

FREMONT ENVIRONMENTAL INC.

August 10, 2021

Mr. Jason Davidson
Great Western Operating Company, LLC
1001 17th Street, Suite 2000
Denver, CO 80202

Subject: **Excavation Report**
 Champlin 67, Amoco C1
 API# 05-001-06991
 NWNW Sec 15, T2S, R63W
 Adams County, Colorado
 Fremont Project No. C021-046
 Facility #319853, Spill #480140

Dear Mr. Davidson:

Enclosed please find a copy of the above referenced Excavation Report for the Champlin 67, Amoco C1 release site in Adams County, Colorado. The enclosed report describes excavation actions to remove SAR-impacted soil from the site.

Since the contaminated soil has been removed, Great Western Operating Company, LLC should request that a no further action (NFA) determination be provided by the Colorado Oil and Gas Conservation Commission for this Spill Report.

Please contact me at (303) 956-8714 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

Sincerely,
FREMONT ENVIRONMENTAL INC.



Paul V. Henehan, P.E.
Senior Consultant

Enclosure

EXCAVATION REPORT

GREAT WESTERN OPERATING COMPANY, LLC

CHAMPLIN 67, AMOCO C1

ADAMS COUNTY, COLORADO

FREMONT PROJECT NO. C021-046

FACILITY #319853, SPILL #480140

Prepared by:

Fremont Environmental Inc.

1759 Redwing Lane

Broomfield, CO 80020

(303) 956-8714

August 10, 2021

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EXCAVATION REPORT
GREAT WESTERN OPERATING COMPANY, LLC
CHAMPLIN 67, AMOCO C1
ADAMS COUNTY, COLORADO
FREMONT PROJECT NO. C021-046
FACILITY #319853, SPILL #480140

1.0 INTRODUCTION

The purpose of this document is to present information collected during the excavation of petroleum-impacted soil at the Champlin 67, Amoco C1 wellhead release location in Adams County, Colorado. This excavation project was completed on July 15, 2021.

2.0 BACKGROUND INFORMATION

2.1 Site Location

The Champlin 67, Amoco C1 site is located approximately 10 miles north of Bennett, Colorado in Adams County as shown on Figure 1. The site is located in a rural area approximately 0.75 miles west of the intersection of 104th Avenue East and Highway 79. The location is further described as the NW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 15, Township 2S, Range 63W.

2.2 Site History

The site's excavation area consisted of the soil adjacent to and just northeast of the wellhead. Soil impacts in soil sample SS-01 were identified due to a release that occurred during well maintenance work in June 2021. The soil impacts consisted of elevated sodium absorption ratio (SAR) only; elevated petroleum and metals constituents were not present.

3.0 FIELD ACTIVITIES

Remediation efforts consisted of the excavation of SAR-impacted soil at this site. The soil consisted of road base which was underlain by silty sand to a depth of at least six feet. Groundwater was not encountered during the excavation. The 10' x 20' x 6' deep excavated area is shown on Figure 3.

Excavation was conducted at the site on July 15, 2021. Soil removal was limited to the area affected by the June 2021 release as well as the wellhead. The Champlin 67 Amoco C1 wellhead was also cut and capped at this time. Further documentation of the wellhead cut and cap will be provided in future reporting.

Soil samples were collected at the same location as the previous SS-01 sample at depths of three and six feet. The soil samples were analyzed by Origins Laboratory Inc. of Denver, Colorado for sodium absorption ratio (SAR) by method 20B Saturated Paste. The laboratory reports and chain-of-custody documentation are included in Appendix A.

Summaries of the soil laboratory data from June and July 2021 are included in Tables 1 to 4. Tables 1 to 3 indicate that elevated concentrations of petroleum and polycyclic aromatic hydrocarbons (PAHs) were not present in the soil samples. Arsenic was present in sample SS-01 though at a concentration less than the Background concentration.

Table 4 presents the inorganic concentrations for soil samples. The laboratory analyses indicated that the soil samples collected from depths of one and three feet exceed the Colorado Oil and Gas Conservation Commission (COGCC) Table 915-1 limit of 6 SAR units. However, the SAR concentration from the SS-01 sample at a depth of six feet is approximately equal to the COGCC Table 915-1 SAR limit.

A total of approximately 42 cubic yards of impacted soil was removed by Champion Oilfield Services Inc. from the location over this one-day project. The impacted soil was disposed of at the Buffalo Ridge Landfill in Keenesburg, Colorado as non-hazardous waste.

4.0 DISCUSSION

As demonstrated by the soil sampling, the SAR-impacted soil was removed from the site by excavation. This was confirmed by the analyses of the soil samples collected from the floor which were approximately at the COGCC's Table 915-1 limit for SAR. Disposal manifests show that approximately 42 cubic yards of impacted soil were removed and transported to the Buffalo Ridge Landfill. Therefore, Great Western should request a no further action (NFA) determination from the COGCC.

5.0 REMARKS

The discussion and conclusions contained in this report represent our professional opinions. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

This report was prepared by **FREMONT ENVIRONMENTAL INC.**



8/10/21

Date _____

Paul V. Henahan, P.E.
Senior Consultant

TABLES

TABLE 1
SUMMARY OF VOLATILE ORGANIC IN SOIL CHEMISTRY DATA
GREAT WESTERN OPERATING COMPANY
CHAMPLIN 67 AMOCO C1, ADAMS COUNTY, COLORADO
FREMONT PROJECT NO. C021-046

Sample	Depth (ft)	Date Sampled	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
SS-01	1	6/15/2021	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	0.000687	<0.200	<50	<200
SS-01	3	7/15/2021	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Background 1 Ft	1	7/15/2021	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500*	500*	500*
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500*	500*	500*

Bold faced values exceed the COGCC Table 915-1 concentrations

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON IN SOIL CHEMISTRY DATA
GREAT WESTERN OPERATING COMPANY
CHAMPLIN 67 AMOCO C1
FREMONT PROJECT NO. C021-046

Sample	Depth (ft)	Date Sampled	Location	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) anthracene (mg/kg)	Benzo (b) fluoranthene (mg/kg)	Benzo (k) fluoranthene (mg/kg)	Benzo (a) pyrene (mg/kg)	Chrysene (mg/kg)	Dibenz (a,h) anthracene (mg/kg)	Fluor-anthene (mg/kg)	Fluorene (mg/kg)	Indeno pyrene (mg/kg)	1-Methyl - naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Pyrene (mg/kg)
SS-01	1	6/15/2021	Pad	<0.000431	<0.000426	<0.000441	<0.000138	<0.000486	<0.000133	<0.000256	<0.000279	<0.000529	0.000504	<0.000344	0.00209	0.00164	<0.000387
COGCC Table 915-1 Limits (Residential SSL)				360	1800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
COGCC Table 915-1 Limits (Protection of Groundwater SSL)				0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3

Bold faced values exceed the COGCC Table 915-1 concentrations

Blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

TABLE 3
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
GREAT WESTERN OPERATING COMPANY
CHAMPLIN 67 AMOCO C1, ADAMS COUNTY, COLORADO
FREMONT PROJECT NO. C021-046

Sample	Depth (ft)	Date Sampled	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Chromium (mg/kg)
SS-01	1	6/15/2021	0.725	57.3	0.206	5.18	7.61	4.41	0.173	0.0316	23.8	<0.497
SS-01	3	7/15/2021	0.446	NA	NA	NA	NA	NA	NA	NA	NA	NA
Background	1	7/15/2021	1.39	NA	NA	NA	NA	NA	NA	NA	NA	NA
COGCC Table 915-1 Limits (Residential SSL)			0.68	15000	71	3100	400	1500	390	390	23000	0.3
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	46	14	26	0.26	0.8	370	0.00067

