

**DCP O'Connor GAS PLANT CND SITE
FORM 27 SUPPLEMENTAL SUMMARY REPORT
(Doc # 402570295)**

ATTACHMENTS

Tables

- 1 Summary of Soil Analytical Results

Figures

- 1 Site Location Map
- 2 Site Overview Map with Soil Sample Locations and ISCO Injection Points
- 3 Soil Sample Locations and Analytical Results

Appendices

- A Laboratory Analytical Reports
 - Origins Laboratory Job #: Y012402
- B Soil Boring Logs – December 2020 Soil Confirmation Sampling

TABLE 1
DCP MIDSTREAM - O'CONNOR 1 CND GAS PLANT
SOIL SAMPLE ANALYTICAL RESULTS SUMMARY TABLE

Sample ID	Date Sampled	PID Reading (PPM)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH (mg/kg) ²	Comments
COGCC standards for Soil (mg/kg) ⁽¹⁾			0.17	85	100	175	500	
CND#1	11/15/2019	-	<0.0500	1.05	0.976	10.40	581	
CND#1	12/12/2019	-	0.003	0.004	<0.002	<0.002	<50.0	
CND#2	11/15/2019	-	4.04	37.2	3.20	24.7	521.2	
CND#2	12/12/2019	-	19.6	84.4	6.99	72.6	69.2	
CND#2	12/26/2019	-	18.0	47.6	2.93	22.0	<50.0	
CND#3	11/15/2019	-	0.499	2.14	0.282	2.26	53.8	
CND#3	12/12/2019	-	1.54	5.58	0.626	4.52	<50.0	
CND#3	12/26/2019	-	14.2	37.9	2.86	20.9	<50.0	
BH01 @ 7'	2/5/2020	1,008	0.260	1.54	0.288	2.18	<50.0	
BH02 @ 3'	2/5/2020	21.6	<0.050	<0.050	<0.050	<0.050	<50.0	
BH03 @ 3'	2/5/2020	55.3	<0.050	<0.050	<0.050	<0.050	<50.0	
BH04 @ 3'	2/5/2020	400.0	<0.050	0.308	0.0630	0.502	<50.0	
BH05 @ 3'	2/5/2020	198.0	0.0545	<0.050	<0.050	<0.050	<50.0	
BH06 @ 5'	2/5/2020	824.0	0.558	1.62	0.170	1.23	<50.0	
BH07 @ 6'	2/18/2020	3.9	<0.050	<0.050	<0.050	<0.050	<50.0	Step out from BH06
BH08 @ 7'	2/18/2020	58.0	0.0766	0.252	0.0225	0.172	<50.0	Step out from BH01
BH06A @ 11'	3/17/2020	1,260	2.90	14.8	2.1	15.3	551	
BH10 @ 5'	3/17/2020	1.5	<0.050	<0.050	<0.050	0.237	<50.0	
BH11 @ 2'	3/17/2020	1,131	0.196	0.548	0.0825	0.597	<50.0	
BH11 @ 8'	3/17/2020	330	<0.050	0.157	<0.050	0.118	<50.0	
BH12 @ 1'	3/18/2020	495	<0.050	<0.050	<0.050	<0.050	<50.0	
BH14 @ 1'	3/18/2020	391	<0.050	0.0730	<0.050	0.102	<50.0	
BH17 @ 1'	3/18/2020	555	<0.050	0.0895	<0.050	0.232	<50.0	
BH18B @ 1'	3/18/2020	930	3.24	17.0	1.66	19.7	466	
BH06B @ 6'	6/18/2020	1,360	0.62	3.17	0.421	3.23	183	BH06 vertical confirmation
BH06B @ 7'	6/18/2020	89	0.0717	0.146	0.0117	0.0942	<50.0	BH06 vertical confirmation
SB-1 @ 3'	12/29/2020	3,174.0	0.136	0.921	0.277	2.51	116	
SB-1 @ 7'	12/29/2020	204.6	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	Confirmation of BH01 @ 7' after remediation
SB-2 @ 1'	12/29/2020	79.3	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	Confirmation of BH18B @ 1' after remediation
SB-3 @ 1'	12/29/2020	741.3	0.0229	0.0124	<0.00200	0.0336	0.603	
SB-3 @ 2'	12/29/2020	74.9	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	Confirmation of BH11 @ 2' after remediation
SB-4 @ 6'	12/29/2020	989.7	0.0624	0.0152	0.0103	0.0572	0.448	Confirmation of BH06B @ 6' after remediation
SB-5 @ 8'	12/29/2020	1,561.0	0.0330	0.0519	0.0126	0.1180	1.26	
SB-5 @ 11'	12/29/2020	317.2	0.00770	0.0401	0.0135	0.0996	4.11	Confirmation of BH06A @ 11' after remediation
SB-6 @ 5'	12/29/2020	572.1	0.146	0.0711	0.00648	0.0499	0.302	Confirmation of BH06 @ 5' after remediation

