

FOURTH QUARTER 2019 SITE MONITORING DATA AND NO FURTHER ACTION REQUEST

SULLIVAN 3-1

COGCC SPILL TRACKING # 451307
COGCC REMEDIATION # 12297

Prepared for:



5400 West 11th
Street, Suite C
Greeley, CO 80634

Prepared by:



6855 W 119th Avenue
Broomfield, CO, 80020



November 21, 2019
Mr. David Castro
SRC Energy, Inc.
5400 W. 11th Street, Suite C
Greeley, CO 80634

Subject: **Fourth Quarter 2019 Site Monitoring Report and No Further
Action Request
Sullivan 3-1
Spill/Release Point ID #: 451307
Remediation Project #: 12297
SENW S3 T6N R66W
Weld County, Colorado**

Dear Mr. Castro:

Tasman Geosciences, Inc. (Tasman) has prepared this *Fourth Quarter 2019 Site Monitoring Report* (Report) and *No Further Action (NFA) Request* for SRC Energy, Inc. (SRC) for the Sullivan 3-1 (Site). This Report presents the results of groundwater sampling activities completed on October 18, 2019. The data collected was used to develop the analytical summary tables, groundwater elevation map and groundwater analytical concentration map that are provided in the Report.

Facility Background

The Site is located approximately 1.7 miles west of the town of Eaton in Weld County, Colorado, as shown on Figure 1. The Site is surrounded by crop land and the legal description of the Site is the southeast $\frac{1}{4}$ of the northwest $\frac{1}{4}$ of Section 3, Township 6 North, Range 66 West, of the 6th Principal Meridian. The Site is approximately 1,850 ft. east of Weld County Road 31 and the spill release point has coordinates of 40.519461°, -104.767825°.

A summary of the assessment and excavation of impacted soil and groundwater is presented in the *Sullivan 3-1 Site Assessment Report* (COGCC Document # 401897377) and a summary of confirmation soil sampling and initial groundwater sampling activities is presented in the *Sullivan 3-1 Sampling Summary Report* (COGCC Document # 401932167).

Groundwater Sampling

In response to dissolved phase petroleum hydrocarbon impacts to groundwater previously identified at the Site, quarterly groundwater sampling was conducted between January 31, 2018 and October 18, 2019. Fourth Quarter 2019 laboratory groundwater analytical results indicate groundwater concentrations are below applicable COGCC Table 910-1 groundwater standards. Due to an equipment malfunction, groundwater levels were unable to be collected on October 18, 2019 and the monitoring wells were re-gauged on October 22, 2019.

No Further Action Request

Based on achieving four consecutive quarters of COGCC Table 910-1 compliant groundwater data, a No Further Action (NFA) designation is being requested from the COGCC for this project. Following NFA approval by the COGCC, the Site monitoring wells will be properly plugged and abandoned, and Site reclamation will be completed in compliance with COGCC Rule 1004.

Please contact me at (720) 431-1190 or at bbruns@tasman-geo.com if you require additional information or have questions regarding this project.

Sincerely,



Brandon Bruns, PE
Principal Engineer

Attachments:

Table 1 – Groundwater Elevation Data

Table 2 – Groundwater Analytical Data

Figure 1 – Site Location Map

Figure 2 – Site Overview Map

Figure 3 – Groundwater Potentiometric Surface Contour Map (10/22/2019)

Figure 4 – Groundwater Analytical Results Map (10/18/2019)

