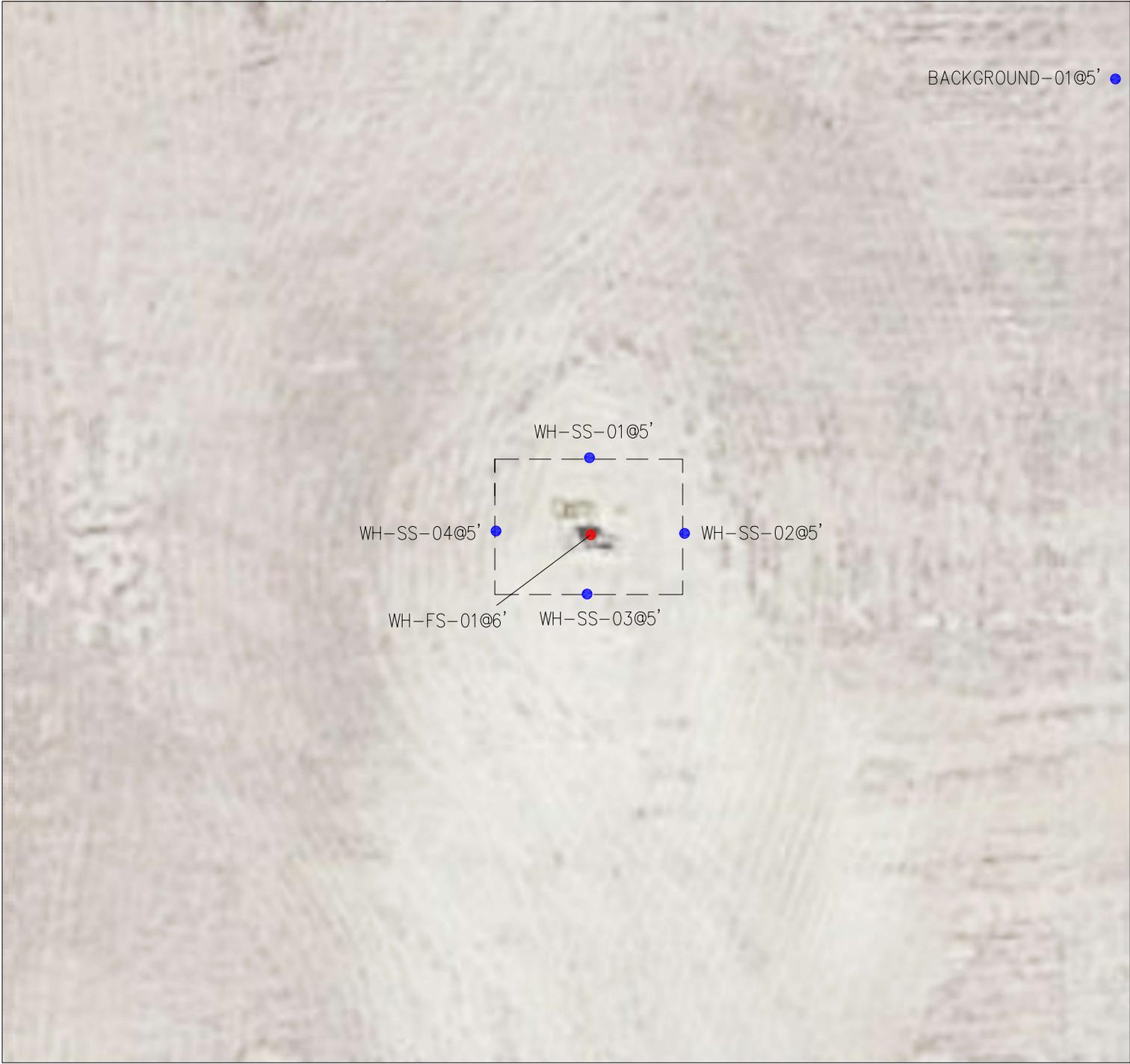




## **FIGURES**

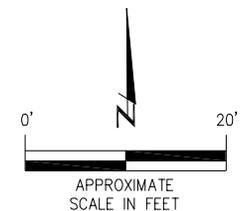
### **Figure 1: Soil Sample Location Map**



LEGEND

- LABORATORY ANALYZED SOIL SAMPLE LOCATION
- FIELD SCREENING SOIL SAMPLE LOCATION
- ⌋ EXCAVATION EXTENT

SAMPLE KEY	
EQUIPMENT TYPE	ACRONYM
WELLHEAD	WH



SOIL SAMPLE LOCATION MAP  
 STORAGE UNIT 8  
 40.125940/-104.086840  
 SE 1/4 NW 1/4 SEC.22 T2N R60W 6PM  
 MORGAN COUNTY, COLORADO  
 REMEDIATION PROJECT #19182