1). Standards for Soil are referenced from the 2 CCR 404-1, Table 910-1, effective January 30, 2015.

2). TPH - Total volatile and extractable petroleum hydrocarbons. Value calculated by adding GRO and DRO concentrations.

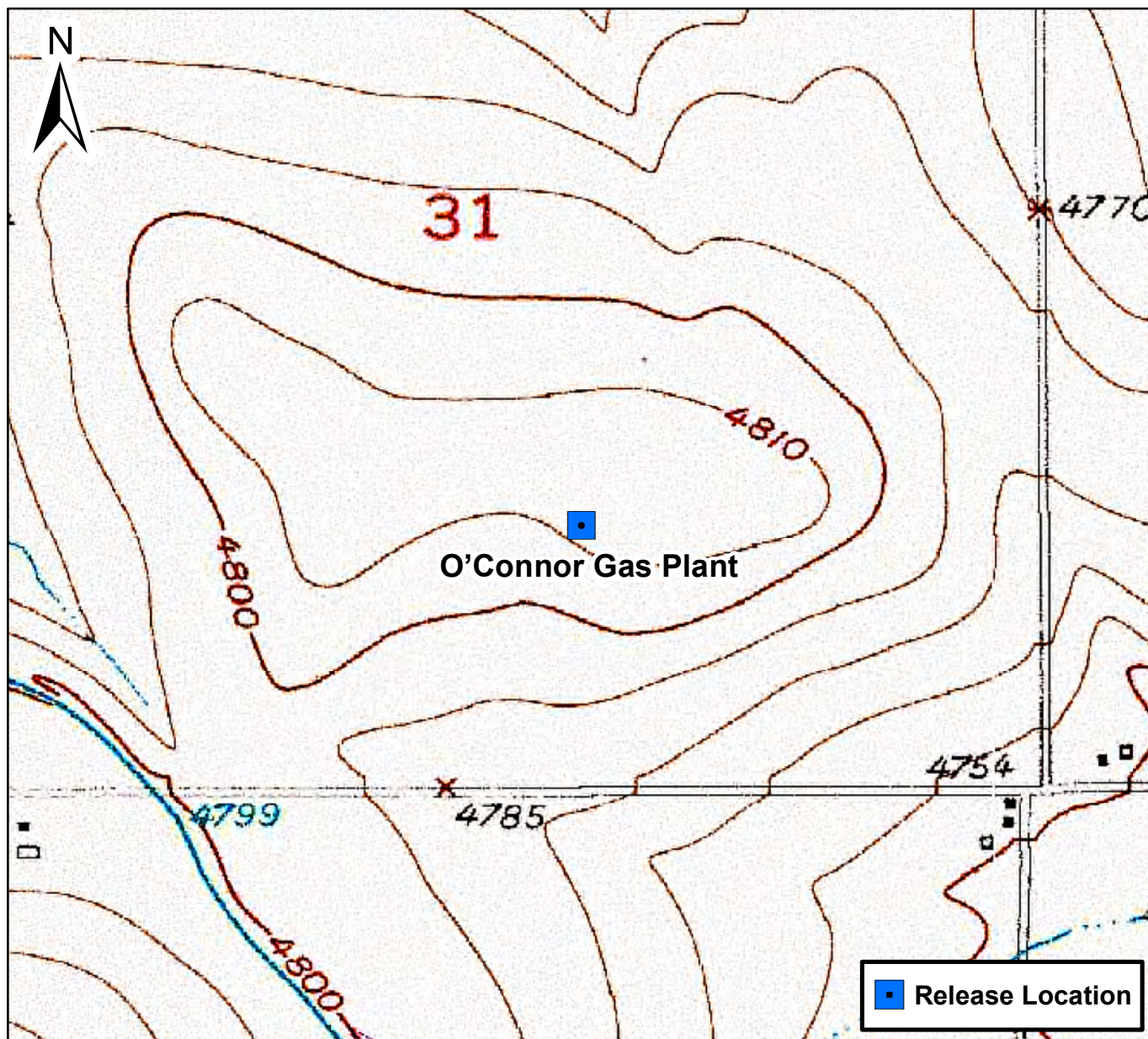
GRO - Gasoline range organics.