Bold faced values exceed the COGCC Table 915-1 concentrations

Blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

* Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA- Not analyzed

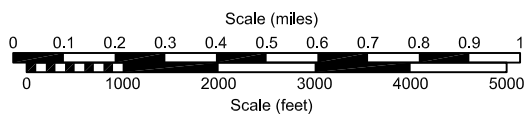
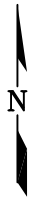
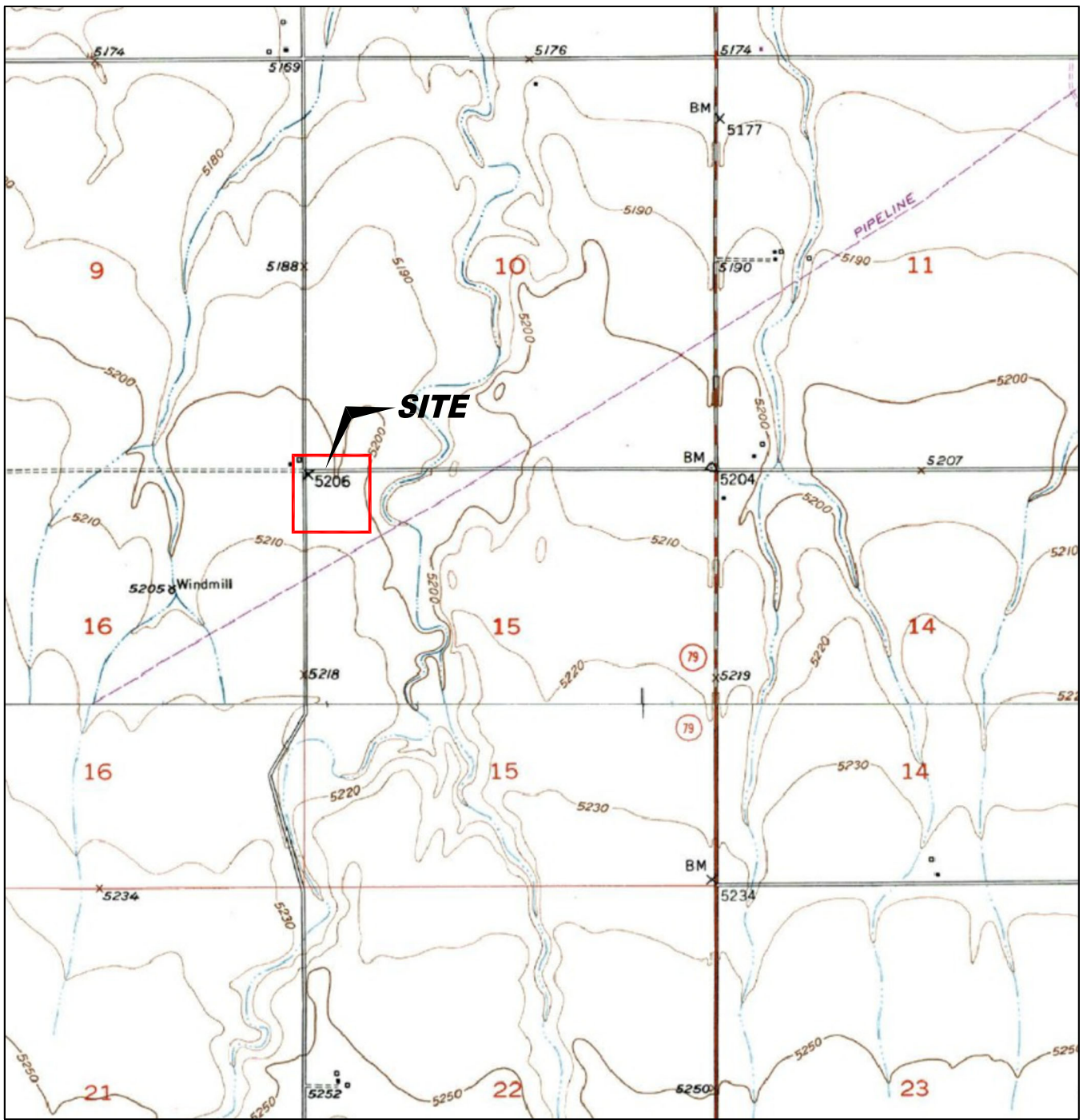
TABLE 4
SUMMARY OF INORGANIC SOIL CHEMISTRY DATA
GREAT WESTERN OPERATING COMPANY
CHAMPLIN 67, AMOCO C1
FREMONT PROJECT NO. C021-046

SAMPLE LOCATION	DATE SAMPLED	DEPTH ft	EC mmhos/cm	pH pH units	SAR units	BORON mg/L
SS-01	6/15/2021	1	2.00	7.86	28.1	NA
SS-01	7/15/2021	3	NA	NA	11.2	NA
SS-01	7/15/2021	6	NA	NA	6.06	NA
Background	7/15/2021	1	0.173	5.92	0.233	<0.198
Table 915-1 Limits			<4	6-8.3	<6	2

Bold face values exceed the COGCC Limits

NA - not analyzed

FIGURES



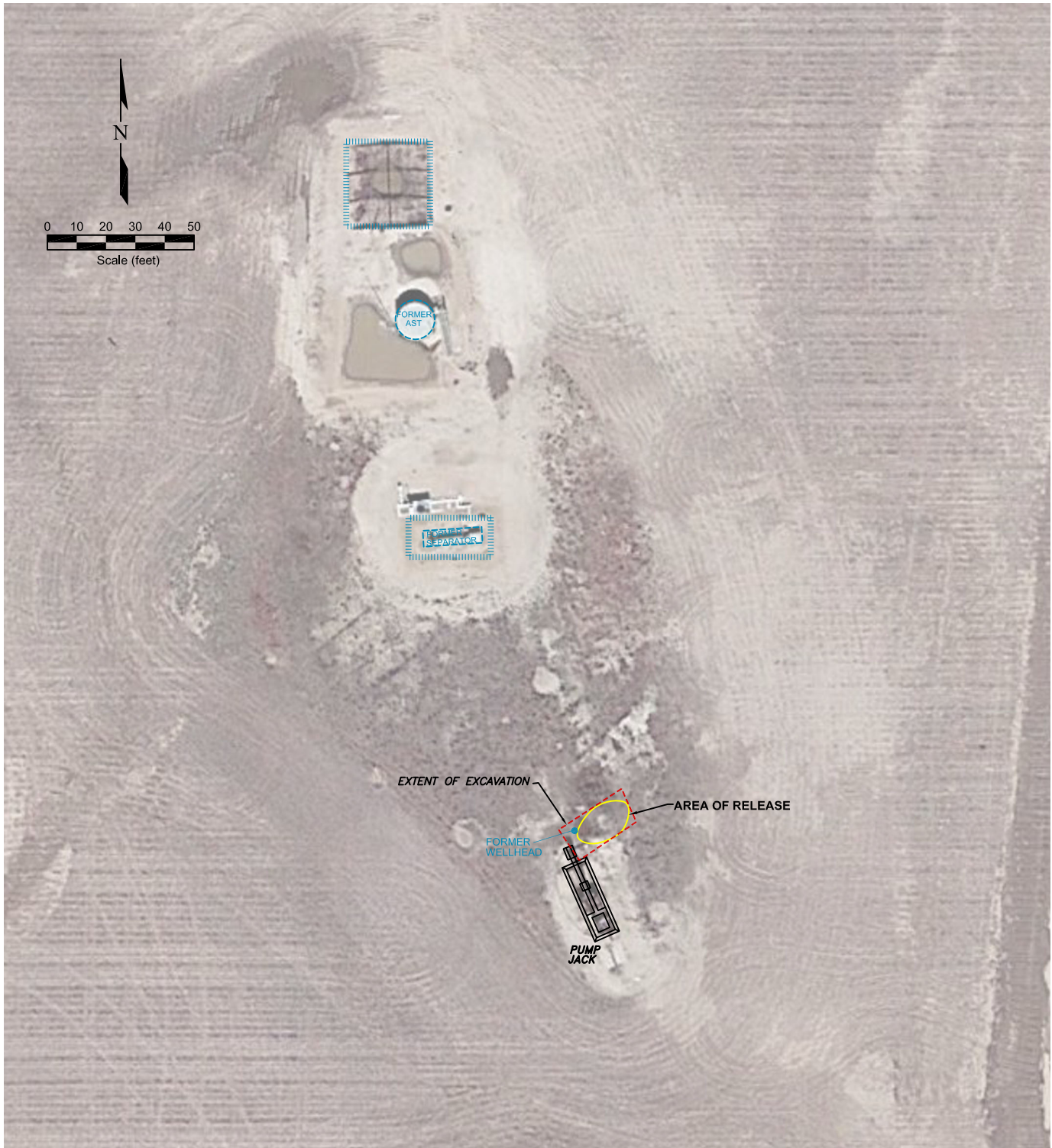
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Great Western Operating Company
Champlin 67, Amoco C1
NWNW Sec. 15, T2S, R63W, 6th PM
Adams County, Colorado