Attachment A – Laboratory Analytical Data Report

TABLES

TABLE 1
GROUNDWATER ELEVATION DATA
SRC ENERGY, INC. - SULLIVAN 3-1

Monitoring Well ID	Date	Top of Casing Elevation (ft. AMSL)	Total Depth (ft. BTOC)	Depth to Water (ft. BTOC)	Depth to LNAPL (ft. BTOC)	LNAPL Thickness (ft.)	Groundwater Elevation* (ft. AMSL)
BH01	01/31/18	4887.25	18.16	7.70	ND	ND	4879.55
BH01	01/10/19	4887.25	18.20	8.41	ND	ND	4878.84
BH01	04/30/19	4887.25	18.25	7.64	ND	ND	4879.61
BH01	07/23/19	4887.25	18.19	6.48	ND	ND	4880.77
BH01 ¹	10/22/19	4887.25	18.13	8.22	ND	ND	4879.03
BH02	01/31/18	4887.34	18.15	7.69	ND	ND	4879.65
BH02	01/10/19	4887.34	18.18	8.33	ND	ND	4879.01
BH02	04/30/19	4887.34	18.24	7.59	ND	ND	4879.75
BH02	07/23/19	4887.34	18.21	6.52	ND	ND	4880.82
BH02 ¹	10/22/19	4887.34	18.20	8.14	ND	ND	4879.20
BH03	01/31/18	4887.83	18.15	8.27	ND	ND	4879.56
BH03	01/10/19	4887.83	18.12	9.00	ND	ND	4878.83
BH03	04/30/19	4887.83	18.12	8.23	ND	ND	4879.60
BH03	07/23/19	4887.83	18.10	7.04	ND	ND	4880.79
BH03 ¹	10/22/19	4887.83	18.03	8.80	ND	ND	4879.03
BH04	01/31/18	4888.13	17.76	8.22	ND	ND	4879.91
BH04	01/10/19	4888.13	17.81	8.06	ND	ND	4880.07
BH04	04/30/19	4888.13	17.86	8.17	ND	ND	4879.96
BH04	07/23/19	4888.13	17.81	7.18	ND	ND	4880.95
BH04 ¹	10/22/19	4888.13	17.82	8.78	ND	ND	4879.35
BH05	01/31/18	4888.51	18.42	8.65	ND	ND	4879.86
BH05	01/10/19	4888.51	18.47	9.37	ND	ND	4879.14
BH05	04/30/19	4888.51	18.49	8.69	ND	ND	4879.82
BH05	07/23/19	4888.51	18.45	7.65	ND	ND	4880.86
BH05 ¹	10/22/19	4888.51	18.33	9.26	ND	ND	4879.25
BH06	01/31/18	4887.70	14.85	8.05	ND	ND	4879.65
BH06	01/10/19	4887.70	14.81	8.74	ND	ND	4878.96
BH06	04/30/19	4887.70	14.57	7.98	ND	ND	4879.72
BH06	07/23/19	4887.70	14.57	6.76	ND	ND	4880.94
BH06 ¹	10/22/19	4887.70	14.69	8.55	ND	ND	4879.15

ft. = Feet

AMSL = Above mean sea level

BTOC = Below top of casing

LNAPL = Light non-aqueous phase liquid

ND = No LNAPL detected

1. Due to an equipment malfunction, groundwater levels were unable to be collected during the October 18, 2019 sampling event. The monitoring wells were re-gauged on October 22, 2019.

* Groundwater elevation was corrected for product thickness (when present) using the following calculation:

Groundwater elevation = (TOC Elevation - Measured Depth to Water)+(LNAPL Thickness in Well x LNAPL Relative Density)

