

Report to:  
Kyle Siesser



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Cottonwood Consulting

Project Name: Frank Davis A#1

Work Order: E308040

Job Number: 20035-C-0001

Received: 8/7/2023

Revision: 4

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/25/23

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.  
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Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/25/23



Kyle Siesser  
PO Box 1653  
Durango, CO 81302

Project Name: Frank Davis A#1  
Workorder: E308040  
Date Received: 8/7/2023 1:37:00PM

Kyle Siesser,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/7/2023 1:37:00PM, under the Project Name: Frank Davis A#1.

The analytical test results summarized in this report with the Project Name: Frank Davis A#1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

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**Rayny Hagan**  
Technical Representative  
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## Sample Summary

Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project Name: Frank Davis A#1  
Project Number: 20035-C-0001  
Project Manager: Kyle Siesser

**Reported:**  
08/25/23 13:37

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01	E308040-01A	Soil	08/05/23	08/07/23	Glass Jar, 4 oz.
	E308040-01B	Soil	08/05/23	08/07/23	Glass Jar, 4 oz.
	E308040-01C	Soil	08/05/23	08/07/23	Plastic Baggie
BG01	E308040-02A	Soil	08/05/23	08/07/23	Plastic Baggie
BG02	E308040-03A	Soil	08/05/23	08/07/23	Plastic Baggie



Case Narrative:

Project Name: { Frank Davis A#1 }

Workorder: { E308040 }

Date Received: {08/07/2023}

Client Kyle Siesser requested the hexavalent chromium results performed by Pace Analytical to be added to this report replacing the original data results from Envirotech, Inc.

If you have any questions regarding this report please feel free to contact Envirotech Inc.

Respectfully,

Walter Hinchman



# Sample Data

Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project Name: Frank Davis A#1  
Project Number: 20035-C-0001  
Project Manager: Kyle Siesser

**Reported:**  
8/25/2023 1:37:44PM

## SS01

### E308040-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2332021	
Benzene	ND	0.0250	1	08/07/23	08/08/23	
Ethylbenzene	ND	0.0250	1	08/07/23	08/08/23	
1-Methylnaphthalene	ND	0.200	1	08/07/23	08/08/23	
2-Methylnaphthalene	ND	0.200	1	08/07/23	08/08/23	
Naphthalene	ND	0.100	1	08/07/23	08/08/23	
1,2,4-Trimethylbenzene	ND	0.100	1	08/07/23	08/08/23	
1,3,5-Trimethylbenzene	ND	0.0250	1	08/07/23	08/08/23	
Toluene	ND	0.0250	1	08/07/23	08/08/23	
o-Xylene	ND	0.0250	1	08/07/23	08/08/23	
p,m-Xylene	ND	0.0500	1	08/07/23	08/08/23	
Total Xylenes	ND	0.0250	1	08/07/23	08/08/23	
<i>Surrogate: Bromofluorobenzene</i>	<i>94.9 %</i>	<i>70-130</i>		<i>08/07/23</i>	<i>08/08/23</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>97.6 %</i>	<i>70-130</i>		<i>08/07/23</i>	<i>08/08/23</i>	
<i>Surrogate: Toluene-d8</i>	<i>90.9 %</i>	<i>70-130</i>		<i>08/07/23</i>	<i>08/08/23</i>	
<b>Wet Chemistry by 9050A/2510B</b>						
	uS/cm	uS/cm	Analyst: KF		Batch: 2332033	
Specific Conductance (@ 25 C)	<b>610</b>	10.0	1	08/08/23	08/08/23	
<b>Wet Chemistry by EPA 9045D</b>						
	pH Units	pH Units	Analyst: BA		Batch: 2332024	
pH @25°C	<b>8.78</b>		1	08/08/23	08/08/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2332021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/23	08/08/23	
<i>Surrogate: Bromofluorobenzene</i>	<i>94.9 %</i>	<i>70-130</i>		<i>08/07/23</i>	<i>08/08/23</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>97.6 %</i>	<i>70-130</i>		<i>08/07/23</i>	<i>08/08/23</i>	
<i>Surrogate: Toluene-d8</i>	<i>90.9 %</i>	<i>70-130</i>		<i>08/07/23</i>	<i>08/08/23</i>	



# Sample Data

Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project Name: Frank Davis A#1  
Project Number: 20035-C-0001  
Project Manager: Kyle Siesser

**Reported:**  
8/25/2023 1:37:44PM

## SS01

### E308040-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332031
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/23	08/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/23	08/08/23	
<i>Surrogate: n-Nonane</i>		<i>105 %</i>	<i>50-200</i>	<i>08/08/23</i>	<i>08/08/23</i>	
<b>Total Metals by EPA 6010C</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2332009
Arsenic	<b>1.66</b>	0.500	1	08/08/23	08/08/23	
Barium	<b>381</b>	6.25	1	08/08/23	08/08/23	
Cadmium	ND	0.250	1	08/08/23	08/08/23	
Copper	<b>15.8</b>	0.500	1	08/08/23	08/08/23	
Lead	<b>9.83</b>	0.250	1	08/08/23	08/08/23	
Nickel	<b>5.00</b>	1.25	1	08/08/23	08/08/23	
Selenium	ND	1.25	1	08/08/23	08/08/23	
Silver	ND	0.250	1	08/08/23	08/08/23	
Zinc	<b>43.0</b>	2.50	1	08/08/23	08/08/23	
<b>Soil Paste (SP) Leaching Procedure</b>						
	mg/L	mg/L		Analyst: JL		Batch: 2332025
Calcium	<b>104</b>	1.00	1	08/08/23	08/08/23	
Magnesium	<b>36.4</b>	1.00	1	08/08/23	08/08/23	
Sodium	<b>146</b>	2.00	1	08/08/23	08/08/23	
Sodium Absorption Ratio (CALC)	<b>3.31</b>		10	08/08/23	08/08/23	
<b>Boron-Hot Water Soluble by EPA 6010C</b>						
	mg/L	mg/L		Analyst: JL		Batch: 2332032
Boron	ND	2.00	1	08/08/23	08/08/23	