Project # C021-046	API # 05-001-06991	Drawn by TA
Date 8/10/21	Reviewed By PH	Filename 21046T





LEGEND

- WELLHEAD LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- AREA OF RELEASE
- CONTAINMENT EARTH BERM
- - - EXTENT OF EXCAVATION

**Figure 2
SITE MAP**

Great Western Operating Company
Champlin 67, Amoco C1
 NWNW Sec. 15, T2S, R63W, 6th PM
 Adams County, Colorado

Project No. C021-046	API # 05-001-06991	Facility # TA
Date 8/10/21	Reviewed By PH	Filename 21046QA





06/15/2021 SS-01 @ 1'	
ACE	<0.000431
Ant	<0.000426
BaA	<0.000441
BbF	<0.000138
BkF	<0.000486
BaP	<0.000133
Chr	<0.000256
DBahAnt	<0.000279
FLU	<0.000529
FL	0.000504
I 1,2,3cdPY	<0.000344
1-MN	0.00209
2-MN	0.00164
PY	<0.000387

06/15/2021 SS-01 @ 1'	
B	<0.0002
T	<0.0002
E	<0.0002
X	<0.0002
1,2,4-TB	<0.0002
1,3,5-TB	0.0002
N	0.000687
G	<0.200
D	<50
O	<200

06/15/2021 SS-01 @ 1'	
As	0.725
BA	57.3
Co	0.206
Cr(VI)	<0.497
Cu	5.16
Pb	7.61
Ni	4.41
Se	0.173
Ag	0.0316
Zn	23.3

06/15/2021	07/15/2021	07/15/2021
SS-01 @ 1'	SS-01 @ 3'	SS-01 @ 6'
EC	2.00	NA
pH	7.86	NA
SAR	28.1	6.06
BORON	NA	NA

LEGEND

- WELLHEAD LOCATION
- ⊗ SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- ▤ CONTAINMENT EARTH BERM
- ▭ AREA OF RELEASE
- EXTENT OF EXCAVATION

06/15/2021	DATE SAMPLED	06/15/2021	DATE SAMPLED	06/15/2021	DATE SAMPLED
SS-01 @ 1'	SAMPLE ID and DEPTH (ft)	SS-01 @ 1'	SAMPLE ID and DEPTH (ft)	SS-01 @ 1'	SAMPLE ID and DEPTH (ft)
ACE	<0.000431	As	0.725	As	0.725
Ant	<0.000426	BA	57.3	BA	57.3
BaA	<0.000441	Co	0.206	Co	0.206
BbF	<0.000138	Cr(VI)	<0.497	Cr(VI)	<0.497
BbF	<0.000486	Cu	5.16	Cu	5.16
BaP	<0.000133	Pb	7.61	Pb	7.61
Chr	<0.000256	Ni	4.41	Ni	4.41
DBahAnt	<0.000279	Se	0.173	Se	0.173
FLU	<0.000529	Ag	0.0316	Ag	0.0316
FL	0.000504	Zn	23.3	Zn	23.3
I 1,2,3cdPY	<0.000344				
1-MN	0.00209				
2-MN	0.00164				
PY	<0.000387				

NA NOT ANALYZED

Figure 3
SOIL CHEMISTRY MAP
 June 15, 2021
 Great Western Operating Company
 Champlin 67, Amoco C1
 NWNW Sec. 15, T2S, R63W, 6th PM
 Adams County, Colorado

Project No. C021-046	API # 05-001-06991	Facility # TA
Date 8/10/21	Reviewed By PH	Filename 21046QQ



APPENDIX A
LABORATORY DOCUMENTATION

June 24, 2021

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - GWOC - Champlin 67, Amoco C1 Project Number - [none]

Attached are your analytical results for GWOC - Champlin 67, Amoco C1 received by Origins Laboratory, Inc. June 17, 2021. This project is associated with Origins project number Y106404-01.

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



Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: GWOC - Champlin 67, Amoco C1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01	Y106404-01	Soil	June 15, 2021 0:00	06/17/2021 10:00

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.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67, Amoco C1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y106404 Client: Fremont
 Client Project ID: Champlin + Amoco
 Checklist Completed by: JG Shipped Via: HS
 Date/time completed: 6/17/21 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1153 °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"/>			
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"/>		<u>No sample times</u>
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by JM (Project Manager) Date/Time Reviewed 6-18-21

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.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67, Amoco C1

SS-01

6/15/2021 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106404-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		50.0	mg/kg	1	B1F1717	06/17/2021	06/17/2021	U
Residual Range Organics (C28-C40)	ND		200	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.7 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1F1716	06/17/2021	06/17/2021	U
1,3,5-Trimethylbenzene	0.00200		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.8 %		70-130			"	"	"	

Metals by Saturated Paste

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.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67, Amoco C1

SS-01

6/15/2021 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106404-01 (Soil)

Metals by Saturated Paste

Calcium	0.627			meq/L	1	[CALC]	06/18/2021	06/18/2021	
Magnesium	0.107			"	"	"	"	"	
Sodium	17.1			"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00209	0.00048	0.00067	mg/Kg	1	L559639	06/21/2021	06/21/2021	
2-Methylnaphthalene	0.00164	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.000504	0.000501	0.00067	"	"	"	"	"	J
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"	
Naphthalene	0.000687	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	63.1 %		33-115			"	"	"	

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.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67, Amoco C1

SS-01

6/15/2021 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106404-01 (Soil)

PAH by 8270D SIM

Surrogate: 4-Terphenyl-d14	62.8 %		33-122			L5596 39	06/21/2021	06/21/2021	
Surrogate: Nitrobenzene-d5	64.3 %		29-110			"	"	"	

pH in Soil by EPA 9045D

pH	7.86			pH Units	1	B1F1802	06/18/2021	06/20/2021	
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SAR by 20B Saturated Paste

SAR	28.1			SAR	1	B1F1816	06/18/2021	06/18/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	2.00		0.00500	mmhos/cm	1	B1F2106	06/21/2021	06/22/2021	
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Total Metals by 6020B

Arsenic	0.725	0.0855	0.25	mg/Kg	5	L559690	06/21/2021	06/22/2021	
Barium	57.3	0.042	0.25	"	"	"	"	"	
Cadmium	0.206	0.0259	0.25	"	"	"	"	"	J
Copper	5.18	0.0806	0.25	"	"	"	"	"	
Lead	7.61	0.031	0.25	"	"	"	"	"	
Nickel	4.41	0.0633	0.25	"	"	"	"	"	
Selenium	0.173	0.103	0.25	"	"	"	"	"	J
Silver	0.0316	0.0067	0.25	"	"	"	"	"	J

