348, 52349, 52350, 52351, 52352, 52355, 52356

Parameter	Units	Blank Result	ML	Analyzed
Total Sodium CEC	mg/Kg	< 100	100	03/17/25 18:37

Duplicate A 52350-A100724-DUP-A100764

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Sodium CEC	mg/Kg	4430	4560	2.8	30.0	03/17/25 19:34

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 25-064-0033

QC Prep: A100765

QC Prep Batch Method: 29B

QC Analytical Batch(es): A100868

Analysis Method: 29B

Analysis Description: Exchangeable Sodium Percentage

Duplicate A 52350-A100724-DUP-A100765

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Sodium ESP	meq/100g	3.22	3.09	4.1	30.0	03/17/25 21:09

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 25-064-0033

QC Prep:	A100762	QC Analytical Batch(es):	A100863,A100865
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 52369-A100760-DUP-A100762

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Saturation (Sat Paste)	%	92.1	91.7	0.4	30.0	03/14/25 14:50
Electrical Conductivity (Sat Paste)	mmhos/cm	21.2	21.7	2.3	30.0	03/14/25 14:50

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 25-064-0033

QC Prep:	A100762	QC Analytical Batch(es):	A100863,A100865
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 52369-A100760-DUP-A100762

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Calcium (Sat Paste)	meq/L	4.37	4.73	7.9	30.0	03/17/25 14:51
Magnesium (Sat Paste)	meq/L	1.33	1.39	4.4	30.0	03/17/25 14:51
Sodium (Sat Paste)	meq/L	199	205	2.9	30.0	03/17/25 14:51

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 25-064-0033

QC Analytical Batch: A100651

Analysis Method: SW-DRYWT

Analysis Description: Dry Weight Determination

Duplicate A 52276-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	26.4	26.4	0.0	20.0	03/12/25 16:20

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 25-064-0033

QC Analytical Batch: A100652
Analysis Method: SW-DRYWT
Analysis Description: Dry Weight Determination

Duplicate A 52352-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	22.5	22.8	1.3	20.0	03/13/25 16:30

Shipment Receipt Form

Customer Number: **09996**

Customer Name: **Hydro-Environmental Technology, Inc.**

Report Number: **25-064-0033**

Shipping Method

☐ Fed Ex	☐ US Postal	☒ Lab	☐ Other :	
☐ UPS	☐ Client	☐ Courier	Thermometer ID:	IR 2

Shipping container/cooler uncompromised?	☒ Yes	☐ No
Number of coolers/boxes received	1	
Custody seals intact on shipping container/cooler?	☐ Yes	☐ No ☒ Not Present
Custody seals intact on sample bottles?	☐ Yes	☐ No ☒ Not Present
Chain of Custody (COC) present?	☒ Yes	☐ No
COC agrees with sample label(s)?	☒ Yes	☐ No
COC properly completed	☒ Yes	☐ No
Samples in proper containers?	☒ Yes	☐ No
Sample containers intact?	☒ Yes	☐ No
Sufficient sample volume for indicated test(s)?	☒ Yes	☐ No
All samples received within holding time?	☒ Yes	☐ No
Cooler temperature in compliance?	☒ Yes	☐ No ☐ Not Present
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	☒ Yes	☐ No
Water - Sample containers properly preserved	☐ Yes	☐ No ☒ N/A
Water - VOA vials free of headspace	☐ Yes	☐ No ☒ N/A
Trip Blanks received with VOAs	☐ Yes	☐ No ☒ N/A
Soil VOA method 5035 – compliance criteria met	☐ Yes	☐ No ☒ N/A
☐ High concentration container (48 hr)	☐ Low concentration EnCore samplers (48 hr)	
☐ High concentration pre-weighed (methanol -14 d)	☐ Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	☐ Yes	☒ No

Comments:

Signature:

Brandi Hidalgo

Date & Time:

03/05/2025 14:59:00



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.

Environmental C

P.O. Box 6

Lafayette, LA 70

Phone (337) 261-1963 F

Hydro-Environmental Technology, Inc.
Gastal

25-064-0033

09996

03-06-2025

07:59:36

SAMPLE CHAIN-OF-CU

Project Name: Gastal
Project Number: 1705.A37
Project Location: Morse, LA

Laboratory: Waypoint
Collected By: TW
Company: Hydro-Environmental Technology, Inc.
Date: 2/25/2025

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
B-1 (0-1') 52347	SO	2/25/2025	1015	(1) 16oz Jar	EC, ESP, SAR	4°C
B-1 (1-2') 52348	SO	2/25/2025	1015	(1) 16oz Jar	EC, ESP, SAR	4°C
B-2 (0-1') 52349	SO	2/25/2025	1420	(1) 16oz Jar	EC, ESP, SAR	4°C
B-2 (1-2') 52350	SO	2/25/2025	1420	(1) 16oz Jar	EC, ESP, SAR	4°C
B-3 (0-1') 52351	SO	2/25/2025	1445	(1) 16oz Jar	EC, ESP, SAR	4°C

HOLD for possible analysis of additional parameters

Relinquished By: <u>[Signature]</u>	Received By: <u>P. Howard</u>
Date/Time: <u>3/5/25 0840</u>	Date/Time: <u>3-5-25 0840</u>
Relinquished By: <u>P. Howard</u>	Received By: <u>Kathy Hendrix</u>
Date/Time: <u>3-5-25 0950</u>	Date/Time: <u>03/05/25 0950</u>
Analysis Due: Verbal <u>[Signature]</u>	Written: <u>[Signature]</u>
Rec'd by: <u>3/5/25/25</u>	Relinquish by: <u>3/5/25/25</u>



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
Environmental Consultants
P.O. Box 60295
Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastal Laboratory: Waypoint
Project Number: 1705.A37 Collected By: TW
Project Location: Morse, LA Company: Hydro-Environmental Technology, Inc.
Date: 2/25/2025

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
B-3 (1-2') 52352	SO	2/25/2025	1445	(1) 16oz Jar	EC, ESP, SAR	4°C
B-4 (0-1') 52353	SO	2/25/2025	1500	(1) 16oz Jar	HOLD: EC, ESP, SAR	4°C
B-4 (1-2') 52354	SO	2/25/2025	1500	(1) 16oz Jar	HOLD: EC, ESP, SAR	4°C
B-5 (0-1') 52355	SO	2/25/2025	1520	(1) 16oz Jar	EC, ESP, SAR	4°C
B-5 (1-2') 52356	SO	2/25/2025	1520	(1) 16oz Jar	EC, ESP, SAR	4°C

HOLD for possible analysis of additional parameters

Relinquished By: <u>Todd Webb</u>	Received By: <u>A. Howard</u>
Date/Time: <u>3/5/25 0840</u>	Date/Time: <u>3-5-25 0840</u>
Relinquished By: <u>P. Howard</u>	Received By: <u>Kathy Dendrix</u>
Date/Time: <u>3-5-25 0950</u>	Date/Time: <u>03/05/25 0950</u>
Analysis Due: <u>Verbal</u>	Relinquished By: <u>Kathy Dendrix</u>
Relinquished By: <u>3/5/25 1245</u>	Date/Time: <u>03/05/25 1245</u>
Relinquished By: <u>3/5/25 1459</u>	Date/Time: <u>3/5/25 1459</u>

3/27/2025

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA, 70583

Ref: Report Number: 25-073-0011
Project Description: Gastal
1705.A37
Morse, LA

Dear Mr. Stewart Stover, Jr.:

Waypoint Analytical Louisiana, Inc. received sample(s) on 3/14/2025 for the analyses presented in the following report. The above referenced project has been analyzed per your instructions. Unless otherwise noted, the analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance. Analyses reported which indicate "Field" for these parameters were analyzed by the client in the field. Results for solid samples are reported on an as received or "wet weight" basis unless otherwise specified.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

All quality control measures undertaken in accordance with Waypoint Analytical Louisiana, Inc. CompQAP990807A and revisions under the terms of the Louisiana Environmental Laboratory Accreditation Program (Certificate #02041) are within acceptance ranges established in that document with the exception of the items indicated and/or discussed in a Case Narrative.

The results are shown on the attached analysis sheet(s). Be aware that the time analyzed for certain samples (e.g. - BOD, CBOD, etc.) refer to the time the sample batch was begun and not necessarily to the time an individual sample was begun. Thank you for allowing Waypoint Analytical Louisiana, Inc. to serve you. Should I be of further assistance, if you have any questions or need additional information please contact me or client services.

Sincerely,



Amy Jackson
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis. This report may be reproduced in full only with the written permission of the laboratory and/or the entity to which it is addressed. Results contained herein relate only to the sample(s) submitted to the laboratory.



Certification Summary

Laboratory ID: WP MLA: Waypoint Analytical Louisiana, Inc., Marrero, LA

State	Program	Lab ID	Expiration Date
Georgia	State Program	02041	06/30/2025
Louisiana	State Program - NELAP	02041	06/30/2025



Sample Summary Table

Report Number: 25-073-0011

Client Project Description: Gastal
1705.A37
Morse, LA

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
52889	B-5 (56-58')	Solids	03/11/2025 15:20	03/14/2025 13:26
52890	B-5 (58-60')	Solids	03/11/2025 15:30	03/14/2025 13:26
52891	B-1 (52-54')	Solids	03/12/2025 10:55	03/14/2025 13:26
52892	B-1 (58-60')	Solids	03/13/2025 10:40	03/14/2025 13:26
52893	B-1 (58-60')	SPLP	03/13/2025 10:40	03/14/2025 13:26
52894	B-1 (62-64')	Solids	03/13/2025 11:30	03/14/2025 13:26



Client: Hydro-Environmental Technology, Inc.
Project: Gastal
Lab Report Number: 25-073-0011
Date: 3/27/2025

CASE NARRATIVE

Methods

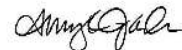
Methods reported as 29B are from the Laboratory Procedures for Analysis of Exploration & Production Waste – LDNR Office of Conservation Injection and Mining Division – Revised 11/2011.

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA 70583

Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 03/27/2025
Received : 03/14/2025



Report Number : **25-073-0011**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52890**

Matrix: **Solids**

Sample ID : **B-5 (58-60')**

Sampled: **3/11/2025 15:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	26.6	%	0.050	1	03/21/25 15:00	TJL	SW-DRYWT
% Saturation (Sat Paste)	78.0	%		1	03/24/25 09:50	APB	29B
Alkalinity (Sat Paste)	3.8	meq/L	0.3	1	03/25/25 11:45	APB	29B
Chloride (Sat Paste)	1.96	meq/L	0.010	5	03/26/25 15:30	MJM	29B
Chloride	24.2	mg/Kg	20.0	5	03/26/25 00:01	MJM	9056A
Electrical Conductivity (Sat Paste)	0.859	mmhos/cm		1	03/24/25 09:50	APB	29B
pH (Sat Paste)	8.49	s.u.		1	03/24/25 09:50	APB	29B
Sulfate (Sat Paste)	2.43	meq/L	0.010	5	03/26/25 15:30	MJM	29B
Calcium (Sat Paste)	2.57	meq/L	0.025	5	03/24/25 12:06	APB	29B
Magnesium (Sat Paste)	1.25	meq/L	0.041	5	03/24/25 12:06	APB	29B
Sodium (Sat Paste)	4.50	meq/L	0.110	5	03/24/25 12:06	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA 70583

Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 03/27/2025
Received : 03/14/2025



Report Number : **25-073-0011**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52892**

Matrix: **Solids**

Sample ID : **B-1 (58-60')**

Sampled: **3/13/2025 10:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	24.6	%	0.050	1	03/24/25 12:30	TJL	SW-DRYWT
% Saturation (Sat Paste)	42.7	%		1	03/24/25 09:50	APB	29B
Alkalinity (Sat Paste)	1.8	meq/L	0.3	1	03/25/25 11:45	APB	29B
Chloride (Sat Paste)	89.2	meq/L	0.014	50	03/26/25 15:42	MJM	29B
Chloride	1510	mg/Kg	20.0	5	03/26/25 08:42	MJM	9056A
Electrical Conductivity (Sat Paste)	9.14	mmhos/cm		1	03/24/25 09:50	APB	29B
pH (Sat Paste)	7.57	s.u.		1	03/24/25 09:50	APB	29B
Sulfate (Sat Paste)	0.592	meq/L	0.010	50	03/26/25 15:42	MJM	29B
Calcium (Sat Paste)	26.5	meq/L	0.050	10	03/24/25 12:10	APB	29B
Magnesium (Sat Paste)	13.1	meq/L	0.082	10	03/24/25 12:10	APB	29B
Sodium (Sat Paste)	46.5	meq/L	0.220	10	03/24/25 12:10	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

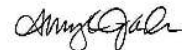
Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA 70583

Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 03/27/2025
Received : 03/14/2025



Report Number : **25-073-0011**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52893**

Matrix: **SPLP**

Sample ID : **B-1 (58-60')**

Sampled: **3/13/2025 10:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
SPLP Extraction	Leachate			1	03/17/25 16:30	HLF	1312
SPLP Chloride	66.0	mg/L	0.800	2	03/19/25 19:30	MJM	9056
SPLP Sodium	37.6	mg/L	0.500	1	03/20/25 14:42	APB	6010D

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA 70583

Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 03/27/2025
Received : 03/14/2025



Report Number : **25-073-0011**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52894**