DRO - Diesel range organics.

mg/kg= Milligrams per kilogram.

PID - Photoionization Detector

ppm - Parts per million

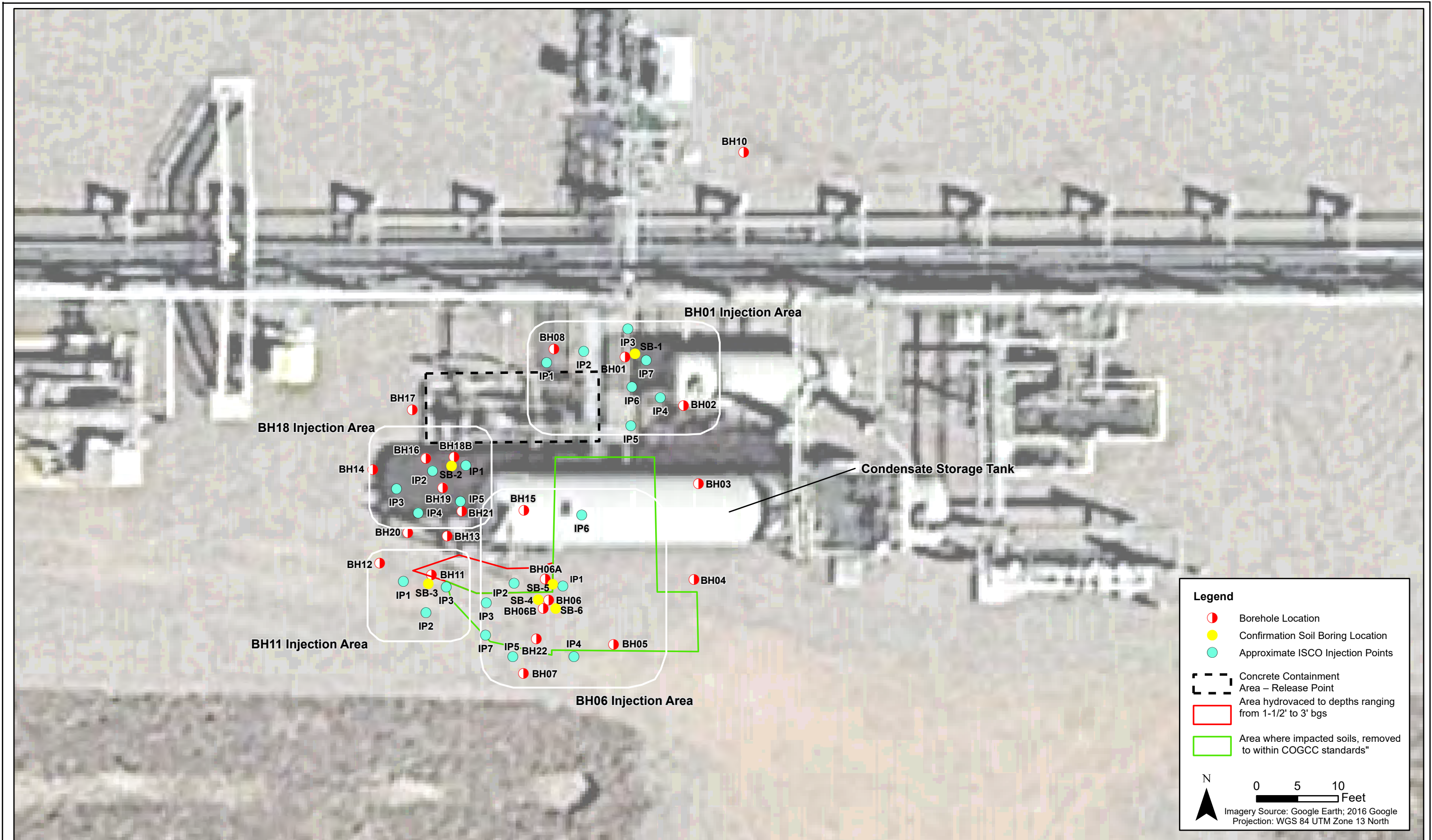


0 750 1,500 Feet

Figure 1

Site Location Map
O'Connor Gas Plant
