

**DCP – MEWBOURN GAS PLANT SITE
FORM 27 SUPPLEMENTAL SUMMARY REPORT**

ATTACHMENTS

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 - Origins Laboratory Report – #Y012011
 - Origins Laboratory Report – #Y012057
 - Origins Laboratory Report – #Y012086
 - Origins Laboratory Report – #Y012138
 - Origins Laboratory Report – #Y012152
- B COGCC email correspondence – December 2, 2020

**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS SUMMARY TABLE
DCP MIDSTREAM - MEWBOURN GAS PLANT**

Sample ID	Date Sampled	Lab Report	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	
TP1-WWall @ 8'	12/1/2020	Y012011	63.4	<0.0500	<0.0500	<0.0500	<0.0500	5.5	
TP1-WWall @ 10'	12/1/2020	Y012011	371	<0.0500	<0.0500	<0.0500	0.112	6.29	
TP1-WWall @ 12'	12/1/2020	Y012011	857.5	<0.0500	<0.0500	<0.0500	0.189	11.4	
TP1-WWall @ 16'	12/1/2020	Y012011	1134.8	2.01	2.799	1.51	13.4	1015.7	
TP1-WWall @ 20'	12/1/2020	Y012011	1352	1.26	0.635	0.948	7.58	376	
TP1-WWall @ 21'	12/1/2020	Y012011	113	0.214	<0.0500	<0.0500	<0.0500	<50.0	
TP2 @ 8'	12/1/2020	Y012011	2333.0	<0.0500	<0.0500	0.174	<0.0500	353	
TP2 @ 10'	12/1/2020	Y012011	1344	<0.0500	<0.0500	<0.0500	<0.0500	233.1	
TP2 @ 14'	12/1/2020	Y012011	1623.0	<0.0500	<0.0500	0.0745	<0.0500	159.6	
TP2 @ 16'	12/1/2020	Y012011	1193.0	<0.0500	<0.0500	0.182	<0.0500	142.7	
TP2 @ 18'	12/1/2020	Y012011	99.6	<0.0500	<0.0500	0.138	0.123	254	
TP-3 @ 12'	12/3/2020	Y012057	1171	0.202	1.05	0.24	2.6	212.9	
TP-3 @ 18'	12/3/2020	Y012057	1253.0	0.23	0.482	0.434	3.35	300.7	
TP-3 @ 21'	12/3/2020	Y012057	788	0.561	1.45	2.1	11.2	1192	
TP-4 @ 14'	12/3/2020	Y012057	668.8	<0.0500	<0.0500	<0.0500	<0.0500	3.61	
TP-4 @ 18'	12/3/2020	Y012057	1164.0	<0.0500	<0.0500	1.19	10.2	589.6	
TP-4 @ 21'	12/3/2020	Y012057	1195	<0.0500	<0.0500	0.661	4.39	329	
SS-17 @ 21'	12/4/2020	Y012086	931.8	3.47	0.278	13.4	171	3980	
SS-18 @ 21'	12/4/2020	Y012086	1672.0	0.271	<0.0500	0.349	5.95	285	
SWwall @ 2'	12/8/2020	Y012121	760.8	<0.0500	<0.0500	<0.0500	0.302	18.5	
SWwall @ 6'	12/8/2020	Y012121	577.7	<0.0500	<0.0500	<0.0500	0.132	8.67	
SWwall @ 14'	12/8/2020	Y012121	1534.0	<0.0500	<0.0500	<0.0500	<0.0500	184.1	
SWwall @ 21'	12/8/2020	Y012121	1174	2.35	6.98	7.5	127	5420	
SEwall @ 4'	12/8/2020	Y012121	1704	<0.0500	<0.0500	0.05	0.729	546	
SEWall @ 8'	12/8/2020	Y012121	2222.0	<0.0500	<0.0500	0.64	99.12	2449	
SEWall @ 18'	12/8/2020	Y012121	2209	<0.0500	<0.0500	0.356	5.46	607	
SEWall @ 21'	12/8/2020	Y012121	1730.0	0.26	0.17	9.4	129	3980	
SEwall2 @ 6'	12/9/2020	Y012138	1686	<0.0500	<0.0500	0.096	2.00	1022	
SEwall2 @ 12'	12/9/2020	Y012138	1651	<0.0500	<0.0500	<0.0500	0.234	637.7	
SEwall2 @ 16'	12/9/2020	Y012138	1860.0	<0.0500	<0.0500	0.516	9.47	918	
SEwall2 @ 21'	12/9/2020	Y012138	1167.0	<0.0500	<0.0500	0.16	1.83	296	
NWwall @ 8'	12/9/2020	Y012138	130.1	<0.0500	<0.0500	<0.0500	<0.0500	8.29	
NWwall @ 12'	12/9/2020	Y012138	675.9	<0.0500	<0.0500	<0.0500	<0.0500	25.3	
NWwall @ 18'	12/9/2020	Y012138	1812.0	0.943	<0.500	3.56	54.8	2790	
SEwall3 @ 2'	12/10/2020	Y012152	404.0	<0.0500	<0.0500	<0.0500	0.2	129.7	
SEwall3 @ 14'	12/10/2020	Y012152	86.8	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
SEwall3 @ 16'	12/10/2020	Y012152	2107.0	<0.0500	<0.0500	0.748	10.7	619	

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

Bold values indicate an exceedance of the COGCC soil standards for the Site.

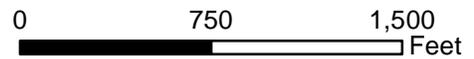
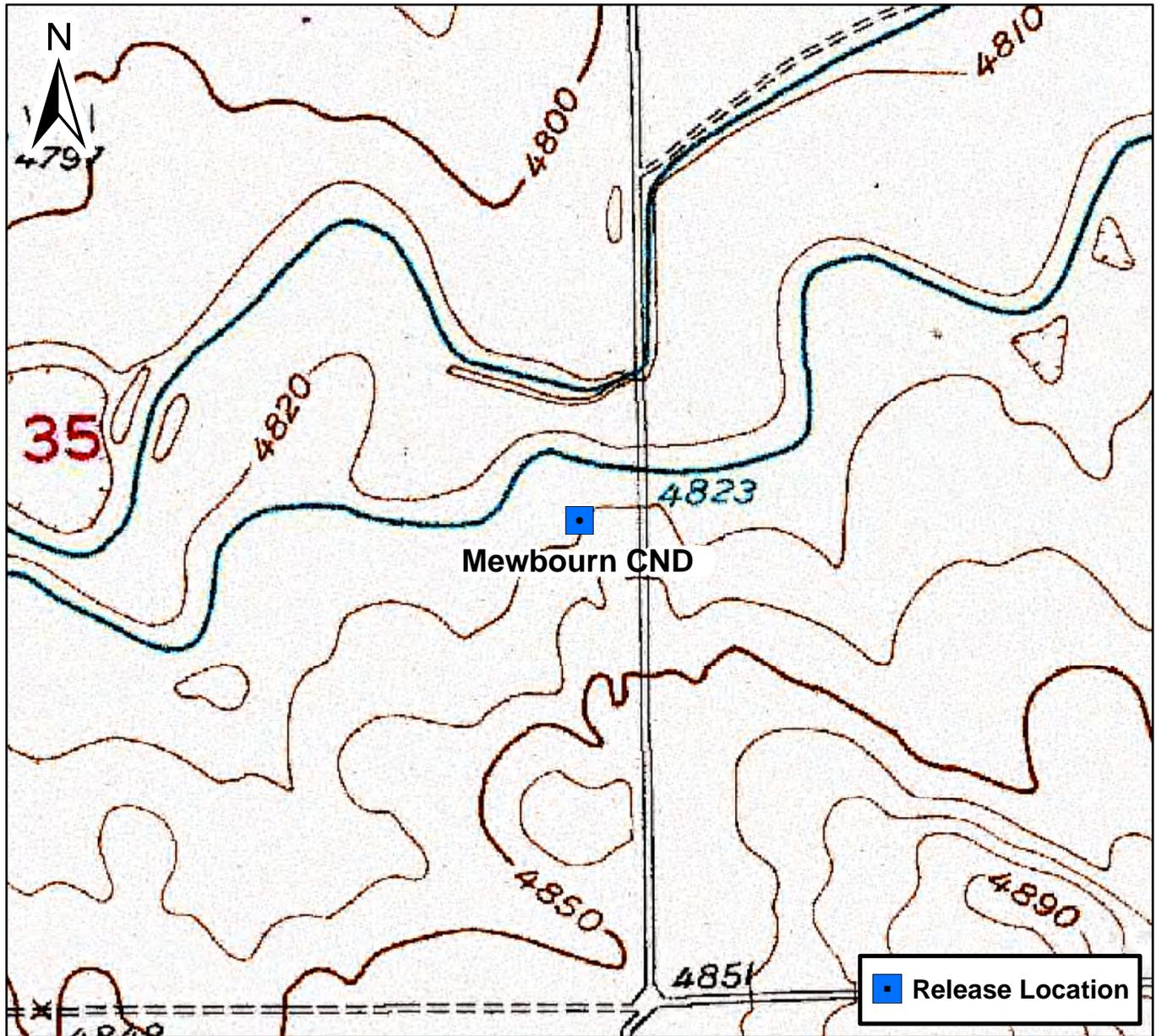
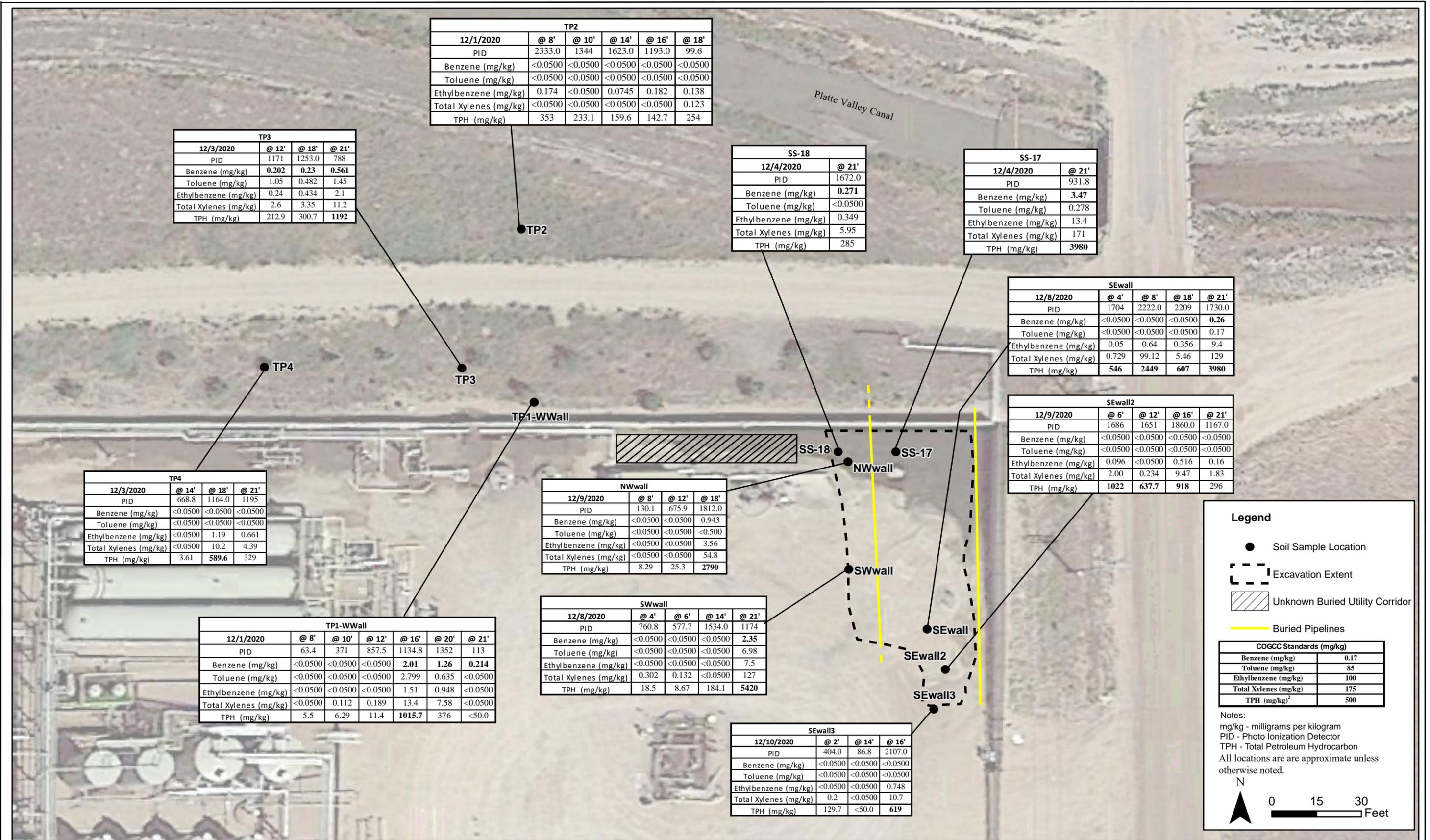