LNAPL relative density was estimated to be approximately 0.75

TABLE 2
GROUNDWATER ANALYTICAL DATA
SRC ENERGY, INC. - SULLIVAN 3-1

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Standard		5	560	700	1,400
BH01	01/31/18	<1.00	<1.00	<1.00	<2.00
BH01	01/10/19	<1.00	<1.00	<1.00	<1.00
BH01	04/30/19	<1.00	<1.00	<1.00	<1.00
BH01	07/23/19	<1.00	<1.00	<1.00	<1.00
BH01	10/18/19	<1.00	<1.00	<1.00	<1.00
BH02	01/31/18	<1.00	<1.00	<1.00	<2.00
BH02	01/10/19	<1.00	<1.00	<1.00	<1.00
BH02	04/30/19	<1.00	<1.00	<1.00	<1.00
BH02	07/23/19	<1.00	<1.00	<1.00	<1.00
BH02	10/18/19	<1.00	<1.00	<1.00	<1.00
BH03	01/31/18	<1.00	<1.00	<1.00	<2.00
BH03	01/10/19	<1.00	<1.00	<1.00	<1.00
BH03	04/30/19	<1.00	<1.00	<1.00	<1.00
BH03	07/23/19	<1.00	<1.00	<1.00	<1.00
BH03	10/18/19	<1.00	<1.00	<1.00	<1.00
BH04	01/31/18	<1.00	<1.00	<1.00	<2.00
BH04	01/10/19	<1.00	<1.00	<1.00	<1.00
BH04	04/30/19	<1.00	<1.00	<1.00	<1.00
BH04	07/23/19	<1.00	<1.00	<1.00	<1.00
BH04	10/18/19	<1.00	<1.00	<1.00	<1.00
BH05	01/31/18	<1.00	<1.00	<1.00	<2.00
BH05	01/10/19	<1.00	<1.00	<1.00	<1.00
BH05	04/30/19	<1.00	<1.00	<1.00	<1.00
BH05	07/23/19	<1.00	<1.00	<1.00	<1.00
BH05	10/18/19	<1.00	<1.00	<1.00	<1.00
BH06	01/31/18	62	<1.00	5.00	7.30
BH06	01/10/19	<1.00	<1.00	<1.00	<1.00
BH06	04/30/19	1.57	<1.00	<1.00	<1.00
BH06	07/23/19	1.74	<1.00	<1.00	<1.00
BH06	10/18/19	<1.00	<1.00	<1.00	<1.00