# Sample Data

Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project Name: Frank Davis A#1  
Project Number: 20035-C-0001  
Project Manager: Kyle Siesser

**Reported:**  
8/25/2023 1:37:44PM

## BG01 E308040-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Wet Chemistry by 9050A/2510B</b>						
Specific Conductance (@ 25 C)	<b>106</b>	10.0	1	08/08/23	08/08/23	Batch: 2332033
<b>Wet Chemistry by EPA 9045D</b>						
pH @25°C	<b>8.27</b>	pH Units	1	08/08/23	08/08/23	Batch: 2332024
<b>Total Metals by EPA 6010C</b>						
Arsenic	<b>0.775</b>	0.500	1	08/08/23	08/08/23	Batch: 2332009
Barium	<b>334</b>	6.25	1	08/08/23	08/08/23	
Cadmium	ND	0.250	1	08/08/23	08/08/23	
Copper	<b>19.4</b>	0.500	1	08/08/23	08/08/23	
Lead	<b>10.2</b>	0.250	1	08/08/23	08/08/23	
Nickel	<b>5.43</b>	1.25	1	08/08/23	08/08/23	
Selenium	ND	1.25	1	08/08/23	08/08/23	
Silver	ND	0.250	1	08/08/23	08/08/23	
Zinc	<b>45.0</b>	2.50	1	08/08/23	08/08/23	
<b>Soil Paste (SP) Leaching Procedure</b>						
Calcium	<b>46.1</b>	1.00	1	08/08/23	08/08/23	Batch: 2332025
Magnesium	<b>6.04</b>	1.00	1	08/08/23	08/08/23	
Sodium	<b>12.4</b>	2.00	1	08/08/23	08/08/23	
Sodium Absorption Ratio (CALC)	<b>0.456</b>		10	08/08/23	08/08/23	
<b>Boron-Hot Water Soluble by EPA 6010C</b>						
Boron	ND	2.00	1	08/08/23	08/08/23	Batch: 2332032



# Sample Data

Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project Name: Frank Davis A#1  
Project Number: 20035-C-0001  
Project Manager: Kyle Siesser

**Reported:**  
8/25/2023 1:37:44PM

## BG02 E308040-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Wet Chemistry by 9050A/2510B</b>						
Specific Conductance (@ 25 C)	159	10.0	1	08/08/23	08/08/23	Batch: 2332033
<b>Wet Chemistry by EPA 9045D</b>						
pH @25°C	6.15	pH Units	1	08/08/23	08/08/23	Batch: 2332024
<b>Total Metals by EPA 6010C</b>						
Arsenic	1.65	0.500	1	08/08/23	08/08/23	Batch: 2332009
Barium	440	6.25	1	08/08/23	08/08/23	
Cadmium	ND	0.250	1	08/08/23	08/08/23	
Copper	13.8	0.500	1	08/08/23	08/08/23	
Lead	10.5	0.250	1	08/08/23	08/08/23	
Nickel	6.41	1.25	1	08/08/23	08/08/23	
Selenium	ND	1.25	1	08/08/23	08/08/23	
Silver	ND	0.250	1	08/08/23	08/08/23	
Zinc	40.4	2.50	1	08/08/23	08/08/23	
<b>Soil Paste (SP) Leaching Procedure</b>						
Calcium	93.8	1.00	1	08/08/23	08/08/23	Batch: 2332025
Magnesium	22.3	1.00	1	08/08/23	08/08/23	
Sodium	ND	2.00	1	08/08/23	08/08/23	
Sodium Absorption Ratio (CALC)	0.00		10	08/08/23	08/08/23	
<b>Boron-Hot Water Soluble by EPA 6010C</b>						
Boron	ND	2.00	1	08/08/23	08/08/23	Batch: 2332032



# QC Summary Data

Cottonwood Consulting	Project Name: Frank Davis A#1	<b>Reported:</b>
PO Box 1653	Project Number: 20035-C-0001	
Durango CO, 81302	Project Manager: Kyle Siesser	8/25/2023 1:37:44PM

## Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

### Blank (2332021-BLK1)

Prepared: 08/07/23 Analyzed: 08/08/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
1-Methylnaphthalene	ND	0.200							
2-Methylnaphthalene	ND	0.200							
Naphthalene	ND	0.100							
1,2,4-Trimethylbenzene	ND	0.100							
1,3,5-Trimethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
<hr/>									
Surrogate: Bromofluorobenzene	0.474		0.500		94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

### LCS (2332021-BS1)

Prepared: 08/07/23 Analyzed: 08/08/23

Benzene	2.69	0.0250	2.50		108	70-130			
Ethylbenzene	2.22	0.0250	2.50		88.9	70-130			
1-Methylnaphthalene	2.60	0.200	2.50		104	43-162			
2-Methylnaphthalene	1.62	0.200	2.50		65.0	50-159			
Naphthalene	2.04	0.100	2.50		81.8	70-132			
1,2,4-Trimethylbenzene	2.07	0.100	2.50		82.7	70-130			
1,3,5-Trimethylbenzene	2.16	0.0250	2.50		86.6	70-130			
Toluene	2.19	0.0250	2.50		87.4	70-130			
o-Xylene	2.18	0.0250	2.50		87.1	70-130			
p,m-Xylene	4.26	0.0500	5.00		85.2	70-130			
Total Xylenes	6.44	0.0250	7.50		85.8	70-130			
<hr/>									
Surrogate: Bromofluorobenzene	0.475		0.500		94.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Surrogate: Toluene-d8	0.453		0.500		90.5	70-130			