Figure 1

Site Location Map
 Mewbourn CND
 NESE S35 T4N R66W
 Weld County, Colorado





DATE: December 2020

DESIGNED BY: B. Humphrey

DRAWN BY: J. Clonts



DCP Midstream – DJ Basin
Mewbourn CND
 NESE, Section 35, Township 4 North, Range 66 West
 Weld County, Colorado

Soil Sample
 Location and
 Analytical Map

Figure
 2



December 03, 2020

Tasman Geosciences

Brian Humphrey

6855 West 119th Avenue

Broomfield CO 80020

Project Name - DCP - Mewbourne CND

Project Number - [none]

Attached are your analytical results for DCP - Mewbourne CND received by Origins Laboratory, Inc. December 01, 2020. This project is associated with Origins project number Y012011-01.

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 - Mewbourne CND

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP1-WWall@8'	Y012011-01	Soil	December 1, 2020 11:10	12/01/2020 15:00
TP1-WWall@10'	Y012011-02	Soil	December 1, 2020 11:08	12/01/2020 15:00
TP1-WWall@12'	Y012011-03	Soil	December 1, 2020 11:07	12/01/2020 15:00
TP1-WWall@16'	Y012011-05	Soil	December 1, 2020 11:05	12/01/2020 15:00
TP1-WWall@20'	Y012011-07	Soil	December 1, 2020 10:59	12/01/2020 15:00
TP1-WWall@21'	Y012011-08	Soil	December 1, 2020 10:58	12/01/2020 15:00
TP2@8'	Y012011-09	Soil	December 1, 2020 12:22	12/01/2020 15:00
TP2@10'	Y012011-10	Soil	December 1, 2020 12:23	12/01/2020 15:00
TP2@14'	Y012011-12	Soil	December 1, 2020 12:25	12/01/2020 15:00
TP2@16'	Y012011-13	Soil	December 1, 2020 12:26	12/01/2020 15:00
TP2@18'	Y012011-14	Soil	December 1, 2020 12:30	12/01/2020 15:00

Per the email from Brian on 12/3/2020, samples TP1-WWALL@12', TP1-WWALL@16', TP2@10', and TP2@14' were taken off hold, same day TAT.

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 - Mewbourne CND

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y012011

Client: Tasman
 Client Project ID: DCP - Mewbourne

Checklist Completed by: Jm

Shipped Via: FD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 12-1-20

Airbill #: N/A

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

Cooler Number/Temperature: 1, 1, 1 °C / _____ °C / _____ °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⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			X	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			X	
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			X	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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)			X	
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)

Date/Time Reviewed: 12-1-20

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

TP1-WWall@8'
12/1/2020 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012011-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0105	TEM	12/01/2020	12/01/2020	U
Toluene	ND	0.0500	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.0500	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	5.50	5.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.5 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0L0106	TEM	12/01/2020	12/01/2020	U
Surrogate: o-Terphenyl	79.2 %	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 - Mewbourne CND

TP1-WWall@10'
12/1/2020 11:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012011-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0105	TEM	12/01/2020	12/01/2020	U
Toluene	ND	0.0500	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	TEM	"	"	U
Xylenes, total	0.112	0.0500	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	6.29	5.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.2 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0L0106	TEM	12/01/2020	12/01/2020	U
Surrogate: o-Terphenyl	82.0 %	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 - Mewbourne CND

TP1-WWall@12'
12/1/2020 11:07:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012011-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0301	TEM	12/03/2020	12/03/2020	U
Toluene	ND	0.0500	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	TEM	"	"	U
Xylenes, total	0.189	0.0500	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	11.4	5.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.8 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0L0302	TEM	12/03/2020	12/03/2020	U
Surrogate: o-Terphenyl	76.5 %	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 - Mewbourne CND

TP1-WWall@16'
12/1/2020 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012011-05 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	2.01	0.0500	mg/kg	25	B0L0301	TEM	12/03/2020	12/03/2020	
Toluene	2.79	0.0500	"	"	"	TEM	"	"	
Ethylbenzene	1.51	0.0500	"	"	"	TEM	"	"	
Xylenes, total	13.4	0.0500	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	929	50.0	"	250	"	TEM	"	12/03/2020	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"		12/03/2020	
Surrogate: Toluene-d8	91.3 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	95.7 %	70-130			"	"		"	

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

Diesel (C10-C28)	86.7	50.0	mg/kg	1	B0L0302	TEM	12/03/2020	12/03/2020	
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 - Mewbourne CND

TP1-WWall@20'
12/1/2020 10:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012011-07 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	1.26	0.0500	mg/kg	25	B0L0105	TEM	12/01/2020	12/01/2020	
Toluene	0.635	0.0500	"	"	"	TEM	"	"	
Ethylbenzene	0.948	0.0500	"	"	"	TEM	"	"	
Xylenes, total	7.58	0.0500	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	263	5.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	115 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.0 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	113	50.0	mg/kg	1	B0L0106	TEM	12/01/2020	12/01/2020	
Surrogate: o-Terphenyl	84.4 %	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 - Mewbourne CND

TP1-WWali@21'
12/1/2020 10:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012011-08 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.214	0.0500	mg/kg	25	B0L0105	TEM	12/01/2020	12/01/2020	
Toluene	ND	0.0500	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.0500	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	90.4 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0L0106	TEM	12/01/2020	12/01/2020	U
Surrogate: o-Terphenyl	83.6 %	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 - Mewbourne CND

TP2@8'

12/1/2020 12:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012011-09 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0105	TEM	12/01/2020	12/01/2020	U
Toluene	ND	0.0500	"	"	"	TEM	"	"	U
Ethylbenzene	0.174	0.0500	"	"	"	TEM	"	"	
Xylenes, total	ND	0.0500	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	154	5.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.7 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	199	50.0	mg/kg	1	B0L0106	TEM	12/01/2020	12/01/2020	
Surrogate: o-Terphenyl	88.7 %	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 - Mewbourne CND

TP2@10'

12/1/2020 12:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y012011-10 (Soil)**

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0301	TEM	12/03/2020	12/03/2020	U
Toluene	ND	0.0500	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.0500	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	148	5.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	93.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	85.1	50.0	mg/kg	1	B0L0302	TEM	12/03/2020	12/03/2020	
Surrogate: o-Terphenyl	86.1 %	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 - Mewbourne CND

TP2@14'

12/1/2020 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y012011-12 (Soil)**

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0301	TEM	12/03/2020	12/03/2020	U
Toluene	ND	0.0500	"	"	"	TEM	"	"	U
Ethylbenzene	0.0745	0.0500	"	"	"	TEM	"	"	
Xylenes, total	ND	0.0500	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	84.4	5.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	75.2	50.0	mg/kg	1	B0L0302	TEM	12/03/2020	12/03/2020	
Surrogate: o-Terphenyl	80.3 %	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 - Mewbourne CND