COGCC = Colorado Oil and Gas Conservation Commission

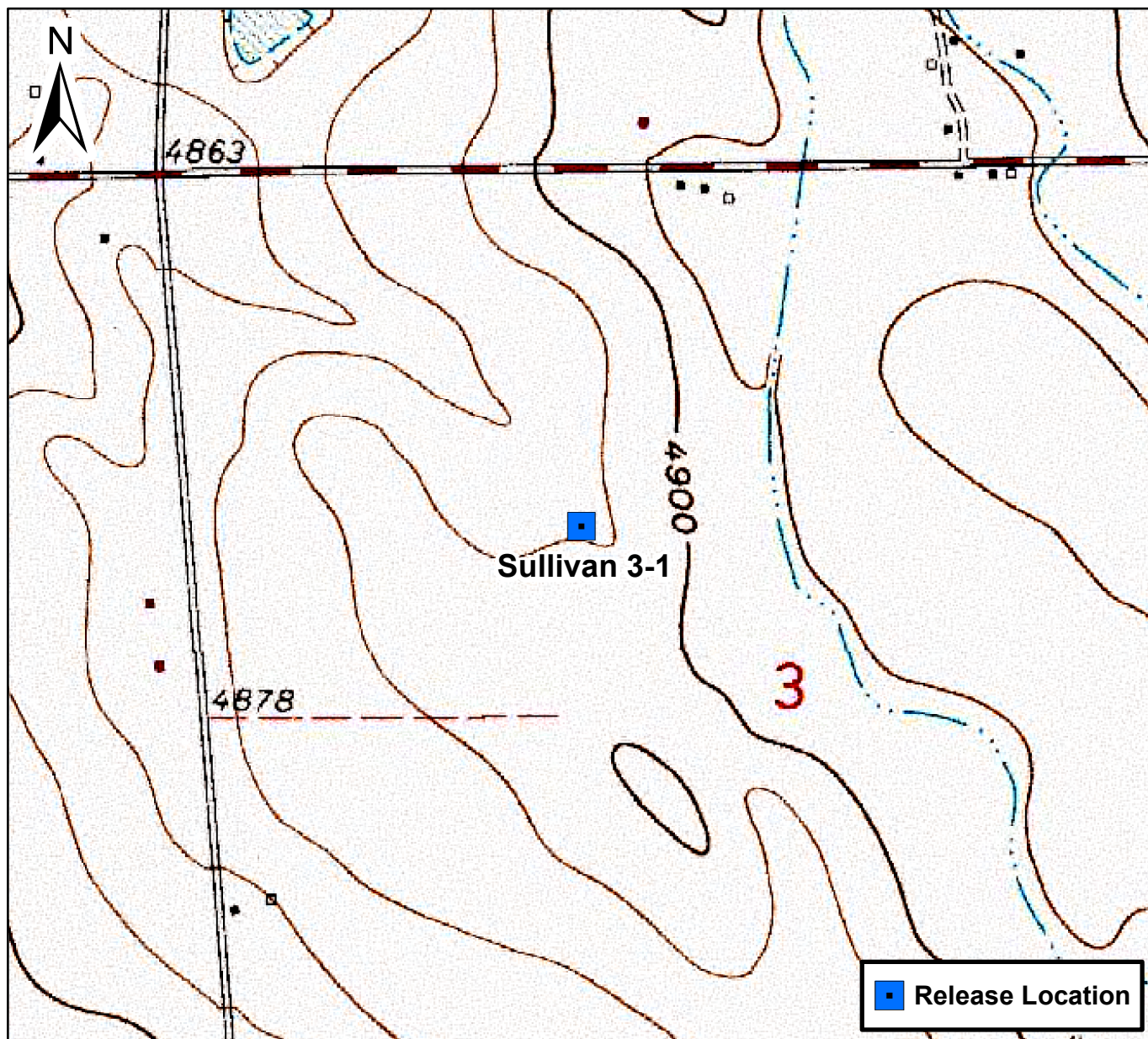
µg/L = Micrograms per liter

< = Analytical result is less than the indicated laboratory reporting limit

Groundwater standards referenced from COGCC Table 910-1

Highlighted results are equal to or exceed the COGCC Table 910-1 standard

FIGURES



0 750 1,500 Feet

Figure 1

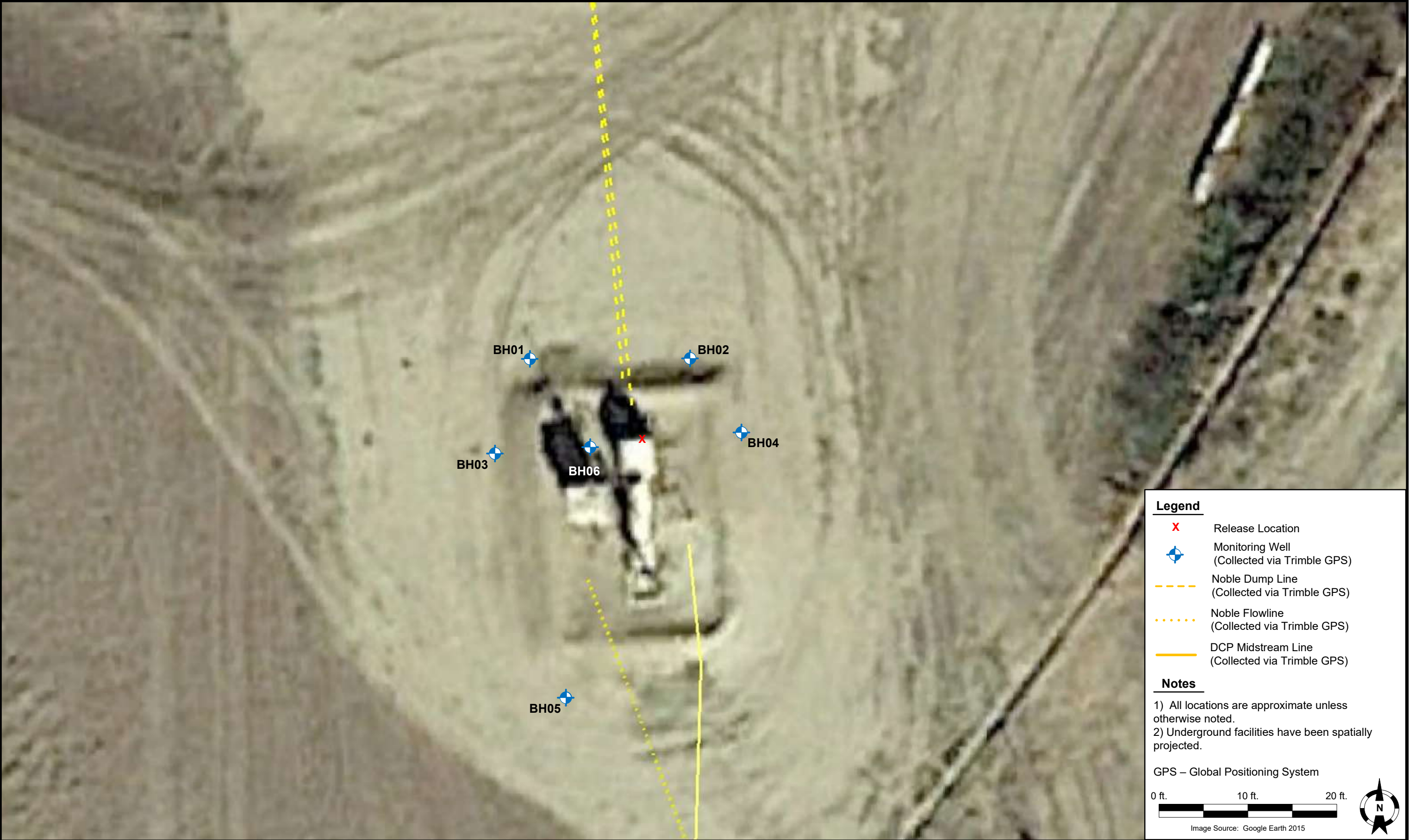
Site Location Map


Sullivan 3-1

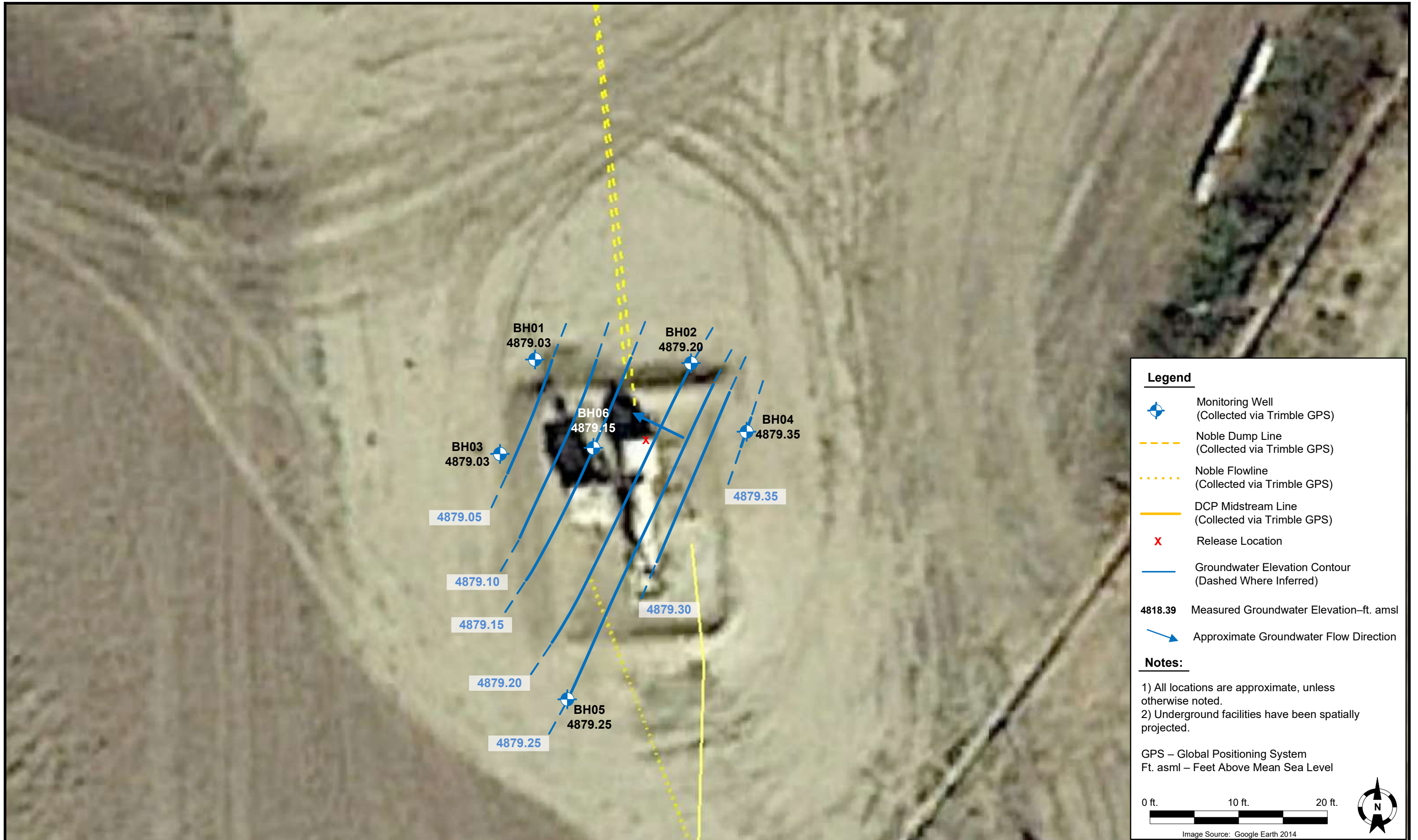
SEW S3 T6N R66W

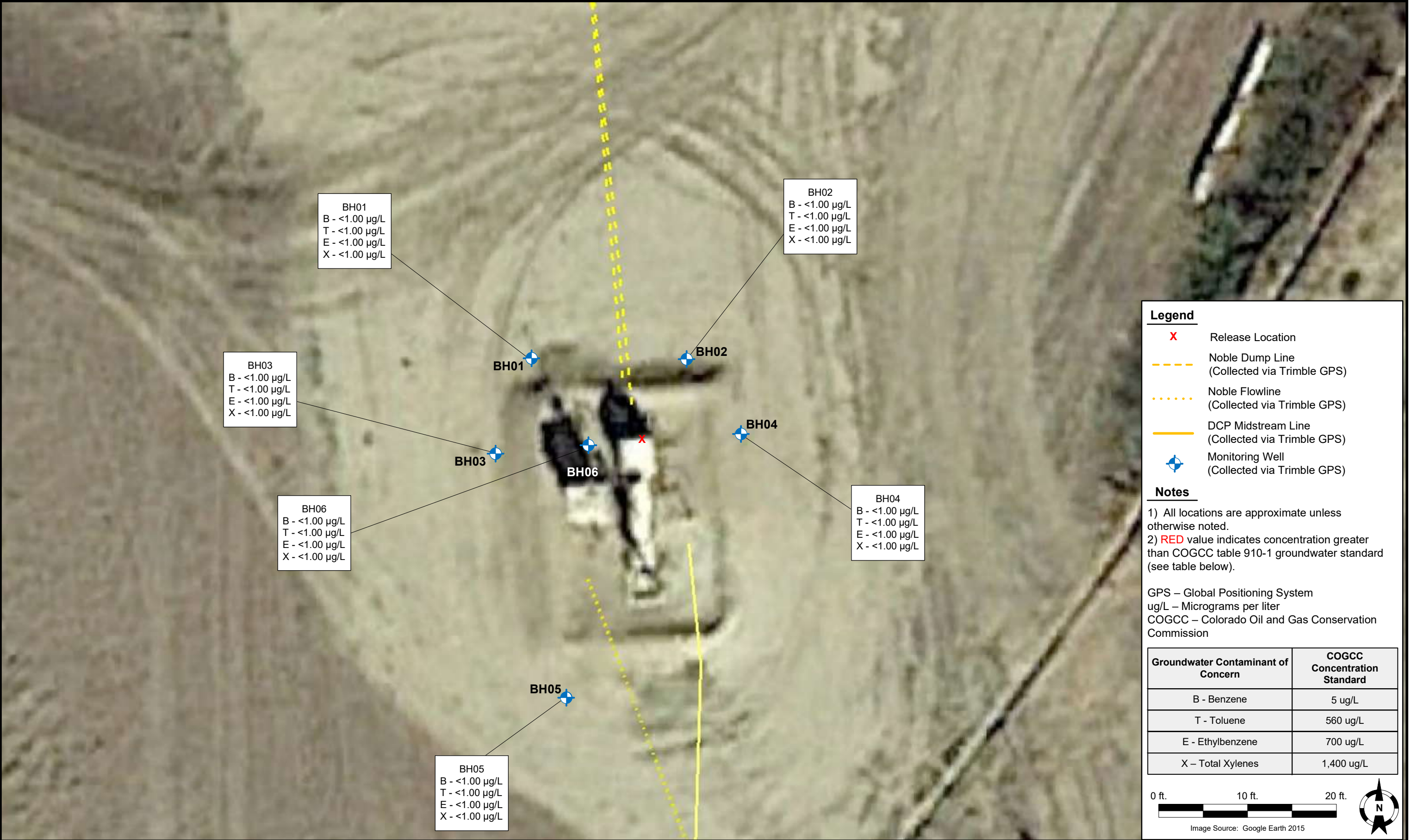
Weld County, Colorado





DATE: 11/20/2019	 <div>Tasman Geosciences, Inc. 6855 W 119th Avenue Broomfield, CO, 80020</div>	SRC Energy – DJ Basin Sullivan 3-1 SENW, Section 3, Township 6 North, Range 66 West Weld County, Colorado	Site Overview Map	FIGURE 2
DESIGNED BY: JW				
DRAWN BY: MG				





ATTACHMENT A
LABORATORY ANALYTICAL DATA REPORT

October 21, 2019

Tasman Geosciences

Brandon Bruns

6855 Wet 119th Avenue

Broomfield CO 80020

Project Name - SRC - Sullivan 3-1**Project Number - [none]**