Matrix: **Solids**

Sample ID : **B-1 (62-64')**

Sampled: **3/13/2025 11:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	21.5	%	0.050	1	03/24/25 12:30	TJL	SW-DRYWT
% Saturation (Sat Paste)	31.6	%		1	03/24/25 09:50	APB	29B
Alkalinity (Sat Paste)	2.6	meq/L	0.3	1	03/25/25 11:45	APB	29B
Chloride (Sat Paste)	3.30	meq/L	0.010	5	03/26/25 15:55	MJM	29B
Chloride	28.5	mg/Kg	20.0	5	03/26/25 08:55	MJM	9056A
Electrical Conductivity (Sat Paste)	0.872	mmhos/cm		1	03/24/25 09:50	APB	29B
pH (Sat Paste)	7.86	s.u.		1	03/24/25 09:50	APB	29B
Sulfate (Sat Paste)	2.20	meq/L	0.010	5	03/26/25 15:55	MJM	29B
Calcium (Sat Paste)	2.31	meq/L	0.025	5	03/24/25 12:14	APB	29B
Magnesium (Sat Paste)	1.05	meq/L	0.041	5	03/24/25 12:14	APB	29B
Sodium (Sat Paste)	4.64	meq/L	0.110	5	03/24/25 12:14	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 25-073-0011

QC Prep:	A101002	QC Analytical Batch(es):	A101126,A101176,A101108,A101128
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Alkalinity

Duplicate A 52594-A100999-DUP-A101002

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Alkalinity (Sat Paste)	meq/L	4.4	4.8	8.6	30.0	03/25/25 11:45

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 25-073-0011

QC Prep:	A101002	QC Analytical Batch(es):	A101126,A101176,A101108,A101128
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Anions by Ion Chromatography

Duplicate A 52594-A100999-DUP-A101002

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Chloride (Sat Paste)	meq/L	11.1	12.6	12.6	30.0	03/26/25 13:26
Sulfate (Sat Paste)	meq/L	0.855	0.890	4.0	30.0	03/26/25 13:26

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 25-073-0011

QC Prep:	A101002	QC Analytical Batch(es):	A101126,A101176,A101108,A101128
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 52594-A100999-DUP-A101002

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Saturation (Sat Paste)	%	69.2	69.2	0.0	30.0	03/24/25 09:50
Electrical Conductivity (Sat Paste)	mmhos/cm	1.71	1.91	11.0	30.0	03/24/25 09:50
pH (Sat Paste)	s.u.	7.87	8.04	2.1	30.0	03/24/25 09:50

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 25-073-0011

QC Prep:	A101002	QC Analytical Batch(es):	A101126,A101176,A101108,A101128
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 52594-A100999-DUP-A101002

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Calcium (Sat Paste)	meq/L	5.43	6.01	10.1	30.0	03/24/25 11:17
Magnesium (Sat Paste)	meq/L	2.68	3.00	11.2	30.0	03/24/25 11:17
Sodium (Sat Paste)	meq/L	6.69	7.35	9.4	30.0	03/24/25 11:17

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 25-073-0011

QC Prep: A100967 **QC Analytical Batch(es):** A101045
QC Prep Batch Method: SW-3010A **Analysis Method:** 6010D
Analysis Description: Metals Analysis (SPLP)

Lab Reagent Blank LRB-A100967 Matrix: TCL
Associated Lab Samples: 52893

Parameter	Units	Blank Result	MQL	Analyzed
SPLP Sodium	mg/L	< 0.500	0.500	03/20/25 14:13

Laboratory Control Sample & LCSD LCS-A100967 LCSD-A100967

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
SPLP Sodium	mg/L	10.0	9.92	10.1	99.0	101	80-120	1.7	20.0

Matrix Spike & Matrix Spike Duplicate A 52893-MS-A100967 A 52893-MSD-A100967

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
SPLP Sodium	mg/L	37.6	10.0	10.0	48.5	48.5	109	109	75-125	0.0	20.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 25-073-0011

QC Prep: A100989 **QC Analytical Batch(es):** A101029
QC Prep Batch Method: SW-9056A (PREP) **Analysis Method:** 9056
Analysis Description: Anions by Ion Chromatography (SPLP)

Lab Reagent Blank LRB-A100989 Matrix: TCL
Associated Lab Samples: 52893

Parameter	Units	Blank Result	MQL	Analyzed
SPLP Chloride	mg/L	< 0.400	0.400	03/19/25 18:53

Laboratory Control Sample LCS-A100989

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
SPLP Chloride	mg/L	55.6	59.2	107	80-120

Matrix Spike & Matrix Spike Duplicate A 52893-MS-A100989 A 52893-MSD-A100989

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
SPLP Chloride	mg/L	66.0	55.6	55.6	124	125	104	106	80-120	0.8	20.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 25-073-0011

QC Prep:	A101193	QC Analytical Batch(es):	A101219
QC Prep Batch Method:	SW-9056A (PREP)	Analysis Method:	9056A
		Analysis Description:	Anions by Ion Chromatography

Lab Reagent Blank LRB-A101193 Matrix: SOL
Associated Lab Samples: 52890, 52892, 52894

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/Kg	< 4.00	4.00	03/25/25 23:36

Laboratory Control Sample LCS-A101193

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Chloride	mg/Kg	500	492	98.0	80-120

Matrix Spike & Matrix Spike Duplicate A 52890-MS-A101193 A 52890-MSD-A101193

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Chloride	mg/Kg	24.2	498	488	518	511	99.0	100	80-120	1.3	15.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 25-073-0011

QC Analytical Batch: A101146

Analysis Method: SW-DRYWT

Analysis Description: Dry Weight Determination

Duplicate A 52606-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	16.0	16.3	1.8	20.0	03/21/25 15:00

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 25-073-0011

QC Analytical Batch: A101150

Analysis Method: SW-DRYWT

Analysis Description: Dry Weight Determination

Duplicate A 53328-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	16.8	15.3	9.3	20.0	03/24/25 12:30

Shipment Receipt Form

Customer Number: **09996**

Customer Name: **Hydro-Environmental Technology, Inc.**

Report Number: **25-073-0011**

Shipping Method

☐ Fed Ex	☐ US Postal	☒ Lab	☐ Other :	
☐ UPS	☐ Client	☐ Courier	Thermometer ID:	IR 2

Shipping container/cooler uncompromised?	☒ Yes	☐ No
Number of coolers/boxes received	1	
Custody seals intact on shipping container/cooler?	☐ Yes	☐ No ☒ Not Present
Custody seals intact on sample bottles?	☐ Yes	☐ No ☒ Not Present
Chain of Custody (COC) present?	☒ Yes	☐ No
COC agrees with sample label(s)?	☒ Yes	☐ No
COC properly completed	☒ Yes	☐ No
Samples in proper containers?	☒ Yes	☐ No
Sample containers intact?	☒ Yes	☐ No
Sufficient sample volume for indicated test(s)?	☒ Yes	☐ No
All samples received within holding time?	☒ Yes	☐ No
Cooler temperature in compliance?	☒ Yes	☐ No ☐ Not Present
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	☒ Yes	☐ No
Water - Sample containers properly preserved	☐ Yes	☐ No ☒ N/A
Water - VOA vials free of headspace	☐ Yes	☐ No ☒ N/A
Trip Blanks received with VOAs	☐ Yes	☐ No ☒ N/A
Soil VOA method 5035 – compliance criteria met	☐ Yes	☐ No ☒ N/A
☐ High concentration container (48 hr)	☐ Low concentration EnCore samplers (48 hr)	
☐ High concentration pre-weighed (methanol -14 d)	☐ Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	☐ Yes	☒ No

Comments:

Signature:

Brandi Hidalgo

Date & Time:

03/14/2025 13:26:00



HYDRO-ENVIRONMENTAL
Environmental Co
P.O. Box 60
Lafayette, LA 70
Phone (337) 261-1963 F/



Hydro-Environmental Technology, Inc.
Gastal

25-073-0011
09996
03-14-2025
13:19:49

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastal Laboratory: Waypoint
Project Number: 1705.A37 Collected By: TW/AG
Project Location: Morse, LA Company: Hydro-Environmental Technology, Inc.
Date: 3/11/2025

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
B-5 (56-58') 52889	SO	3/11/2025	1520	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-5 (58-60') 52890	SO	3/11/2025	1530	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-1 (52-54') 52891	SO	3/12/2025	1055	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-1 (58-60') 52892-52893	SO	3/13/2025	1040	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*, SPLP Chloride and Sodium	4°C
B-1 (62-64') 52894	SO	3/13/2025	1130	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

1.8°C

Relinquished By: <u>Todd Webb</u>	Received By: <u>P. Newman</u>
Date/Time: <u>3/14/25 @ 810</u>	Date/Time: <u>3-14-25 810</u>
Relinquished By: <u>P. Newman</u>	Received By: <u>[Signature]</u>
Date/Time: <u>3-14-25 920</u>	Date/Time: <u>3/14/25 @ 0920</u>
Analysis Due: Verbal:	Written:

REL: [Signature] 3/14/25 @ 1326

Brona Hidalgo 3-14-25
1326

4/4/2025

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA, 70583

Ref: Report Number: 25-064-0034
Project Description: Gastal
1705.A37
Morse, LA

Dear Mr. Stewart Stover, Jr.:

Waypoint Analytical Louisiana, Inc. received sample(s) on 3/5/2025 for the analyses presented in the following report. The above referenced project has been analyzed per your instructions. Unless otherwise noted, the analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance. Analyses reported which indicate "Field" for these parameters were analyzed by the client in the field. Results for solid samples are reported on an as received or "wet weight" basis unless otherwise specified.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

All quality control measures undertaken in accordance with Waypoint Analytical Louisiana, Inc. CompQAP990807A and revisions under the terms of the Louisiana Environmental Laboratory Accreditation Program (Certificate #02041) are within acceptance ranges established in that document with the exception of the items indicated and/or discussed in a Case Narrative.

The results are shown on the attached analysis sheet(s). Be aware that the time analyzed for certain samples (e.g. - BOD, CBOD, etc.) refer to the time the sample batch was begun and not necessarily to the time an individual sample was begun. Thank you for allowing Waypoint Analytical Louisiana, Inc. to serve you. Should I be of further assistance, if you have any questions or need additional information please contact me or client services.

Sincerely,



Amy Jackson
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis. This report may be reproduced in full only with the written permission of the laboratory and/or the entity to which it is addressed. Results contained herein relate only to the sample(s) submitted to the laboratory.



Certification Summary

Laboratory ID: WP MLA: Waypoint Analytical Louisiana, Inc., Marrero, LA

State	Program	Lab ID	Expiration Date
Georgia	State Program	02041	06/30/2025
Louisiana	State Program - NELAP	02041	06/30/2025

Sample Summary Table

Report Number: 25-064-0034

Client Project Description: Gastal
1705.A37
Morse, LA

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
52368	B-1 (12-14')	Solids	02/25/2025 10:30	03/05/2025 14:59
52369	B-1 (14-16')	Solids	02/25/2025 10:30	03/05/2025 14:59
52370	B-1 (24-26')	Solids	02/25/2025 11:05	03/05/2025 14:59
52371	B-1 (38-40')	Solids	02/25/2025 11:30	03/05/2025 14:59
52372	B-1 (42-44')	Solids	02/25/2025 12:05	03/05/2025 14:59
52373	SE-SB-06R (4-6')	Solids	02/25/2025 14:05	03/05/2025 14:59
52374	SE-SB-06R (6-8')	Solids	02/25/2025 14:10	03/05/2025 14:59
52375	B-6 (12-14')	Solids	02/26/2025 10:15	03/05/2025 14:59
52376	B-6 (14-16')	Solids	02/26/2025 10:15	03/05/2025 14:59
52377	B-6 (18-20')	Solids	02/26/2025 10:20	03/05/2025 14:59
52378	B-6 (32-34')	Solids	02/26/2025 10:50	03/05/2025 14:59
52379	B-6 (40-42')	Solids	02/26/2025 11:05	03/05/2025 14:59
52380	B-6 (46-48')	Solids	02/26/2025 11:15	03/05/2025 14:59
52381	B-7 (2-4')	Solids	02/26/2025 13:15	03/05/2025 14:59
52382	B-7 (12-14')	Solids	02/26/2025 13:30	03/05/2025 14:59
52383	B-7 (18-20')	Solids	02/26/2025 13:35	03/05/2025 14:59
52384	B-7 (30-32')	Solids	02/26/2025 13:50	03/05/2025 14:59
52385	B-7 (44-46')	Solids	02/26/2025 14:15	03/05/2025 14:59
52386	B-5 (12-14')	Solids	02/27/2025 09:55	03/05/2025 14:59
52387	B-5 (14-16')	Solids	02/27/2025 09:55	03/05/2025 14:59
52388	B-5 (18-20')	Solids	02/27/2025 10:00	03/05/2025 14:59
52389	B-5 (28-30')	Solids	02/27/2025 10:15	03/05/2025 14:59
52390	B-5 (34-36')	Solids	02/27/2025 10:25	03/05/2025 14:59
52391	B-5 (48-50')	Solids	02/27/2025 10:50	03/05/2025 14:59
52392	B-5 (50-51.5')	Solids	02/27/2025 10:50	03/05/2025 14:59
52393	B-4 (6-8')	Solids	02/27/2025 13:10	03/05/2025 14:59

Sample Summary Table

Report Number: 25-064-0034

Client Project Description: Gastal
1705.A37
Morse, LA

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
52394	B-4 (14-16')	Solids	02/27/2025 13:20	03/05/2025 14:59
52395	B-4 (16-18')	Solids	02/27/2025 13:25	03/05/2025 14:59
52396	B-4 (30-32')	Solids	02/27/2025 13:45	03/05/2025 14:59
52397	B-4 (34-36')	Solids	02/27/2025 13:55	03/05/2025 14:59
52398	B-4 (36-38.5')	Solids	02/27/2025 14:15	03/05/2025 14:59
52399	B-8 (10-12')	Solids	02/28/2025 10:00	03/05/2025 14:59
52400	B-8 (16-18')	Solids	02/28/2025 10:15	03/05/2025 14:59
52401	B-8 (24-26')	Solids	02/28/2025 10:30	03/05/2025 14:59
52402	B-8 (34-36')	Solids	02/28/2025 10:40	03/05/2025 14:59
52403	B-8 (42-44')	Solids	02/28/2025 11:00	03/05/2025 14:59
52404	B-5 (52-54')	Solids	03/03/2025 10:35	03/05/2025 14:59
52405	B-5 (54-56')	Solids	03/03/2025 10:35	03/05/2025 14:59
52406	B-1 (40-42')	Solids	03/03/2025 13:30	03/05/2025 14:59
52407	B-1 (44-46')	Solids	03/03/2025 13:55	03/05/2025 14:59
52411	B-1 (48-50')	Solids	03/03/2025 14:30	03/05/2025 14:59
52412	B-1 (50-52')	Solids	03/03/2025 14:35	03/05/2025 14:59
53697	B-5 (34-36')	SPLP	02/27/2025 10:25	03/05/2025 14:59
53698	B-1 (14-16')	SPLP	02/25/2025 10:30	03/05/2025 14:59
53699	B-1 (24-26')	SPLP	02/25/2025 11:05	03/05/2025 14:59



Client: Hydro-Environmental Technology, Inc.
Project: Gastal
Lab Report Number: 25-064-0034
Date: 4/4/2025

CASE NARRATIVE

Methods

Methods reported as 29B are from the Laboratory Procedures for Analysis of Exploration & Production Waste – LDNR Office of Conservation Injection and Mining Division – Revised 11/2011.