TP2@16'

12/1/2020 12:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y012011-13 (Soil)**

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0105	TEM	12/01/2020	12/01/2020	U
Toluene	ND	0.0500	"	"	"	TEM	"	"	U
Ethylbenzene	0.182	0.0500	"	"	"	TEM	"	"	
Xylenes, total	ND	0.0500	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	73.8	5.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.4 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	68.9	50.0	mg/kg	1	B0L0106	TEM	12/01/2020	12/01/2020	
Surrogate: o-Terphenyl	92.8 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

TP2@18'

12/1/2020 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y012011-14 (Soil)**

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0105	TEM	12/01/2020	12/01/2020	U
Toluene	ND	0.0500	"	"	"	TEM	"	"	U
Ethylbenzene	0.138	0.0500	"	"	"	TEM	"	"	
Xylenes, total	0.123	0.0500	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	127	5.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	109 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.0 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	127	50.0	mg/kg	1	B0L0106	TEM	12/01/2020	12/01/2020	
Surrogate: o-Terphenyl	86.1 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

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 B0L0105 - EPA 5030 (soil)

Blank (B0L0105-BLK1)

Prepared: 12/01/2020 Analyzed: 12/01/2020

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		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.3	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 - Mewbourne CND

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 B0L0105 - EPA 5030 (soil)

LCS (B0L0105-BS1)

Prepared: 12/01/2020 Analyzed: 12/01/2020

Benzene	0.0920	0.00200	mg/kg	0.100		92.0	70-130			
Toluene	0.0958	0.00200	"	0.100		95.8	70-130			
Ethylbenzene	0.100	0.00200	"	0.100		100	70-130			
m,p-Xylene	0.201	0.00400	"	0.200		101	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.4	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 - Mewbourne CND

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 B0L0105 - EPA 5030 (soil)

Matrix Spike (B0L0105-MS1)	Source: Y012011-01			Prepared: 12/01/2020 Analyzed: 12/01/2020						
Benzene	0.0871	0.00200	mg/kg	0.100	ND	87.1	70-130			
Toluene	0.0921	0.00200	"	0.100	ND	92.1	70-130			
Ethylbenzene	0.0955	0.00200	"	0.100	ND	95.5	70-130			
m,p-Xylene	0.193	0.00400	"	0.200	0.0260	83.6	70-130			
o-Xylene	0.0985	0.00200	"	0.100	ND	98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.9	70-130			

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Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

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 B0L0105 - EPA 5030 (soil)

Matrix Spike Dup (B0L0105-MSD1)	Source: Y012011-01			Prepared: 12/01/2020 Analyzed: 12/01/2020						
Benzene	0.0897	0.00200	mg/kg	0.100	ND	89.7	70-130	2.96	20	
Toluene	0.0938	0.00200	"	0.100	ND	93.8	70-130	1.92	20	
Ethylbenzene	0.0965	0.00200	"	0.100	ND	96.5	70-130	1.02	20	
m,p-Xylene	0.196	0.00400	"	0.200	0.0260	85.2	70-130	1.62	20	
o-Xylene	0.0999	0.00200	"	0.100	ND	99.9	70-130	1.39	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.2	70-130			

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Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

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 B0L0106 - EPA 3550B										
Blank (B0L0106-BLK1)										
					Prepared: 12/01/2020 Analyzed: 12/01/2020					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	46		"	50.0		92.2	50-150			

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Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

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 B0L0106 - EPA 3550B

LCS (B0L0106-BS1)

Prepared: 12/01/2020 Analyzed: 12/01/2020

Diesel (C10-C28)	796	50.0	mg/kg	1000		79.6	70-130			
Surrogate: <i>o</i> -Terphenyl	44		"	50.0		88.9	50-150			

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 6855 West 119th Avenue
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Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

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 B0L0106 - EPA 3550B

Matrix Spike (B0L0106-MS1)	Source: Y012011-01			Prepared: 12/01/2020 Analyzed: 12/01/2020						
Diesel (C10-C28)	832	50.0	mg/kg	1000	13.2	81.9	70-130			
Surrogate: <i>o</i> -Terphenyl	43		"	50.0		85.3	50-150			

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

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 B0L0106 - EPA 3550B										
Matrix Spike Dup (B0L0106-MSD1)					Source: Y012011-01					Prepared: 12/01/2020 Analyzed: 12/01/2020
Diesel (C10-C28)	794	50.0	mg/kg	1000	13.2	78.0	70-130	4.72	35	
Surrogate: o-Terphenyl	41		"	50.0		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 - Mewbourne CND

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 B0L0301 - EPA 5030 (soil)

Blank (B0L0301-BLK1)

Prepared: 12/03/2020 Analyzed: 12/03/2020

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	0.12		"	0.125		98.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.2	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 - Mewbourne CND

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 B0L0301 - EPA 5030 (soil)

LCS (B0L0301-BS1)

Prepared: 12/03/2020 Analyzed: 12/03/2020

Benzene	0.0565	0.00200	mg/kg	0.0500		113	70-130			
Toluene	0.0518	0.00200	"	0.0500		104	70-130			
Ethylbenzene	0.0528	0.00200	"	0.0500		106	70-130			
m,p-Xylene	0.108	0.00400	"	0.100		108	70-130			
o-Xylene	0.0536	0.00200	"	0.0500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	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 - Mewbourne CND

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 B0L0301 - EPA 5030 (soil)

Matrix Spike (B0L0301-MS1)	Source: Y012011-10			Prepared: 12/03/2020 Analyzed: 12/03/2020						
Benzene	0.0584	0.00200	mg/kg	0.0500	0.00450	108	70-130			
Toluene	0.0544	0.00200	"	0.0500	0.0105	87.8	70-130			
Ethylbenzene	0.0585	0.00200	"	0.0500	ND	117	70-130			
m,p-Xylene	0.115	0.00400	"	0.100	0.00550	110	70-130			
o-Xylene	0.0576	0.00200	"	0.0500	0.00450	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

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 B0L0301 - EPA 5030 (soil)

Matrix Spike Dup (B0L0301-MSD1)	Source: Y012011-10			Prepared: 12/03/2020 Analyzed: 12/03/2020						
Benzene	0.0592	0.00200	mg/kg	0.0500	0.00450	109	70-130	1.36	20	
Toluene	0.0541	0.00200	"	0.0500	0.0105	87.3	70-130	0.442	20	
Ethylbenzene	0.0585	0.00200	"	0.0500	ND	117	70-130	0.0342	20	
m,p-Xylene	0.115	0.00400	"	0.100	0.00550	109	70-130	0.627	20	
o-Xylene	0.0575	0.00200	"	0.0500	0.00450	106	70-130	0.0695	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

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 B0L0302 - EPA 3550B										
Blank (B0L0302-BLK1)					Prepared: 12/03/2020 Analyzed: 12/03/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	20		"	25.0		81.5	50-150			

Origins Laboratory, Inc.



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Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

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 B0L0302 - EPA 3550B

LCS (B0L0302-BS1)

Prepared: 12/03/2020 Analyzed: 12/03/2020

Diesel (C10-C28)	956	50.0	mg/kg	1000		95.6	70-130			
Surrogate: <i>o</i> -Terphenyl	53		"	50.0		106	50-150			

Origins Laboratory, Inc.



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Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

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 B0L0302 - EPA 3550B

Matrix Spike (B0L0302-MS1)	Source: Y012011-10			Prepared: 12/03/2020 Analyzed: 12/03/2020						
Diesel (C10-C28)	1090	50.0	mg/kg	1000	85.1	100	70-130			
Surrogate: o-Terphenyl	53		"	50.0		107	50-150			

Origins Laboratory, Inc.



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 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

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 B0L0302 - EPA 3550B

Matrix Spike Dup (B0L0302-MSD1)	Source: Y012011-10				Prepared: 12/03/2020 Analyzed: 12/03/2020					
Diesel (C10-C28)	1150	50.0	mg/kg	1000	85.1	107	70-130	5.79	35	
Surrogate: o-Terphenyl	60		"	50.0		119	50-150			

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Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - Mewbourne CND

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.



December 04, 2020

Tasman Geosciences

Brian Humphrey

6855 West 119th Avenue

Broomfield CO 80020

Project Name - DCP - Mewbourne

Project Number - [none]

Attached are your analytical results for DCP - Mewbourne received by Origins Laboratory, Inc. December 03, 2020. This project is associated with Origins project number Y012057-01.

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 - Mewbourne

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-3@12'	Y012057-01	Soil	December 3, 2020 9:02	12/03/2020 15:30
TP-3@18'	Y012057-02	Soil	December 3, 2020 9:08	12/03/2020 15:30
TP-3@21'	Y012057-03	Soil	December 3, 2020 9:09	12/03/2020 15:30
TP-4@14'	Y012057-04	Soil	December 3, 2020 9:55	12/03/2020 15:30
TP-4@18'	Y012057-05	Soil	December 3, 2020 9:59	12/03/2020 15:30
TP-4@21'	Y012057-06	Soil	December 3, 2020 10:02	12/03/2020 15:30

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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

Y012057

page 1 of 2

Client: Tasman / DCP
 Address: 6855 W. 119th Ave. Broomfield CO, 80020
 Telephone Number: 303-520-0298
 Email Address: bhumphrey@tasman-geo.com
 Also... → cecole@dcpmidstream.com

Project Manager: Brian Humphrey / Steve Weathers
 Project Name: DCP - Mewburn
 Project Number: DCP - Mewbourne
 Samples Collected By: SC

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions				
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sample #	Other	P		K	O		
TP-3e12'	12/3/20	9:02		X								X	X				
TP-3e18'		9:08		X								X	X				
TP-3e21'		9:09		X								X	X				
TP-4e14'		9:55		X								X	X				
TP-4e18'		9:59		X								X	X				
TP-4e21'		10:02		X								X	X				
Relinquished By: Steve Weathers	Date: 12/3/20	Time: 9:00	Received By: [Signature]	Date: 12/3/20	Time: 1530	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>											
Relinquished By:	Date:	Time:	Received By:	Date:	Time:												