SWSE S31 T5N R64W
Weld County, Colorado





DATE:
October 2020

DESIGNED BY:
B. Humphrey

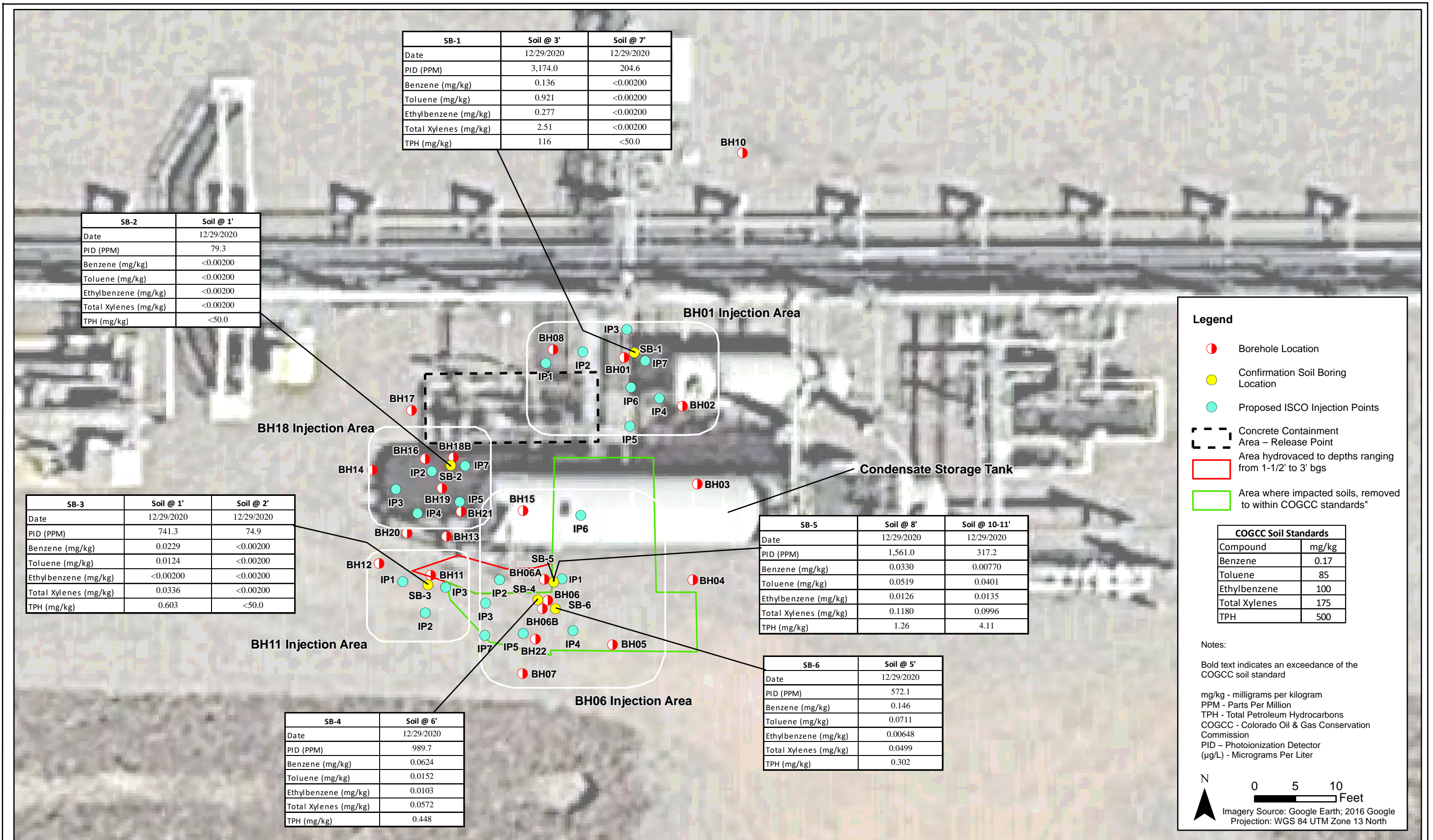
DRAWN BY:
A. Dahl

TASMAN GEOSCIENCES
Tasman Geosciences, Inc.
6855 W. 119th Ave
Broomfield, CO 80020