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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: GWOC - Champlin 67, Amoco C1

SS-01

6/15/2021 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106404-01 (Soil)

Total Metals by 6020B

Zinc	23.8	0.534	2.5	mg/Kg	5	L559690	06/21/2021	06/22/2021	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.497	1.02	mg/Kg	2	L559780	06/15/2021	06/22/2021	
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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67, Amoco C1

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 B1F1716 - EPA 5030 (soil)

Blank (B1F1716-BLK1)

Prepared: 06/17/2021 Analyzed: 06/17/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	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		95.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67, Amoco C1

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 B1F1716 - EPA 5030 (soil)

LCS (B1F1716-BS1)

Prepared: 06/17/2021 Analyzed: 06/17/2021

1,2,4-Trimethylbenzene	0.0425	0.00200	mg/kg	0.0500		85.1	70-130			
Naphthalene	0.0413	0.0100	"	0.0500		82.7	70-130			
1,3,5-Trimethylbenzene	0.0435	0.00200	"	0.0500		87.0	70-130			
Benzene	0.0431	0.00200	"	0.0500		86.2	70-130			
Ethylbenzene	0.0534	0.00200	"	0.0500		107	70-130			
m,p-Xylene	0.109	0.00400	"	0.100		109	70-130			
o-Xylene	0.0534	0.00200	"	0.0500		107	70-130			
Toluene	0.0457	0.00200	"	0.0500		91.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		116	70-130			

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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67, Amoco C1

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 B1F1716 - EPA 5030 (soil)

Matrix Spike (B1F1716-MS1)	Source: Y106404-01			Prepared: 06/17/2021 Analyzed: 06/17/2021						
1,2,4-Trimethylbenzene	0.0629	0.00200	mg/kg	0.0500	ND	126	70-130			
Naphthalene	0.0635	0.0100	"	0.0500	0.000920	125	70-130			
1,3,5-Trimethylbenzene	0.0648	0.00200	"	0.0500	0.00200	126	70-130			
Benzene	0.0610	0.00200	"	0.0500	ND	122	70-130			
Ethylbenzene	0.0641	0.00200	"	0.0500	ND	128	70-130			
m,p-Xylene	0.129	0.00400	"	0.100	ND	129	70-130			
o-Xylene	0.0660	0.00200	"	0.0500	0.00134	129	70-130			QM-07
Toluene	0.0622	0.00200	"	0.0500	ND	124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			

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 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67, Amoco C1

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 B1F1716 - EPA 5030 (soil)

Matrix Spike Dup (B1F1716-MSD1)	Source: Y106404-01			Prepared: 06/17/2021 Analyzed: 06/17/2021						
1,2,4-Trimethylbenzene	0.0532	0.00200	mg/kg	0.0500	ND	106	70-130	16.6	20	
Naphthalene	0.0554	0.0100	"	0.0500	0.000920	109	70-130	13.6	20	
1,3,5-Trimethylbenzene	0.0564	0.00200	"	0.0500	0.00200	109	70-130	13.9	20	
Benzene	0.0544	0.00200	"	0.0500	ND	109	70-130	11.5	20	
Ethylbenzene	0.0561	0.00200	"	0.0500	ND	112	70-130	13.3	20	
m,p-Xylene	0.112	0.00400	"	0.100	ND	112	70-130	14.2	20	
o-Xylene	0.0576	0.00200	"	0.0500	0.00134	113	70-130	13.6	20	
Toluene	0.0551	0.00200	"	0.0500	ND	110	70-130	12.0	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	70-130			

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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67, Amoco C1

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 B1F1717 - EPA 3550B										
Blank (B1F1717-BLK1)										
					Prepared: 06/17/2021 Analyzed: 06/17/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	25.0		91.0	50-150			

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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67, Amoco C1

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 B1F1717 - EPA 3550B

LCS (B1F1717-BS1)

Prepared: 06/17/2021 Analyzed: 06/17/2021

Diesel (C10-C28)	435	50.0	mg/kg	500		87.0	70-130			
Residual Range Organics (C28-C40)	456	200	"	500		91.3	70-130			
Surrogate: o-Terphenyl	42		"	50.0		83.9	50-150			

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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67, Amoco C1

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 B1F1717 - EPA 3550B

Matrix Spike (B1F1717-MS1)	Source: Y106404-01			Prepared: 06/17/2021 Analyzed: 06/17/2021						
Diesel (C10-C28)	422	50.0	mg/kg	500	ND	84.5	70-130			
Residual Range Organics (C28-C40)	473	200	"	500	36.1	87.5	70-130			
Surrogate: o-Terphenyl	40		"	50.0		80.9	50-150			

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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67, Amoco C1

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 B1F1717 - EPA 3550B

Matrix Spike Dup (B1F1717-MSD1)	Source: Y106404-01			Prepared: 06/17/2021 Analyzed: 06/17/2021						
Diesel (C10-C28)	447	50.0	mg/kg	500	ND	89.5	70-130	5.78	35	
Residual Range Organics (C28-C40)	486	200	"	500	36.1	89.9	70-130	2.54	35	
Surrogate: o-Terphenyl	41		"	50.0		82.6	50-150			

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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67, Amoco C1

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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Saturated Paste - 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 B1F1802 - NO PREP

Duplicate (B1F1802-DUP1)

Source: Y106417-01

Prepared: 06/18/2021 Analyzed: 06/20/2021

pH	7.54		pH Units		7.83			3.77	25	
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Batch B1F2106 - NO PREP

Blank (B1F2106-BLK1)

Prepared: 06/21/2021 Analyzed: 06/22/2021

Specific Conductance (EC)	0.00160	0.00500	mmhos/cm							
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Duplicate (B1F2106-DUP1)

Source: Y106434-01

Prepared: 06/21/2021 Analyzed: 06/22/2021

Specific Conductance (EC)	8.66	0.00500	mmhos/cm		8.70			0.516	25	
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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67, Amoco C1

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L559639 - 3550B

MSD (L 99169-MSD-L559639)		Source: 99169			Prepared: 06/21/2021 Analyzed: 06/21/2021					
Anthracene	0.124	0.000426	mg/Kg	0.165	<0.000426	75.1	30-130	3.2	30	
Dibenz(a,h)anthracene	0.127	0.000279	"	0.165	<0.000279	76.9	30-130	0.7	30	
Pyrene	0.118	0.000387	"	0.165	<0.000387	71.5	30-130	4.3	30	
Naphthalene	0.111	0.000467	"	0.165	<0.000467	67.2	30-130	3.6	30	
Indeno(1,2,3-cd)pyrene	0.122	0.000344	"	0.165	<0.000344	73.9	30-130	0.8	30	
Fluorene	0.117	0.000501	"	0.165	<0.000501	70.9	30-130	0	30	
Fluoranthene	0.121	0.000529	"	0.165	<0.000529	73.3	30-130	5	30	
Benzo(a)pyrene	0.13	0.000133	"	0.165	<0.000133	78.7	30-130	0.7	30	
1-Methylnaphthalene	0.122	0.00048	"	0.165	<0.000480	73.9	30-130	8.5	30	
Chrysene	0.126	0.000256	"	0.165	<0.000256	76.3	30-130	1.6	30	
2-Methylnaphthalene	0.123	0.000542	"	0.165	<0.000542	74.5	30-130	6.7	30	
Acenaphthene	0.112	0.000431	"	0.165	<0.000431	67.8	30-130	1.8	30	
Benzo(a)anthracene	0.123	0.000441	"	0.165	<0.000441	74.5	30-130	3.3	30	
Benzo(b)fluoranthene	0.101	0.000138	"	0.165	<0.000138	61.2	30-130	8.5	30	
Benzo(k)fluoranthene	0.0905	0.000486	"	0.165	<0.000486	54.8	30-130	6.2	30	
Surrogate: Nitrobenzene-d5	70.3		"	0.33	236	70.3	29-110			
Surrogate: 2-Fluorobiphenyl	70.9		"	0.33	232	70.9	33-115			
Surrogate: 4-Terphenyl-d14	64.8		"	0.33	212	64.8	33-122			