Date Results Needed

11.5

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 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

www.originslab.com
 page 2 of 3
Y010297

ORIGINS
 LABORATORY, INC

Client: TASMAN / DCP
 Address: 6855 W. 119th Ave. Broomfield CO 80020
 Telephone Number: 303-520-0298
 Email Address: bhumphrey@tasman-geo.com
Also!!! cecoc@dep.midstream.com

Project Manager: Brian Humphrey / Steve Walters
 Project Name: DCP - Mewbourne
 Project Number: DCP - Mewbourne
 Samples Collected By: SC

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	Date:			Time:
TP-508'	12/3/20	9:00		X								X	X	Hold	
TP-5010'		9:01		X								X	X	Hold	
TP-5014'		9:04		X								X	X	Hold	
TP-5016'		9:06		X								X	X	Hold	
TP-408'		9:50		X								X	X	Hold	
TP-4010'		9:52		X								X	X	Hold	
TP-4012'		9:53		X								X	X	Hold	
TP-4016'		9:58		X								X	X	Hold	
Relinquished By: <u>Steve Walters</u>	Date: 12/3/20	Time: 9:30	Received By: <u>[Signature]</u>	Date: 12/3/20	Time: 1:50	Received By: <u>[Signature]</u>		Date: 12/3/20	Time: 1:50	Received By: <u>[Signature]</u>		Date: 12/3/20	Time: 1:50	Received By: <u>[Signature]</u>	

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Origins Laboratory, Inc.

Jefe Pellegrini

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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y012057

Client: Tasman
 Client Project ID: DCP - Mewbourne

Checklist Completed by: JG
 Date/time completed: 12/3/20

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): 7 Soil/Solid Water Other: (Describe)

Cooler Number/Temperature: 1 11.5 °C 1 °C 1 °C 1 °C

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input 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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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)

12/3/20
 Date/Time Reviewed

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 - Mewbourne

TP-3@12'
 12/3/2020 9:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y012057-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.202	0.0500	mg/kg	25	B0L0301	TEM	12/03/2020	12/03/2020	
Toluene	1.05	0.0500	"	"	"	TEM	"	"	
Ethylbenzene	0.240	0.0500	"	"	"	TEM	"	"	
Xylenes, total	2.60	0.0500	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	162	5.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	91.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	50.9	50.0	mg/kg	1	B0L0302	TEM	12/03/2020	12/03/2020	
Surrogate: o-Terphenyl	85.2 %	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

TP-3@18'
 12/3/2020 9:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y012057-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.230	0.0500	mg/kg	25	B0L0301	TEM	12/03/2020	12/03/2020	
Toluene	0.482	0.0500	"	"	"	TEM	"	"	
Ethylbenzene	0.434	0.0500	"	"	"	TEM	"	"	
Xylenes, total	3.35	0.0500	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	228	5.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	92.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	72.7	50.0	mg/kg	1	B0L0308	TEM	12/03/2020	12/03/2020	
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Surrogate: o-Terphenyl	100 %	50-150			"	"	"	"	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

TP-3@21'
 12/3/2020 9:09:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y012057-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.561	0.0500	mg/kg	25	B0L0301	TEM	12/03/2020	12/03/2020	
Toluene	1.45	0.0500	"	"	"	TEM	"	"	
Ethylbenzene	2.10	0.0500	"	"	"	TEM	"	"	
Xylenes, total	11.2	0.0500	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	982	50.0	"	250	"	TEM	"	12/04/2020	

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"		12/03/2020	
Surrogate: Toluene-d8	91.0 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	95.2 %	70-130			"	"		"	

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

Diesel (C10-C28)	210	50.0	mg/kg	1	B0L0302	TEM	12/03/2020	12/03/2020	
Surrogate: o-Terphenyl	88.5 %	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 - Mewbourne

TP-4@14'
 12/3/2020 9:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y012057-04 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B0L0309	TEM	12/03/2020	12/03/2020	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	3.61	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0L0302	TEM	12/03/2020	12/03/2020	U
Surrogate: o-Terphenyl	88.4 %	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 - Mewbourne

TP-4@18'
 12/3/2020 9:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y012057-05 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0301	TEM	12/03/2020	12/03/2020	U
Toluene	ND	0.0500	"	"	"	TEM	"	"	U
Ethylbenzene	1.19	0.0500	"	"	"	TEM	"	"	
Xylenes, total	10.2	0.0500	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	492	5.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	90.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	97.6	50.0	mg/kg	1	B0L0302	TEM	12/03/2020	12/03/2020	
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Surrogate: o-Terphenyl	85.1 %	50-150			"	"	"	"	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

TP-4@21'

12/3/2020 10:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012057-06 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0301	TEM	12/03/2020	12/03/2020	U
Toluene	ND	0.0500	"	"	"	TEM	"	"	U
Ethylbenzene	0.661	0.0500	"	"	"	TEM	"	"	
Xylenes, total	4.39	0.0500	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	329	5.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	90.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0L0302	TEM	12/03/2020	12/03/2020	U
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Surrogate: o-Terphenyl	90.5 %	50-150			"	"	"	"	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0301 - EPA 5030 (soil)

Blank (B0L0301-BLK1)

Prepared: 12/03/2020 Analyzed: 12/03/2020

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	0.12		"	0.125		98.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.2	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0301 - EPA 5030 (soil)

LCS (B0L0301-BS1)

Prepared: 12/03/2020 Analyzed: 12/03/2020

Benzene	0.0565	0.00200	mg/kg	0.0500		113	70-130			
Toluene	0.0518	0.00200	"	0.0500		104	70-130			
Ethylbenzene	0.0528	0.00200	"	0.0500		106	70-130			
m,p-Xylene	0.108	0.00400	"	0.100		108	70-130			
o-Xylene	0.0536	0.00200	"	0.0500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	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 - Mewbourne

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 B0L0301 - EPA 5030 (soil)

Matrix Spike (B0L0301-MS1)	Source: Y012011-10			Prepared: 12/03/2020 Analyzed: 12/03/2020						
Benzene	0.0584	0.00200	mg/kg	0.0500	0.00450	108	70-130			
Toluene	0.0544	0.00200	"	0.0500	0.0105	87.8	70-130			
Ethylbenzene	0.0585	0.00200	"	0.0500	ND	117	70-130			
m,p-Xylene	0.115	0.00400	"	0.100	0.00550	110	70-130			
o-Xylene	0.0576	0.00200	"	0.0500	0.00450	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0301 - EPA 5030 (soil)

Matrix Spike Dup (B0L0301-MSD1)	Source: Y012011-10			Prepared: 12/03/2020 Analyzed: 12/03/2020						
Benzene	0.0592	0.00200	mg/kg	0.0500	0.00450	109	70-130	1.36	20	
Toluene	0.0541	0.00200	"	0.0500	0.0105	87.3	70-130	0.442	20	
Ethylbenzene	0.0585	0.00200	"	0.0500	ND	117	70-130	0.0342	20	
m,p-Xylene	0.115	0.00400	"	0.100	0.00550	109	70-130	0.627	20	
o-Xylene	0.0575	0.00200	"	0.0500	0.00450	106	70-130	0.0695	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0302 - EPA 3550B										
Blank (B0L0302-BLK1)										
					Prepared: 12/03/2020 Analyzed: 12/03/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	20		"	25.0		81.5	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0302 - EPA 3550B

LCS (B0L0302-BS1)

Prepared: 12/03/2020 Analyzed: 12/03/2020

Diesel (C10-C28)	956	50.0	mg/kg	1000		95.6	70-130			
Surrogate: <i>o</i> -Terphenyl	53		"	50.0		106	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0302 - EPA 3550B

Matrix Spike (B0L0302-MS1)	Source: Y012011-10			Prepared: 12/03/2020 Analyzed: 12/03/2020						
Diesel (C10-C28)	1090	50.0	mg/kg	1000	85.1	100	70-130			
Surrogate: o-Terphenyl	53		"	50.0		107	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0302 - EPA 3550B

Matrix Spike Dup (B0L0302-MSD1)	Source: Y012011-10			Prepared: 12/03/2020 Analyzed: 12/03/2020						
Diesel (C10-C28)	1150	50.0	mg/kg	1000	85.1	107	70-130	5.79	35	
Surrogate: o-Terphenyl	60		"	50.0		119	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0308 - EPA 3550B										
Blank (B0L0308-BLK1)					Prepared: 12/03/2020 Analyzed: 12/03/2020					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	41		"	50.0		82.2	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0308 - EPA 3550B

LCS (B0L0308-BS1)

Prepared: 12/03/2020 Analyzed: 12/03/2020

Diesel (C10-C28)	900	50.0	mg/kg	1000		90.0	70-130			
Surrogate: <i>o</i> -Terphenyl	48		"	50.0		95.3	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0308 - EPA 3550B

Matrix Spike (B0L0308-MS1)	Source: Y012057-02			Prepared: 12/03/2020 Analyzed: 12/03/2020						
Diesel (C10-C28)	1120	50.0	mg/kg	1000	72.7	105	70-130			
Surrogate: o-Terphenyl	55		"	50.0		110	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0308 - EPA 3550B										
Matrix Spike Dup (B0L0308-MSD1)					Source: Y012057-02					Prepared: 12/03/2020 Analyzed: 12/03/2020
Diesel (C10-C28)	988	50.0	mg/kg	1000	72.7	91.5	70-130	12.9	35	
Surrogate: o-Terphenyl	48		"	50.0		96.4	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0309 - EPA 5030 (soil)

Blank (B0L0309-BLK1)

Prepared: 12/03/2020 Analyzed: 12/03/2020

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		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.2	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0309 - EPA 5030 (soil)

LCS (B0L0309-BS1)