**DCP Midstream
O'Connor Gas Plant**
SWSE, Section 31, Township 5 North, Range 64 West
Weld County, Colorado

Site Overview Map with Soil
Sample Locations and ISCO
Injection Points

Figure
2



DATE: October 2020

DESIGNED BY: B. Humphrey

DRAWN BY: A. Dahl



DCP Midstream
O'Connor Gas Plant
SWSE, Section 31, Township 5 North, Range 64 West
Weld County, Colorado

Soil Sample Locations and
December 2020 Analytical
Results

Figure
3



January 06, 2021

Tasman Geosciences

Brian Humphrey

6855 West 119th Avenue

Broomfield CO 80020

Project Name - DCP - O'Connor I Gas Plant

Project Number - [none]

Attached are your analytical results for DCP - O'Connor I Gas Plant received by Origins Laboratory, Inc. December 29, 2020. This project is associated with Origins project number Y012402-01.

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



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1@3'	Y012402-01	Soil	December 29, 2020 9:10	12/29/2020 12:35
SB-1@7'	Y012402-02	Soil	December 29, 2020 9:20	12/29/2020 12:35
SB-2@1'	Y012402-03	Soil	December 29, 2020 9:30	12/29/2020 12:35
SB-3@1'	Y012402-04	Soil	December 29, 2020 9:35	12/29/2020 12:35
SB-3@2'	Y012402-05	Soil	December 29, 2020 9:38	12/29/2020 12:35
SB-4@6'	Y012402-06	Soil	December 29, 2020 9:52	12/29/2020 12:35
SB-5@8'	Y012402-07	Soil	December 29, 2020 8:50	12/29/2020 12:35
SB-6@5'	Y012402-08	Soil	December 29, 2020 10:12	12/29/2020 12:35
SB-5@10-11'	Y012402-09	Soil	December 29, 2020 8:59	12/29/2020 12:35

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 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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9012402 page 1 of 1

ORIGINS
LABORATORY, INC

Client: DEP TASMAN
Address: 6855 W 119TH ST
Broomfield, CO 80020
Telephone Number: 303-520-0258
Email Address: brian@tasman-geo.com
brian@tasman-geo.com
brian@tasman-geo.com

Project Manager: B Humphrey / C Cole
Project Name: O'CONNOR GP
Project Number: O'CONNOR GP
Samples Collected By: JAL/SL

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sample #	Other		
SB-103'	12-29-20	910	1	X					X				1
SB-107'	12-29-20	920	1	X					X				2
SB-201'	12-29-20	930	1	X					X				3
SB-301'	12-29-20	935	1	X					X				4
SB-302'	12-29-20	938	1	X					X				5
SB-406'	12-29-20	952	1	X					X				6
SB-508'	12-29-20	830	1	X					X				7
SB-605'	12-29-20	1012	1	X					X				8
SB-5010-11'	12-29-20	859	1	X					X				9
													10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
Steve Carls	12-29-20	12:35	[Signature]	12-29-20	1235	Some Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard

Date Results Needed

7.4

Temp Received-

Origins Laboratory, Inc.

Jordan A. Merrill

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4012402

Client: Tasman

Client Project ID: DCP - O'Connor GP

Checklist Completed by: Dan Lu

Shipped Via: HD

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

Date/time completed: 12/29/20

Airbill #: PA

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

Cooler Number/Temperature: 174 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: Geo2

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>Sampled Same Day</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 jm (Project Manager)

12-30-20
Date/Time Reviewed

Origins Laboratory, Inc.

Jordan A. Merrill

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 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

SB-1@3'

12/29/2020 9:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012402-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.136	0.0500	mg/kg	25	B0L2902	TEM	12/29/2020	12/29/2020	
Toluene	0.921	0.0500	"	"	"	TEM	"	"	
Ethylbenzene	0.277	0.0500	"	"	"	TEM	"	"	
Xylenes, total	2.51	0.0500	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	116	5.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.5 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0L2405	TEM	12/29/2020	12/30/2020	U
Surrogate: o-Terphenyl	84.6 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

SB-1@7'

12/29/2020 9:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012402-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B0L2902	TEM	12/29/2020	12/29/2020	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"
Surrogate: Toluene-d8	95.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.0 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0L2405	TEM	12/29/2020	12/30/2020	U
Surrogate: o-Terphenyl	89.2 %	50-150			"		"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

SB-2@1'

12/29/2020 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012402-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B0L2902	TEM	12/29/2020	12/29/2020	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"
Surrogate: Toluene-d8	96.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	94.4 %	70-130			"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0L2405	TEM	12/29/2020	12/30/2020	U
Surrogate: o-Terphenyl	92.2 %	50-150			"	"	"		

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.