MS (L 99169-MS-L559639)		Source: 99169			Prepared: 06/21/2021 Analyzed: 06/21/2021					
1-Methylnaphthalene	0.112	0.00048	mg/Kg	0.166	<0.000480	67.4	30-130			
2-Methylnaphthalene	0.115	0.000542	"	0.166	<0.000542	69.2	30-130			
Acenaphthene	0.11	0.000431	"	0.166	<0.000431	66.2	30-130			
Anthracene	0.12	0.000426	"	0.166	<0.000426	72.2	30-130			
Benzo(a)anthracene	0.119	0.000441	"	0.166	<0.000441	71.6	30-130			
Benzo(a)pyrene	0.129	0.000133	"	0.166	<0.000133	77.7	30-130			
Benzo(b)fluoranthene	0.11	0.000138	"	0.166	<0.000138	66.2	30-130			

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Fremont Environmental
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 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67, Amoco C1

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L559639 - 3550B

MS (L 99169-MS-L559639)	Source: 99169		Prepared: 06/21/2021 Analyzed: 06/21/2021							
Fluoranthene	0.115	0.000529	mg/Kg	0.166	<0.000529	69.2	30-130			
Pyrene	0.113	0.000387	"	0.166	<0.000387	68	30-130			
Dibenz(a,h)anthracene	0.126	0.000279	"	0.166	<0.000279	75.9	30-130			
Fluorene	0.117	0.000501	"	0.166	<0.000501	70.4	30-130			
Indeno(1,2,3-cd)pyrene	0.121	0.000344	"	0.166	<0.000344	72.8	30-130			
Naphthalene	0.107	0.000467	"	0.166	<0.000467	64.4	30-130			
Benzo(k)fluoranthene	0.0963	0.000486	"	0.166	<0.000486	58	30-130			
Chrysene	0.124	0.000256	"	0.166	<0.000256	74.6	30-130			
Surrogate: 2-Fluorobiphenyl	65.9		"	0.332	232	65.9	33-115			
Surrogate: 4-Terphenyl-d14	63.8		"	0.332	212	63.8	33-122			
Surrogate: Nitrobenzene-d5	66.2		"	0.332	236	66.2	29-110			

LCS (LCS-L559639)	Prepared: 06/21/2021 Analyzed: 06/21/2021									
Benzo(a)pyrene	0.13	0.000133	mg/Kg	0.167		77.8	30-130			
Benzo(a)anthracene	0.122	0.000441	"	0.167		73	30-130			
Anthracene	0.127	0.000426	"	0.167		76	30-130			
Acenaphthene	0.119	0.000431	"	0.167		71.2	30-130			
Benzo(b)fluoranthene	0.118	0.000138	"	0.167		70.6	30-130			
2-Methylnaphthalene	0.118	0.000542	"	0.167		70.6	30-130			
Benzo(k)fluoranthene	0.102	0.000486	"	0.167		61	30-130			
Chrysene	0.129	0.000256	"	0.167		77.2	30-130			
1-Methylnaphthalene	0.115	0.00048	"	0.167		68.8	30-130			
Fluorene	0.123	0.000501	"	0.167		73.6	30-130			
Fluoranthene	0.125	0.000529	"	0.167		74.8	30-130			
Naphthalene	0.11	0.000467	"	0.167		65.8	30-130			
Pyrene	0.123	0.000387	"	0.167		73.6	30-130			
Dibenz(a,h)anthracene	0.142	0.000279	"	0.167		85	30-130			

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 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67, Amoco C1

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L559639 - 3550B

LCS (LCS-L559639)

Prepared: 06/21/2021 Analyzed: 06/21/2021

Indeno(1,2,3-cd)pyrene	0.141	0.000344	mg/Kg	0.167		84.4	30-130			
Surrogate: 2-Fluorobiphenyl	76.2		"	0.333		76.2	33-115			
Surrogate: 4-Terphenyl-d14	73.5		"	0.333		73.5	33-122			
Surrogate: Nitrobenzene-d5	69.6		"	0.333		69.6	29-110			

LRB (LRB-L559639)

Prepared: 06/21/2021 Analyzed: 06/21/2021

Indeno(1,2,3-cd)pyrene	ND	0.00067	mg/Kg				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	69.3		"	0.333		69.3	33-115			
Surrogate: 4-Terphenyl-d14	66		"	0.333		66	33-122			
Surrogate: Nitrobenzene-d5	72		"	0.333		72	29-110			

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 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67, Amoco C1

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L559690 - 3050B

MSD (L 99177-MSD-L559690)		Source: 99177			Prepared: 06/21/2021 Analyzed: 06/22/2021					
Cadmium	1.14	0.0259	mg/Kg	0.473	0.658	102	75-125	4.4	80	
Copper	22.7	0.0806	"	2.37	21	72	75-125	2.2	80	*
Lead	122	0.031	"	2.37	177	NR	75-125	12.1	80	*
Nickel	8.02	0.0633	"	2.37	5.14	122	75-125	5.1	80	
Selenium	3.31	0.103	"	4.73	0.163	70	75-125	4.1	80	*
Silver	0.611	0.0067	"	0.473	0.151	129	75-125	5	80	*
Zinc	137	0.534	"	23.7	89.7	200	75-125	9.1	80	*
Barium	88.2	0.042	"	4.73	75.6	266	75-125	4.4	80	*
Arsenic	3.61	0.0855	"	2.37	1.89	73	75-125	1.1	80	*

MS (L 99177-MS-L559690)		Source: 99177			Prepared: 06/21/2021 Analyzed: 06/22/2021					
Zinc	125	0.534	mg/Kg	24.5	89.7	144	75-125			*
Silver	0.581	0.0067	"	0.491	0.151	118	75-125			
Selenium	3.45	0.103	"	4.91	0.163	70	75-125			*
Nickel	8.44	0.0633	"	2.45	5.14	135	75-125			*
Lead	108	0.031	"	2.45	177	NR	75-125			*
Copper	22.2	0.0806	"	2.45	21	49	75-125			*
Cadmium	1.09	0.0259	"	0.491	0.658	88	75-125			
Arsenic	3.65	0.0855	"	2.45	1.89	72	75-125			*
Barium	84.4	0.042	"	4.91	75.6	179	75-125			*

LCS (LCS-L559690)		Prepared: 06/21/2021 Analyzed: 06/22/2021								
Selenium	4.53	0.103	mg/Kg	5		91	80-120			
Silver	0.472	0.0067	"	0.5		94	80-120			
Nickel	2.36	0.0633	"	2.5		94	80-120			
Lead	2.4	0.031	"	2.5		96	80-120			
Copper	2.43	0.0806	"	2.5		97	80-120			

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.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67, Amoco C1

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L559690 - 3050B

LCS (LCS-L559690)

Prepared: 06/21/2021 Analyzed: 06/22/2021

Cadmium	0.475	0.0259	mg/Kg	0.5		95	80-120			
Barium	4.81	0.042	"	5		96	80-120			
Arsenic	2.26	0.0855	"	2.5		90	80-120			
Zinc	23.8	0.534	"	25		95	80-120			

LRB (LRB-L559690)

Prepared: 06/21/2021 Analyzed: 06/22/2021

Zinc	ND	2.5	mg/Kg				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67, Amoco C1

Total Metals by 7196A - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L559780 -										
DUP (L 99206-DUP)			Source: 99206			Prepared: Analyzed: 06/22/2021				
Chromium, Hexavalent	1.22	0.244	mg/Kg		1.22		-	0	20	
MS (L 99206-MS)			Source: 99206			Prepared: Analyzed: 06/22/2021				
Chromium, Hexavalent	7.46	0.244	mg/Kg	7.79	1.22	80	75-125			
LCS (LCS)						Prepared: Analyzed: 06/22/2021				
Chromium, Hexavalent	7.24	0.244	mg/Kg	8		91	75-125			
LRB (LRB)						Prepared: Analyzed: 06/22/2021				
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: GWOC - Champlin 67, Amoco C1

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on 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.