Attached are your analytical results for SRC - Sullivan 3-1 received by Origins Laboratory, Inc. October 18, 2019. This project is associated with Origins project number Y910285-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Tasman Geosciences
6855 Wet 119th Avenue
Broomfield CO 80020

Brandon Bruns
Project Number: [none]
Project: SRC - Sullivan 3-1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01 - 101819	Y910285-01	Water	October 18, 2019 10:59	10/18/2019 12:24
BH02 - 101819	Y910285-02	Water	October 18, 2019 10:47	10/18/2019 12:24
BH03 - 101819	Y910285-03	Water	October 18, 2019 10:56	10/18/2019 12:24
BH04 - 101819	Y910285-04	Water	October 18, 2019 10:38	10/18/2019 12:24
BH05 - 101819	Y910285-05	Water	October 18, 2019 10:41	10/18/2019 12:24
BH06 - 101819	Y910285-06	Water	October 18, 2019 11:06	10/18/2019 12:24

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 Wet 119th Avenue
Broomfield CO 80020

Brandon Bruns
Project Number: [none]
Project: SRC - Sullivan 3-1

ORIGINS

LABORATORY, INC

Y910285

Client: SRC/Tasman
Address: 6855 W 119th Ave
Broomfield CO 80020
Telephone Number: 303-487-1228