Results

- 6010D/7471A metals are reported AR - As Received by adjusting the data using the percent moisture result.

Metals Analysis Method 6010D

Sample 52233

Analyte: Arsenic

QC Batch No: A100920/A100774

The matrix spike and/or the matrix spike duplicate was outside quality control acceptance ranges. A post digestion spike was performed and passed quality control acceptance ranges. No matrix interference is suspected.

Metals Analysis (SPLP) Method 6010D

Sample 53699 (B-1 (24-26'))

Analyte: Sodium

QC Batch No: A101493/A101410

The matrix spike and/or the matrix spike duplicate was outside quality control acceptance ranges. A dilution test was performed and passed quality control acceptance ranges. No matrix interference is suspected.

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA 70583

Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 04/04/2025
Received : 03/05/2025



Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52369**

Matrix: **Solids**

Sample ID : **B-1 (14-16')**

Sampled: **2/25/2025 10:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	23.5	%	0.050	1	03/13/25 16:30	JMB	SW-DRYWT
% Saturation (Sat Paste)	92.1	%		1	03/14/25 14:50	TJL	29B
Alkalinity (Sat Paste)	1.2	meq/L	0.3	1	03/20/25 11:30	APB	29B
Chloride (Sat Paste)	213	meq/L	0.028	100	03/18/25 18:30	MJM	29B
Chloride	5160	mg/Kg	40.0	10	03/21/25 10:53	MJM	9056A
Electrical Conductivity (Sat Paste)	21.2	mmhos/cm		1	03/14/25 14:50	TJL	29B
pH (Sat Paste)	8.09	s.u.		1	03/14/25 14:50	TJL	29B
Sulfate (Sat Paste)	0.661	meq/L	0.020	100	03/18/25 18:30	MJM	29B
Calcium (Sat Paste)	4.37	meq/L	0.100	20	03/17/25 14:47	APB	29B
Magnesium (Sat Paste)	1.33	meq/L	0.164	20	03/17/25 14:47	APB	29B
Sodium (Sat Paste)	199	meq/L	0.440	20	03/17/25 14:47	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA 70583

Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 04/04/2025
Received : 03/05/2025



Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52370**

Matrix: **Solids**

Sample ID : **B-1 (24-26')**

Sampled: **2/25/2025 11:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.3	%	0.050	1	03/13/25 16:30	JMB	SW-DRYWT
% Saturation (Sat Paste)	61.4	%		1	03/14/25 14:50	TJL	29B
Alkalinity (Sat Paste)	1.3	meq/L	0.3	1	03/20/25 11:30	APB	29B
Chloride (Sat Paste)	223	meq/L	0.028	100	03/18/25 18:55	MJM	29B
Chloride	4480	mg/Kg	40.0	10	03/21/25 11:30	MJM	9056A
Electrical Conductivity (Sat Paste)	22.1	mmhos/cm		1	03/14/25 14:50	TJL	29B
pH (Sat Paste)	7.86	s.u.		1	03/14/25 14:50	TJL	29B
Sulfate (Sat Paste)	0.475	meq/L	0.020	100	03/18/25 18:55	MJM	29B
Calcium (Sat Paste)	7.53	meq/L	0.100	20	03/17/25 14:55	APB	29B
Magnesium (Sat Paste)	2.52	meq/L	0.164	20	03/17/25 14:55	APB	29B
Sodium (Sat Paste)	203	meq/L	0.440	20	03/17/25 14:55	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

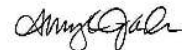
J Estimated value

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA 70583

Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 04/04/2025
Received : 03/05/2025



Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52371**

Matrix: **Solids**

Sample ID : **B-1 (38-40')**

Sampled: **2/25/2025 11:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	5.03	%	0.050	1	03/13/25 16:30	JMB	SW-DRYWT
% Saturation (Sat Paste)	23.2	%		1	03/14/25 14:50	TJL	29B
Alkalinity (Sat Paste)	1.3	meq/L	0.3	1	03/20/25 11:30	APB	29B
Chloride (Sat Paste)	28.3	meq/L	0.010	20	03/18/25 19:07	MJM	29B
Chloride	401	mg/Kg	20.0	5	03/21/25 11:42	MJM	9056A
Electrical Conductivity (Sat Paste)	3.24	mmhos/cm		1	03/14/25 14:50	TJL	29B
pH (Sat Paste)	7.66	s.u.		1	03/14/25 14:50	TJL	29B
Sulfate (Sat Paste)	1.11	meq/L	0.010	20	03/18/25 19:07	MJM	29B
Calcium (Sat Paste)	5.90	meq/L	0.050	10	03/17/25 14:59	APB	29B
Magnesium (Sat Paste)	2.32	meq/L	0.082	10	03/17/25 14:59	APB	29B
Sodium (Sat Paste)	20.8	meq/L	0.220	10	03/17/25 14:59	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
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Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 04/04/2025
Received : 03/05/2025



Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52372**

Matrix: **Solids**

Sample ID : **B-1 (42-44')**

Sampled: **2/25/2025 12:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.9	%	0.050	1	03/13/25 16:30	JMB	SW-DRYWT
% Saturation (Sat Paste)	37.7	%		1	03/14/25 14:50	TJL	29B
Alkalinity (Sat Paste)	2.8	meq/L	0.3	1	03/20/25 11:30	APB	29B
Chloride (Sat Paste)	11.0	meq/L	0.010	5	03/18/25 19:20	MJM	29B
Chloride	122	mg/Kg	20.0	5	03/21/25 11:55	MJM	9056A
Electrical Conductivity (Sat Paste)	1.72	mmhos/cm		1	03/14/25 14:50	TJL	29B
pH (Sat Paste)	8.14	s.u.		1	03/14/25 14:50	TJL	29B
Sulfate (Sat Paste)	2.30	meq/L	0.010	5	03/18/25 19:20	MJM	29B
Calcium (Sat Paste)	4.07	meq/L	0.050	10	03/17/25 15:03	APB	29B
Magnesium (Sat Paste)	2.03	meq/L	0.082	10	03/17/25 15:03	APB	29B
Sodium (Sat Paste)	9.29	meq/L	0.220	10	03/17/25 15:03	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

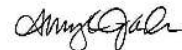
J Estimated value

09996

Hydro-Environmental Technology, Inc.
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Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 04/04/2025
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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52373**

Matrix: **Solids**

Sample ID : **SE-SB-06R (4-6')**

Sampled: **2/25/2025 14:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	20.8	%	0.050	1	03/13/25 16:30	JMB	SW-DRYWT
Total Arsenic	5.75	mg/Kg AR	2.00	2	03/18/25 20:34	APB	6010D

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

Hydro-Environmental Technology, Inc.
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Information : 1705.A37
Morse, LA

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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52374**

Matrix: **Solids**

Sample ID : **SE-SB-06R (6-8')**

Sampled: **2/25/2025 14:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.5	%	0.050	1	03/13/25 16:30	JMB	SW-DRYWT
Total Arsenic	5.07	mg/Kg AR	1.61	2	03/18/25 20:38	APB	6010D

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

Hydro-Environmental Technology, Inc.
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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52375**

Matrix: **Solids**

Sample ID : **B-6 (12-14')**

Sampled: **2/26/2025 10:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	28.9	%	0.050	1	03/13/25 16:30	JMB	SW-DRYWT
% Saturation (Sat Paste)	57.5	%		1	03/14/25 14:50	TJL	29B
Alkalinity (Sat Paste)	0.5	meq/L	0.3	1	03/20/25 11:30	APB	29B
Chloride (Sat Paste)	33.3	meq/L	0.010	20	03/18/25 19:32	MJM	29B
Chloride	541	mg/Kg	20.0	5	03/21/25 12:07	MJM	9056A
Electrical Conductivity (Sat Paste)	3.61	mmhos/cm		1	03/14/25 14:50	TJL	29B
pH (Sat Paste)	6.42	s.u.		1	03/14/25 14:50	TJL	29B
Sulfate (Sat Paste)	0.172	meq/L	0.010	20	03/18/25 19:32	MJM	29B
Calcium (Sat Paste)	5.71	meq/L	0.050	10	03/17/25 15:07	APB	29B
Magnesium (Sat Paste)	3.21	meq/L	0.082	10	03/17/25 15:07	APB	29B
Sodium (Sat Paste)	23.1	meq/L	0.220	10	03/17/25 15:07	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

Hydro-Environmental Technology, Inc.
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Project Gastal
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Report Date : 04/04/2025
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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52376**

Matrix: **Solids**

Sample ID : **B-6 (14-16')**

Sampled: **2/26/2025 10:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	20.6	%	0.050	1	03/20/25 12:25	TJL	SW-DRYWT
% Saturation (Sat Paste)	89.4	%		1	03/14/25 14:50	TJL	29B
Alkalinity (Sat Paste)	0.8	meq/L	0.3	1	03/20/25 11:30	APB	29B
Chloride (Sat Paste)	22.7	meq/L	0.010	10	03/18/25 19:44	MJM	29B
Chloride	460	mg/Kg	20.0	5	03/21/25 12:19	MJM	9056A
Electrical Conductivity (Sat Paste)	2.63	mmhos/cm		1	03/14/25 14:50	TJL	29B
pH (Sat Paste)	7.25	s.u.		1	03/14/25 14:50	TJL	29B
Sulfate (Sat Paste)	0.196	meq/L	0.010	10	03/18/25 19:44	MJM	29B
Calcium (Sat Paste)	6.16	meq/L	0.050	10	03/17/25 16:46	APB	29B
Magnesium (Sat Paste)	3.25	meq/L	0.082	10	03/17/25 16:46	APB	29B
Sodium (Sat Paste)	13.6	meq/L	0.220	10	03/17/25 16:46	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

Hydro-Environmental Technology, Inc.
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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52378**

Matrix: **Solids**

Sample ID : **B-6 (32-34')**

Sampled: **2/26/2025 10:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	16.0	%	0.050	1	03/20/25 12:25	TJL	SW-DRYWT
% Saturation (Sat Paste)	43.1	%		1	03/14/25 14:50	TJL	29B
Alkalinity (Sat Paste)	1.3	meq/L	0.3	1	03/20/25 11:30	APB	29B
Chloride (Sat Paste)	22.5	meq/L	0.010	10	03/18/25 19:57	MJM	29B
Chloride	194	mg/Kg	20.0	5	03/21/25 12:32	MJM	9056A
Electrical Conductivity (Sat Paste)	2.70	mmhos/cm		1	03/14/25 14:50	TJL	29B
pH (Sat Paste)	7.60	s.u.		1	03/14/25 14:50	TJL	29B
Sulfate (Sat Paste)	0.904	meq/L	0.010	10	03/18/25 19:57	MJM	29B
Calcium (Sat Paste)	10.7	meq/L	0.050	10	03/17/25 16:50	APB	29B
Magnesium (Sat Paste)	5.20	meq/L	0.082	10	03/17/25 16:50	APB	29B
Sodium (Sat Paste)	8.72	meq/L	0.220	10	03/17/25 16:50	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52380**

Matrix: **Solids**

Sample ID : **B-6 (46-48')**

Sampled: **2/26/2025 11:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	23.7	%	0.050	1	03/20/25 12:25	TJL	SW-DRYWT
% Saturation (Sat Paste)	70.3	%		1	03/14/25 14:50	TJL	29B
Alkalinity (Sat Paste)	2.3	meq/L	0.3	1	03/20/25 11:30	APB	29B
Chloride (Sat Paste)	3.24	meq/L	0.010	5	03/18/25 20:09	MJM	29B
Chloride	46.5	mg/Kg	20.0	5	03/21/25 12:44	MJM	9056A
Electrical Conductivity (Sat Paste)	0.740	mmhos/cm		1	03/14/25 14:50	TJL	29B
pH (Sat Paste)	8.40	s.u.		1	03/14/25 14:50	TJL	29B
Sulfate (Sat Paste)	0.989	meq/L	0.010	5	03/18/25 20:09	MJM	29B
Calcium (Sat Paste)	1.80	meq/L	0.025	5	03/17/25 16:54	APB	29B
Magnesium (Sat Paste)	0.861	meq/L	0.041	5	03/17/25 16:54	APB	29B
Sodium (Sat Paste)	4.39	meq/L	0.110	5	03/17/25 16:54	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

