

Report to:
Sabre Beebe



5796 U.S. Hwy 64
Farmington, NM 87401

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



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Practical Solutions for a Better Tomorrow

Analytical Report

SIMCOE LLC

Project Name: SJS Bradenhead Project

Work Order: E108110

Job Number: 20095-0001

Received: 8/27/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/3/21

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.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/3/21

Sabre Beebe
1199 Main Ave. Suite 242
Durango, CO 81301



Project Name: SJS Bradenhead Project
Workorder: E108110
Date Received: 8/27/2021 3:18:00PM

Sabre Beebe,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/27/2021 3:18:00PM, under the Project Name: SJS Bradenhead Project.

The analytical test results summarized in this report with the Project Name: SJS Bradenhead Project 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,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Tom Brown
Technical Representative
Cell: 832-444-7704
tbrown@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

SIMCOE LLC 1199 Main Ave. Suite 242 Durango CO, 81301	Project Name:	SJS Bradenhead Project	Reported: 09/03/21 11:27
	Project Number:	20095-0001	
	Project Manager:	Sabre Beebe	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Russell Com 001 E 30-045-25964 Separator	E108110-01A	Water	08/27/21	08/27/21	Poly 500mL



Sample Data

SIMCOE LLC 1199 Main Ave. Suite 242 Durango CO, 81301	Project Name: SJS Bradenhead Project Project Number: 20095-0001 Project Manager: Sabre Beebe	Reported: 9/3/2021 11:27:19AM
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Russell Com 001 E 30-045-25964 Separator

E108110-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: RAS		Batch: 2135033	
Total Dissolved Solids	92.5	25.0	1	09/01/21	09/02/21	
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: RAS		Batch: 2136024	
pH @25°C	6.48		1	09/01/21 10:20	09/01/21 11:34	H5
Wet Chemistry by SM2320B	mg/L	mg/L	Analyst: JL		Batch: 2136009	
Total Alkalinity (as CaCO ₃ at pH 4.5)	58.0	10.0	1	08/30/21	08/30/21	
Wet Chemistry by 9050A/2510B	uS/cm	uS/cm	Analyst: RAS		Batch: 2136026	
Specific Conductance (@ 25 C)	139	10.0	1	09/01/21	09/01/21	
Dissolved Metals by EPA 6010C	mg/L	mg/L	Analyst: AC		Batch: 2136003	
Calcium	1.50	1.00	1	08/31/21	08/31/21	
Iron	ND	2.00	1	08/31/21	08/31/21	
Magnesium	ND	1.00	1	08/31/21	08/31/21	
Potassium	ND	1.00	1	08/31/21	08/31/21	
Sodium	10.5	2.00	1	08/31/21	08/31/21	
Sodium Absorption Ratio (CALC)	2.37		1	09/01/21	09/01/21	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: IY		Batch: 2135046	
Fluoride	ND	5.00	20	08/27/21	08/27/21	
Chloride	ND	40.0	20	08/27/21	08/27/21	
Nitrite-N	ND	5.00	20	08/27/21 15:30	08/27/21 20:00	
Nitrate-N	ND	5.00	20	08/27/21 15:30	08/27/21 20:00	
o-Phosphate-P	ND	5.00	20	08/27/21 15:30	08/27/21 20:00	
Sulfate	ND	40.0	20	08/27/21	08/27/21	



QC Summary Data

SIMCOE LLC	Project Name:	SJS Bradenhead Project	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Sabre Beebe	9/3/2021 11:27:19AM

Wet Chem/Gravimetric by SM2540C

Analyst: RAS

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 (2135033-BLK1)

Prepared: 08/26/21 Analyzed: 08/30/21

Total Dissolved Solids	ND	10.0							
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LCS (2135033-BS1)

Prepared: 08/26/21 Analyzed: 08/30/21

Total Dissolved Solids	113	10.0	100		113	55-134			
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Duplicate (2135033-DUP1)

Source: E108085-04 Prepared: 08/26/21 Analyzed: 08/30/21

Total Dissolved Solids	183000	200		191000		4.44	5		
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QC Summary Data

SIMCOE LLC	Project Name:	SJS Bradenhead Project	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Sabre Beebe	9/3/2021 11:27:19AM

Wet Chemistry by 9040C/4500H+B

Analyst: RAS

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

LCS (2136024-BS1) Prepared: 09/01/21 Analyzed: 09/01/21

pH	8.00	8.00	100	98.75-101.25
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Duplicate (2136024-DUP1) Source: E108111-01 Prepared: 09/01/21 Analyzed: 09/01/21

pH	8.01	8.01	0.00	20
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QC Summary Data

SIMCOE LLC	Project Name:	SJS Bradenhead Project	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Sabre Beebe	9/3/2021 11:27:19AM

Wet Chemistry by SM2320B

Analyst: JL

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

LCS (2136009-BS1)					Prepared: 08/30/21 Analyzed: 08/30/21				
Total Alkalinity (as CaCO3 at pH 4.5)	260	10.0	250		104	70-130			
LCS Dup (2136009-BSD1)					Prepared: 08/30/21 Analyzed: 08/30/21				
Total Alkalinity (as CaCO3 at pH 4.5)	265	10.0	250		106	70-130	1.90	20	