Email Address: dcastro@srcenergy.com
bbruns@tasmangeo.com

Project Manager: Dave Castro / Brandon Bruns
Project Name: Sullivan 3-1
Project Number: n/a
Samples Collected By: Jesse Marcus

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
BH01-101819	10/18/14	1059	3	X								1
BH02-101814	10/18/14	1047	3	X								2
BH03-101814	10/18/14	1056	3	X								3
BH04-101814	10/18/14	1038	3	X								4
BH05-101814	10/18/14	1041	3	X								5
BH06-101814	10/18/14	1106	3	X								6
												7
												8
												9
												10

Relinquished By: [Signature] Date: 10/18/14 Time: 1224
Relinquished By: [Signature] Date: 10/18/14 Time: 1224

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☒ Standard

Temp Received: 7.1 Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences

6855 Wet 119th Avenue

Broomfield CO 80020

Brandon Bruns

Project Number: [none]

Project: SRC - Sullivan 3-1

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y910285

Client: Tasman

Client Project ID: Sullivan 3-1

Checklist Completed by: JD KDK

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 10 / 18 / 2019

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐

Cooler Number/Temperature: 1 / 7.1 °C 1 / 1 °C 1 / 1 °C 1 / 1 °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>Sameday</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) MP

Date/Time Reviewed 10/21/19

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 Wet 119th Avenue
Broomfield CO 80020

Brandon Bruns
Project Number: [none]
Project: SRC - Sullivan 3-1

BH01 - 101819
10/18/2019 10:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y910285-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J1802	KDK	10/18/2019	10/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 Wet 119th Avenue
Broomfield CO 80020

Brandon Bruns
Project Number: [none]
Project: SRC - Sullivan 3-1

BH02 - 101819

10/18/2019 10:47:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y910285-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J1802	KDK	10/18/2019	10/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130			"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 Wet 119th Avenue
Broomfield CO 80020