### Matrix Spike (2332021-MS1)

Source: E308040-01

Prepared: 08/07/23 Analyzed: 08/08/23

Benzene	2.62	0.0250	2.50	ND	105	48-131			
Ethylbenzene	2.20	0.0250	2.50	ND	88.0	45-135			
1-Methylnaphthalene	2.54	0.200	2.50	ND	101	35-173			
2-Methylnaphthalene	1.61	0.200	2.50	ND	64.2	33-175			
Naphthalene	2.02	0.100	2.50	ND	80.8	18-145			
1,2,4-Trimethylbenzene	2.03	0.100	2.50	ND	81.0	33-139			
1,3,5-Trimethylbenzene	2.10	0.0250	2.50	ND	84.2	37-138			
Toluene	2.16	0.0250	2.50	ND	86.4	48-130			
o-Xylene	2.11	0.0250	2.50	ND	84.3	43-135			
p,m-Xylene	4.12	0.0500	5.00	ND	82.4	43-135			
Total Xylenes	6.23	0.0250	7.50	ND	83.1	43-135			
<hr/>									
Surrogate: Bromofluorobenzene	0.473		0.500		94.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.457		0.500		91.3	70-130			

### Matrix Spike Dup (2332021-MSD1)

Source: E308040-01

Prepared: 08/07/23 Analyzed: 08/08/23

Benzene	2.60	0.0250	2.50	ND	104	48-131	0.804	23	
Ethylbenzene	2.18	0.0250	2.50	ND	87.1	45-135	1.03	27	
1-Methylnaphthalene	2.62	0.200	2.50	ND	105	35-173	3.28	35	
2-Methylnaphthalene	1.64	0.200	2.50	ND	65.6	33-175	2.09	35	
Naphthalene	2.04	0.100	2.50	ND	81.6	18-145	0.960	34	
1,2,4-Trimethylbenzene	2.04	0.100	2.50	ND	81.5	33-139	0.542	31	
1,3,5-Trimethylbenzene	2.12	0.0250	2.50	ND	84.6	37-138	0.545	31	
Toluene	2.14	0.0250	2.50	ND	85.5	48-130	1.00	24	
o-Xylene	2.13	0.0250	2.50	ND	85.3	43-135	1.18	27	
p,m-Xylene	4.16	0.0500	5.00	ND	83.1	43-135	0.822	27	
Total Xylenes	6.29	0.0250	7.50	ND	83.8	43-135	0.943	27	
<hr/>									
Surrogate: Bromofluorobenzene	0.475		0.500		95.0	70-130			

## QC Summary Data

Cottonwood Consulting	Project Name: Frank Davis A#1	<b>Reported:</b>
PO Box 1653	Project Number: 20035-C-0001	
Durango CO, 81302	Project Manager: Kyle Siesser	8/25/2023 1:37:44PM

### Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

**Matrix Spike Dup (2332021-MSD1)**

**Source: E308040-01**

Prepared: 08/07/23 Analyzed: 08/08/23

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.505</i>		<i>0.500</i>		<i>101</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.449</i>		<i>0.500</i>		<i>89.8</i>	<i>70-130</i>			



# QC Summary Data

Cottonwood Consulting	Project Name: Frank Davis A#1	<b>Reported:</b>
PO Box 1653	Project Number: 20035-C-0001	
Durango CO, 81302	Project Manager: Kyle Siesser	8/25/2023 1:37:44PM

## Wet Chemistry by 9050A/2510B

Analyst: KF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	uS/cm	uS/cm	uS/cm	uS/cm	%	%	%	%	

**Blank (2332033-BLK1)**

Prepared: 08/08/23 Analyzed: 08/08/23

Specific Conductance (@ 25 C)	ND	10.0							
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**LCS (2332033-BS1)**

Prepared: 08/08/23 Analyzed: 08/08/23

Specific Conductance (@ 25 C)	1410	10.0	1410		100	98-102			
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**Duplicate (2332033-DUP1)**

**Source: E308026-01**

Prepared: 08/08/23 Analyzed: 08/08/23

Specific Conductance (@ 25 C)	5080	10.0		5090		0.197	20		
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# QC Summary Data

Cottonwood Consulting	Project Name: Frank Davis A#1	<b>Reported:</b>
PO Box 1653	Project Number: 20035-C-0001	
Durango CO, 81302	Project Manager: Kyle Siesser	8/25/2023 1:37:44PM

## Wet Chemistry by EPA 9045D

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	pH Units	pH Units	pH Units	pH Units	%	%	%	%	

**LCS (2332024-BS1)**

Prepared: 08/08/23 Analyzed: 08/08/23

pH	8.06		8.00		101	98.75-101.25			
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**Duplicate (2332024-DUP1)**

**Source: E308026-01**

Prepared: 08/08/23 Analyzed: 08/08/23

pH	7.37			7.37			0.00	20	
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# QC Summary Data

Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project Name: Frank Davis A#1 Project Number: 20035-C-0001 Project Manager: Kyle Siesser	Reported: 8/25/2023 1:37:44PM
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## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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### Blank (2332021-BLK1)

Prepared: 08/07/23 Analyzed: 08/08/23

Gasoline Range Organics (C6-C10)	ND	20.0				70-130			
Surrogate: Bromofluorobenzene	0.474		0.500		94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

### LCS (2332021-BS2)

Prepared: 08/07/23 Analyzed: 08/08/23

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.1	70-130			
Surrogate: Bromofluorobenzene	0.476		0.500		95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.461		0.500		92.1	70-130			

### Matrix Spike (2332021-MS2)

Source: E308040-01

Prepared: 08/07/23 Analyzed: 08/08/23

Gasoline Range Organics (C6-C10)	43.6	20.0	50.0	ND	87.2	70-130			
Surrogate: Bromofluorobenzene	0.475		0.500		94.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.453		0.500		90.5	70-130			

### Matrix Spike Dup (2332021-MSD2)

Source: E308040-01

Prepared: 08/07/23 Analyzed: 08/08/23

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.2	70-130	2.37	20	
Surrogate: Bromofluorobenzene	0.477		0.500		95.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.463		0.500		92.6	70-130			

# QC Summary Data

Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project Name: Frank Davis A#1 Project Number: 20035-C-0001 Project Manager: Kyle Siesser	Reported: 8/25/2023 1:37:44PM
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## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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### Blank (2332031-BLK1)

Prepared: 08/08/23 Analyzed: 08/08/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	54.3		50.0		109	50-200			