Prepared: 12/03/2020 Analyzed: 12/03/2020

Benzene	0.0559	0.00200	mg/kg	0.0500		112	70-130			
Toluene	0.0512	0.00200	"	0.0500		102	70-130			
Ethylbenzene	0.0521	0.00200	"	0.0500		104	70-130			
m,p-Xylene	0.107	0.00400	"	0.100		107	70-130			
o-Xylene	0.0534	0.00200	"	0.0500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0309 - EPA 5030 (soil)

Matrix Spike (B0L0309-MS1)	Source: Y012057-04			Prepared: 12/03/2020 Analyzed: 12/03/2020						
Benzene	0.0573	0.00200	mg/kg	0.0500	ND	115	70-130			
Toluene	0.0522	0.00200	"	0.0500	ND	104	70-130			
Ethylbenzene	0.0529	0.00200	"	0.0500	ND	106	70-130			
m,p-Xylene	0.109	0.00400	"	0.100	0.00250	107	70-130			
o-Xylene	0.0545	0.00200	"	0.0500	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0309 - EPA 5030 (soil)

Matrix Spike Dup (B0L0309-MSD1)	Source: Y012057-04			Prepared: 12/03/2020 Analyzed: 12/03/2020						
Benzene	0.0539	0.00200	mg/kg	0.0500	ND	108	70-130	6.04	20	
Toluene	0.0486	0.00200	"	0.0500	ND	97.2	70-130	7.11	20	
Ethylbenzene	0.0490	0.00200	"	0.0500	ND	97.9	70-130	7.81	20	
m,p-Xylene	0.101	0.00400	"	0.100	0.00250	98.6	70-130	7.76	20	
o-Xylene	0.0505	0.00200	"	0.0500	ND	101	70-130	7.70	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	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 - Mewbourne

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.

Jen Pellegrini, Project Manager



December 04, 2020

Tasman Geosciences

Brian Humphrey

6855 West 119th Avenue

Broomfield CO 80020

Project Name - DCP - Mewbourne

Project Number - [none]

Attached are your analytical results for DCP - Mewbourne received by Origins Laboratory, Inc. December 04, 2020. This project is associated with Origins project number Y012086-01.

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 - Mewbourne

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-17@21'	Y012086-01	Soil	December 4, 2020 11:37	12/04/2020 16:15
SS-18@21'	Y012086-02	Soil	December 4, 2020 13:15	12/04/2020 16:15

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y012086 Client: Tasman
 Checklist Completed by: JG Client Project ID: Mewbourne
 Date/time completed: 12/4/12 Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NTA
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1771 °C / _____ °C / _____ °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 ≤ 8°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>Some Dry</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)

12/4/12
 Date/Time Reviewed

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 - Mewbourne

SS-17@21'

12/4/2020 11:37:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y012086-01 (Soil)**

BTEX/TVPH by EPA 8260D

Benzene	3.47	0.0500	mg/kg	25	B0L0309	TEM	12/04/2020	12/04/2020	
Toluene	0.278	0.0500	"	"	"	TEM	"	"	
Ethylbenzene	13.4	5.00	"	2500	"	TEM	"	12/04/2020	
Xylenes, total	171	5.00	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	2050	500	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	76.8 %	70-130			"	"		12/04/2020	
Surrogate: Toluene-d8	102 %	70-130			"	"		12/04/2020	
Surrogate: 4-Bromofluorobenzene	89.7 %	70-130			"	"		"	

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

Diesel (C10-C28)	1930	50.0	mg/kg	1	B0L0308	TEM	"	12/04/2020	
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Surrogate: o-Terphenyl	117 %	50-150			"	"		"	
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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 - Mewbourne

SS-18@21'
12/4/2020 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012086-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.271	0.0500	mg/kg	25	B0L0309	TEM	12/04/2020	12/04/2020	
Toluene	ND	0.0500	"	"	"	TEM	"	"	U
Ethylbenzene	0.349	0.0500	"	"	"	TEM	"	"	
Xylenes, total	5.95	0.0500	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	169	5.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	110 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.2 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	116	50.0	mg/kg	1	B0L0308	TEM	"	12/04/2020	
Surrogate: o-Terphenyl	92.0 %	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 - Mewbourne

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 B0L0308 - EPA 3550B										
Blank (B0L0308-BLK1)										
					Prepared: 12/03/2020 Analyzed: 12/03/2020					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	41		"	50.0		82.2	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0308 - EPA 3550B

LCS (B0L0308-BS1)

Prepared: 12/03/2020 Analyzed: 12/03/2020

Diesel (C10-C28)	900	50.0	mg/kg	1000		90.0	70-130			
Surrogate: <i>o</i> -Terphenyl	48		"	50.0		95.3	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0308 - EPA 3550B

Matrix Spike (B0L0308-MS1)	Source: Y012057-02			Prepared: 12/03/2020 Analyzed: 12/03/2020						
Diesel (C10-C28)	1120	50.0	mg/kg	1000	72.7	105	70-130			
Surrogate: <i>o</i> -Terphenyl	55		"	50.0		110	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0308 - EPA 3550B

Matrix Spike Dup (B0L0308-MSD1)	Source: Y012057-02			Prepared: 12/03/2020 Analyzed: 12/03/2020						
Diesel (C10-C28)	988	50.0	mg/kg	1000	72.7	91.5	70-130	12.9	35	
Surrogate: o-Terphenyl	48		"	50.0		96.4	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0309 - EPA 5030 (soil)

Blank (B0L0309-BLK1)

Prepared: 12/03/2020 Analyzed: 12/03/2020

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		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.2	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0309 - EPA 5030 (soil)

LCS (B0L0309-BS1)

Prepared: 12/03/2020 Analyzed: 12/03/2020

Benzene	0.0559	0.00200	mg/kg	0.0500		112	70-130			
Toluene	0.0512	0.00200	"	0.0500		102	70-130			
Ethylbenzene	0.0521	0.00200	"	0.0500		104	70-130			
m,p-Xylene	0.107	0.00400	"	0.100		107	70-130			
o-Xylene	0.0534	0.00200	"	0.0500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0309 - EPA 5030 (soil)

Matrix Spike (B0L0309-MS1)	Source: Y012057-04			Prepared: 12/03/2020 Analyzed: 12/03/2020						
Benzene	0.0573	0.00200	mg/kg	0.0500	ND	115	70-130			
Toluene	0.0522	0.00200	"	0.0500	ND	104	70-130			
Ethylbenzene	0.0529	0.00200	"	0.0500	ND	106	70-130			
m,p-Xylene	0.109	0.00400	"	0.100	0.00250	107	70-130			
o-Xylene	0.0545	0.00200	"	0.0500	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	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 - Mewbourne

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 B0L0309 - EPA 5030 (soil)

Matrix Spike Dup (B0L0309-MSD1)	Source: Y012057-04			Prepared: 12/03/2020 Analyzed: 12/03/2020						
Benzene	0.0539	0.00200	mg/kg	0.0500	ND	108	70-130	6.04	20	
Toluene	0.0486	0.00200	"	0.0500	ND	97.2	70-130	7.11	20	
Ethylbenzene	0.0490	0.00200	"	0.0500	ND	97.9	70-130	7.81	20	
m,p-Xylene	0.101	0.00400	"	0.100	0.00250	98.6	70-130	7.76	20	
o-Xylene	0.0505	0.00200	"	0.0500	ND	101	70-130	7.70	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	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 - Mewbourne

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.

Jen Pellegrini, Project Manager



December 09, 2020

Tasman Geosciences

Brian Humphrey

6855 West 119th Avenue

Broomfield CO 80020

Project Name - DCP - Mewbourne

Project Number - DCP - Mewbourne

Attached are your analytical results for DCP - Mewbourne received by Origins Laboratory, Inc. December 08, 2020. This project is associated with Origins project number Y012121-01.

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: DCP - Mewbourne
Project: DCP - Mewbourne

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SWwall@2'	Y012121-01	Soil	December 8, 2020 9:02	12/08/2020 15:32
SWwall@6'	Y012121-03	Soil	December 8, 2020 9:00	12/08/2020 15:32
SWwall@14'	Y012121-07	Soil	December 8, 2020 8:56	12/08/2020 15:32
SWwall@21'	Y012121-10	Soil	December 8, 2020 8:53	12/08/2020 15:32
SEwall@4'	Y012121-12	Soil	December 8, 2020 12:09	12/08/2020 15:32
SEwall@8'	Y012121-14	Soil	December 8, 2020 12:07	12/08/2020 15:32
SEwall@18'	Y012121-19	Soil	December 8, 2020 12:02	12/08/2020 15:32
SEwall@21'	Y012121-20	Soil	December 8, 2020 12:01	12/08/2020 15:32

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: DCP - Mewbourne
 Project: DCP - Mewbourne

401421

page 1 of 2

Client: Tasman / DCP
 Address: 6855 W. 119th Ave Broomfield
CO 80020
 Telephone Number: 303-520-0298
 Email Address: bhumphrey@tasman-geo.com
cecile@depindstream.com

Project Manager: Brian Humphrey / Stan Wentzels
 Project Name: DCP - Mewbourne
 Project Number: DCP - Mewbourne
 Samples Collected By: SC

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	6	P		R	D
SW well @ 4'	12/8/20	9:02	1	X				X				X				Hold
SW well @ 6'		9:00	1	X				X				X				Hold
SW well @ 8'		8:57	1	X				X				X				Hold
SW well @ 10'		8:58	1	X				X				X				Hold
SW well @ 12'		8:57	1	X				X				X				Hold
SW well @ 14'		8:56	1	X				X				X				Hold
SW well @ 16'		8:55	1	X				X				X				Hold
SW well @ 18'		8:54	1	X				X				X				Hold
SW well @ 21'		8:53	1	X				X				X				Hold
Relinquished By: <u>Steve Casady</u>	Date: <u>12/8/20</u>	Time: <u>1532</u>	Received By: <u>[Signature]</u>	Date: <u>12/8/20</u>	Time: <u>1532</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard										

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

Origins Laboratory, Inc.