August 02, 2021

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - GWOC - Champlin 67, Amoco C1 Project Number - C021-046

Attached are your analytical results for GWOC - Champlin 67, Amoco C1 received by Origins Laboratory, Inc. July 16, 2021. This project is associated with Origins project number Y107342-01.

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



Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: C021-046
Project: GWOC - Champlin 67, Amoco C1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N Wall 4ft	Y107342-01	Soil	July 15, 2021 0:00	07/16/2021 13:30
Floor 7ft	Y107342-02	Soil	July 15, 2021 0:00	07/16/2021 13:30
SS-01 3ft	Y107342-03	Soil	July 15, 2021 0:00	07/16/2021 13:30
SS-01 6ft	Y107342-04	Soil	July 15, 2021 0:00	07/16/2021 13:30
Background 1ft	Y107342-05	Soil	July 15, 2021 0:00	07/16/2021 13:30

SAR added to SS-01 6Ft per the email from Paul on 7/27/2021. JEP

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.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-046
 Project: GWOC - Champlin 67, Amoco C1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y107342 Client: Fremont
 Checklist Completed by: JG Client Project ID: Champlin 67, Amoco C1
 Date/time completed: 7/16/21 Shipped Via: _____
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: _____
 Matrix(s) Received: (Check all that apply): Soil/Solid _____ Water _____ Other: _____
 Cooler Number/Temperature: 1, 4.6 °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"/>	<input checked="" type="checkbox"/>		no sample times
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ ; HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by JM (Project Manager)

Date/Time Reviewed 7-19-21

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.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-046
 Project: GWOC - Champlin 67, Amoco C1

N Wall 4ft
7/15/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107342-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1G1605	DJL	07/16/2021	07/16/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	DJL	"	"	U

Surrogate: *o*-Terphenyl 92.6 % 50-150 " " "

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G1604	DJL	07/16/2021	07/16/2021	U
Naphthalene	ND	0.00380	"	"	"	DJL	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	DJL	"	"	U
Benzene	ND	0.00200	"	"	"	DJL	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	DJL	"	"	U
Toluene	ND	0.00200	"	"	"	DJL	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	DJL	"	"	U
Xylenes, total	ND	0.00200	"	"	"	DJL	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
 Surrogate: Toluene-d8 96.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.8 % 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.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-046
 Project: GWOC - Champlin 67, Amoco C1

Floor 7ft

7/15/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107342-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.680	0.200	mg/L	1	B1G1913	JMA	07/19/2021	07/20/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1G1605	DJL	07/16/2021	07/16/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	DJL	"	"	U

Surrogate: <i>o</i> -Terphenyl	90.3 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G1604	DJL	07/16/2021	07/16/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	DJL	"	"	U
Benzene	ND	0.00200	"	"	"	DJL	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	DJL	"	"	U
Toluene	ND	0.00200	"	"	"	DJL	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	DJL	"	"	U
Xylenes, total	ND	0.00200	"	"	"	DJL	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %	70-130			"	"	"	"	

Metals by Saturated Paste

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-046
 Project: GWOC - Champlin 67, Amoco C1

Floor 7ft

7/15/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107342-02 (Soil)

Metals by Saturated Paste

Calcium	0.410	0.0499	meq/L	1	[CALC]	CJM	07/20/2021	07/21/2021	
Magnesium	0.111	0.0823	"	"	"	CJM	"	"	
Sodium	22.7	0.0435	"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L564417		07/19/2021	07/19/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	0.000572	0.00067	"	"	"		"	"	J
Pyrene	ND	0.00067	"	"	"		"	"	

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-046
 Project: GWOC - Champlin 67, Amoco C1

Floor 7ft

7/15/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107342-02 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	56.6 %	33-115			L5644 17		07/19/2021	07/19/2021	
Surrogate: 4-Terphenyl-d14	52 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	50.5 %	29-110			"	"	"	"	

pH in Soil by EPA 9045D

pH	7.65		pH Units	1	B1G2001	DJL	07/20/2021	07/20/2021	
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SAR by 20B Saturated Paste

SAR	44.4		SAR	1	B1G2007	CJM	07/20/2021	07/21/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.58	0.00500	mmhos/cm	1	B1G2004	DJL	07/20/2021	07/20/2021	
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Total Metals by 6020B

Arsenic	0.567	0.25	mg/Kg	5	L564442		07/19/2021	07/20/2021	
Barium	21.5	0.25	"	"	"		"	"	
Cadmium	0.0371	0.25	"	"	"		"	"	J
Copper	1.67	0.25	"	"	"		"	"	
Lead	2.72	0.25	"	"	"		"	"	
Nickel	1.48	0.25	"	"	"		"	"	
Selenium	ND	0.25	"	"	"		"	"	

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: C021-046
Project: GWOC - Champlin 67, Amoco C1

Floor 7ft

7/15/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107342-02 (Soil)

Total Metals by 6020B

Silver	0.0074	0.25	mg/Kg	5	L564442		07/19/2021	07/20/2021	J
Zinc	7.42	2.5	"	"	"		"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.503	mg/Kg	1	L565035		07/15/2021	07/22/2021	
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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.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-046
 Project: GWOC - Champlin 67, Amoco C1

SS-01 3ft

7/15/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107342-03 (Soil)

Metals by Saturated Paste

Calcium	16.2	0.0499	meq/L	1	[CALC]	CJM	07/20/2021	07/21/2021	
Magnesium	2.91	0.0823	"	"	"	CJM	"	"	
Sodium	34.6	0.0435	"	"	"	CJM	"	"	

SAR by 20B Saturated Paste

SAR	11.2		SAR	"	B1G2007	CJM	"	"	
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Total Metals by 6020B

Arsenic	0.446	0.25	mg/Kg	5	L564442		07/19/2021	07/20/2021	
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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.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-046
 Project: GWOC - Champlin 67, Amoco C1

SS-01 6ft

7/15/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107342-04 (Soil)

Metals by Saturated Paste

Calcium	6.72	0.0499	meq/L	1	[CALC]	CJM	07/28/2021	07/28/2021	
Magnesium	2.36	0.0823	"	"	"	CJM	"	"	
Sodium	12.9	0.0435	"	"	"	CJM	"	"	

SAR by 20B Saturated Paste

SAR	6.06		SAR	"	B1G2812	CJM	"	"	
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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.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-046
 Project: GWOC - Champlin 67, Amoco C1

Background 1ft
7/15/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107342-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.198	mg/L	1	B1G1913	JMA	07/19/2021	07/20/2021	
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Metals by Saturated Paste

Calcium	1.04	0.0499	meq/L	"	[CALC]	CJM	07/20/2021	07/21/2021	
Magnesium	0.426	0.0823	"	"	"	CJM	"	"	
Sodium	0.200	0.0435	"	"	"	CJM	"	"	

pH in Soil by EPA 9045D

pH	5.92		pH Units	1	B1G2001	DJL	07/20/2021	07/20/2021	
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SAR by 20B Saturated Paste