### LCS (2332031-BS1)

Prepared: 08/08/23 Analyzed: 08/08/23

Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: <i>n</i> -Nonane	53.5		50.0		107	50-200			

### Matrix Spike (2332031-MS1)

Source: E308041-01

Prepared: 08/08/23 Analyzed: 08/08/23

Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: <i>n</i> -Nonane	50.3		50.0		101	50-200			

### Matrix Spike Dup (2332031-MSD1)

Source: E308041-01

Prepared: 08/08/23 Analyzed: 08/08/23

Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	38-132	1.82	20	
Surrogate: <i>n</i> -Nonane	52.1		50.0		104	50-200			



# QC Summary Data

Cottonwood Consulting	Project Name: Frank Davis A#1	<b>Reported:</b>
PO Box 1653	Project Number: 20035-C-0001	
Durango CO, 81302	Project Manager: Kyle Siesser	8/25/2023 1:37:44PM

## Total Metals by EPA 6010C

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

### Blank (2332009-BLK1)

Prepared: 08/08/23 Analyzed: 08/08/23

Arsenic	ND	0.500
Barium	ND	6.25
Cadmium	ND	0.250
Copper	ND	0.500
Lead	ND	0.250
Nickel	ND	1.25
Selenium	ND	1.25
Silver	ND	0.250
Zinc	ND	2.50

### LCS (2332009-BS1)

Prepared: 08/08/23 Analyzed: 08/08/23

Arsenic	13.1	0.500	12.5	105	80-120
Barium	318	6.25	313	102	80-120
Cadmium	6.23	0.250	6.25	99.6	80-120
Copper	13.0	0.500	12.5	104	80-120
Lead	6.42	0.250	6.25	103	80-120
Nickel	31.2	1.25	31.3	99.9	80-120
Selenium	31.8	1.25	31.3	102	80-120
Silver	2.13	0.250	2.50	85.2	80-120
Zinc	61.9	2.50	62.5	99.0	80-120

### Matrix Spike (2332009-MS1)

Source: E308010-01

Prepared: 08/08/23 Analyzed: 08/08/23

Arsenic	18.1	0.500	12.5	6.66	91.9	75-125	
Barium	79.9	6.25	313	59.6	6.47	75-125	M2
Cadmium	4.79	0.250	6.25	ND	76.6	75-125	
Copper	17.3	0.500	12.5	6.97	82.3	75-125	
Lead	12.9	0.250	6.25	8.31	73.3	75-125	M2
Nickel	34.1	1.25	31.3	11.2	73.3	75-125	M2
Selenium	28.1	1.25	31.3	ND	89.9	75-125	
Silver	1.90	0.250	2.50	ND	76.0	75-125	
Zinc	97.6	2.50	62.5	45.8	83.0	75-125	

### Matrix Spike Dup (2332009-MSD1)

Source: E308010-01

Prepared: 08/08/23 Analyzed: 08/08/23

Arsenic	18.4	0.500	12.5	6.66	93.8	75-125	1.30	20	
Barium	72.2	6.25	313	59.6	4.03	75-125	10.0	20	M2
Cadmium	4.80	0.250	6.25	ND	76.8	75-125	0.261	20	
Copper	17.5	0.500	12.5	6.97	84.0	75-125	1.20	20	
Lead	12.9	0.250	6.25	8.31	72.9	75-125	0.194	20	M2
Nickel	34.3	1.25	31.3	11.2	73.8	75-125	0.439	20	M2
Selenium	28.0	1.25	31.3	ND	89.4	75-125	0.535	20	
Silver	1.92	0.250	2.50	ND	76.9	75-125	1.18	20	
Zinc	98.6	2.50	62.5	45.8	84.5	75-125	0.994	20	



# QC Summary Data

Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project Name: Frank Davis A#1 Project Number: 20035-C-0001 Project Manager: Kyle Siesser	Reported: 8/25/2023 1:37:44PM
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## Soil Paste (SP) Leaching Procedure

Analyst: JL

Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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### Blank (2332025-BLK1)

Prepared: 08/08/23 Analyzed: 08/08/23

Calcium	ND	1.00
Magnesium	ND	1.00
Sodium	ND	2.00

### LCS (2332025-BS1)

Prepared: 08/08/23 Analyzed: 08/08/23

Calcium	51.4	1.00	50.0	103	80-120
Magnesium	52.6	1.00	50.0	105	80-120
Sodium	19.1	2.00	20.0	95.3	80-120

### Matrix Spike (2332025-MS1)

Source: E308026-01

Prepared: 08/08/23 Analyzed: 08/08/23

Calcium	6970	20.0	50.0	6560	812	75-125	M4
Magnesium	351	20.0	50.0	303	96.4	75-125	
Sodium	354	40.0	20.0	341	62.0	75-125	M4

### Matrix Spike Dup (2332025-MSD1)

Source: E308026-01

Prepared: 08/08/23 Analyzed: 08/08/23

Calcium	7250	20.0	50.0	6560	NR	75-125	3.99	20	M4
Magnesium	359	20.0	50.0	303	112	75-125	2.25	20	
Sodium	375	40.0	20.0	341	168	75-125	5.82	20	M4



# QC Summary Data

Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project Name: Frank Davis A#1 Project Number: 20035-C-0001 Project Manager: Kyle Siesser	Reported: 8/25/2023 1:37:44PM
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## Boron-Hot Water Soluble by EPA 6010C

Analyst: JL

Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2332032-BLK1)**

Prepared: 08/08/23 Analyzed: 08/08/23

Boron	ND	2.00							
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**LCS (2332032-BS1)**

Prepared: 08/08/23 Analyzed: 08/08/23

Boron	56.6		50.0		113	80-120			
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**Matrix Spike (2332032-MS1)**

**Source: E308040-01**

Prepared: 08/08/23 Analyzed: 08/08/23

Boron	52.9		50.0	0.0819	106	75-125			
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**Matrix Spike Dup (2332032-MSD1)**

**Source: E308040-01**

Prepared: 08/08/23 Analyzed: 08/08/23

Boron	53.7		50.0	0.0819	107	75-125	1.63	20	
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**QC Summary Report Comment:**

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

## Definitions and Notes

Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project Name: Frank Davis A#1  
Project Number: 20035-C-0001  
Project Manager: Kyle Siesser

**Reported:**  
08/25/23 13:37

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.





Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Cottonwood Consulting	Date Received: 08/07/23 13:37	Work Order ID: E308040
Phone: 970-764-7356	Date Logged In: 08/07/23 11:17	Logged In By: Alexa Michaels
Email: ksiesser@cottonwoodconsulting.com	Due Date: 08/08/23 17:00 (1 day TAT)	

**Chain of Custody (COC)**

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
- 5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

**Comments/Resolution**

Rush ASAP. Please send draft of what is ready next day. - per K. Siesser

**Sample Turn Around Time (TAT)**

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

**Sample Cooler**

- 7. Was a sample cooler received? Yes
- 8. If yes, was cooler received in good condition? Yes
- 9. Was the sample(s) received intact, i.e., not broken? Yes
- 10. Were custody/security seals present? No
- 11. If yes, were custody/security seals intact? NA
- 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

**Sample Container**

- 14. Are aqueous VOC samples present? No
- 15. Are VOC samples collected in VOA Vials? NA
- 16. Is the head space less than 6-8 mm (pea sized or less)? NA
- 17. Was a trip blank (TB) included for VOC analyses? NA
- 18. Are non-VOC samples collected in the correct containers? Yes
- 19. Is the appropriate volume/weight or number of sample containers collected? Yes

**Field Label**

- 20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

**Sample Preservation**

- 21. Does the COC or field labels indicate the samples were preserved? No
- 22. Are sample(s) correctly preserved? NA
- 24. Is lab filtration required and/or requested for dissolved metals? No

**Multiphase Sample Matrix**

- 26. Does the sample have more than one phase, i.e., multiphase? No
- 27. If yes, does the COC specify which phase(s) is to be analyzed? NA

**Subcontract Laboratory**

- 28. Are samples required to get sent to a subcontract laboratory? Yes
- 29. Was a subcontract laboratory specified by the client and if so who? No Subcontract Lab: Pace Analytical

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



# ANALYTICAL REPORT

August 13, 2023

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## EnviroTech- NM

Sample Delivery Group: L1644356  
Samples Received: 08/10/2023  
Project Number: 20035-C-0001  
Description: Frank Davis A#1  
Site: E308040  
Report To: Raina Schwanz  
5796 US. Highway 64  
Farmington, NM 87401

Entire Report Reviewed By:

Jordan N Zito  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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# SAMPLE SUMMARY

SS01 L1644356-01 Solid

Collected by: K. S.      Collected date/time: 08/05/23 09:45      Received date/time: 08/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2111605	1	08/10/23 16:47	08/11/23 03:31	AED	Mt. Juliet, TN

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jordan N Zito  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	08/11/2023 03:31	<a href="#">WG2111605</a>
Acenaphthene	ND		0.00600	1	08/11/2023 03:31	<a href="#">WG2111605</a>
Acenaphthylene	ND		0.00600	1	08/11/2023 03:31	<a href="#">WG2111605</a>
Benzo(a)anthracene	ND		0.00600	1	08/11/2023 03:31	<a href="#">WG2111605</a>
Benzo(a)pyrene	ND		0.00600	1	08/11/2023 03:31	<a href="#">WG2111605</a>
Benzo(b)fluoranthene	ND		0.00600	1	08/11/2023 03:31	<a href="#">WG2111605</a>
Benzo(g,h,i)perylene	ND		0.00600	1	08/11/2023 03:31	<a href="#">WG2111605</a>
Benzo(k)fluoranthene	ND		0.00600	1	08/11/2023 03:31	<a href="#">WG2111605</a>
Chrysene	ND		0.00600	1	08/11/2023 03:31	<a href="#">WG2111605</a>
Dibenz(a,h)anthracene	ND		0.00600	1	08/11/2023 03:31	<a href="#">WG2111605</a>
Fluoranthene	ND		0.00600	1	08/11/2023 03:31	<a href="#">WG2111605</a>
Fluorene	ND		0.00600	1	08/11/2023 03:31	<a href="#">WG2111605</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	08/11/2023 03:31	<a href="#">WG2111605</a>
Naphthalene	ND		0.0200	1	08/11/2023 03:31	<a href="#">WG2111605</a>
Phenanthrene	ND		0.00600	1	08/11/2023 03:31	<a href="#">WG2111605</a>
Pyrene	ND		0.00600	1	08/11/2023 03:31	<a href="#">WG2111605</a>
1-Methylnaphthalene	ND		0.0200	1	08/11/2023 03:31	<a href="#">WG2111605</a>
2-Methylnaphthalene	ND		0.0200	1	08/11/2023 03:31	<a href="#">WG2111605</a>
2-Chloronaphthalene	ND		0.0200	1	08/11/2023 03:31	<a href="#">WG2111605</a>
(S) p-Terphenyl-d14	62.5		23.0-120		08/11/2023 03:31	<a href="#">WG2111605</a>
(S) Nitrobenzene-d5	72.9		14.0-149		08/11/2023 03:31	<a href="#">WG2111605</a>
(S) 2-Fluorobiphenyl	63.9		34.0-125		08/11/2023 03:31	<a href="#">WG2111605</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3959424-2 08/11/23 00:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	78.8			23.0-120
(S) Nitrobenzene-d5	80.8			14.0-149
(S) 2-Fluorobiphenyl	84.1			34.0-125

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS)