DATE:	12/16/21
FIG. NO.	1
DRAWN BY:	RTG



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, INC.  
 8000 W 44th Ave, Wheat Ridge, CO 80033  
 Ph: 303-433-0479 F: 303-525-5449



## **TABLES**

**Table 1: Soil Analytical Results Summary**

**Table 2: Polycyclic Aromatic Hydrocarbons Soil Analytical Results Summary**

**Table 3: Soil Suitability Soil Analytical Results Summary**

**Table 4: Field Data Summary Table**

**TABLE 1**  
**SOIL ANALYTICAL RESULTS SUMMARY**  
**STORAGE UNIT 8**  
**40.125940 / -104.086840**  
**SE1/4 NW1/4 SEC.22 T2N R60W 6PM**  
**MORGAN COUNTY, COLORADO**  
**REMEDIAION # 19182**

Sample Location (Latitude/Longitude)	Date Sampled	PID Reading (ppm-v)	Approximate Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4- TMB(mg/kg)	1,3,5-TMB (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-RRO (mg/kg)
<b>COGCC Table 915-1 Residential Screening Levels</b>				<b>1.20</b>	<b>490</b>	<b>5.8</b>	<b>58</b>	<b>30</b>	<b>27</b>	<b>500</b>		
WH-FS-01@6' (40.125954 -104.086861)	9/9/2021	0.1	6	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100

COGCC = Colorado Oil and Gas Conservation Commission

Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.

Note: Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Screening Levels.

bgs = below ground surface

mg/kg = milligrams per kilogram

TVPH-GRO = Total Volatile Petroleum Hydrocarbons - Gasoline Range Organics

TEPH-DRO = Total Extractable Petroleum Hydrocarbons - Diesel Range Organics

TEPH-RRO = Total Extractable Petroleum Hydrocarbons - Residual Range Organics

TMB = Trimethylbenzene



TABLE 2  
POLYCYCLIC AROMATIC HYDROCARBONS ANALYTICAL RESULTS SYMMARY  
STORAGE UNIT 8  
40.125940 / -104.086840  
SE1/4 NW1/4 SEC.22 T2N R60W 6PM  
MORGAN COUNTY, COLORADO  
REMEDATION # 19182

Sample Location (Latitude/Longitude)	Date	PID Reading (ppm-v)	Approximate Depth (feet)	1-Methyl- naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)- anthracene (mg/kg)	Benzo(a)- pyrene (mg/kg)	Benzo(b)- fluoranthene (mg/kg)	Benzo(k)- fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)- anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Ideno(1,2,3- cd)-pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
<b>COGCC Table 915-1 Residential Screening Levels</b>				<b>18</b>	<b>24</b>	<b>360</b>	<b>1,800</b>	<b>1.1</b>	<b>0.11</b>	<b>1.1</b>	<b>11</b>	<b>110</b>	<b>0.11</b>	<b>240</b>	<b>240</b>	<b>1.1</b>	<b>2</b>	<b>180</b>
WH-FS-01@6' (40.125954 -104.086861)	9/9/2021	0.1	6.0	<0.00067	<0.00067	<0.00067	0.000585	0.000585	0.001970	0.00221	0.000890	0.00208	0.00057	0.00521	<0.00067	0.001490	<0.00067	0.00364

COGCC = Colorado Oil and Gas Conservation Commission

mg/kg = milligrams per kilogram

Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.

Note: Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Regulatory Limits

NA = Not Analyzed

**TABLE 3**  
**SOIL SUITABILITY SOIL ANALYTICAL RESULTS SUMMARY**  
**STORAGE UNIT 8**  
**40.125940 / -104.086840**  
**SE1/4 NW1/4 SEC.22 T2N R60W 6PM**  
**MORGAN COUNTY, COLORADO**  
**REMEDATION # 19182**

Sample Location (Latitude/Longitude)	Date Sampled	PID Reading (ppm-v)	Approximate Depth (feet bgs)	pH (units)	EC (mmhos/cm)	SAR (units)	Boron (mg/L)
<b>COGCC Table 915-1 Soil Suitability for Reclamation Standards</b>				<b>6-8.3</b>	<b>&lt;4</b>	<b>&lt;6</b>	<b>2</b>
WH-FS-01@6' (40.125954 -104.086861)	9/9/2021	0.1	6	<b>8.86</b>	0.283	0.274	<0.198
Background-01@5' (40.126085 -104.086590)	9/9/2021	0.1	5	8.22	NA	NA	NA

COGCC = Colorado Oil and Gas Conservation Commission

Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.