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6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

SB-3@1'

12/29/2020 9:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012402-04 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.0229	0.00200	mg/kg	1	B0L2902	TEM	12/29/2020	12/29/2020	
Toluene	0.0124	0.00200	"	"	"	TEM	"	"	
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Xylenes, total	0.0336	0.00200	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	0.603	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"	
Surrogate: Toluene-d8	93.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.0 %	70-130			"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0L2405	TEM	12/29/2020	12/30/2020	U
Surrogate: o-Terphenyl	84.8 %	50-150			"	"	"		

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 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

SB-3@2'

12/29/2020 9:38:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012402-05 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B0L2902	TEM	12/29/2020	12/29/2020	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130	"	"	"
Surrogate: Toluene-d8	94.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.4 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0L2405	TEM	12/29/2020	12/30/2020	U
Surrogate: o-Terphenyl	80.6 %	50-150			"		"	"	

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 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

SB-4@6'

12/29/2020 9:52:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012402-06 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.0624	0.00200	mg/kg	1	B0L2902	TEM	12/29/2020	12/29/2020	
Toluene	0.0152	0.00200	"	"	"	TEM	"	"	
Ethylbenzene	0.0103	0.00200	"	"	"	TEM	"	"	
Xylenes, total	0.0572	0.00200	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	0.448	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.5 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0L2405	TEM	12/29/2020	12/30/2020	U
Surrogate: o-Terphenyl	74.4 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

SB-5@8'

12/29/2020 8:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012402-07 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.0330	0.00200	mg/kg	1	B0L2902	TEM	12/29/2020	12/29/2020	
Toluene	0.0519	0.00200	"	"	"	TEM	"	"	
Ethylbenzene	0.0126	0.00200	"	"	"	TEM	"	"	
Xylenes, total	0.118	0.00200	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	1.26	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	93.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.8 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0L2405	TEM	12/29/2020	12/30/2020	U
Surrogate: o-Terphenyl	82.9 %	50-150			"	"	"	"	

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 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

SB-6@5'

12/29/2020 10:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012402-08 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.146	0.00200	mg/kg	1	B0L2902	TEM	12/29/2020	12/29/2020	
Toluene	0.0711	0.00200	"	"	"	TEM	"	"	
Ethylbenzene	0.00648	0.00200	"	"	"	TEM	"	"	
Xylenes, total	0.0499	0.00200	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	0.302	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.8 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0L2405	TEM	12/29/2020	12/30/2020	U
Surrogate: o-Terphenyl	81.2 %	50-150			"	"	"	"	

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 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

SB-5@10-11'

12/29/2020 8:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012402-09 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.00770	0.00200	mg/kg	1	B0L2902	TEM	12/29/2020	12/29/2020	
Toluene	0.0401	0.00200	"	"	"	TEM	"	"	
Ethylbenzene	0.0135	0.00200	"	"	"	TEM	"	"	
Xylenes, total	0.0996	0.00200	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	4.11	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	92.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.8 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0L2405	TEM	12/29/2020	12/30/2020	U
Surrogate: o-Terphenyl	81.4 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0L2405 - EPA 3580

Blank (B0L2405-BLK1)

Prepared: 12/24/2020 Analyzed: 12/30/2020

Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	26		"	25.0		103	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0L2405 - EPA 3580

LCS (B0L2405-BS1)

Prepared: 12/24/2020 Analyzed: 12/30/2020

Diesel (C10-C28)	795	50.0	mg/kg	1000		79.5	70-130			
Surrogate: o-Terphenyl	47		"	50.0		93.3	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0L2405 - EPA 3580

Matrix Spike (B0L2405-MS1)		Source: Y012347-01			Prepared: 12/24/2020 Analyzed: 12/30/2020					
Diesel (C10-C28)	901	50.0	mg/kg	1000	ND	90.1	70-130			
Surrogate: o-Terphenyl	50		"	50.0		99.4	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0L2405 - EPA 3580