(LCS) R3959424-1 08/11/23 00:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0716	89.5	50.0-126	
Acenaphthene	0.0800	0.0662	82.8	50.0-120	
Acenaphthylene	0.0800	0.0728	91.0	50.0-120	
Benzo(a)anthracene	0.0800	0.0732	91.5	45.0-120	
Benzo(a)pyrene	0.0800	0.0569	71.1	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0585	73.1	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0562	70.3	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0559	69.9	49.0-125	
Chrysene	0.0800	0.0672	84.0	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0564	70.5	47.0-125	
Fluoranthene	0.0800	0.0771	96.4	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3959424-1 08/11/23 00:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0712	89.0	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0664	83.0	46.0-125	
Naphthalene	0.0800	0.0668	83.5	50.0-120	
Phenanthrene	0.0800	0.0670	83.8	47.0-120	
Pyrene	0.0800	0.0638	79.8	43.0-123	
1-Methylnaphthalene	0.0800	0.0678	84.8	51.0-121	
2-Methylnaphthalene	0.0800	0.0722	90.3	50.0-120	
2-Chloronaphthalene	0.0800	0.0662	82.8	50.0-120	
(S) p-Terphenyl-d14			79.0	23.0-120	
(S) Nitrobenzene-d5			96.4	14.0-149	
(S) 2-Fluorobiphenyl			85.9	34.0-125	

L1644352-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1644352-01 08/11/23 02:38 • (MS) R3959424-3 08/11/23 02:56 • (MSD) R3959424-4 08/11/23 03:14

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0772	ND	0.0595	0.0626	77.1	81.1	1	10.0-145			5.08	30
Acenaphthene	0.0772	ND	0.0563	0.0596	72.9	77.2	1	14.0-127			5.69	27
Acenaphthylene	0.0772	ND	0.0597	0.0648	77.3	83.9	1	21.0-124			8.19	25
Benzo(a)anthracene	0.0772	ND	0.0651	0.0648	84.3	83.9	1	10.0-139			0.462	30
Benzo(a)pyrene	0.0772	ND	0.0549	0.0568	71.1	73.6	1	10.0-141			3.40	31
Benzo(b)fluoranthene	0.0772	ND	0.0501	0.0503	64.9	65.2	1	10.0-140			0.398	36
Benzo(g,h,i)perylene	0.0772	ND	0.0467	0.0491	60.5	63.6	1	10.0-140			5.01	33
Benzo(k)fluoranthene	0.0772	ND	0.0466	0.0484	60.4	62.7	1	10.0-137			3.79	31
Chrysene	0.0772	ND	0.0595	0.0594	77.1	76.9	1	10.0-145			0.168	30
Dibenz(a,h)anthracene	0.0772	ND	0.0476	0.0502	61.7	65.0	1	10.0-132			5.32	31
Fluoranthene	0.0772	ND	0.0744	0.0683	96.4	88.5	1	10.0-153			8.55	33
Fluorene	0.0772	ND	0.0617	0.0641	79.9	83.0	1	11.0-130			3.82	29
Indeno(1,2,3-cd)pyrene	0.0772	ND	0.0542	0.0563	70.2	72.9	1	10.0-137			3.80	32
Naphthalene	0.0772	ND	0.0562	0.0586	72.8	75.9	1	10.0-135			4.18	27
Phenanthrene	0.0772	ND	0.0574	0.0580	74.4	75.1	1	10.0-144			1.04	31
Pyrene	0.0772	ND	0.0600	0.0565	77.7	73.2	1	10.0-148			6.01	35
1-Methylnaphthalene	0.0772	ND	0.0576	0.0598	74.6	77.5	1	10.0-142			3.75	28
2-Methylnaphthalene	0.0772	ND	0.0602	0.0618	78.0	80.1	1	10.0-137			2.62	28
2-Chloronaphthalene	0.0772	ND	0.0566	0.0586	73.3	75.9	1	29.0-120			3.47	24
(S) p-Terphenyl-d14					66.7	67.5		23.0-120				
(S) Nitrobenzene-d5					83.9	76.0		14.0-149				
(S) 2-Fluorobiphenyl					72.8	74.2		34.0-125				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

# GLOSSARY OF TERMS

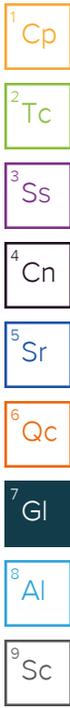
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### Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
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Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.



### Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

# ACCREDITATIONS & LOCATIONS

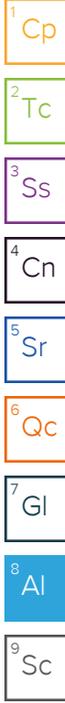
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

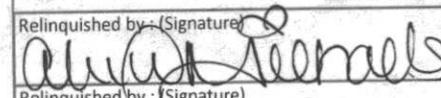
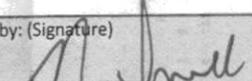
Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