Note: Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Regulatory Limits.

EC = Electrical conductivity

SAR = Sodium adsorption ratio

mmhos/cm = millimhos per centimeter

mg/L = milligrams per liter

bgs = below ground surface

NA = not analyzed



**TABLE 4**  
**FIELD DATA SUMMARY TABLE**  
**STORAGE UNIT 8**  
**40.125940 / -104.086840**  
**SE1/4 NW1/4 SEC.22 T2N R60W 6PM**  
**MORGAN COUNTY, COLORADO**  
**REMEDATION # 19182**

Sample ID	Date Sampled	Depth (feet bgs)	GPS Data		VOC Concentration (ppm-v)
			Latitude	Longitude	
WH-SS-01 @5'	9/9/2021	5	40.125973	-104.086862	0.1
WH-SS-02 @5'	9/9/2021	5	40.125952	-104.086845	0.2
WH-SS-03 @5'	9/9/2021	5	40.125940	-104.086863	0.1
WH-SS-04 @5'	9/9/2021	5	40.125952	-104.086886	0.1
WH-FS-01 @6'	9/9/2021	6	40.125952	-104.086864	0.1
Background-01 @5'	9/9/2021	5	40.126091	-104.086615	0.1

GPS = Global positioning system (provided in decimal degrees utilizing World Geodetic System (WGS) 84 UTM Zone 13 North)

VOC = Volatile organic compound

ppm-v = parts per million by volume

bgs = below ground surface



## **ATTACHMENT A**

### **Laboratory Analytical Reports**



September 21, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Storage Unit 8**

**Project Number - [none]**

Attached are your analytical results for Storage Unit 8 received by Origins Laboratory, Inc. September 09, 2021. This project is associated with Origins project number Y109191-01.

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

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Storage Unit 8

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y109191-01	Soil	September 9, 2021 11:24	09/09/2021 15:53

PAH added per the phone call from Daniel on 09/16/21. 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.*



Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Storage Unit 8

Origins Laboratory

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

Origins Work Order: Y109191

Sample Receipt Checklist

Client: Eagle  
 Client Project ID: Storage Unit 8  
 Shipped Via: HD  
 Airbill #: 1712  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Checklist Completed by: jm  
 Date/time completed: 9-10-21

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1, 4 °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 ≤ 5°C <sup>(1)</sup> ?	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 <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		X		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	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 <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			X	
Additional Comments (if any):				

<sup>(1)</sup>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) \_\_\_\_\_

9/13/21  
 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.

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Storage Unit 8

**WH-FS-01@6'**  
**9/9/2021 11:24:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y109191-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.198	mg/L	1	B111302	KAP	09/13/2021	09/13/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B111008	kdk	09/10/2021	09/11/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	kdk	"	"	U

Surrogate: o-Terphenyl	71.4 %	50-150				"	"	"	
------------------------	--------	--------	--	--	--	---	---	---	--

**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B111007	KDK	"	09/14/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.3 %	70-130				"	"	"	
Surrogate: Toluene-d8	91.8 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130				"	"	"	

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Storage Unit 8

**WH-FS-01@6'**  
**9/9/2021 11:24:00AM**

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

**Origins Laboratory, Inc.**  
**Y109191-01 (Soil)**

**Metals by Saturated Paste**

Calcium	1.40	0.499	meq/L	10	[CALC]	KAP	09/14/2021	09/15/2021	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	ND	0.435	"	"	"	KAP	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L574997		09/20/2021	09/20/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	0.000585	0.00067	"	"	"		"	"	
Benzo(a)anthracene	0.00209	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.00197	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	0.00221	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	0.00089	0.00067	"	"	"		"	"	
Chrysene	0.00208	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	0.000571	0.00067	"	"	"		"	"	
Fluoranthene	0.00521	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	0.00149	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	0.00364	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl 65.9 % 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.