Hydro-Environmental Technology, Inc.
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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52381**

Matrix: **Solids**

Sample ID : **B-7 (2-4')**

Sampled: **2/26/2025 13:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.8	%	0.050	1	03/20/25 12:25	TJL	SW-DRYWT
% Saturation (Sat Paste)	92.7	%		1	03/14/25 14:50	TJL	29B
Alkalinity (Sat Paste)	1.3	meq/L	0.3	1	03/20/25 11:30	APB	29B
Chloride (Sat Paste)	12.9	meq/L	0.010	5	03/18/25 20:21	MJM	29B
Chloride	190	mg/Kg	20.0	5	03/21/25 13:33	MJM	9056A
Electrical Conductivity (Sat Paste)	1.65	mmhos/cm		1	03/14/25 14:50	TJL	29B
pH (Sat Paste)	6.87	s.u.		1	03/14/25 14:50	TJL	29B
Sulfate (Sat Paste)	1.07	meq/L	0.010	5	03/18/25 20:21	MJM	29B
Calcium (Sat Paste)	2.85	meq/L	0.050	10	03/17/25 16:58	APB	29B
Magnesium (Sat Paste)	1.41	meq/L	0.082	10	03/17/25 16:58	APB	29B
Sodium (Sat Paste)	10.3	meq/L	0.220	10	03/17/25 16:58	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

Hydro-Environmental Technology, Inc.
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Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 04/04/2025
Received : 03/05/2025



Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52383**

Matrix: **Solids**

Sample ID : **B-7 (18-20')**

Sampled: **2/26/2025 13:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	24.8	%	0.050	1	03/20/25 12:25	TJL	SW-DRYWT
% Saturation (Sat Paste)	128	%		1	03/14/25 14:50	TJL	29B
Alkalinity (Sat Paste)	3.2	meq/L	0.3	1	03/20/25 11:30	APB	29B
Chloride (Sat Paste)	3.70	meq/L	0.010	5	03/18/25 21:11	MJM	29B
Chloride	62.7	mg/Kg	20.0	5	03/21/25 13:46	MJM	9056A
Electrical Conductivity (Sat Paste)	0.928	mmhos/cm		1	03/14/25 14:50	TJL	29B
pH (Sat Paste)	8.25	s.u.		1	03/14/25 14:50	TJL	29B
Sulfate (Sat Paste)	1.82	meq/L	0.010	5	03/18/25 21:11	MJM	29B
Calcium (Sat Paste)	2.82	meq/L	0.025	5	03/17/25 17:02	APB	29B
Magnesium (Sat Paste)	1.28	meq/L	0.041	5	03/17/25 17:02	APB	29B
Sodium (Sat Paste)	4.69	meq/L	0.110	5	03/17/25 17:02	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

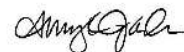
J Estimated value

09996

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Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 04/04/2025
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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52384**

Matrix: **Solids**

Sample ID : **B-7 (30-32')**

Sampled: **2/26/2025 13:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.9	%	0.050	1	03/20/25 12:25	TJL	SW-DRYWT
% Saturation (Sat Paste)	51.0	%		1	03/14/25 15:55	TJL	29B
Alkalinity (Sat Paste)	1.8	meq/L	0.3	1	03/21/25 15:30	APB	29B
Chloride (Sat Paste)	4.53	meq/L	0.010	5	03/18/25 21:23	MJM	29B
Chloride	53.2	mg/Kg	20.0	5	03/21/25 13:58	MJM	9056A
Electrical Conductivity (Sat Paste)	1.10	mmhos/cm		1	03/14/25 15:55	TJL	29B
pH (Sat Paste)	8.10	s.u.		1	03/14/25 15:55	TJL	29B
Sulfate (Sat Paste)	3.72	meq/L	0.010	5	03/18/25 21:23	MJM	29B
Calcium (Sat Paste)	5.04	meq/L	0.050	10	03/17/25 17:06	APB	29B
Magnesium (Sat Paste)	2.04	meq/L	0.082	10	03/17/25 17:06	APB	29B
Sodium (Sat Paste)	4.04	meq/L	0.220	10	03/17/25 17:06	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

Hydro-Environmental Technology, Inc.
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Project Gastal
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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52385**

Matrix: **Solids**

Sample ID : **B-7 (44-46')**

Sampled: **2/26/2025 14:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.2	%	0.050	1	03/20/25 12:25	TJL	SW-DRYWT
% Saturation (Sat Paste)	32.3	%		1	03/14/25 15:55	TJL	29B
Alkalinity (Sat Paste)	1.6	meq/L	0.3	1	03/21/25 15:30	APB	29B
Chloride (Sat Paste)	10.7	meq/L	0.010	5	03/18/25 21:35	MJM	29B
Chloride	87.8	mg/Kg	20.0	5	03/21/25 14:10	MJM	9056A
Electrical Conductivity (Sat Paste)	1.48	mmhos/cm		1	03/14/25 15:55	TJL	29B
pH (Sat Paste)	7.87	s.u.		1	03/14/25 15:55	TJL	29B
Sulfate (Sat Paste)	1.30	meq/L	0.010	5	03/18/25 21:35	MJM	29B
Calcium (Sat Paste)	4.64	meq/L	0.050	10	03/17/25 17:10	APB	29B
Magnesium (Sat Paste)	2.15	meq/L	0.082	10	03/17/25 17:10	APB	29B
Sodium (Sat Paste)	6.46	meq/L	0.220	10	03/17/25 17:10	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

Hydro-Environmental Technology, Inc.
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Morse, LA

Report Date : 04/04/2025
Received : 03/05/2025



Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52387**

Matrix: **Solids**

Sample ID : **B-5 (14-16')**

Sampled: **2/27/2025 09:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	22.2	%	0.050	1	03/20/25 12:25	TJL	SW-DRYWT
% Saturation (Sat Paste)	219	%		1	03/14/25 15:55	TJL	29B
Alkalinity (Sat Paste)	1.4	meq/L	0.3	1	03/21/25 15:30	APB	29B
Chloride (Sat Paste)	83.2	meq/L	0.014	50	03/18/25 21:48	MJM	29B
Chloride	2830	mg/Kg	20.0	5	03/21/25 14:23	MJM	9056A
Electrical Conductivity (Sat Paste)	8.79	mmhos/cm		1	03/14/25 15:55	TJL	29B
pH (Sat Paste)	8.23	s.u.		1	03/14/25 15:55	TJL	29B
Sulfate (Sat Paste)	0.574	meq/L	0.010	50	03/18/25 21:48	MJM	29B
Calcium (Sat Paste)	1.35	meq/L	0.050	10	03/17/25 17:14	APB	29B
Magnesium (Sat Paste)	0.369	meq/L	0.082	10	03/17/25 17:14	APB	29B
Sodium (Sat Paste)	79.8	meq/L	0.220	10	03/17/25 17:14	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

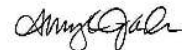
J Estimated value

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
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Project Gastal
Information : 1705.A37
Morse, LA

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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52388**

Matrix: **Solids**

Sample ID : **B-5 (18-20')**

Sampled: **2/27/2025 10:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	24.4	%	0.050	1	03/20/25 12:25	TJL	SW-DRYWT
% Saturation (Sat Paste)	220	%		1	03/14/25 15:55	TJL	29B
Alkalinity (Sat Paste)	0.7	meq/L	0.3	1	03/21/25 15:30	APB	29B
Chloride (Sat Paste)	96.5	meq/L	0.014	50	03/18/25 22:00	MJM	29B
Chloride	5680	mg/Kg	40.0	10	03/25/25 10:03	MJM	9056A
Electrical Conductivity (Sat Paste)	9.98	mmhos/cm		1	03/14/25 15:55	TJL	29B
pH (Sat Paste)	7.81	s.u.		1	03/14/25 15:55	TJL	29B
Sulfate (Sat Paste)	0.275	meq/L	0.010	50	03/18/25 22:00	MJM	29B
Calcium (Sat Paste)	2.43	meq/L	0.050	10	03/17/25 17:18	APB	29B
Magnesium (Sat Paste)	0.945	meq/L	0.082	10	03/17/25 17:18	APB	29B
Sodium (Sat Paste)	87.7	meq/L	0.220	10	03/17/25 17:18	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

Hydro-Environmental Technology, Inc.
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Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 04/04/2025
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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52390**

Matrix: **Solids**

Sample ID : **B-5 (34-36')**

Sampled: **2/27/2025 10:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	20.0	%	0.050	1	03/20/25 12:25	TJL	SW-DRYWT
% Saturation (Sat Paste)	44.1	%		1	03/14/25 15:55	TJL	29B
Alkalinity (Sat Paste)	1.2	meq/L	0.3	1	03/21/25 15:30	APB	29B
Chloride (Sat Paste)	313	meq/L	0.056	200	03/18/25 22:12	MJM	29B
Chloride	4390	mg/Kg	80.0	20	03/21/25 14:47	MJM	9056A
Electrical Conductivity (Sat Paste)	29.1	mmhos/cm		1	03/14/25 15:55	TJL	29B
pH (Sat Paste)	7.55	s.u.		1	03/14/25 15:55	TJL	29B
Sulfate (Sat Paste)	0.957	meq/L	0.041	200	03/18/25 22:12	MJM	29B
Calcium (Sat Paste)	50.0	meq/L	0.100	20	03/17/25 17:22	APB	29B
Magnesium (Sat Paste)	24.0	meq/L	0.164	20	03/17/25 17:22	APB	29B
Sodium (Sat Paste)	220	meq/L	0.440	20	03/17/25 17:22	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
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Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 04/04/2025
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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52391**

Matrix: **Solids**

Sample ID : **B-5 (48-50')**

Sampled: **2/27/2025 10:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	30.4	%	0.050	1	03/19/25 16:00	JMB	SW-DRYWT
% Saturation (Sat Paste)	98.4	%		1	03/14/25 15:55	TJL	29B
Alkalinity (Sat Paste)	1.6	meq/L	0.3	1	03/21/25 15:30	APB	29B
Chloride (Sat Paste)	98.8	meq/L	0.014	50	03/18/25 22:25	MJM	29B
Chloride	1960	mg/Kg	40.0	10	03/21/25 15:00	MJM	9056A
Electrical Conductivity (Sat Paste)	10.1	mmhos/cm		1	03/14/25 15:55	TJL	29B
pH (Sat Paste)	7.81	s.u.		1	03/14/25 15:55	TJL	29B
Sulfate (Sat Paste)	0.904	meq/L	0.010	50	03/18/25 22:25	MJM	29B
Calcium (Sat Paste)	29.8	meq/L	0.050	10	03/17/25 17:35	APB	29B
Magnesium (Sat Paste)	14.1	meq/L	0.082	10	03/17/25 17:35	APB	29B
Sodium (Sat Paste)	51.7	meq/L	0.220	10	03/17/25 17:35	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52393**

Matrix: **Solids**

Sample ID : **B-4 (6-8')**

Sampled: **2/27/2025 13:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	15.6	%	0.050	1	03/19/25 16:00	JMB	SW-DRYWT
% Saturation (Sat Paste)	94.9	%		1	03/14/25 15:55	TJL	29B
Alkalinity (Sat Paste)	2.8	meq/L	0.3	1	03/21/25 15:30	APB	29B
Chloride (Sat Paste)	6.43	meq/L	0.010	5	03/18/25 22:37	MJM	29B
Chloride	96.3	mg/Kg	20.0	5	03/21/25 15:12	MJM	9056A
Electrical Conductivity (Sat Paste)	1.47	mmhos/cm		1	03/14/25 15:55	TJL	29B
pH (Sat Paste)	8.60	s.u.		1	03/14/25 15:55	TJL	29B
Sulfate (Sat Paste)	4.70	meq/L	0.010	5	03/18/25 22:37	MJM	29B
Calcium (Sat Paste)	0.728	meq/L	0.050	10	03/17/25 17:39	APB	29B
Magnesium (Sat Paste)	0.349	meq/L	0.082	10	03/17/25 17:39	APB	29B
Sodium (Sat Paste)	12.1	meq/L	0.220	10	03/17/25 17:39	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

Hydro-Environmental Technology, Inc.
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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52394**

Matrix: **Solids**

Sample ID : **B-4 (14-16')**

Sampled: **2/27/2025 13:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	23.3	%	0.050	1	03/19/25 16:00	JMB	SW-DRYWT
% Saturation (Sat Paste)	110	%		1	03/14/25 15:55	TJL	29B
Alkalinity (Sat Paste)	1.8	meq/L	0.3	1	03/21/25 15:30	APB	29B
Chloride (Sat Paste)	4.15	meq/L	0.010	5	03/18/25 23:02	MJM	29B
Chloride	67.0	mg/Kg	20.0	5	03/21/25 15:24	MJM	9056A
Electrical Conductivity (Sat Paste)	0.728	mmhos/cm		1	03/14/25 15:55	TJL	29B
pH (Sat Paste)	8.25	s.u.		1	03/14/25 15:55	TJL	29B
Sulfate (Sat Paste)	0.711	meq/L	0.010	5	03/18/25 23:02	MJM	29B
Calcium (Sat Paste)	0.946	meq/L	0.025	5	03/17/25 17:47	APB	29B
Magnesium (Sat Paste)	0.525	meq/L	0.041	5	03/17/25 17:47	APB	29B
Sodium (Sat Paste)	4.95	meq/L	0.110	5	03/17/25 17:47	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