Jen Pellegrini

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: DCP - Mewbourne
 Project: DCP - Mewbourne

www.originslab.com

4012121

page 2 of 2

ORIGINS
 LABORATORY, INC

Client: Tasman / DCP
 Address: 6855 W. 119th Ave Broomfield CO 80305
 Telephone Number: 303-520-0298
 Email Address: brian.humphrey@tasman-geo.com
 ceo@cedepmilsteam.com

Project Manager: Brian Humphrey / Steve Weathers
 Project Name: DCP - Mewbourne
 Project Number: DCP - Mewbourne
 Samples Collected By: SC

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	Turnaround Time:	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Canister #				Other
SE wall @ 2'	12/8/20	12:10	1	X				X					Hold	24 Hr <input type="checkbox"/>
SE wall @ 4'		12:09	1	X				X					Hold	48 Hr <input type="checkbox"/>
SE wall @ 6'		12:08	1	X				X					Hold	72 Hr <input type="checkbox"/>
SE wall @ 8'		12:07	1	X				X					Hold	Standard <input checked="" type="checkbox"/>
SE wall @ 10'		12:06	1	X				X					Hold	
SE wall @ 12'		12:05	1	X				X					Hold	
SE wall @ 14'		12:04	1	X				X					Hold	
SE wall @ 16'		12:03	1	X				X					Hold	
SE wall @ 18'		12:02	1	X				X					Hold	
SE wall @ 21'		12:01	1	X				X					Hold	
Relinquished by: Steve Coughlin	Date: 12/8/20	Time: 1532		Received by: [Signature]	Date: 12/9/20	Time: 1532		Received by: [Signature]	Date: 12/9/20	Time: 1532				

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Origins Laboratory, Inc.

Jen Pellegrini

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: DCP - Mewbourne
 Project: DCP - Mewbourne

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4012121

Client: Tasman

Client Project ID: DCP - Mewbourne

Checklist Completed by: D. Pellegrini

Shipped Via: HD

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

Date/time completed: 12-8-20

Airbill #: NA

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

Cooler Number/Temperature: 110.9 °C / _____ °C / _____ °C (Describe)

Thermometer ID: 1003

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 (Project Manager) _____

12-8-20
 Date/Time Reviewed

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: DCP - Mewbourne
 Project: DCP - Mewbourne

SWwall@2'

12/8/2020 9:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y012121-01 (Soil)**

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0806	TEM	12/08/2020	12/09/2020	U
Toluene	ND	0.0500	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	TEM	"	"	U
Xylenes, total	0.302	0.0500	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	18.5	5.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	87.2 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0L0807	TEM	12/08/2020	12/08/2020	U
Surrogate: o-Terphenyl	77.8 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: DCP - Mewbourne
 Project: DCP - Mewbourne

SWwall@6'
12/8/2020 9:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012121-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0806	TEM	12/08/2020	12/08/2020	U
Toluene	ND	0.0500	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	TEM	"	"	U
Xylenes, total	0.132	0.0500	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	8.67	5.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	88.5 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0L0807	TEM	12/08/2020	12/08/2020	U
Surrogate: o-Terphenyl	81.1 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: DCP - Mewbourne
 Project: DCP - Mewbourne

SWwall@14'
 12/8/2020 8:56:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y012121-07 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0806	TEM	12/08/2020	12/08/2020	U
Toluene	ND	0.0500	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.0500	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	73.1	5.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	89.7 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	111	50.0	mg/kg	1	B0L0807	TEM	12/08/2020	12/08/2020	
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Surrogate: o-Terphenyl	82.1 %	50-150			"	"	"	"	
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: DCP - Mewbourne
 Project: DCP - Mewbourne

SWwall@21'
12/8/2020 8:53:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012121-10 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	2.35	0.500	mg/kg	250	B0L0806	TEM	12/08/2020	12/08/2020	
Toluene	6.98	0.500	"	"	"	TEM	"	"	
Ethylbenzene	7.50	0.500	"	"	"	TEM	"	"	
Xylenes, total	127	0.500	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	3310	50.0	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	116 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	89.9 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	2110	50.0	mg/kg	1	B0L0807	TEM	12/08/2020	12/08/2020	
Surrogate: o-Terphenyl	211 %	50-150			"	"	"	"	S-04

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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: DCP - Mewbourne
 Project: DCP - Mewbourne

SEwall@4'

12/8/2020 12:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y012121-12 (Soil)**

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0806	TEM	12/08/2020	12/08/2020	U
Toluene	ND	0.0500	"	"	"	TEM	"	"	U
Ethylbenzene	0.0500	0.0500	"	"	"	TEM	"	"	
Xylenes, total	0.729	0.0500	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	167	5.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	109 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	90.2 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	379	50.0	mg/kg	1	B0L0807	TEM	12/08/2020	12/08/2020	
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Surrogate: o-Terphenyl	104 %	50-150			"	"	"	"	
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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: DCP - Mewbourne
 Project: DCP - Mewbourne

SEwall@8'

12/8/2020 12:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012121-14 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0806	TEM	12/08/2020	12/09/2020	U
Toluene	ND	0.0500	"	"	"	TEM	"	"	U
Ethylbenzene	0.640	0.500	"	250	"	TEM	"	12/08/2020	
Xylenes, total	9.12	0.500	"	"	"	TEM	"	12/09/2020	
Gasoline Range Hydrocarbons	739	50.0	"	"	"	TEM	"	12/08/2020	

Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130			"	"		"	
Surrogate: Toluene-d8	105 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	90.1 %	70-130			"	"		"	

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

Diesel (C10-C28)	1710	50.0	mg/kg	1	B0L0807	TEM	12/08/2020	12/08/2020	
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Surrogate: o-Terphenyl	142 %	50-150			"	"		"	
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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: DCP - Mewbourne
 Project: DCP - Mewbourne

SEwall@18'

12/8/2020 12:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012121-19 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0806	TEM	12/08/2020	12/08/2020	U
Toluene	ND	0.0500	"	"	"	TEM	"	"	U
Ethylbenzene	0.356	0.0500	"	"	"	TEM	"	"	
Xylenes, total	5.46	0.0500	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	293	5.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	112 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	91.1 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	314	50.0	mg/kg	1	B0L0807	TEM	12/08/2020	12/08/2020	
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Surrogate: o-Terphenyl	85.7 %	50-150			"	"	"	"	
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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: DCP - Mewbourne
 Project: DCP - Mewbourne

SEwall@21'

12/8/2020 12:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y012121-20 (Soil)**

BTEX/TVPH by EPA 8260D

Benzene	0.260	0.0500	mg/kg	25	B0L0806	TEM	12/08/2020	12/09/2020	
Toluene	0.170	0.0500	"	"	"	TEM	"	"	
Ethylbenzene	9.40	0.500	"	250	"	TEM	"	12/08/2020	
Xylenes, total	129	0.500	"	"	"	TEM	"	12/09/2020	
Gasoline Range Hydrocarbons	2110	50.0	"	"	"	TEM	"	12/08/2020	

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	115 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	88.9 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	1870	50.0	mg/kg	1	B0L0807	TEM	12/08/2020	12/08/2020	
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Surrogate: o-Terphenyl	113 %	50-150			"	"	"	"	
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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: DCP - Mewbourne
 Project: DCP - Mewbourne

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 B0L0806 - EPA 5030 (soil)

Blank (B0L0806-BLK1)

Prepared: 12/08/2020 Analyzed: 12/08/2020

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	0.15		"	0.125		118	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	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: DCP - Mewbourne
 Project: DCP - Mewbourne

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 B0L0806 - EPA 5030 (soil)

LCS (B0L0806-BS1)

Prepared: 12/08/2020 Analyzed: 12/08/2020

Benzene	0.0451	0.00200	mg/kg	0.0500		90.1	70-130			
Toluene	0.0442	0.00200	"	0.0500		88.4	70-130			
Ethylbenzene	0.0465	0.00200	"	0.0500		93.0	70-130			
m,p-Xylene	0.0968	0.00400	"	0.100		96.8	70-130			
o-Xylene	0.0480	0.00200	"	0.0500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: DCP - Mewbourne
 Project: DCP - Mewbourne

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 B0L0806 - EPA 5030 (soil)

Matrix Spike (B0L0806-MS1)	Source: Y012107-12			Prepared: 12/08/2020 Analyzed: 12/08/2020						
Benzene	0.0544	0.00200	mg/kg	0.0500	ND	109	70-130			
Toluene	0.0497	0.00200	"	0.0500	ND	99.5	70-130			
Ethylbenzene	0.0507	0.00200	"	0.0500	ND	101	70-130			
m,p-Xylene	0.102	0.00400	"	0.100	ND	102	70-130			
o-Xylene	0.0500	0.00200	"	0.0500	ND	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		120	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: DCP - Mewbourne
 Project: DCP - Mewbourne

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 B0L0806 - EPA 5030 (soil)

Matrix Spike Dup (B0L0806-MSD1)	Source: Y012107-12			Prepared: 12/08/2020 Analyzed: 12/08/2020						
Benzene	0.0510	0.00200	mg/kg	0.0500	ND	102	70-130	6.41	20	
Toluene	0.0460	0.00200	"	0.0500	ND	92.0	70-130	7.86	20	
Ethylbenzene	0.0469	0.00200	"	0.0500	ND	93.7	70-130	7.79	20	
m,p-Xylene	0.0949	0.00400	"	0.100	ND	94.9	70-130	7.52	20	
o-Xylene	0.0464	0.00200	"	0.0500	ND	92.7	70-130	7.52	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		122	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: DCP - Mewbourne
 Project: DCP - Mewbourne

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 B0L0807 - EPA 3580										
Blank (B0L0807-BLK1)					Prepared: 12/08/2020 Analyzed: 12/08/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	27		"	25.0		106	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: DCP - Mewbourne
 Project: DCP - Mewbourne

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 B0L0807 - EPA 3580

LCS (B0L0807-BS1)

Prepared: 12/08/2020 Analyzed: 12/08/2020

Diesel (C10-C28)	817	50.0	mg/kg	1000		81.7	70-130			
Surrogate: o-Terphenyl	45		"	50.0		89.4	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: DCP - Mewbourne
 Project: DCP - Mewbourne

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 B0L0807 - EPA 3580

Matrix Spike (B0L0807-MS1)	Source: Y012107-12			Prepared: 12/08/2020 Analyzed: 12/08/2020						
Diesel (C10-C28)	1030	50.0	mg/kg	1000	21.9	101	70-130			
Surrogate: o-Terphenyl	55		"	50.0		110	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: DCP - Mewbourne
 Project: DCP - Mewbourne

**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 B0L0807 - EPA 3580

Matrix Spike Dup (B0L0807-MSD1)	Source: Y012107-12			Prepared: 12/08/2020 Analyzed: 12/08/2020						
Diesel (C10-C28)	809	50.0	mg/kg	1000	21.9	78.7	70-130	24.1	35	
Surrogate: o-Terphenyl	41		"	50.0		81.4	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: DCP - Mewbourne
Project: DCP - Mewbourne

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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.