SAR	0.233		SAR	1	B1G2007	CJM	07/20/2021	07/21/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.173	0.00500	mmhos/cm	1	B1G2004	DJL	07/20/2021	07/20/2021	
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Total Metals by 6020B

Arsenic	1.39	0.25	mg/Kg	5	L564442		07/19/2021	07/20/2021	
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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-046
 Project: GWOC - Champlin 67, Amoco C1

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 B1G1604 - EPA 5030 (soil)

Blank (B1G1604-BLK1)

Prepared: 07/16/2021 Analyzed: 07/16/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	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		96.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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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 B1G1604 - EPA 5030 (soil)

LCS (B1G1604-BS1)

Prepared: 07/16/2021 Analyzed: 07/16/2021

1,2,4-Trimethylbenzene	0.0510	0.00200	mg/kg	0.0500		102	70-130			
Naphthalene	0.0426	0.0100	"	0.0500		85.2	70-130			
1,3,5-Trimethylbenzene	0.0490	0.00200	"	0.0500		98.0	70-130			
Benzene	0.0449	0.00200	"	0.0500		89.8	70-130			
Ethylbenzene	0.0488	0.00200	"	0.0500		97.6	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			
Toluene	0.0467	0.00200	"	0.0500		93.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	70-130			

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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 B1G1604 - EPA 5030 (soil)

Matrix Spike (B1G1604-MS1)	Source: Y107316-08			Prepared: 07/16/2021 Analyzed: 07/16/2021						
1,2,4-Trimethylbenzene	0.0892	0.00200	mg/kg	0.100	ND	89.2	70-130			
Naphthalene	0.0868	0.0100	"	0.100	ND	86.8	70-130			
1,3,5-Trimethylbenzene	0.0882	0.00200	"	0.100	ND	88.2	70-130			
Benzene	0.0856	0.00200	"	0.100	ND	85.6	70-130			
Ethylbenzene	0.0886	0.00200	"	0.100	ND	88.6	70-130			
m,p-Xylene	0.187	0.00400	"	0.200	ND	93.7	70-130			
o-Xylene	0.0967	0.00200	"	0.100	ND	96.7	70-130			
Toluene	0.0855	0.00200	"	0.100	ND	85.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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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 B1G1604 - EPA 5030 (soil)

Matrix Spike Dup (B1G1604-MSD1)	Source: Y107316-08			Prepared: 07/16/2021 Analyzed: 07/16/2021						
1,2,4-Trimethylbenzene	0.0789	0.00200	mg/kg	0.100	ND	78.9	70-130	12.3	20	
Naphthalene	0.0834	0.0100	"	0.100	ND	83.4	70-130	4.02	20	
1,3,5-Trimethylbenzene	0.0783	0.00200	"	0.100	ND	78.3	70-130	12.0	20	
Benzene	0.0774	0.00200	"	0.100	ND	77.4	70-130	10.1	20	
Ethylbenzene	0.0803	0.00200	"	0.100	ND	80.3	70-130	9.82	20	
m,p-Xylene	0.170	0.00400	"	0.200	ND	84.9	70-130	9.80	20	
o-Xylene	0.0877	0.00200	"	0.100	ND	87.7	70-130	9.72	20	
Toluene	0.0770	0.00200	"	0.100	ND	77.0	70-130	10.6	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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 Project: GWOC - Champlin 67, Amoco C1

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 B1G1605 - EPA 3550B										
Blank (B1G1605-BLK1)										
					Prepared: 07/16/2021 Analyzed: 07/16/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	25.0		87.3	50-150			

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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 B1G1605 - EPA 3550B

LCS (B1G1605-BS1)

Prepared: 07/16/2021 Analyzed: 07/16/2021

Diesel (C10-C28)	939	50.0	mg/kg	1000		93.9	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	43		"	50.0		86.3	50-150			

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 Project: GWOC - Champlin 67, Amoco C1

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 B1G1605 - EPA 3550B

Matrix Spike (B1G1605-MS1)	Source: Y107316-08			Prepared: 07/16/2021 Analyzed: 07/16/2021						
Diesel (C10-C28)	882	50.0	mg/kg	1000	ND	88.2	70-130			
Residual Range Organics (C28-C40)	970	200	"	1000	ND	97.0	70-130			
Surrogate: o-Terphenyl	47		"	50.0		94.9	50-150			

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 Project: GWOC - Champlin 67, Amoco C1

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 B1G1605 - EPA 3550B

Matrix Spike Dup (B1G1605-MSD1)	Source: Y107316-08			Prepared: 07/16/2021 Analyzed: 07/16/2021						
Diesel (C10-C28)	897	50.0	mg/kg	1000	ND	89.7	70-130	1.68	35	
Residual Range Organics (C28-C40)	986	200	"	1000	ND	98.6	70-130	1.63	35	
Surrogate: o-Terphenyl	49		"	50.0		98.4	50-150			

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PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L564417 - 3550B

MSD (L 94670-MSD-L564417)		Source: 94670			Prepared: 07/19/2021 Analyzed: 07/19/2021					
Benzo(b)fluoranthene	0.0917	0.000138	mg/Kg	0.165	<0.000138	55.5	30-130	13.5	30	
Naphthalene	0.0926	0.000467	"	0.165	<0.000467	56.1	30-130	18.9	30	
Indeno(1,2,3-cd)pyrene	0.0952	0.000344	"	0.165	<0.000344	57.6	30-130	13.5	30	
Fluorene	0.101	0.000501	"	0.165	<0.000501	61.2	30-130	18	30	
Fluoranthene	0.105	0.000529	"	0.165	<0.000529	63.6	30-130	11.6	30	
Dibenz(a,h)anthracene	0.0995	0.000279	"	0.165	<0.000279	60.3	30-130	11.8	30	
Chrysene	0.0979	0.000256	"	0.165	<0.000256	59.3	30-130	10.7	30	
Benzo(a)pyrene	0.107	0.000133	"	0.165	<0.000133	64.8	30-130	13.1	30	
Anthracene	0.1	0.000426	"	0.165	<0.000426	60.6	30-130	15.6	30	
Acenaphthene	0.0933	0.000431	"	0.165	<0.000431	56.5	30-130	18.2	30	
2-Methylnaphthalene	0.0971	0.000542	"	0.165	<0.000542	58.8	30-130	17.7	30	
1-Methylnaphthalene	0.0987	0.00048	"	0.165	<0.000480	59.8	30-130	17.8	30	
Benzo(k)fluoranthene	0.079	0.000486	"	0.165	<0.000486	47.8	30-130	1.1	30	
Pyrene	0.104	0.000387	"	0.165	<0.000387	63	30-130	10.9	30	
Benzo(a)anthracene	0.0997	0.000441	"	0.165	<0.000441	60.4	30-130	22.5	30	
Surrogate: 4-Terphenyl-d14	63.3		"	0.33	190	63.3	33-122			
Surrogate: 2-Fluorobiphenyl	60		"	0.33	173	60	33-115			
Surrogate: Nitrobenzene-d5	53.9		"	0.33	157	53.9	29-110			

MS (L 94670-MS-L564417)		Source: 94670			Prepared: 07/19/2021 Analyzed: 07/19/2021					
Chrysene	0.109	0.000256	mg/Kg	0.165	<0.000256	66	30-130			
Indeno(1,2,3-cd)pyrene	0.109	0.000344	"	0.165	<0.000344	66	30-130			
Fluorene	0.121	0.000501	"	0.165	<0.000501	73.3	30-130			
Dibenz(a,h)anthracene	0.112	0.000279	"	0.165	<0.000279	67.8	30-130			
Naphthalene	0.112	0.000467	"	0.165	<0.000467	67.8	30-130			
Benzo(k)fluoranthene	0.0799	0.000486	"	0.165	<0.000486	48.4	30-130			
Benzo(b)fluoranthene	0.105	0.000138	"	0.165	<0.000138	63.6	30-130			