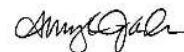
J Estimated value

09996

Hydro-Environmental Technology, Inc.
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Project Gastal
Information : 1705.A37
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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52395**

Matrix: **Solids**

Sample ID : **B-4 (16-18')**

Sampled: **2/27/2025 13:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	28.4	%	0.050	1	03/19/25 16:00	JMB	SW-DRYWT
% Saturation (Sat Paste)	139	%		1	03/14/25 15:55	TJL	29B
Alkalinity (Sat Paste)	2.9	meq/L	0.3	1	03/21/25 15:30	APB	29B
Chloride (Sat Paste)	2.92	meq/L	0.010	5	03/18/25 23:51	MJM	29B
Chloride	55.6	mg/Kg	20.0	5	03/24/25 18:59	MJM	9056A
Electrical Conductivity (Sat Paste)	0.650	mmhos/cm		1	03/14/25 15:55	TJL	29B
pH (Sat Paste)	8.57	s.u.		1	03/14/25 15:55	TJL	29B
Sulfate (Sat Paste)	0.347	meq/L	0.010	5	03/18/25 23:51	MJM	29B
Calcium (Sat Paste)	0.915	meq/L	0.025	5	03/17/25 17:51	APB	29B
Magnesium (Sat Paste)	0.503	meq/L	0.041	5	03/17/25 17:51	APB	29B
Sodium (Sat Paste)	4.51	meq/L	0.110	5	03/17/25 17:51	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52396**

Matrix: **Solids**

Sample ID : **B-4 (30-32')**

Sampled: **2/27/2025 13:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	22.0	%	0.050	1	03/19/25 16:00	JMB	SW-DRYWT
% Saturation (Sat Paste)	60.3	%		1	03/14/25 15:55	TJL	29B
Alkalinity (Sat Paste)	2.7	meq/L	0.3	1	03/21/25 15:30	APB	29B
Chloride (Sat Paste)	1.89	meq/L	0.010	5	03/19/25 00:04	MJM	29B
Chloride	26.8	mg/Kg	20.0	5	03/24/25 19:11	MJM	9056A
Electrical Conductivity (Sat Paste)	0.669	mmhos/cm		1	03/14/25 15:55	TJL	29B
pH (Sat Paste)	8.33	s.u.		1	03/14/25 15:55	TJL	29B
Sulfate (Sat Paste)	1.57	meq/L	0.010	5	03/19/25 00:04	MJM	29B
Calcium (Sat Paste)	1.57	meq/L	0.025	5	03/17/25 17:55	APB	29B
Magnesium (Sat Paste)	0.946	meq/L	0.041	5	03/17/25 17:55	APB	29B
Sodium (Sat Paste)	3.75	meq/L	0.110	5	03/17/25 17:55	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52398**

Matrix: **Solids**

Sample ID : **B-4 (36-38.5')**

Sampled: **2/27/2025 14:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	7.87	%	0.050	1	03/19/25 16:00	JMB	SW-DRYWT
% Saturation (Sat Paste)	28.3	%		1	03/14/25 15:55	TJL	29B
Alkalinity (Sat Paste)	2.5	meq/L	0.3	1	03/21/25 15:30	APB	29B
Chloride (Sat Paste)	1.12	meq/L	0.010	5	03/19/25 00:16	MJM	29B
Chloride	<20.0	mg/Kg	20.0	5	03/24/25 19:24	MJM	9056A
Electrical Conductivity (Sat Paste)	0.516	mmhos/cm		1	03/14/25 15:55	TJL	29B
pH (Sat Paste)	8.22	s.u.		1	03/14/25 15:55	TJL	29B
Sulfate (Sat Paste)	1.03	meq/L	0.010	5	03/19/25 00:16	MJM	29B
Calcium (Sat Paste)	1.19	meq/L	0.025	5	03/17/25 17:59	APB	29B
Magnesium (Sat Paste)	0.587	meq/L	0.041	5	03/17/25 17:59	APB	29B
Sodium (Sat Paste)	3.03	meq/L	0.110	5	03/17/25 17:59	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

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Report Date : 04/04/2025
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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52399**

Matrix: **Solids**

Sample ID : **B-8 (10-12')**

Sampled: **2/28/2025 10:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	22.4	%	0.050	1	03/19/25 16:00	JMB	SW-DRYWT
% Saturation (Sat Paste)	66.1	%		1	03/14/25 15:55	TJL	29B
Alkalinity (Sat Paste)	2.2	meq/L	0.3	1	03/21/25 15:30	APB	29B
Chloride (Sat Paste)	5.42	meq/L	0.010	5	03/19/25 00:28	MJM	29B
Chloride	53.9	mg/Kg	20.0	5	03/24/25 20:01	MJM	9056A
Electrical Conductivity (Sat Paste)	1.15	mmhos/cm		1	03/14/25 15:55	TJL	29B
pH (Sat Paste)	8.30	s.u.		1	03/14/25 15:55	TJL	29B
Sulfate (Sat Paste)	3.11	meq/L	0.010	5	03/19/25 00:28	MJM	29B
Calcium (Sat Paste)	1.05	meq/L	0.025	5	03/17/25 18:04	APB	29B
Magnesium (Sat Paste)	0.613	meq/L	0.041	5	03/17/25 18:04	APB	29B
Sodium (Sat Paste)	8.68	meq/L	0.110	5	03/17/25 18:04	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

Hydro-Environmental Technology, Inc.
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Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 04/04/2025
Received : 03/05/2025



Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52400**

Matrix: **Solids**

Sample ID : **B-8 (16-18')**

Sampled: **2/28/2025 10:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	25.0	%	0.050	1	03/19/25 16:00	JMB	SW-DRYWT
% Saturation (Sat Paste)	120	%		1	03/14/25 15:55	TJL	29B
Alkalinity (Sat Paste)	2.9	meq/L	0.3	1	03/21/25 15:30	APB	29B
Chloride (Sat Paste)	4.26	meq/L	0.010	5	03/19/25 00:41	MJM	29B
Chloride	90.0	mg/Kg	20.0	5	03/24/25 20:13	MJM	9056A
Electrical Conductivity (Sat Paste)	0.950	mmhos/cm		1	03/14/25 15:55	TJL	29B
pH (Sat Paste)	8.47	s.u.		1	03/14/25 15:55	TJL	29B
Sulfate (Sat Paste)	1.94	meq/L	0.010	5	03/19/25 00:41	MJM	29B
Calcium (Sat Paste)	1.70	meq/L	0.025	5	03/17/25 18:08	APB	29B
Magnesium (Sat Paste)	1.02	meq/L	0.041	5	03/17/25 18:08	APB	29B
Sodium (Sat Paste)	6.08	meq/L	0.110	5	03/17/25 18:08	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52402**

Matrix: **Solids**

Sample ID : **B-8 (34-36')**

Sampled: **2/28/2025 10:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	17.7	%	0.050	1	03/19/25 16:00	JMB	SW-DRYWT
% Saturation (Sat Paste)	34.6	%		1	03/14/25 15:55	TJL	29B
Alkalinity (Sat Paste)	1.6	meq/L	0.3	1	03/21/25 15:30	APB	29B
Chloride (Sat Paste)	3.45	meq/L	0.010	5	03/19/25 00:53	MJM	29B
Chloride	40.4	mg/Kg	20.0	5	03/24/25 20:25	MJM	9056A
Electrical Conductivity (Sat Paste)	0.665	mmhos/cm		1	03/14/25 15:55	TJL	29B
pH (Sat Paste)	8.05	s.u.		1	03/14/25 15:55	TJL	29B
Sulfate (Sat Paste)	0.972	meq/L	0.010	5	03/19/25 00:53	MJM	29B
Calcium (Sat Paste)	0.954	meq/L	0.025	5	03/17/25 18:12	APB	29B
Magnesium (Sat Paste)	0.464	meq/L	0.041	5	03/17/25 18:12	APB	29B
Sodium (Sat Paste)	4.41	meq/L	0.110	5	03/17/25 18:12	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52403**

Matrix: **Solids**

Sample ID : **B-8 (42-44')**

Sampled: **2/28/2025 11:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	29.7	%	0.050	1	03/19/25 16:00	JMB	SW-DRYWT
% Saturation (Sat Paste)	81.0	%		1	03/14/25 15:55	TJL	29B
Alkalinity (Sat Paste)	4.4	meq/L	0.3	1	03/21/25 15:30	APB	29B
Chloride (Sat Paste)	1.59	meq/L	0.010	5	03/19/25 01:05	MJM	29B
Chloride	<20.0	mg/Kg	20.0	5	03/24/25 20:38	MJM	9056A
Electrical Conductivity (Sat Paste)	1.02	mmhos/cm		1	03/14/25 15:55	TJL	29B
pH (Sat Paste)	8.53	s.u.		1	03/14/25 15:55	TJL	29B
Sulfate (Sat Paste)	3.87	meq/L	0.010	5	03/19/25 01:05	MJM	29B
Calcium (Sat Paste)	2.76	meq/L	0.025	5	03/17/25 18:25	APB	29B
Magnesium (Sat Paste)	1.43	meq/L	0.041	5	03/17/25 18:25	APB	29B
Sodium (Sat Paste)	5.86	meq/L	0.110	5	03/17/25 18:25	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

Hydro-Environmental Technology, Inc.
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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52411**

Matrix: **Solids**

Sample ID : **B-1 (48-50')**

Sampled: **3/3/2025 14:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.3	%	0.050	1	03/14/25 13:46	TIS	SW-DRYWT
% Saturation (Sat Paste)	33.4	%		1	03/14/25 15:55	TJL	29B
Alkalinity (Sat Paste)	1.8	meq/L	0.3	1	03/21/25 15:30	APB	29B
Chloride (Sat Paste)	6.58	meq/L	0.010	5	03/19/25 01:18	MJM	29B
Chloride	167	mg/Kg	20.0	5	03/24/25 20:50	MJM	9056A
Electrical Conductivity (Sat Paste)	1.05	mmhos/cm		1	03/14/25 15:55	TJL	29B
pH (Sat Paste)	8.00	s.u.		1	03/14/25 15:55	TJL	29B
Sulfate (Sat Paste)	1.25	meq/L	0.010	5	03/19/25 01:18	MJM	29B
Calcium (Sat Paste)	2.66	meq/L	0.025	5	03/17/25 18:29	APB	29B
Magnesium (Sat Paste)	1.20	meq/L	0.041	5	03/17/25 18:29	APB	29B
Sodium (Sat Paste)	5.40	meq/L	0.110	5	03/17/25 18:29	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

Hydro-Environmental Technology, Inc.
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Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **52412**

Matrix: **Solids**

Sample ID : **B-1 (50-52')**

Sampled: **3/3/2025 14:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	17.3	%	0.050	1	03/14/25 13:46	TIS	SW-DRYWT
% Saturation (Sat Paste)	34.2	%		1	03/14/25 15:55	TJL	29B
Alkalinity (Sat Paste)	2.0	meq/L	0.3	1	03/21/25 15:30	APB	29B
Chloride (Sat Paste)	1.16	meq/L	0.010	5	03/19/25 01:30	MJM	29B
Chloride	<20.0	mg/Kg	20.0	5	03/24/25 22:16	MJM	9056A
Electrical Conductivity (Sat Paste)	0.481	mmhos/cm		1	03/14/25 15:55	TJL	29B
pH (Sat Paste)	8.16	s.u.		1	03/14/25 15:55	TJL	29B
Sulfate (Sat Paste)	1.12	meq/L	0.010	5	03/19/25 01:30	MJM	29B
Calcium (Sat Paste)	1.06	meq/L	0.025	5	03/17/25 18:33	APB	29B
Magnesium (Sat Paste)	0.511	meq/L	0.041	5	03/17/25 18:33	APB	29B
Sodium (Sat Paste)	2.73	meq/L	0.110	5	03/17/25 18:33	APB	29B

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

Hydro-Environmental Technology, Inc.
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Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 04/04/2025
Received : 03/05/2025



Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **53697**

Matrix: **SPLP**

Sample ID : **B-5 (34-36')**

Sampled: **2/27/2025 10:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
SPLP Extraction	Leachate			1	03/31/25 16:40	HLF	1312
SPLP Chloride	216	mg/L	2.00	5	04/04/25 09:35	MJM	9056
SPLP Sodium	131	mg/L	0.500	1	04/03/25 20:47	APB	6010D

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

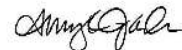
J Estimated value

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA 70583

Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 04/04/2025
Received : 03/05/2025



Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **53698**

Matrix: **SPLP**

Sample ID : **B-1 (14-16')**

Sampled: **2/25/2025 10:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
SPLP Extraction	Leachate			1	03/31/25 16:40	HLF	1312
SPLP Chloride	257	mg/L	2.00	5	04/04/25 10:52	MJM	9056
SPLP Sodium	187	mg/L	0.500	1	04/03/25 20:51	APB	6010D

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA 70583

Project Gastal
Information : 1705.A37
Morse, LA

Report Date : 04/04/2025
Received : 03/05/2025



Report Number : **25-064-0034**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **53699**

Matrix: **SPLP**

Sample ID : **B-1 (24-26')**

Sampled: **2/25/2025 11:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
SPLP Extraction	Leachate			1	03/31/25 16:40	HLF	1312
SPLP Chloride	218	mg/L	2.00	5	04/04/25 11:04	MJM	9056
SPLP Sodium	171	mg/L	0.500	1	04/03/25 21:04	APB	6010D

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit

J Estimated value

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 25-064-0034

QC Prep:	A100762	QC Analytical Batch(es):	A100861,A100901,A100863,A100865
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Alkalinity

Duplicate A 52369-A100760-DUP-A100762

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Alkalinity (Sat Paste)	meq/L	1.2	1.4	15.3	30.0	03/20/25 11:30