Jen Pellegrini, Project Manager



December 10, 2020

Tasman Geosciences

Brian Humphrey

6855 West 119th Avenue

Broomfield CO 80020

Project Name - DCP - Mewbourne

Project Number - [none]

Attached are your analytical results for DCP - Mewbourne received by Origins Laboratory, Inc. December 09, 2020. This project is associated with Origins project number Y012138-03.

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 - Mewbourne

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEwall2@6'	Y012138-03	Soil	December 9, 2020 11:56	12/09/2020 15:40
SEwall2@12'	Y012138-06	Soil	December 9, 2020 11:53	12/09/2020 15:40
SEwall2@16'	Y012138-08	Soil	December 9, 2020 11:51	12/09/2020 15:40
SEwall2@21'	Y012138-10	Soil	December 9, 2020 11:48	12/09/2020 15:40
NWWall@8'	Y012138-14	Soil	December 9, 2020 13:48	12/09/2020 15:40
NWWall@12'	Y012138-16	Soil	December 9, 2020 13:46	12/09/2020 15:40
NWWall@18'	Y012138-19	Soil	December 9, 2020 13:43	12/09/2020 15:40
NWWall@21'	Y012138-20	Soil	December 9, 2020 13:42	12/09/2020 15:40

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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne



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Y012138

page 1 of 2

Client: DCP/Tasman
 Address: 6855 W. 119th Ave Broomfield CO 80305
 Telephone Number: 303-520-0298
 Email Address: brian.humphrey@tasman-geo.com
 Project Manager: Brian Humphrey/Steve Wankler
 Project Name: DCP - Mewbourne
 Project Number: DCP - Mewbourne
 Samples Collected By: SC

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 Summa #	Other	DR		RO	
SE wall 202'	12/19/20	11:58	1	X										Hold	1
SE wall 204'		11:59	1	X										Hold	2
SE wall 206'		11:56	1	X											3
SE wall 208'		11:55	1	X										Hold	4
SE wall 2010'		11:54	1	X										Hold	5
SE wall 2012'		11:53	1	X											6
SE wall 2014'		11:52	1	X										Hold	7
SE wall 2016'		11:51	1	X											8
SE wall 2018'		11:50	1	X										Hold	9
SE wall 2021'		11:48	1	X										Hold	10
Relinquished By: <u>Steve Wankler</u>	Date: <u>12/19/20</u>	Time: <u>8:40</u>		Received By: <u>[Signature]</u>	Date: <u>12/19/20</u>	Time: <u>1540</u>		Turnaround Time: <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard							

Temp Received: 18.3 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 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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Y012138

page 2 of 2

ORIGINS
 LABORATORY, INC

Client: DCP / Tasman
 Project Manager: Brian Humphrey
 Address: 6855 W. 119th Ave Broomfield, CO
 Project Name: DCP - Mewbourne
 Project Number: DCP - Mewbourne
 Telephone Number: 303-570-0298
 Samples Collected By: SC
 Email Address: bhumphry@tasman-geo.com
cease @ stopmidstream.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #			Other
NW well e 2'	12/9/20	13:51	1	X								Hold	1
NW well e 4'		13:50	1	X								Hold	2
NW well e 6'		13:49	1	X								Hold	3
NW well e 8'		13:48	1	X								Hold	4
NW well e 10'		13:47	1	X								Hold	5
NW well e 12'		13:46	1	X								Hold	6
NW well e 14'		13:45	1	X								Hold	7
NW well e 16'		13:44	1	X								Hold	8
NW well e 18'		13:43	1	X								Hold	9
NW well e 20'		13:42	1	X								Hold	10
Relinquished By: <u>Steve Carlsby</u>	Date: <u>12/9/20</u>	Time: <u>3:40</u>		Received By: <u>[Signature]</u>	Date: <u>12/9/20</u>	Time: <u>15:40</u>		Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>					

Temp Received: 18.3 Date Results Needed

Origins Laboratory, Inc.

Jen 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 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y012138

Client: Tasman

Client Project ID: Mewbourne

Checklist Completed by: JG

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 12/9/12

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 18.3 °C / _____ °C / _____ °C (Describe) / _____ °C

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>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 (Project Manager) [Signature]

Date/Time Reviewed 12/9/12

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 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

SEwall2@6'

12/9/2020 11:56:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y012138-03 (Soil)**

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0901	KDK	12/09/2020	12/09/2020	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	0.0960	0.0500	"	"	"	KDK	"	"	
Xylenes, total	2.00	0.0500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	239	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	93.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	112 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	783	50.0	mg/kg	1	B0L0902	TEM	12/09/2020	12/09/2020	
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Surrogate: o-Terphenyl	103 %	50-150			"	"	"	"	
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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 - Mewbourne

SEwall2@12'

12/9/2020 11:53:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012138-06 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0901	KDK	12/09/2020	12/09/2020	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	0.234	0.0500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	36.7	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	601	50.0	mg/kg	1	B0L0902	TEM	12/09/2020	12/09/2020	
Surrogate: o-Terphenyl	106 %	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 - Mewbourne

SEwall2@16'

12/9/2020 11:51:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012138-08 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0901	KDK	12/09/2020	12/09/2020	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	0.516	0.0500	"	"	"	KDK	"	"	
Xylenes, total	9.47	0.0500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	372	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	113 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	546	50.0	mg/kg	1	B0L0902	TEM	12/09/2020	12/09/2020	
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Surrogate: o-Terphenyl	107 %	50-150			"	"	"	"	
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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 - Mewbourne

SEwall2@21'

12/9/2020 11:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012138-10 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0901	KDK	12/09/2020	12/10/2020	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	0.160	0.0500	"	"	"	KDK	"	"	
Xylenes, total	1.83	0.0500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	133	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	110 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	163	50.0	mg/kg	1	B0L0902	TEM	12/09/2020	12/09/2020	
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Surrogate: o-Terphenyl	87.3 %	50-150			"	"	"	"	
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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 - Mewbourne

NWWall@8'
 12/9/2020 1:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y012138-14 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0901	KDK	12/09/2020	12/09/2020	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	8.29	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0L0902	TEM	12/09/2020	12/09/2020	U
Surrogate: o-Terphenyl	84.2 %	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 - Mewbourne

NWWall@12'
12/9/2020 1:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012138-16 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L0901	KDK	12/09/2020	12/09/2020	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	25.3	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0L0902	TEM	12/09/2020	12/09/2020	U
Surrogate: o-Terphenyl	81.6 %	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 - Mewbourne

NWall@18'
12/9/2020 1:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012138-19 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.943	0.0500	mg/kg	25	B0L0901	KDK	12/09/2020	12/10/2020	
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	3.56	0.0500	"	"	"	KDK	"	"	
Xylenes, total	54.8	0.500	"	250	"	KDK	"	12/10/2020	
Gasoline Range Hydrocarbons	1540	50.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130			"	"		12/10/2020	
Surrogate: Toluene-d8	91.3 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	109 %	70-130			"	"		12/10/2020	

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

Diesel (C10-C28)	1250	50.0	mg/kg	1	B0L0902	TEM	12/09/2020	12/09/2020	
Surrogate: o-Terphenyl	93.1 %	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 - Mewbourne

NWWall@21'
12/9/2020 1:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012138-20 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	6.14	0.0500	mg/kg	25	B0L0901	KDK	12/09/2020	12/10/2020	
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	6.93	0.0500	"	"	"	KDK	"	"	
Xylenes, total	190	0.500	"	250	"	TEM	"	12/10/2020	
Gasoline Range Hydrocarbons	3770	50.0	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"		12/10/2020	
Surrogate: Toluene-d8	95.1 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	88.7 %	70-130			"	"		12/10/2020	

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

Diesel (C10-C28)	1840	50.0	mg/kg	1	B0L0902	TEM	12/09/2020	12/09/2020	
Surrogate: o-Terphenyl	99.3 %	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 - Mewbourne

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 B0L0901 - EPA 5030 (soil)

Blank (B0L0901-BLK1)

Prepared: 12/09/2020 Analyzed: 12/09/2020

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		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0901 - EPA 5030 (soil)

LCS (B0L0901-BS1)

Prepared: 12/09/2020 Analyzed: 12/09/2020

Benzene	0.0592	0.00200	mg/kg	0.0500		118	70-130			
Toluene	0.0517	0.00200	"	0.0500		103	70-130			
Ethylbenzene	0.0529	0.00200	"	0.0500		106	70-130			
m,p-Xylene	0.109	0.00400	"	0.100		109	70-130			
o-Xylene	0.0533	0.00200	"	0.0500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0901 - EPA 5030 (soil)

Matrix Spike (B0L0901-MS1)	Source: Y012107-07			Prepared: 12/09/2020 Analyzed: 12/09/2020						
Benzene	0.0561	0.00200	mg/kg	0.0500	ND	112	70-130			
Toluene	0.0487	0.00200	"	0.0500	ND	97.3	70-130			
Ethylbenzene	0.0498	0.00200	"	0.0500	ND	99.6	70-130			
m,p-Xylene	0.100	0.00400	"	0.100	ND	100	70-130			
o-Xylene	0.0494	0.00200	"	0.0500	ND	98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	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.