Brandon Bruns
Project Number: [none]
Project: SRC - Sullivan 3-1

BH03 - 101819

10/18/2019 10:56:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y910285-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J1802	KDK	10/18/2019	10/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"
Surrogate: Toluene-d8	98.6 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130			"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 Wet 119th Avenue
Broomfield CO 80020

Brandon Bruns
Project Number: [none]
Project: SRC - Sullivan 3-1

BH04 - 101819
10/18/2019 10:38:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y910285-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J1802	KDK	10/18/2019	10/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130	"	"	"
Surrogate: Toluene-d8	99.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 Wet 119th Avenue
Broomfield CO 80020

Brandon Bruns
Project Number: [none]
Project: SRC - Sullivan 3-1

BH05 - 101819

10/18/2019 10:41:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y910285-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J1802	KDK	10/18/2019	10/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 Wet 119th Avenue
Broomfield CO 80020

Brandon Bruns
Project Number: [none]
Project: SRC - Sullivan 3-1

BH06 - 101819

10/18/2019 11:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y910285-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J1802	KDK	10/18/2019	10/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.9 %	70-130	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 Wet 119th Avenue
Broomfield CO 80020

Brandon Bruns
Project Number: [none]
Project: SRC - Sullivan 3-1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9J1802 - EPA 5030B (Water)										
Blank (B9J1802-BLK1)					Prepared: 10/18/2019 Analyzed: 10/18/2019					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	84		"	62.5	135	70-130				S-07
Surrogate: Toluene-d8	64		"	62.5	102	70-130				
Surrogate: 4-Bromofluorobenzene	64		"	62.5	103	70-130				

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 Wet 119th Avenue
Broomfield CO 80020

Brandon Bruns
Project Number: [none]
Project: SRC - Sullivan 3-1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9J1802 - EPA 5030B (Water)										
LCS (B9J1802-BS1)					Prepared: 10/18/2019 Analyzed: 10/18/2019					
Benzene	50.2	1.00	ug/L	50.0		100	70-130			
Toluene	54.0	1.00	"	50.0		108	70-130			
Ethylbenzene	56.0	1.00	"	50.0		112	70-130			
m,p-Xylene	115	2.00	"	100		115	70-130			
o-Xylene	57.4	1.00	"	50.0		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	80		"	62.5		128	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 Wet 119th Avenue
Broomfield CO 80020

Brandon Bruns
Project Number: [none]
Project: SRC - Sullivan 3-1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B9J1802 - EPA 5030B (Water)

Matrix Spike (B9J1802-MS1)		Source: Y910271-01			Prepared: 10/18/2019 Analyzed: 10/18/2019					
Benzene	42.9	1.00	ug/L	50.0	ND	85.8	70-130			
Toluene	46.7	1.00	"	50.0	ND	93.4	70-130			
Ethylbenzene	51.3	1.00	"	50.0	ND	103	70-130			
m,p-Xylene	104	2.00	"	100	ND	104	70-130			
o-Xylene	52.5	1.00	"	50.0	ND	105	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 Wet 119th Avenue
Broomfield CO 80020

Brandon Bruns
Project Number: [none]
Project: SRC - Sullivan 3-1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B9J1802 - EPA 5030B (Water)

Matrix Spike Dup (B9J1802-MSD1)		Source: Y910271-01			Prepared: 10/18/2019 Analyzed: 10/18/2019					
Benzene	47.8	1.00	ug/L	50.0	ND	95.7	70-130	10.9	20	
Toluene	52.8	1.00	"	50.0	ND	106	70-130	12.2	20	
Ethylbenzene	57.6	1.00	"	50.0	ND	115	70-130	11.5	20	
m,p-Xylene	116	2.00	"	100	ND	116	70-130	11.0	20	
o-Xylene	57.9	1.00	"	50.0	ND	116	70-130	9.76	20	
Surrogate: 1,2-Dichloroethane-d4	73		"	62.5		117	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 Wet 119th Avenue
Broomfield CO 80020

Brandon Bruns
Project Number: [none]
Project: SRC - Sullivan 3-1

Notes and Definitions

U Sample is Non-Detect.

S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.