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 25-064-0034

QC Prep:	A100763	QC Analytical Batch(es):	A100862,A100902,A100864,A100865
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Alkalinity

Duplicate A 52393-A100760-DUP-A100763

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Alkalinity (Sat Paste)	meq/L	2.8	2.3	19.6	30.0	03/21/25 15:30

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 25-064-0034

QC Prep:	A100762	QC Analytical Batch(es):	A100861,A100901,A100863,A100865
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Anions by Ion Chromatography

Duplicate A 52369-A100760-DUP-A100762

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Chloride (Sat Paste)	meq/L	213	216	1.3	30.0	03/18/25 18:43
Sulfate (Sat Paste)	meq/L	0.661	0.549	18.5	30.0	03/18/25 18:43

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 25-064-0034

QC Prep:	A100763	QC Analytical Batch(es):	A100862,A100902,A100864,A100865
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Anions by Ion Chromatography

Duplicate A 52393-A100760-DUP-A100763

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Chloride (Sat Paste)	meq/L	6.43	5.98	7.2	30.0	03/18/25 22:50
Sulfate (Sat Paste)	meq/L	4.70	3.86	19.6	30.0	03/18/25 22:50

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 25-064-0034

QC Prep: A100762
QC Prep Batch Method: 29B
QC Analytical Batch(es): A100861,A100901,A100863,A100865
Analysis Method: 29B
Analysis Description: Saturated Paste Extraction

Duplicate A 52369-A100760-DUP-A100762

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Saturation (Sat Paste)	%	92.1	91.7	0.4	30.0	03/14/25 14:50
Electrical Conductivity (Sat Paste)	mmhos/cm	21.2	21.7	2.3	30.0	03/14/25 14:50
pH (Sat Paste)	s.u.	8.09	8.20	1.3	30.0	03/14/25 14:50

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 25-064-0034

QC Prep:	A100763	QC Analytical Batch(es):	A100862,A100902,A100864,A100865
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 52393-A100760-DUP-A100763

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Saturation (Sat Paste)	%	94.9	96.3	1.4	30.0	03/14/25 15:55
Electrical Conductivity (Sat Paste)	mmhos/cm	1.47	1.29	13.0	30.0	03/14/25 15:55
pH (Sat Paste)	s.u.	8.60	8.39	2.4	30.0	03/14/25 15:55

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 25-064-0034

QC Prep: A100762

QC Prep Batch Method: 29B

QC Analytical Batch(es): A100861,A100901,A100863,A100865

Analysis Method: 29B

Analysis Description: Saturated Paste Extraction

Duplicate A 52369-A100760-DUP-A100762

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Calcium (Sat Paste)	meq/L	4.37	4.73	7.9	30.0	03/17/25 14:51
Magnesium (Sat Paste)	meq/L	1.33	1.39	4.4	30.0	03/17/25 14:51
Sodium (Sat Paste)	meq/L	199	205	2.9	30.0	03/17/25 14:51

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 25-064-0034

QC Prep:	A100763	QC Analytical Batch(es):	A100862,A100902,A100864,A100865
QC Prep Batch Method:	29B	Analysis Method:	29B
		Analysis Description:	Saturated Paste Extraction

Duplicate A 52393-A100760-DUP-A100763

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Calcium (Sat Paste)	meq/L	0.728	0.628	14.7	30.0	03/17/25 17:43
Magnesium (Sat Paste)	meq/L	0.349	0.297	16.0	30.0	03/17/25 17:43
Sodium (Sat Paste)	meq/L	12.1	10.3	16.0	30.0	03/17/25 17:43

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 25-064-0034

QC Prep: A100774

QC Prep Batch Method: 3050B

QC Analytical Batch(es): A100920

Analysis Method: 6010D

Analysis Description: Metals Analysis

Lab Reagent Blank

LRB-A100774

Matrix: SOL

Associated Lab Samples: 52373, 52374

Parameter	Units	Blank Result	MQL	Analyzed
Total Arsenic	mg/Kg AR	< 1.00	1.00	03/18/25 17:50

Laboratory Control Sample & LCSD

LCS-A100774

LCSD-A100774

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Total Arsenic	mg/Kg AR	5.00	5.08	5.12	102	102	80-120	0.7	20.0

Matrix Spike & Matrix Spike Duplicate

A 52233-A100759-MS-A100774

A 52233-A100759-MSD-A100774

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Total Arsenic	mg/Kg AR	2.62	4.81	4.82	6.12	6.20	73.0*	74.0*	75-125	1.2	20.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 25-064-0034

QC Prep:	A101410	QC Analytical Batch(es):	A101493
QC Prep Batch Method:	SW-3010A	Analysis Method:	6010D
		Analysis Description:	Metals Analysis (SPLP)

Lab Reagent Blank LRB-A101410 Matrix: TCL
Associated Lab Samples: 53697, 53698, 53699

Parameter	Units	Blank Result	MQL	Analyzed
SPLP Sodium	mg/L	< 0.500	0.500	04/03/25 20:30

Laboratory Control Sample & LCSD LCS-A101410 LCSD-A101410

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
SPLP Sodium	mg/L	10.0	9.73	9.62	97.0	96.0	80-120	1.1	20.0

Matrix Spike & Matrix Spike Duplicate A 53699-MS-A101410 A 53699-MSD-A101410

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
SPLP Sodium	mg/L	171	10.0	10.0	178	188	70.0*	170*	75-125	5.4	20.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 25-064-0034

QC Prep:	A101435	QC Analytical Batch(es):	A101483
QC Prep Batch Method:	SW-9056A (PREP)	Analysis Method:	9056
		Analysis Description:	Anions by Ion Chromatography (SPLP)

Lab Reagent Blank LRB-A101435 Matrix: TCL
Associated Lab Samples: 53697, 53698, 53699

Parameter	Units	Blank Result	MQL	Analyzed
SPLP Chloride	mg/L	< 0.400	0.400	04/03/25 18:29

Laboratory Control Sample LCS-A101435

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
SPLP Chloride	mg/L	55.6	59.0	106	80-120

Matrix Spike & Matrix Spike Duplicate A 53697-MS-A101435 A 53697-MSD-A101435

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
SPLP Chloride	mg/L	216	55.6	55.6	273	274	103	104	80-120	0.3	20.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 25-064-0034

QC Prep: A100665 **QC Analytical Batch(es):** A100769
QC Prep Batch Method: SW-9056A (PREP) **Analysis Method:** 9056A
Analysis Description: Anions by Ion Chromatography

Lab Reagent Blank LRB-A100665 Matrix: SOL
Associated Lab Samples: 52369, 52370, 52371, 52372, 52375, 52376, 52378, 52380, 52381, 52383, 52384, 52385, 52387, 52388, 52390, 52391, 52393, 52394, 52395, 52396

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/Kg	< 4.00	4.00	03/21/25 09:51

Laboratory Control Sample LCS-A100665

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Chloride	mg/Kg	500	521	104	80-120

Matrix Spike & Matrix Spike Duplicate A 52369-MS-A100665 A 52369-MSD-A100665

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Chloride	mg/Kg	5160	465	470	5540	5580	82.0	89.0	80-120	0.7	15.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 25-064-0034

QC Prep:	A100666	QC Analytical Batch(es):	A100970
QC Prep Batch Method:	SW-9056A (PREP)	Analysis Method:	9056A
		Analysis Description:	Anions by Ion Chromatography

Lab Reagent Blank LRB-A100666 Matrix: SOL

Associated Lab Samples: 52398, 52399, 52400, 52402, 52403, 52411, 52412

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/Kg	< 4.00	4.00	03/21/25 10:28

Laboratory Control Sample LCS-A100666

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Chloride	mg/Kg	500	520	104	80-120

Matrix Spike & Matrix Spike Duplicate A 52398-MS-A100666 A 52398-MSD-A100666

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Chloride	mg/Kg	< 20.0	486	478	486	494	100	103	80-120	1.6	15.0

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 25-064-0034

QC Analytical Batch: A100652

Analysis Method: SW-DRYWT

Analysis Description: Dry Weight Determination

Duplicate A 52352-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	22.5	22.8	1.3	20.0	03/13/25 16:30

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 25-064-0034

QC Analytical Batch: A100653
Analysis Method: SW-DRYWT
Analysis Description: Dry Weight Determination

Duplicate A 52376-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	20.6	19.6	4.9	20.0	03/20/25 12:25

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 25-064-0034

QC Analytical Batch: A100654
Analysis Method: SW-DRYWT
Analysis Description: Dry Weight Determination

Duplicate A 52391-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	30.4	31.1	2.2	20.0	03/19/25 16:00

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.
Project Description: Gastal
Report No: 25-064-0034

QC Analytical Batch: A100655
Analysis Method: SW-DRYWT
Analysis Description: Dry Weight Determination

Duplicate A 52411-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	18.3	18.9	3.2	20.0	03/14/25 13:46

Shipment Receipt Form

Customer Number: **09996**

Customer Name: **Hydro-Environmental Technology, Inc.**

Report Number: **25-064-0034**

Shipping Method

☐ Fed Ex	☐ US Postal	☒ Lab	☐ Other :	
☐ UPS	☐ Client	☐ Courier	Thermometer ID:	IR 2

Shipping container/cooler uncompromised?	☒ Yes	☐ No	
Number of coolers/boxes received	1		
Custody seals intact on shipping container/cooler?	☐ Yes	☐ No	☒ Not Present
Custody seals intact on sample bottles?	☐ Yes	☐ No	☒ Not Present
Chain of Custody (COC) present?	☒ Yes	☐ No	
COC agrees with sample label(s)?	☒ Yes	☐ No	
COC properly completed	☒ Yes	☐ No	
Samples in proper containers?	☒ Yes	☐ No	
Sample containers intact?	☒ Yes	☐ No	
Sufficient sample volume for indicated test(s)?	☒ Yes	☐ No	
All samples received within holding time?	☒ Yes	☐ No	
Cooler temperature in compliance?	☒ Yes	☐ No	☐ Not Present
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	☒ Yes	☐ No	
Water - Sample containers properly preserved	☒ Yes	☐ No	☐ N/A
Water - VOA vials free of headspace	☐ Yes	☐ No	☒ N/A
Trip Blanks received with VOAs	☐ Yes	☐ No	☒ N/A
Soil VOA method 5035 – compliance criteria met	☐ Yes	☐ No	☒ N/A
☐ High concentration container (48 hr)	☐ Low concentration EnCore samplers (48 hr)		
☐ High concentration pre-weighed (methanol -14 d)	☐ Low conc pre-weighed vials (Sod Bis -14 d)		
Special precautions or instructions included?	☐ Yes	☒ No	

Comments:

Signature:

Brandi Hidalgo

Date & Time:

03/05/2025 14:59:00



HYDRO-ENVIRONMENTAL
Environmental
P.O. Box
Lafayette, LA
Phone (337) 261-1963

25-064-0034
09996
03-06-2025
08:05:43
Hydro-Environmental Technology, Inc.
Gastal

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastal Laboratory: Waypoint
Project Number: 1705.A37 Collected By: TW, EM
Project Location: Morse, LA Company: Hydro-Environmental Technology, Inc.
Date: 2/25/2025

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
B-1 (12-14') 52368	SO	2/25/2025	1030	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-1 (14-16') 52369	SO	2/25/2025	1030	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-1 (24-26') 52370	SO	2/25/2025	1105	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-1 (38-40') 52371	SO	2/25/2025	1130	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-1 (42-44') 52372	SO	2/25/2025	1205	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: E. W. T. Received By: P. Howard
Date/Time: 3/5/25 0835 Date/Time: 3-5-25 0835
Relinquished By: P. Howard Received By: Kathy Kendrick
Date/Time: 3-5-25 0950 Date/Time: 03/05/25 0950
Relinquished By: Kathy Kendrick
Date/Time: 03/05/25 1245
Analysis Due: Verbal Written: 3/5/25 @ 1459
Rec'd by: Brandi Hidalgo Relinquished by: Brandi Hidalgo



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
Environmental Consultants
P.O. Box 60295
Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastal Laboratory: Waypoint
Project Number: 1705.A37 Collected By: TW, EM
Project Location: Morse, LA Company: Hydro-Environmental Technology, Inc.
Date: 2/25/2025

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
SE-SB-06R (4-6') 52373	SO	2/25/2025	1405	(1) 16oz Jar	Arsenic	4°C
SE-SB-06R (6-8') 52374	SO	2/25/2025	1410	(1) 16oz Jar	Arsenic	4°C
B-6 (12-14') 52375	SO	2/26/2025	1015	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-6 (14-16') 52376	SO	2/26/2025	1015	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-6 (18-20') 52377	SO	2/26/2025	1020	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: Ci. 606 Received By: P. Howard
Date/Time: 3/5/25 0835 Date/Time: 3-5-25 0835
Relinquished By: P. Howard Received By: Kathy Hendrix Relinquished By: Kathy Hendrix
Date/Time: 3-5-25 0950 Date/Time: 03/05/25 0950 Date/Time: 03/05/25 1245
Analysis Due: Verbak Written: Brandi Hidalgo
Rec'd by: [Signature] 3/5/25 1245 Relinquished by: [Signature] 3/5/25 1459
3-5-25 1459



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
Environmental Consultants
P.O. Box 60295
Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastal Laboratory: Waypoint
Project Number: 1705.A37 Collected By: TW, EM
Project Location: Morse, LA Company: Hydro-Environmental Technology, Inc.
Date: 2/25/2025