<b>Envirotech Inc.</b> <b>5796 US HWY 64</b> <b>Farmington, NM 87401</b>		Billing Information: <b>Envirotech Inc.</b> <b>5796 US HWY 64</b> <b>Farmington, NM 87401</b>		Pres Chk		Analysis / Container / Preservative						Chain of Custody Page 1 of 1  12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859  L# <u>L1644356</u> <b>A116</b> Acctnum: Template: Prelogin: TSR: PB: Shipped Via: Remarks Sample # (lab only)									
Report to: <b>Alexa and Caitlin</b>		Email to: <b>cmars / labadmin@envirotech-inc.com</b>				(COGCC 915 Table) 8270 PAH SIMS Only 1 Gallon Ziplock Bag / None						L# <u>L1644356</u> <b>A116</b>									
Project Description: <b>Frank Davis A#1</b>		City/State Collected: <b>CO</b>		Client Project # <b>20035-C-0001</b>								Lab Project #		P.O. # <b>LAB</b>		Quote #					
Phone: <b>505-632-1881</b> Fax:		Site/Facility ID # <b>E308040</b>		Rush? (Lab MUST Be Notified) <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input checked="" type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day								Date Results Needed <b>ASAP RUSH!</b>		No. of Cntrs		TSR: PB: Shipped Via: Remarks Sample # (lab only)					
Collected by (print): <b>K. S.</b>		Site/Facility ID # <b>E308040</b>		P.O. # <b>LAB</b>								Quote #		Date Results Needed <b>ASAP RUSH!</b>		TSR: PB: Shipped Via: Remarks Sample # (lab only)					
Collected by (signature):		Rush? (Lab MUST Be Notified) <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input checked="" type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Date Results Needed <b>ASAP RUSH!</b>								No. of Cntrs		TSR: PB: Shipped Via: Remarks Sample # (lab only)		TSR: PB: Shipped Via: Remarks Sample # (lab only)					
Immediately Packed on Ice N ___ Y <input checked="" type="checkbox"/>		Date Results Needed <b>ASAP RUSH!</b>		No. of Cntrs								TSR: PB: Shipped Via: Remarks Sample # (lab only)		TSR: PB: Shipped Via: Remarks Sample # (lab only)		TSR: PB: Shipped Via: Remarks Sample # (lab only)					
Sample ID		Comp/Grab		Matrix *								Depth		Date		Time		No. of Cntrs		TSR: PB: Shipped Via: Remarks Sample # (lab only)	
<b>SS01</b>		<b>SS</b>		<b>SS</b>								<b>8/5/23</b>		<b>9:45</b>		<b>×</b>		<b>×</b>		<b>COGCC EDD -01</b>	
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: <b>Please Complete enclosed ScSRC and return to cmars / labadmin@envirotech-inc.com</b>		Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier								Tracking #		pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: <input type="checkbox"/> NP <input checked="" type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Preservation Correct/Checked: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N		Trip Blank Received: Yes / No <input checked="" type="checkbox"/> HCL / MeOH <input checked="" type="checkbox"/> TBR		If preservation required by Login: Date/Time	
Relinquished by: (Signature) 		Date: <b>8/7/23</b>		Time: <b>1600</b>								Received by: (Signature)		Temp: <b>12.310:123</b>		Bottles Received: <b>1</b>		Hold:		Condition: <input checked="" type="checkbox"/> NCF <input type="checkbox"/> OK	
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Date:		Time:		Hold:		Condition:							
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature) 		Date: <b>8/10/23</b>		Time: <b>0900</b>		Hold:		Condition: <input checked="" type="checkbox"/> NCF <input type="checkbox"/> OK							



# ANALYTICAL REPORT

August 22, 2023

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

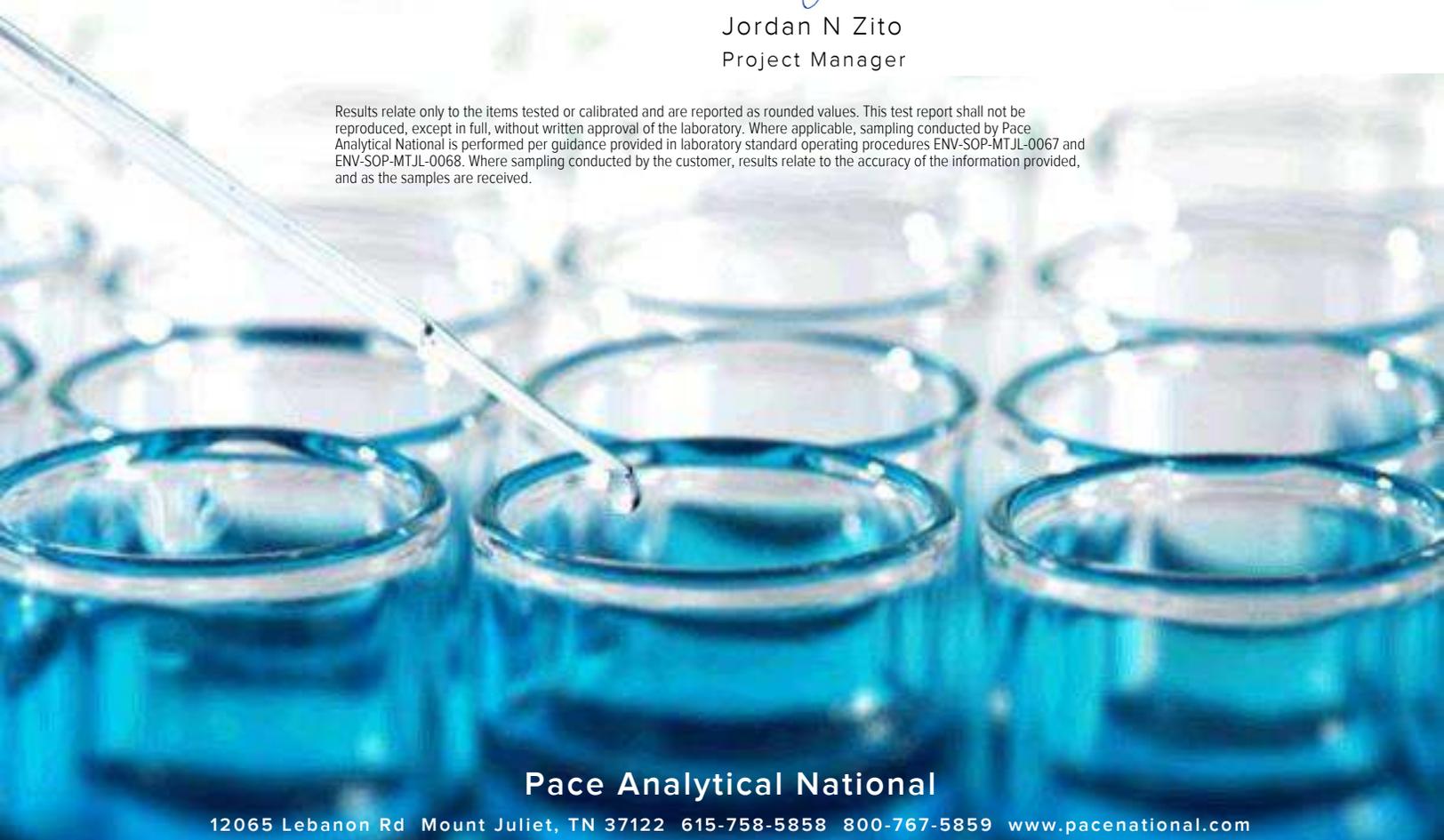
## EnviroTech- NM

Sample Delivery Group: L1646611  
 Samples Received: 08/10/2023  
 Project Number: 20035-C-0001  
 Description: Frank Davis A#1  
 Site: E308040  
 Report To: Raina Schwanz  
 5796 US. Highway 64  
 Farmington, NM 87401