Matrix Spike Dup (B0L2405-MSD1)		Source: Y012347-01			Prepared: 12/24/2020 Analyzed: 12/30/2020					
Diesel (C10-C28)	952	50.0	mg/kg	1000	ND	95.2	70-130	5.45	35	
Surrogate: o-Terphenyl	52		"	50.0		105	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0L2902 - EPA 5030 (soil)										
Blank (B0L2902-BLK1)					Prepared: 12/29/2020 Analyzed: 12/29/2020					
Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.3	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 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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
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Batch B0L2902 - EPA 5030 (soil)

LCS (B0L2902-BS1)

Prepared: 12/29/2020 Analyzed: 12/29/2020

Benzene	0.0541	0.00200	mg/kg	0.0500		108	70-130			
Toluene	0.0507	0.00200	"	0.0500		101	70-130			
Ethylbenzene	0.0489	0.00200	"	0.0500		97.9	70-130			
m,p-Xylene	0.101	0.00400	"	0.100		101	70-130			
o-Xylene	0.0502	0.00200	"	0.0500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.1	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 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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
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Batch B0L2902 - EPA 5030 (soil)

Matrix Spike (B0L2902-MS1)		Source: Y012402-02			Prepared: 12/29/2020 Analyzed: 12/29/2020					
Benzene	0.0550	0.00200	mg/kg	0.0500	0.000860	108	70-130			
Toluene	0.0505	0.00200	"	0.0500	0.000880	99.2	70-130			
Ethylbenzene	0.0470	0.00200	"	0.0500	ND	93.9	70-130			
m,p-Xylene	0.0997	0.00400	"	0.100	ND	99.7	70-130			
o-Xylene	0.0503	0.00200	"	0.0500	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.7	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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
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Batch B0L2902 - EPA 5030 (soil)

Matrix Spike Dup (B0L2902-MSD1)		Source: Y012402-02			Prepared: 12/29/2020 Analyzed: 12/29/2020					
Benzene	0.0550	0.00200	mg/kg	0.0500	0.000860	108	70-130	0.0728	20	
Toluene	0.0503	0.00200	"	0.0500	0.000880	98.9	70-130	0.357	20	
Ethylbenzene	0.0489	0.00200	"	0.0500	ND	97.8	70-130	4.09	20	
m,p-Xylene	0.101	0.00400	"	0.100	ND	101	70-130	1.04	20	
o-Xylene	0.0507	0.00200	"	0.0500	ND	101	70-130	0.832	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.0	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

Notes and Definitions

U Sample is Non-Detect.

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.

Borehole Logging Form

 SITE NAME: O CONNOIL

 CLIENT NAME: DCP

 Date Started: 12/29/20

 Location: SB-1

 Date Completed: 11

 TOC Elevation: NA

DTW:

 Type of Drill: 3" HAND AXLE

 Geologist: Steve C. / John W

 Bit Size: 3'

 Project Manager: B. Humphrey

 Drilling Company: TASMAN

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1	NATIVE SOILS ---1	C	100	2221		SC	HAND AXLE 0-7' no stain, no odor clay cty w/ gravel/sand 10 YR 4/2 dark greyish
2		H	0	2203		SC/L	clay w/minor sand, 10 YR 5/2 greyish brown minor stain, odor
3		H	0	3174	YES	SC/S	very sandy clay med-fine, 10 YR 4/2 dark greyish brown, stain, odor
4		A		2001		SC	sandy clay med-coarse, 10 YR 5/2 greyish brown, odor/stain
5		P		211.6		SC	11 11
6		A		109.5		SC	11 11
7		HL	↓	204.6	YES	SC/sm	clay w/sands and silts, 10 YR 4/2 dark greyish brown, minor stain, odor
8							
9							
10							
11							
12							
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14							
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25							



Borehole Logging Form

SITE NAME: O'CONNOR

CLIENT NAME: DCP

Date Started: 12/29/20

Location: SB-2

Date Completed: 11

TOC Elevation: NA

DTW:

Type of Drill: HAND DRILL

Geologist: SW/SC

Bit Size: 3"

Project Manager: B. Humphrey

Drilling Company: TASMAN

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
TD 1				79.3	4		Sandy silt med-fine gr, 10% R 9/10 brown, no stain, no odor
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
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22							
23							
24							
25							