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
B-6 (32-34') 52378	SO	2/26/2025	1050	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-6 (40-42') 52379	SO	2/26/2025	1105	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-6 (46-48') 52380	SO	2/26/2025	1115	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-7 (2-4') 52381	SO	2/26/2025	1315	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-7 (12-14') 52382	SO	2/26/2025	1330	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: 3/5/25 0835 Received By: P. Newmans
Date/Time: 3/5/25 0835 Date/Time: 3-5-25 0835
Relinquished By: P. Newmans Received By: Kochy Hendrix Retelg by: Kochy Hendrix
Date/Time: 3-5-25 0950 Date/Time: 03/05/25 0950 Date/Time: 03/05/25 125
Analysis Due: Verbal: 3/5/25 1459 Written: 3/5/25 1459

Brand: Hidalgo 3-5-25 1459



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
Environmental Consultants
P.O. Box 60295
Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Laboratory: _____ Waypoint _____

Collected By: _____ TW, EM _____

Company: _____ Hydro-Environmental Technology, Inc. _____

Date: _____ 2/25/2025 _____

Project Name: _____ Gastal _____

Project Number: _____ 1705.A37 _____

Project Location: _____ Morse, LA _____

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
B-7 (18-20') 52383	SO	2/26/2025	1335	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-7 (30-32') 52384	SO	2/26/2025	1350	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-7 (44-46') 52385	SO	2/26/2025	1415	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-5 (12-14') 52386	SO	2/27/2025	0955	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-5 (14-16') 52387	SO	2/27/2025	0955	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: <i>[Signature]</i>	Received By: <i>P. Howard</i>
Date/Time: <i>3-5-25 0835</i>	Date/Time: <i>3-5-25 0835</i>
Relinquished By: <i>P. Howard</i>	Received By: <i>Kathy Bendrix</i>
Date/Time: <i>3-5-25 0950</i>	Date/Time: <i>3-5-25 0950</i>
Relinquished By: <i>[Signature]</i>	Received By: <i>Kathy Bendrix</i>
Date/Time: <i>3-5-25 1245</i>	Date/Time: <i>3-5-25 1245</i>
Analysis Due: Verbal	Written: <i>[Signature]</i>
Rec'd by: <i>[Signature]</i> 3/5/25 1459	Relinquished by: <i>[Signature]</i> 3/5/25 1459

Brand: Hidalgo 3-5-25
1459



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
Environmental Consultants
P.O. Box 60295
Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastal Laboratory: Waypoint
Project Number: 1705.A37 Collected By: TW, EM
Project Location: Morse, LA Company: Hydro-Environmental Technology, Inc.
Date: 2/25/2025

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
B-5 (18-20') 52388	SO	2/27/2025	1000	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-5 (28-30') 52389	SO	2/27/2025	1015	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-5 (34-36') 52390	SO	2/27/2025	1025	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-5 (48-50') 52391	SO	2/27/2025	1050	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-5 (50-51.5') 52392	SO	2/27/2025	1050	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

2.0°
HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: C. L. L.
Date/Time: 3/5/25 0835

Received By: P. Howard
Date/Time: 3-5-25 0835

Relinquished By: P. Howard
Date/Time: 3-5-25 0950

Received By: Kathy Hendrix
Date/Time: 03/05/25 0950
Relinquished By: Kathy Hendrix
Date/Time: 03/05/25 1245

Analysis Due: Verbal
Rec'd by: [Signature] 3/5/25 1245 Relinquished by: [Signature] 3/5/25 1459

Brandi Hidalgo 3-5-25 1459



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Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastal Laboratory: Waypoint
Project Number: 1705.A37 Collected By: TW, EM
Project Location: Morse, LA Company: Hydro-Environmental Technology, Inc.
Date: 2/25/2025

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
B-4 (6-8') 52393	SO	2/27/2025	1310	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-4 (14-16') 52394	SO	2/27/2025	1320	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-4 (16-18') 52395	SO	2/27/2025	1325	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-4 (30-32') 52396	SO	2/27/2025	1345	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-4 (34-36') 52397	SO	2/27/2025	1355	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

2.0" HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: <u>Ec. Lt</u>	Received By: <u>P. Howard</u>
Date/Time: <u>3/5/25 0835</u>	Date/Time: <u>3-5-25 0835</u>
Relinquished By: <u>P. Howard</u>	Received By: <u>Kathy Hendrix</u>
Date/Time: <u>3-5-25 0950</u>	Date/Time: <u>03/05/25 0950</u>
Relinquished By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date/Time: <u>3/5/25 1245</u>	Date/Time: <u>3/5/25 1459</u>

Analysis Due: Verbal

Written:

Brand Hidalgo 3-5-25 1459



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P.O. Box 60295
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Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastal Laboratory: Waypoint
Project Number: 1705.A37 Collected By: TW, EM
Project Location: Morse, LA Company: Hydro-Environmental Technology, Inc.
Date: 2/25/2025

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
B-4 (36-38') 52398	SO	2/27/2025	1415	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-8 (10-12') 52399	SO	2/28/2025	1000	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-8 (16-18') 52400	SO	2/28/2025	1015	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-8 (24-26') 52401	SO	2/28/2025	1030	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-8 (34-36') 52402	SO	2/28/2025	1040	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: E. Lot Received By: P. Howard
Date/Time: 3-5-25 0835 Date/Time: 3-5-25 0835
Relinquished By: P. Howard Received By: Kathy Henderson
Date/Time: 3-5-25 0950 Date/Time: 03/05/25 0950 Relinquished By: Kathy Henderson
Date/Time: 03/05/25 1245
Analysis Due: Verbal: 3/5/25 Written: 3/5/25 1459
Relinquished By: Brandon Hidalgo Date/Time: 3-5-25 1459



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P.O. Box 60295
Lafayette, LA 70596-0295
Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastal Laboratory: Waypoint
Project Number: 1705.A37 Collected By: TW, EM
Project Location: Morse, LA Company: Hydro-Environmental Technology, Inc.
Date: 2/25/2025

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
B-8 (42-44') 52403	SO	2/28/2025	1100	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-5 (52-54') 52404	SO	3/3/2025	1035	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-5 (54-56') 52405	SO	3/3/2025	1035	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-1 (40-42') 52406	SO	3/3/2025	1330	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-1 (44-46') 52407	SO	3/3/2025	1355	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: E. G. G. Received By: P. Howard
Date/Time: 3/5/25 0835 Date/Time: 3-5-25 0835
Relinquished By: P. Howard Received By: Kathy Kendrick Relinquished By: Kathy Kendrick
Date/Time: 3-5-25 0950 Date/Time: 03/05/25 0950 Date/Time: 03/05/25 1245
Analysis Due: Verbal: Rec'd by [signature] 3/5/25 1245 Written: Relinquished by [signature] 3/5/25 @ 1459



HYDRO-ENVIRONMENTAL
Environmental C
P.O. Box 61
Lafayette, LA 70
Phone (337) 261-1963 F/



25-064-0034
09996
03-06-2025
08:05:43

Hydro-Environmental Technology, Inc.
Gastal

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastal Laboratory: Waypoint
Project Number: 1705.A37 Collected By: TW, EM
Project Location: Morse, LA Company: Hydro-Environmental Technology, Inc.
Date: 2/25/2025

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
B-1 (12-14') 52368	SO	2/25/2025	1030	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-1 (14-16') 52369	SO	2/25/2025	1030	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-1 (24-26') 52370	SO	2/25/2025	1105	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-1 (38-40') 52371	SO	2/25/2025	1130	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-1 (42-44') 52372	SO	2/25/2025	1205	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: <u>Ei Matar</u>	Received By:
Date/Time: <u>3/5/25 0835</u>	Date/Time:
Relinquished By:	Received By:
Date/Time:	Date/Time:
Analysis Due: Verbal:	Written:



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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastal
Project Number: 1705.A37
Project Location: Morse, LA

Laboratory: Waypoint
Collected By: TW, EM
Company: Hydro-Environmental Technology, Inc.
Date: 2/25/2025

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
SE-SB-06R (4-6') 52373	SO	2/25/2025	1405	(1) 16oz Jar	Arsenic	4°C
SE-SB-06R (6-8') 52373 ⁴	SO	2/25/2025	1410	(1) 16oz Jar	Arsenic	4°C
B-6 (12-14') 52375	SO	2/26/2025	1015	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-6 (14-16') 52376	SO	2/26/2025	1015	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-6 (18-20') 52377	SO	2/26/2025	1020	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: <u>Ei Mote</u>	Received By:
Date/Time: <u>3/5/25 0835</u>	Date/Time:
Relinquished By:	Received By:
Date/Time:	Date/Time:
Analysis Due: Verbal:	Written:



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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastal Laboratory: Waypoint
Project Number: 1705.A37 Collected By: TW, EM
Project Location: Morse, LA Company: Hydro-Environmental Technology, Inc.
Date: 2/25/2025

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
B-6 (32-34') 52378	SO	2/26/2025	1050	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-6 (40-42') 52379	SO	2/26/2025	1105	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-6 (46-48') 52380	SO	2/26/2025	1115	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-7 (2-4') 52381	SO	2/26/2025	1315	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-7 (12-14') 52382	SO	2/26/2025	1330	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: <u>Ei. M. M. M.</u>	Received By:
Date/Time: <u>3/5/25 0835</u>	Date/Time:
Relinquished By:	Received By:
Date/Time:	Date/Time:
Analysis Due: Verbal:	Written:



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Lafayette, LA 70596-0295
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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastal Laboratory: Waypoint
Project Number: 1705.A37 Collected By: TW, EM
Project Location: Morse, LA Company: Hydro-Environmental Technology, Inc.
Date: 2/25/2025

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
B-7 (18-20') 52383	SO	2/26/2025	1335	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-7 (30-32') 52384	SO	2/26/2025	1350	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-7 (44-46') 52385	SO	2/26/2025	1415	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-5 (12-14') 52386	SO	2/27/2025	0955	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-5 (14-16') 52387	SO	2/27/2025	0955	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: <u>Ei Mate</u>	Received By:
Date/Time: <u>3/5/25 0835</u>	Date/Time:
Relinquished By:	Received By:
Date/Time:	Date/Time:
Analysis Due: Verbal:	Written:



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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastal Laboratory: Waypoint
Project Number: 1705.A37 Collected By: TW, EM
Project Location: Morse, LA Company: Hydro-Environmental Technology, Inc.
Date: 2/25/2025

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
B-5 (18-20') 52388	SO	2/27/2025	1000	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-5 (28-30') 52389	SO	2/27/2025	1015	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-5 (34-36') 52390	SO	2/27/2025	1025	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-5 (48-50') 52391	SO	2/27/2025	1050	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-5 (50-51.5') 52392	SO	2/27/2025	1050	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: <u>Ei. M. L.</u>	Received By:
Date/Time: <u>3/5/25 0835</u>	Date/Time:
Relinquished By:	Received By:
Date/Time:	Date/Time:
Analysis Due: Verbal:	Written:



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
 Environmental Consultants
 P.O. Box 60295
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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastal Laboratory: Waypoint
 Project Number: 1705.A37 Collected By: TW, EM
 Project Location: Morse, LA Company: Hydro-Environmental Technology, Inc.
 Date: 2/25/2025

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
B-4 (6-8') 52393	SO	2/27/2025	1310	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-4 (14-16') 52394	SO	2/27/2025	1320	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-4 (16-18') 52395	SO	2/27/2025	1325	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-4 (30-32') 52396	SO	2/27/2025	1345	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-4 (34-36') 52397	SO	2/27/2025	1355	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
 Cations*: Soluble Calcium, Magnesium, and Sodium
 Anions*: Cl, SO₄, HCO₃

Relinquished By: <u>Ei Mote</u>	Received By:
Date/Time: <u>2/5/25 0835</u>	Date/Time:
Relinquished By:	Received By:
Date/Time:	Date/Time:
Analysis Due: Verbal:	Written:



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 Environmental Consultants
 P.O. Box 60295
 Lafayette, LA 70596-0295
 Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name:	<u>Gastal</u>	Laboratory:	<u>Waypoint</u>
Project Number:	<u>1705.A37</u>	Collected By:	<u>TW, EM</u>
Project Location:	<u>Morse, LA</u>	Company:	<u>Hydro-Environmental Technology, Inc.</u>
		Date:	<u>2/25/2025</u>

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
B-4 (36-38.5') 52398	SO	2/27/2025	1415	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-8 (10-12') 52399	SO	2/28/2025	1000	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-8 (16-18') 52400	SO	2/28/2025	1015	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-8 (24-26') 52401	SO	2/28/2025	1030	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-8 (34-36') 52402	SO	2/28/2025	1040	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
 Cations*: Soluble Calcium, Magnesium, and Sodium
 Anions*: Cl, SO4, HCO3

Relinquished By: <u>Ei. M. L.</u>	Received By:
Date/Time: <u>3/5/25 0835</u>	Date/Time:
Relinquished By:	Received By:
Date/Time:	Date/Time:
Analysis Due: Verbal:	Written:



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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastal Laboratory: Waypoint
Project Number: 1705.A37 Collected By: TW, EM
Project Location: Morse, LA Company: Hydro-Environmental Technology, Inc.
Date: 2/25/2025

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
B-8 (42-44') 52403	SO	2/28/2025	1100	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-5 (52-54') 52404	SO	3/3/2025	1035	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-5 (54-56') 52405	SO	3/3/2025	1035	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-1 (40-42') 52406	SO	3/3/2025	1330	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-1 (44-46') 52407	SO	3/3/2025	1355	(1) 16oz Jar	HOLD: EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: <u>Eric M. Harte</u>	Received By:
Date/Time: <u>3/5/25 0835</u>	Date/Time:
Relinquished By:	Received By:
Date/Time:	Date/Time:
Analysis Due: Verbal:	Written:



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SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastal Laboratory: Waypoint
Project Number: 1705.A37 Collected By: TW, EM
Project Location: Morse, LA Company: Hydro-Environmental Technology, Inc.
Date: 2/25/2025

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
B-1 (48-50') 52411	SO	3/3/2025	1430	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C
B-1 (50-52') 52412	SO	3/3/2025	1435	(1) 16oz Jar	EC, Chlorides, pH, % Moisture, Cations*, Anions*	4°C

HOLD for possible analysis of SPLP Chloride and Sodium and additional parameters
Cations*: Soluble Calcium, Magnesium, and Sodium
Anions*: Cl, SO₄, HCO₃

Relinquished By: <u>Eric M. [Signature]</u>	Received By:
Date/Time: <u>03/5/25 0835</u>	Date/Time:
Relinquished By:	Received By:
Date/Time:	Date/Time:
Analysis Due: Verbal:	Written:

5/16/2025

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA, 70583

Ref: Report Number: 25-121-0008
Project Description: Gastal
Project Number: 1705.A37
Morse, LA

Dear Mr. Stewart Stover, Jr.:

Waypoint Analytical Louisiana, Inc. received sample(s) on 3/5/2025 for the analyses presented in the following report. The above referenced project has been analyzed per your instructions. Unless otherwise noted, the analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance. Analyses reported which indicate "Field" for these parameters were analyzed by the client in the field. Results for solid samples are reported on an as received or "wet weight" basis unless otherwise specified.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

All quality control measures undertaken in accordance with Waypoint Analytical Louisiana, Inc. CompQAP990807A and revisions under the terms of the Louisiana Environmental Laboratory Accreditation Program (Certificate #02041) are within acceptance ranges established in that document with the exception of the items indicated and/or discussed in a Case Narrative.