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 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0901 - EPA 5030 (soil)

Matrix Spike Dup (B0L0901-MSD1)	Source: Y012107-07			Prepared: 12/09/2020 Analyzed: 12/09/2020						
Benzene	0.0587	0.00200	mg/kg	0.0500	ND	117	70-130	4.60	20	
Toluene	0.0503	0.00200	"	0.0500	ND	101	70-130	3.27	20	
Ethylbenzene	0.0513	0.00200	"	0.0500	ND	103	70-130	3.01	20	
m,p-Xylene	0.103	0.00400	"	0.100	ND	103	70-130	3.09	20	
o-Xylene	0.0510	0.00200	"	0.0500	ND	102	70-130	3.19	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0902 - EPA 3580										
Blank (B0L0902-BLK1)										
					Prepared: 12/09/2020 Analyzed: 12/09/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	26		"	25.0		106	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0902 - EPA 3580

LCS (B0L0902-BS1)

Prepared: 12/09/2020 Analyzed: 12/09/2020

Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	70-130			
Surrogate: o-Terphenyl	61		"	50.0		123	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0902 - EPA 3580

Matrix Spike (B0L0902-MS1)	Source: Y012122-01			Prepared: 12/09/2020 Analyzed: 12/09/2020						
Diesel (C10-C28)	1040	50.0	mg/kg	1000	87.3	95.1	70-130			
Surrogate: o-Terphenyl	50		"	50.0		101	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L0902 - EPA 3580										
Matrix Spike Dup (B0L0902-MSD1)					Source: Y012122-01					Prepared: 12/09/2020 Analyzed: 12/09/2020
Diesel (C10-C28)	1080	50.0	mg/kg	1000	87.3	99.7	70-130	4.33	35	
Surrogate: <i>o</i> -Terphenyl	53		"	50.0		106	50-150			

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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - Mewbourne

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.

Jen Pellegrini, Project Manager



December 11, 2020

Tasman Geosciences
Brian Humphrey
6855 West 119th Avenue
Broomfield CO 80020

Project Name - DCP - Mewbourne

Project Number - [none]

Attached are your analytical results for DCP - Mewbourne received by Origins Laboratory, Inc. December 10, 2020. This project is associated with Origins project number Y012152-01.

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 - Mewbourne

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEwall3@2'	Y012152-01	Soil	December 10, 2020 12:05	12/10/2020 14:10
SEwall3@14'	Y012152-07	Soil	December 10, 2020 11:59	12/10/2020 14:10
SEwall3@16'	Y012152-08	Soil	December 10, 2020 11:58	12/10/2020 14:10

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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page 1 of 1

2512152

Client: Tasman / DCP

Address: 6855 W. 119th Ave
Broomfield CO 80305

Telephone Number: 303-520-0248

Email Address: bhumphrey@tasman-geo.com
ccole@dcp.mwstream.com

Project Manager: Brian Humphrey / Steve Ventolas

Project Name: DCP - Mewbourne

Project Number: DCP - Mewbourne

Samples Collected By: SC

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa	Conister #	Other		Date	Time
SE wall 3 e 2	12/10/20	12:05	1	X				X						1	
SE wall 3 e 4		12:04	1	X				X						2	Hold
SE wall 3 e 6		12:03	1	X				X						3	Hold
SE wall 3 e 8		12:02	1	X				X						4	Hold
SE wall 3 e 10		12:01	1	X				X						5	Hold
SE wall 3 e 12		12:00	1	X				X						6	Hold
SE wall 3 e 14		11:59	1	X				X						7	Hold
SE wall 3 e 16		11:58	1	X				X						8	Hold
														9	
														10	

Relinquished By: [Signature]

Relinquished By: [Signature]

Date: 12/10/20

Date: 12/10/20

Time: 14:10

Time: 14:10

Received By: [Signature]

Received By: [Signature]

Date: 12/10/20

Date: 12/10/20

Time: 14:10

Time: 14:10

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

Date Results Needed: 11.7

Origins Laboratory, Inc.

Jen Pellegrini

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y012152

Client: Tasman

Client Project ID: Mewbourne

Checklist Completed by: JG

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 12/10/20

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 11.7 °C _____ / _____ °C _____ / _____ °C _____ / _____ °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"/>		
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)

Date/Time Reviewed 12/10/20

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

SEwall3@2'
12/10/2020 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012152-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L1005	KDK	12/10/2020	12/10/2020	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	0.200	0.0500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	14.7	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	115	50.0	mg/kg	1	B0L1004	TEM	12/10/2020	12/10/2020	
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Surrogate: o-Terphenyl	82.0 %	50-150			"	"	"	"	
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

SEwall3@14'
12/10/2020 11:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012152-07 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L1005	KDK	12/10/2020	12/10/2020	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0L1004	TEM	12/10/2020	12/10/2020	U
Surrogate: o-Terphenyl	91.7 %	50-150			"	"	"	"	

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

SEwall3@16'
12/10/2020 11:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y012152-08 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0L1005	KDK	12/10/2020	12/10/2020	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	0.748	0.0500	"	"	"	KDK	"	"	
Xylenes, total	10.7	0.0500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	319	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	121 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	300	50.0	mg/kg	1	B0L1004	TEM	12/10/2020	12/10/2020	
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Surrogate: o-Terphenyl	86.0 %	50-150			"	"	"	"	
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L1004 - EPA 3550B										
Blank (B0L1004-BLK1)					Prepared: 12/10/2020 Analyzed: 12/10/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	25		"	25.0		101	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L1004 - EPA 3550B

LCS (B0L1004-BS1)

Prepared: 12/10/2020 Analyzed: 12/10/2020

Diesel (C10-C28)	1020	50.0	mg/kg	1000		102	70-130			
Surrogate: o-Terphenyl	57		"	50.0		114	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L1004 - EPA 3550B

Matrix Spike (B0L1004-MS1)	Source: Y012136-01			Prepared: 12/10/2020 Analyzed: 12/10/2020						
Diesel (C10-C28)	1350	50.0	mg/kg	1000	266	109	70-130			
Surrogate: o-Terphenyl	52		"	50.0		104	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L1004 - EPA 3550B

Matrix Spike Dup (B0L1004-MSD1)	Source: Y012136-01			Prepared: 12/10/2020 Analyzed: 12/10/2020						
Diesel (C10-C28)	1160	50.0	mg/kg	1000	266	89.0	70-130	15.7	35	
Surrogate: o-Terphenyl	48		"	50.0		95.5	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L1005 - EPA 5030 (soil)										
Blank (B0L1005-BLK1)										
					Prepared: 12/10/2020 Analyzed: 12/10/2020					
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	0.12		"	0.125		92.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L1005 - EPA 5030 (soil)

LCS (B0L1005-BS1)

Prepared: 12/10/2020 Analyzed: 12/10/2020

Benzene	0.0474	0.00200	mg/kg	0.0500		94.8	70-130			
Toluene	0.0511	0.00200	"	0.0500		102	70-130			
Ethylbenzene	0.0552	0.00200	"	0.0500		110	70-130			
m,p-Xylene	0.110	0.00400	"	0.100		110	70-130			
o-Xylene	0.0542	0.00200	"	0.0500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L1005 - EPA 5030 (soil)

Matrix Spike (B0L1005-MS1)	Source: Y012148-01			Prepared: 12/10/2020 Analyzed: 12/10/2020						
Benzene	0.0519	0.00200	mg/kg	0.0500	0.00160	101	70-130			
Toluene	0.0542	0.00200	"	0.0500	ND	108	70-130			
Ethylbenzene	0.0580	0.00200	"	0.0500	0.00158	113	70-130			
m,p-Xylene	0.121	0.00400	"	0.100	0.0108	110	70-130			
o-Xylene	0.0594	0.00200	"	0.0500	0.00188	115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B0L1005 - EPA 5030 (soil)

Matrix Spike Dup (B0L1005-MSD1)	Source: Y012148-01			Prepared: 12/10/2020 Analyzed: 12/10/2020						
Benzene	0.0466	0.00200	mg/kg	0.0500	0.00160	90.0	70-130	10.7	20	
Toluene	0.0485	0.00200	"	0.0500	ND	97.0	70-130	11.1	20	
Ethylbenzene	0.0519	0.00200	"	0.0500	0.00158	101	70-130	11.1	20	
m,p-Xylene	0.111	0.00400	"	0.100	0.0108	100	70-130	8.06	20	
o-Xylene	0.0535	0.00200	"	0.0500	0.00188	103	70-130	10.6	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - Mewbourne

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.



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Jen Pellegrini, Project Manager

Jeb Watts

From: Jeb Watts
Sent: Wednesday, December 2, 2020 3:26 PM
To: Graber - DNR, Nikki
Cc: Cole, Chandler E; Weathers, Stephen W; bhumphrey@tasman-geo.com
Subject: Mewbourn - Progress Update discussion

Hi Nikki,

Thanks for the call back and discussion regarding the Mewbourn progress. As discuss, the excavation and utility clearance activities began recently and we are still in the initial phase since the last approved F27S report. When we were completing some test pits yesterday, we observed groundwater seeping into the bottom of the pit and decided to backfill the test pits due to the surrounding infrastructure and did not collect groundwater sample but we did collect soil samples just above the seepage area as well as right at the groundwater interface. The plan once we open up the excavation some more, we can collect a more representative groundwater sample. In addition and as you mentioned the next F27S progress update is due before the end of the year and we should include any data collected so far and mention that water was encountered in the test pits which will be further addressed following excavation and COGCC was notified within 24hrs of original observation.

Please let us know if you have any questions or would like to discuss. Thanks again and talk to you soon.

Jeb H. Watts, PG, CWP

Senior Geologist
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jwatts@tasman-geo.com