Borehole Logging Form

SITE NAME: COMOR

CLIENT NAME: DCP

Date Started: 12/29/20

Location: SR-3

Date Completed: 11

TOC Elevation:

NA

DTW:

Type of Drill: Hand Auger (HA)

Geologist:

SC/JW

Bit Size:

3"

Project Manager:

B. Humphrey

Drilling Company: TASMAN

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1		HA		741.3	Y		Sandy silt w/ clay/gravel med. coarse 10% R 5/5
2		HA		74.9	Y		brown, no stain, micro odor
3							very silty clay, minor med sand, 10% R 6/5
4							pale brown, no stain no odor
5							
6							
7							
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Borehole Logging Form

SITE NAME: O'Connor CLIENT NAME: DGP
 Date Started: 12/29/20 Location: SB-4
 Date Completed: 11 TOC Elevation: NA DTW:
 Type of Drill: HAND AUGER Geologist: SW/SC
 Bit Size: 3" Project Manager: D. Humphrey
 Drilling Company: TASMAN

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1		HA	100	3.7		SG	Sandy gravel coarse med clay, 10YR 4/4 dark yellowish brown, no stain, no odor
2				2.5		SC/SM	Med-coarse sands/clay/silt, 10YR 5/3 brown, no stain, no odor
3				2.6		Ch	Clay minor med-coarse sands 10YR 6/5 brownish yellow, no stain, no odor
4				5.3		SC	Silty sandy clay (plastic) 10YR 6/4 light yellowish brown, no stain, no odor
5				585.8		SW/SC	Sands med w/ silt and clay, 10YR 5/4 yellowish brown, minor stain, odor
6			9	989.7	4	SC/SM	Silty sands and clay, 10YR 4/1 dark gray minor stain, odor.
7							
8							
9							
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25							



Borehole Logging Form

SITE NAME: O'Connor

CLIENT NAME: PCP - O'Connor

Date Started: 12/29/20

Location: SB-5

Date Completed: 1/29/20

TOC Elevation: NA

DTW:

Type of Drill:

Geologist: SC/SW

Bit Size: 3"

Project Manager: B. Humphrey

Drilling Company: TASMAN

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1				211.3		SC/SM	Sands/silt clay minor gravel, 10YR 5/4 yellowish brown, no stain, minor odor
2				1480		SC	Sandy clay med. v. coarse, 10YR 4/2 dark grayish brown, same stain, odor
3				624.9		SC	Silty sands w/clay 10YR 5/3 brown no stain no odor
4				1583		CL/SC	Clay w/silt very plastic, 10YR 6/5 brownish yellow, no stain, minor odor
5				381.3		SC/CL	Silty clay v-fine, 10YR 6/4 light yellowish brown no stain, minor odor
6				1556		SC/CL	Silty sand w/clay fine-med gr. 10YR 7/5 and 8/1 v. pale brown/gray stained/odor present
7				1351		SC	Sandy silty clay med-fine gr. 10YR 5/1 gray stained/odor strong
8				1561	4	SM	Sandy silt med-fine gr. 10YR 4/2 dark grayish brown, no stain, odor
9				998.6	.	SC/SS	Coarse sand minor silt 10YR 7/2 light gray, minor odor no stain
10				811.1		SS/SM	No sample (lost) Sandy coarse
11				317.2	4	SS/SM	Coarse-med sand, 10YR 7/3 very pale brown, minor odor, no stain
12							
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14							
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22							
23							
24							
25							



Borehole Logging Form

SITE NAME: O'Connor		CLIENT NAME: DCP
Date Started: 12/29/20	Location: SB-6	
Date Completed: 12/29/20	TOC Elevation: NA	DTW:
Type of Drill: HAND DRILL	Geologist: JH/SC	
Bit Size: 3"	Project Manager: BH	
Drilling Company: TASMAN		

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1				247.7		SC	Sandy silt/clay med-fine 10YR5/3 brown, no odor, no stain
2				149.3		SC/CL	Clay w/silt and med sands, 10YR4/3 brown, no stain, no odor
3				16.5		Sm/CL	Silt/sand inside clay (plastic) 10YR 6/5 brownish yellow, no stain, no odor
4				6.0		CL	Clay minor sand (plastic), 10YR 5/4 yellowish brown, no stain no odor
5				572.1	4	SC	Sandy clay med plastic, 10YR 4/2 dark grayish brown, no stain, no odor
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