The results are shown on the attached analysis sheet(s). Be aware that the time analyzed for certain samples (e.g. - BOD, CBOD, etc.) refer to the time the sample batch was begun and not necessarily to the time an individual sample was begun. Thank you for allowing Waypoint Analytical Louisiana, Inc. to serve you. Should I be of further assistance, if you have any questions or need additional information please contact me or client services.

Sincerely,



Amy Jackson
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis. This report may be reproduced in full only with the written permission of the laboratory and/or the entity to which it is addressed. Results contained herein relate only to the sample(s) submitted to the laboratory.



Certification Summary

Laboratory ID: WP MLA: Waypoint Analytical Louisiana, Inc., Marrero, LA

State	Program	Lab ID	Expiration Date
Georgia	State Program	02041	06/30/2025
Louisiana	State Program - NELAP	02041	06/30/2025



Sample Summary Table

Report Number: 25-121-0008
Client Project Description: Gastal
Project Number: 1705.A37
Morse, LA

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
56434	B-4 (0-1')	Solids	02/25/2025 15:00	03/05/2025
56435	B-4 (1-2')	Solids	02/25/2025 15:00	03/05/2025



Client: Hydro-Environmental Technology, Inc.
Project: Gastal
Lab Report Number: 25-121-0008
Date: 5/16/2025

CASE NARRATIVE

Methods

Methods reported as 29B are from the Laboratory Procedures for Analysis of Exploration & Production Waste – LDNR Office of Conservation Injection and Mining Division – Revised 11/2011.

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott , LA 70583

Project Gastal

Information : Project Number: 1705.A37
Morse, LA

Report Date : 05/16/2025
Received : 03/05/2025



Report Number : **25-121-0008**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **56434**

Matrix: **Solids**

Sample ID : **B-4 (0-1')**

Sampled: **2/25/2025 15:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	18.8	%	0.050	1	05/09/25 14:14	BXH	SW-DRYWT
% Saturation (Sat Paste)	89.0	%		1	05/06/25 15:15	TJL	29B
Electrical Conductivity (Sat Paste)	1.07	mmhos/cm		1	05/06/25 15:15	TJL	29B
Cation Exchange Capacity	26.4	meq/100g	0.100	10	05/12/25 19:23		29B
Exchangeable Sodium Percentage	9.35	%	0.100	1	05/06/25 15:15		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	13.5	Calc	0.025	5	05/12/25 18:08		29B
Calcium (Sat Paste)	0.677	meq/L	0.025	5	05/12/25 18:08	APB	29B
Magnesium (Sat Paste)	0.187	meq/L	0.041	5	05/12/25 18:08	APB	29B
Sodium (Sat Paste)	8.88	meq/L	0.110	5	05/12/25 18:08	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

09996

Hydro-Environmental Technology, Inc.
Mr. Stewart Stover, Jr.
620 Apollo Rd
Scott, LA 70583

Project Gastal

Information : Project Number: 1705.A37
Morse, LA

Report Date : 05/16/2025
Received : 03/05/2025



Report Number : **25-121-0008**

REPORT OF ANALYSIS

Amy Jackson
Project Manager

Lab No : **56435**

Matrix: **Solids**

Sample ID : **B-4 (1-2')**

Sampled: **2/25/2025 15:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	19.1	%	0.050	1	05/09/25 14:14	BXH	SW-DRYWT
% Saturation (Sat Paste)	119	%		1	05/06/25 15:15	TJL	29B
Electrical Conductivity (Sat Paste)	1.78	mmhos/cm		1	05/06/25 15:15	TJL	29B
Cation Exchange Capacity	32.1	meq/100g	0.100	10	05/12/25 19:28		29B
Exchangeable Sodium Percentage	8.59	%	0.100	1	05/06/25 15:15		CALCULATION
Sodium Adsorption Ratio (Sat Paste)	13.1	Calc	0.050	10	05/12/25 18:12		29B
Calcium (Sat Paste)	1.35	meq/L	0.050	10	05/12/25 18:12	APB	29B
Magnesium (Sat Paste)	0.876	meq/L	0.082	10	05/12/25 18:12	APB	29B
Sodium (Sat Paste)	13.8	meq/L	0.220	10	05/12/25 18:12	APB	29B

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 25-121-0008

QC Prep: A102481

QC Prep Batch Method: LA 29B CEC (PREP)

QC Analytical Batch(es): A102640

Analysis Method: 29B

Analysis Description: Cation Exchange Capacity

Lab Reagent Blank

LRB-A102481

Matrix: SOL

Associated Lab Samples: 56434, 56435

Parameter	Units	Blank Result	MQL	Analyzed
Total Sodium CEC	mg/Kg	< 100	100	05/12/25 19:15

Duplicate A 56574-A102477-DUP-A102481

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Sodium CEC	mg/Kg	4980	4850	2.6	30.0	05/12/25 20:14

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 25-121-0008

QC Prep: A102482

QC Prep Batch Method: 29B

QC Analytical Batch(es): A102641

Analysis Method: 29B

Analysis Description: Exchangeable Sodium Percentage

Duplicate A 56574-A102477-DUP-A102482

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Sodium ESP	meq/100g	26.5	26.7	0.7	30.0	05/12/25 21:39

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 25-121-0008

QC Prep: A102480

QC Prep Batch Method: 29B

QC Analytical Batch(es): A102509,A102639

Analysis Method: 29B

Analysis Description: Saturated Paste Extraction

Duplicate A 56575-A102477-DUP-A102480

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Saturation (Sat Paste)	%	63.7	64.5	1.2	30.0	05/06/25 15:15
Electrical Conductivity (Sat Paste)	mmhos/cm	47.9	48.9	2.0	30.0	05/06/25 15:15

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 25-121-0008

QC Prep: A102480

QC Prep Batch Method: 29B

QC Analytical Batch(es): A102509,A102639

Analysis Method: 29B

Analysis Description: Saturated Paste Extraction

Duplicate A 56575-A102477-DUP-A102480

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Calcium (Sat Paste)	meq/L	184	188	2.1	30.0	05/12/25 19:03
Magnesium (Sat Paste)	meq/L	53.7	55.4	3.1	30.0	05/12/25 19:03
Sodium (Sat Paste)	meq/L	287	295	2.7	30.0	05/12/25 19:03

Quality Control Data

Client ID: Hydro-Environmental Technology, Inc.

Project Description: Gastal

Report No: 25-121-0008

QC Analytical Batch: A102514

Analysis Method: SW-DRYWT

Analysis Description: Dry Weight Determination

Duplicate A 56541-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
% Moisture	%	75.4	74.8	0.7	20.0	05/09/25 14:14

Shipment Receipt Form

Customer Number: **09996**

Customer Name: **Hydro-Environmental Technology, Inc.**

Report Number: **25-121-0008**

Shipping Method

☐ Fed Ex	☐ US Postal	☒ Lab	☐ Other :	
☐ UPS	☐ Client	☐ Courier	Thermometer ID:	IR 2

Shipping container/cooler uncompromised?	☒ Yes	☐ No
Number of coolers/boxes received	1	
Custody seals intact on shipping container/cooler?	☐ Yes	☐ No ☒ Not Present
Custody seals intact on sample bottles?	☐ Yes	☐ No ☒ Not Present
Chain of Custody (COC) present?	☒ Yes	☐ No
COC agrees with sample label(s)?	☒ Yes	☐ No
COC properly completed	☒ Yes	☐ No
Samples in proper containers?	☒ Yes	☐ No
Sample containers intact?	☒ Yes	☐ No
Sufficient sample volume for indicated test(s)?	☒ Yes	☐ No
All samples received within holding time?	☒ Yes	☐ No
Cooler temperature in compliance?	☒ Yes	☐ No ☐ Not Present
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	☒ Yes	☐ No
Water - Sample containers properly preserved	☐ Yes	☐ No ☒ N/A
Water - VOA vials free of headspace	☐ Yes	☐ No ☒ N/A
Trip Blanks received with VOAs	☐ Yes	☐ No ☒ N/A
Soil VOA method 5035 – compliance criteria met	☐ Yes	☐ No ☒ N/A
☐ High concentration container (48 hr)	☐ Low concentration EnCore samplers (48 hr)	
☐ High concentration pre-weighed (methanol -14 d)	☐ Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	☐ Yes	☒ No

Comments:

Signature:

Christina R. Varuso

Date & Time:

03/05/2025 14:59:00



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.

Environmental C
P.O. Box 6
Lafayette, LA 70
Phone (337) 261-1963 F



Hydro-Environmental Technology, Inc.
Gastal

25-121-0008
09996
05-01-2025
11:21:34

SAMPLE CHAIN-OF-CI

Project Name: Gastal Laboratory: Waypoint
Project Number: 1705 A37 Collected By: TW
Project Location: Morse, LA Company: Hydro-Environmental Technology, Inc.
Date: 2/25/2025

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
B-1 (0-1') 52347	SO	2/25/2025	1015	(1) 16oz Jar	EC, ESP, SAR	4°C
B-1 (1-2') 52348	SO	2/25/2025	1015	(1) 16oz Jar	EC, ESP, SAR	4°C
B-2 (0-1') 52349	SO	2/25/2025	1420	(1) 16oz Jar	EC, ESP, SAR	4°C
B-2 (1-2') 52350	SO	2/25/2025	1420	(1) 16oz Jar	EC, ESP, SAR	4°C
B-3 (0-1') 52351	SO	2/25/2025	1445	(1) 16oz Jar	EC, ESP, SAR	4°C

HOLD for possible analysis of additional parameters

Relinquished By: <u>[Signature]</u>	Received By: <u>P. Howard</u>
Date/Time: <u>3/5/25 0840</u>	Date/Time: <u>3-5-25 0840</u>
Relinquished By: <u>P. Howard</u>	Received By: <u>Kathy Hendrix</u>
Date/Time: <u>3-5-25 0950</u>	Date/Time: <u>03/05/25 0950</u>
Analysis Due: Verbal <u>[Signature]</u>	Written: <u>[Signature]</u>
Rec'd by: <u>3/5/25 JAS</u>	Relinquish by: <u>3/5/25 01459</u>



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
 Environmental Consultants
 P.O. Box 60295
 Lafayette, LA 70596-0295
 Phone (337) 261-1963 FAX (337) 261-1953

SAMPLE CHAIN-OF-CUSTODY RECORD

Project Name: Gastal Laboratory: Waypoint
 Project Number: 1705 A37 Collected By: TW
 Project Location: Morse, LA Company: Hydro-Environmental Technology, Inc.
 Date: 2/25/2025

Sample I.D.	Type	Date/Time Sampled		Containers	Analysis Requested/Method	Comments
B-3 (1-2') 52352	SO	2/25/2025	1445	(1) 16oz Jar	EC, ESP, SAR	4°C
B-4 (0-1') 52353	SO	2/25/2025	1500	(1) 16oz Jar	HOLD: EC, ESP, SAR	4°C
B-4 (1-2') 52354	SO	2/25/2025	1500	(1) 16oz Jar	HOLD: EC, ESP, SAR	4°C
B-5 (0-1') 52355	SO	2/25/2025	1520	(1) 16oz Jar	EC, ESP, SAR	4°C
B-5 (1-2') 52356	SO	2/25/2025	1520	(1) 16oz Jar	EC, ESP, SAR	4°C

HOLD for possible analysis of additional parameters

Relinquished By: <u>Todd Webb</u>	Received By: <u>P. Howard</u>
Date/Time: <u>3/5/25 0840</u>	Date/Time: <u>3-5-25 0840</u>
Relinquished By: <u>P. Howard</u>	Received By: <u>Kathy Hendrix</u>
Date/Time: <u>3-5-25 0950</u>	Date/Time: <u>03/05/25 0950</u>
Analysis Due: <u>Verbal</u>	Written: <u>3/5/25 @ 1459</u>
Rec'd by: <u>3/5/25 JBS</u>	Relinquish by: <u>3/5/25 @ 1459</u>