QC Summary Data

SIMCOE LLC 1199 Main Ave. Suite 242 Durango CO, 81301	Project Name: SJS Bradenhead Project Project Number: 20095-0001 Project Manager: Sabre Beebe	Reported: 9/3/2021 11:27:19AM
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Wet Chemistry by 9050A/2510B

Analyst: RAS

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

Blank (2136026-BLK1)					Prepared: 09/01/21 Analyzed: 09/01/21				
Specific Conductance (@ 25 C)	ND	10.0							
LCS (2136026-BS1)					Prepared: 09/01/21 Analyzed: 09/01/21				
Specific Conductance (@ 25 C)	1420	10.0	1410		101	98-102			
Duplicate (2136026-DUP1)					Source: E108104-01 Prepared: 09/01/21 Analyzed: 09/01/21				
Specific Conductance (@ 25 C)	60.2	10.0		61.2		1.65	20		



QC Summary Data

SIMCOE LLC	Project Name:	SJS Bradenhead Project	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Sabre Beebe	9/3/2021 11:27:19AM

Dissolved Metals by EPA 6010C

Analyst: AC

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

Blank (2136003-BLK1)

Prepared: 08/31/21 Analyzed: 08/31/21

Calcium	ND	1.00
Iron	ND	2.00
Magnesium	ND	1.00
Potassium	ND	1.00
Sodium	ND	2.00

LCS (2136003-BS1)

Prepared: 08/31/21 Analyzed: 08/31/21

Calcium	50.9	1.00	50.0	102	80-120
Iron	102	2.00	100	102	80-120
Magnesium	50.9	1.00	50.0	102	80-120
Potassium	4.95	1.00	5.00	98.9	80-120
Sodium	18.8	2.00	20.0	94.2	80-120

LCS Dup (2136003-BSD1)

Prepared: 08/31/21 Analyzed: 08/31/21

Calcium	49.7	1.00	50.0	99.4	80-120	2.47	20
Iron	100	2.00	100	100	80-120	2.27	20
Magnesium	50.3	1.00	50.0	101	80-120	1.07	20
Potassium	4.92	1.00	5.00	98.3	80-120	0.568	20
Sodium	18.9	2.00	20.0	94.3	80-120	0.106	20



QC Summary Data

SIMCOE LLC	Project Name:	SJS Bradenhead Project	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Sabre Beebe	9/3/2021 11:27:19AM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2135046-BLK1)

Prepared: 08/27/21 Analyzed: 08/30/21

Fluoride	ND	0.250
Chloride	ND	2.00
Nitrite-N	ND	0.250
Nitrate-N	ND	0.250
o-Phosphate-P	ND	0.250
Sulfate	ND	2.00

LCS (2135046-BS1)

Prepared: 08/27/21 Analyzed: 08/30/21

Fluoride	2.70	0.250	2.50	108	90-110
Chloride	25.1	2.00	25.0	100	90-110
Nitrite-N	2.51	0.250	2.50	100	90-110
Nitrate-N	2.56	0.250	2.50	102	90-110
o-Phosphate-P	12.4	0.250	12.5	99.0	90-110
Sulfate	24.3	2.00	25.0	97.1	90-110

LCS Dup (2135046-BSD1)

Prepared: 08/27/21 Analyzed: 08/30/21

Fluoride	2.60	0.250	2.50	104	90-110	3.77	20
Chloride	25.1	2.00	25.0	101	90-110	0.0677	20
Nitrite-N	2.51	0.250	2.50	100	90-110	0.199	20
Nitrate-N	2.55	0.250	2.50	102	90-110	0.313	20
o-Phosphate-P	12.4	0.250	12.5	99.3	90-110	0.323	20
Sulfate	24.4	2.00	25.0	97.4	90-110	0.370	20

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

SIMCOE LLC	Project Name:	SJS Bradenhead Project	
1199 Main Ave. Suite 242	Project Number:	20095-0001	Reported:
Durango CO, 81301	Project Manager:	Sabre Beebe	09/03/21 11:27

H5 pH is specified to be performed in the field within 15 minutes of sampling. The sample was performed as quickly as possible.

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.





Envirotech Analytical Laboratory

Printed: 8/27/2021 3:27:34PM

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:	SIMCOE LLC	Date Received:	08/27/21 00:00	Work Order ID:	E108110
Phone:	(970) 828-4060	Date Logged In:	08/27/21 15:23	Logged In By:	Raina Schwanz
Email:	sabre.beebe@ikavenergy.com	Due Date:	09/03/21 17:00 (5 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

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

Carrier: Joe Hernandez**Comments/Resolution****Sample Turn Around Time (TAT)**

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

Sample Cooler

7. Was a sample cooler received? No
8. If yes, was cooler received in good condition? NA
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 No

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: 29.3°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? Yes

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? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

Date



envirotech Inc.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 55943

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 55943
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	None	12/20/2021