Entire Report Reviewed By:

Jordan N Zito  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

# TABLE OF CONTENTS

<b>Cp: Cover Page</b>	1	
<b>Tc: Table of Contents</b>	2	
<b>Ss: Sample Summary</b>	3	
<b>Cn: Case Narrative</b>	4	
<b>Sr: Sample Results</b>	5	
<b>SS01 L1646611-01</b>	5	
<b>Qc: Quality Control Summary</b>	6	
<b>Wet Chemistry by Method 7199</b>	6	
<b>Gl: Glossary of Terms</b>	7	
<b>Al: Accreditations &amp; Locations</b>	8	
<b>Sc: Sample Chain of Custody</b>	9	
		
		

# SAMPLE SUMMARY

SS01 L1646611-01 Solid

Collected by: K. S.      Collected date/time: 08/05/23 09:45      Received date/time: 08/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2115503	1	08/17/23 01:18	08/21/23 13:36	VSS	Mt. Juliet, TN

- <sup>1</sup>Cp
- <sup>2</sup>Tc
- <sup>3</sup>Ss
- <sup>4</sup>Cn
- <sup>5</sup>Sr
- <sup>6</sup>Qc
- <sup>7</sup>Gl
- <sup>8</sup>Al
- <sup>9</sup>Sc

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jordan N Zito  
Project Manager

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	08/21/2023 13:36	<a href="#">WG2115503</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Method Blank (MB)

(MB) R3963559-1 08/21/23 12:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Hexavalent Chromium	U		0.255	1.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1646298-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1646298-01 08/21/23 12:44 • (DUP) R3963559-7 08/21/23 12:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Hexavalent Chromium	U	U	1	0.000		20

L1646782-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1646782-01 08/21/23 13:41 • (DUP) R3963559-8 08/21/23 13:46

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3963559-2 08/21/23 12:07

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Hexavalent Chromium	10.0	11.3	113	80.0-120	

L1646269-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1646269-01 08/21/23 12:13 • (MS) R3963559-3 08/21/23 12:18 • (MSD) R3963559-4 08/21/23 12:23

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Hexavalent Chromium	20.0	0.611	21.5	21.6	105	105	1	75.0-125			0.170	20

L1646269-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1646269-01 08/21/23 12:13 • (MS) R3963559-5 08/21/23 12:28

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Hexavalent Chromium	643	0.611	529	82.2	50	75.0-125	

# GLOSSARY OF TERMS

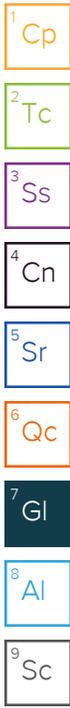
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# ACCREDITATIONS & LOCATIONS

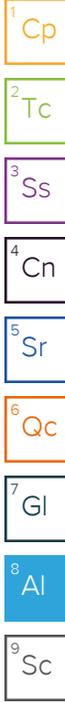
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Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



<b>Envirotech Inc.</b> 5796 US HWY 64 Farmington, NM 87401		Billing Information: <b>Envirotech Inc.</b> 5796 US HWY 64 Farmington, NM 87401		Pres Chk		Analysis / Container / Preservative				Chain of Custody Page 1 of 1			
Report to: <b>Alexa and Caitlin</b>		Email To: <b>cmars / labadmin@envirotech-inc.com</b>		(COGCC 915 Table) 8270 PAH SIMS Only 1 Gallon Ziplock Bag / None						 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859			
Project Description: <b>Frank Davis A#1</b>		City/State Collected: <b>CO</b>								L # <i>Ltd 4356 MS 8/16</i> <b>A116</b>		Acctnum: Template: <i>4646611</i>	
Phone: <b>505-632-1881</b> Fax:		Client Project # <b>20035-C-0001</b>											
Collected by (print): <b>K. S.</b>		Site/Facility ID # <b>E308040</b>								TSR: PB:			
Collected by (signature):		Rush? (Lab MUST Be Notified) <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input checked="" type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Date Results Needed <b>ASAP RUSH!</b>		Shipped Via:							
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>		Quote #						No. of Cntrs					
Sample ID		Comp/Grab		Matrix *		Depth				Date		Time	
<b>SS01</b>				<b>SS</b>				<b>8/5/23</b>		<b>9:45</b>			
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: <b>Please Complete enclosed ScSRC and return to cmars / labadmin@envirotech-inc.com</b>		pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: <input type="checkbox"/> NP <input checked="" type="checkbox"/> N COC Signed/Accurate: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Bottles arrive intact: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Correct bottles used: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Sufficient volume sent: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N If Applicable VOA Zero Headspace: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Preservation Correct/Checked: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N							
Relinquished by: (Signature) <i>[Signature]</i>		Date: <b>8/7/23</b>		Time: <b>1000</b>		Received by: (Signature)		Trip Blank Received: Yes/No <input checked="" type="checkbox"/> HCL / MeOH <input type="checkbox"/> TBR		Bottles Received:			
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: <i>12.3/10=12.3</i>		If preservation required by Login: Date/Time			
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature) <i>[Signature]</i>		Date: <b>8/10/23</b>		Time: <b>0900</b>			
								Hold:		Condition: <input checked="" type="checkbox"/> NCF <input type="checkbox"/> OK			

### L1644352,L1644356 \*ENVIROFNM\* Rush Relog

R2/R3/R4/RX/EX

Please log each sample for CR6IC, confirming rush TAT.

Let me know if not enough sample is remaining for each SDG. I believe these were sent in plastic bags.

**Time estimate:** oh

**Time spent:** oh

#### Members

 JZ Jordan Zito

#### Comments

*Matthew Shacklock*

1 SDG?

16 August 2023 2:12 PM

*Jordan Zito*

Separate SDGs, log under ENVIROFNM-COGCC

16 August 2023 2:12 PM