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Paul Henehan
 Project Number: C021-046
 Project: GWOC - Champlin 67, Amoco C1

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L564417 - 3550B

MS (L 94670-MS-L564417)		Source: 94670			Prepared: 07/19/2021 Analyzed: 07/19/2021					
Benzo(a)pyrene	0.122	0.000133	mg/Kg	0.165	<0.000133	73.9	30-130			
Benzo(a)anthracene	0.125	0.000441	"	0.165	<0.000441	75.7	30-130			
Anthracene	0.117	0.000426	"	0.165	<0.000426	70.9	30-130			
Acenaphthene	0.112	0.000431	"	0.165	<0.000431	67.8	30-130			
2-Methylnaphthalene	0.116	0.000542	"	0.165	<0.000542	70.3	30-130			
Pyrene	0.116	0.000387	"	0.165	<0.000387	70.3	30-130			
Fluoranthene	0.118	0.000529	"	0.165	<0.000529	71.5	30-130			
1-Methylnaphthalene	0.118	0.00048	"	0.165	<0.000480	71.5	30-130			
Surrogate: Nitrobenzene-d5	66.6		"	0.33	157	66.6	29-110			
Surrogate: 2-Fluorobiphenyl	77.2		"	0.33	173	77.2	33-115			
Surrogate: 4-Terphenyl-d14	73		"	0.33	190	73	33-122			

LCS (LCS-L564417)					Prepared: 07/19/2021 Analyzed: 07/19/2021					
Benzo(a)pyrene	0.105	0.000133	mg/Kg	0.167		62.8	30-130			
Anthracene	0.0993	0.000426	"	0.167		59.4	30-130			
Acenaphthene	0.0899	0.000431	"	0.167		53.8	30-130			
2-Methylnaphthalene	0.0917	0.000542	"	0.167		54.9	30-130			
1-Methylnaphthalene	0.0923	0.00048	"	0.167		55.2	30-130			
Benzo(k)fluoranthene	0.0859	0.000486	"	0.167		51.4	30-130			
Chrysene	0.103	0.000256	"	0.167		61.6	30-130			
Dibenz(a,h)anthracene	0.118	0.000279	"	0.167		70.6	30-130			
Fluoranthene	0.0985	0.000529	"	0.167		58.9	30-130			
Fluorene	0.0937	0.000501	"	0.167		56.1	30-130			
Indeno(1,2,3-cd)pyrene	0.114	0.000344	"	0.167		68.2	30-130			
Benzo(a)anthracene	0.101	0.000441	"	0.167		60.4	30-130			
Pyrene	0.0974	0.000387	"	0.167		58.3	30-130			
Naphthalene	0.0868	0.000467	"	0.167		51.9	30-130			

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PAH by 8270D SIM - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L564417 - 3550B

LCS (LCS-L564417)

Prepared: 07/19/2021 Analyzed: 07/19/2021

Benzo(b)fluoranthene	0.0969	0.000138	mg/Kg	0.167		58	30-130			
Surrogate: 4-Terphenyl-d14	60.6		"	0.333		60.6	33-122			
Surrogate: 2-Fluorobiphenyl	63		"	0.333		63	33-115			
Surrogate: Nitrobenzene-d5	56.1		"	0.333		56.1	29-110			

LRB (LRB-L564417)

Prepared: 07/19/2021 Analyzed: 07/19/2021

Benzo(b)fluoranthene	ND	0.00067	mg/Kg				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	60.6		"	0.333		60.6	33-122			
Surrogate: Nitrobenzene-d5	60.3		"	0.333		60.3	29-110			
Surrogate: 2-Fluorobiphenyl	63.6		"	0.333		63.6	33-115			

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Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L564442 - 3050B

MSD (L 90391-MSD-L564442)		Source: Y107342-05			Prepared: 07/19/2021 Analyzed: 07/20/2021					
Arsenic	2.94	0.0855	mg/Kg	2.48	1.39	63	75-125	17.7	80	I*
Zinc	52	0.534	"	24.8	29.9	89	75-125	1.9	80	
Silver	0.464	0.0067	"	0.496	0.0209	94	75-125	6.6	80	
Selenium	3.72	0.103	"	4.96	0.234	75	75-125	17.2	80	
Nickel	8.85	0.0633	"	2.48	6.72	86	75-125	1.7	80	
Lead	8.98	0.031	"	2.48	7.93	42	75-125	2.2	80	*
Copper	8.25	0.0806	"	2.48	6.65	65	75-125	10	80	*
Cadmium	0.591	0.0259	"	0.496	0.199	119	75-125	0.3	80	
Barium	81.3	0.042	"	4.96	86.7	NR	75-125	6.4	80	*

MS (L 90391-MS-L564442)		Source: Y107342-05			Prepared: 07/19/2021 Analyzed: 07/20/2021					
Selenium	3.13	0.103	mg/Kg	4.75	0.234	66	75-125			*
Silver	0.434	0.0067	"	0.475	0.0209	91	75-125			
Nickel	8.7	0.0633	"	2.38	6.72	83	75-125			
Lead	9.18	0.031	"	2.38	7.93	53	75-125			*
Copper	9.12	0.0806	"	2.38	6.65	104	75-125			
Cadmium	0.589	0.0259	"	0.475	0.199	124	75-125			
Barium	86.7	0.042	"	4.75	86.7	0	75-125			*
Arsenic	2.46	0.0855	"	2.38	1.39	45	75-125			I*
Zinc	51	0.534	"	23.8	29.9	89	75-125			

LCS (LCS-L564442)		Prepared: 07/19/2021 Analyzed: 07/20/2021								
Selenium	4.92	0.103	mg/Kg	5		98	80-120			
Silver	0.478	0.0067	"	0.5		96	80-120			
Nickel	2.23	0.0633	"	2.5		89	80-120			
Lead	2.37	0.031	"	2.5		95	80-120			
Copper	2.24	0.0806	"	2.5		90	80-120			

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Paul Henehan
 Project Number: C021-046
 Project: GWOC - Champlin 67, Amoco C1

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L564442 - 3050B

LCS (LCS-L564442)

Prepared: 07/19/2021 Analyzed: 07/20/2021

Cadmium	0.476	0.0259	mg/Kg	0.5		95	80-120			
Barium	4.91	0.042	"	5		98	80-120			
Arsenic	2.5	0.0855	"	2.5		100	80-120			
Zinc	22.6	0.534	"	25		90	80-120			

LRB (LRB-L564442)

Prepared: 07/19/2021 Analyzed: 07/20/2021

Zinc	ND	2.5	mg/Kg				-			
Lead	ND	0.25	"				-			
Copper	0.0845	0.25	"				-			J
Cadmium	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			

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.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-046
 Project: GWOC - Champlin 67, Amoco C1

Total Metals by 7196A - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L565035 -										
DUP (L 89811-DUP)		Source: 89811			Prepared: Analyzed: 07/22/2021					
Chromium, Hexavalent	ND	0.252	mg/Kg		<0.518		-	0	20	
MS (L 89811-MS)		Source: 89811			Prepared: Analyzed: 07/22/2021					
Chromium, Hexavalent	3.52	0.244	mg/Kg	7.91	<0.244	45	75-125			*
LCS (LCS)		Prepared: Analyzed: 07/22/2021								
Chromium, Hexavalent	6.86	0.244	mg/Kg	8		86	75-125			
LRB (LRB)		Prepared: Analyzed: 07/22/2021								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Fremont Environmental
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Wellington CO 80549

Paul Henehan
Project Number: C021-046
Project: GWOC - Champlin 67, Amoco C1

Notes and Definitions

- U Sample is Non-Detect.
- J Estimated Value. Analyte below reported quantitation limit.
- I* [Undefined]
- * QC Failure
- 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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