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Storage Unit 8

**WH-FS-01@6'**

**9/9/2021 11:24:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y109191-01 (Soil)**

**PAH by 8270D SIM**

Surrogate: 4-Terphenyl-d14	91.5 %	33-122			L5749 97		09/20/2021	09/20/2021	
Surrogate: Nitrobenzene-d5	58.5 %	29-110			"	"	"	"	

**pH in Soil by 9045D**

pH	8.86		pH Units	1	B111401	JSM	09/14/2021	09/14/2021	
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**SAR by 20B Saturated Paste**

SAR	0.274		SAR	1	B111411	KAP	09/14/2021	09/15/2021	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.283	0.00500	mmhos/cm	1	B111406	JSM	09/14/2021	09/14/2021	
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Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Storage Unit 8

**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 B111007 - EPA 5030 (soil)**

**Blank (B111007-BLK1)**

Prepared: 09/10/2021 Analyzed: 09/14/2021

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	0.11		"	0.125	88.4		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	92.0		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Storage Unit 8

**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 B111007 - EPA 5030 (soil)**

**LCS (B111007-BS1)**

Prepared: 09/10/2021 Analyzed: 09/14/2021

1,2,4-Trimethylbenzene	0.0440	0.00200	mg/kg	0.0500		88.0	70-130			
Naphthalene	0.0457	0.0100	"	0.0500		91.5	70-130			
1,3,5-Trimethylbenzene	0.0440	0.00200	"	0.0500		88.0	70-130			
Benzene	0.0516	0.00200	"	0.0500		103	70-130			
Ethylbenzene	0.0484	0.00200	"	0.0500		96.7	70-130			
m,p-Xylene	0.0954	0.00400	"	0.100		95.4	70-130			
o-Xylene	0.0476	0.00200	"	0.0500		95.2	70-130			
Toluene	0.0435	0.00200	"	0.0500		86.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	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.*

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Storage Unit 8

**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 B111007 - EPA 5030 (soil)

Matrix Spike (B111007-MS1)	Source: Y109190-01			Prepared: 09/10/2021 Analyzed: 09/14/2021						
1,2,4-Trimethylbenzene	0.0550	0.00200	mg/kg	0.0500	0.00208	106	70-130			
Naphthalene	0.0659	0.0100	"	0.0500	0.00254	127	70-130			
1,3,5-Trimethylbenzene	0.0430	0.00200	"	0.0500	0.000580	84.8	70-130			
Benzene	0.0628	0.00200	"	0.0500	ND	126	70-130			
Ethylbenzene	0.0463	0.00200	"	0.0500	ND	92.6	70-130			
m,p-Xylene	0.0937	0.00400	"	0.100	ND	93.7	70-130			
o-Xylene	0.0466	0.00200	"	0.0500	ND	93.2	70-130			
Toluene	0.0490	0.00200	"	0.0500	ND	97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.5	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Storage Unit 8

**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 B111007 - EPA 5030 (soil)**

Matrix Spike Dup (B111007-MSD1)	Source: Y109190-01			Prepared: 09/10/2021 Analyzed: 09/14/2021						
1,2,4-Trimethylbenzene	0.0548	0.00200	mg/kg	0.0500	0.00208	105	70-130	0.255	20	
Naphthalene	0.0534	0.0100	"	0.0500	0.00254	102	70-130	21.1	20	QR-03
1,3,5-Trimethylbenzene	0.0512	0.00200	"	0.0500	0.000580	101	70-130	17.5	20	
Benzene	0.0760	0.00200	"	0.0500	ND	152	70-130	19.0	20	QM-07
Ethylbenzene	0.0571	0.00200	"	0.0500	ND	114	70-130	20.8	20	QR-03
m,p-Xylene	0.114	0.00400	"	0.100	ND	114	70-130	19.8	20	
o-Xylene	0.0580	0.00200	"	0.0500	ND	116	70-130	21.8	20	QR-03
Toluene	0.0596	0.00200	"	0.0500	ND	119	70-130	19.6	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.6	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.5	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.*

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Storage Unit 8

**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
<b>Batch B111008 - EPA 3550B</b>										
<b>Blank (B111008-BLK1)</b>										
					Prepared: 09/10/2021 Analyzed: 09/11/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	25.0		76.4	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.*

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Storage Unit 8

**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 B111008 - EPA 3550B**

**LCS (B111008-BS1)**

Prepared: 09/10/2021 Analyzed: 09/11/2021

Diesel (C10-C28)	773	50.0	mg/kg	1000		77.3	70-130			
Residual Range Organics (C28-C40)	810	200	"	1000		81.0	70-130			
Surrogate: o-Terphenyl	40		"	50.0		80.6	50-150			

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Storage Unit 8

**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 B111008 - EPA 3550B**

<b>Matrix Spike (B111008-MS1)</b>	<b>Source: Y109190-01</b>			Prepared: 09/10/2021 Analyzed: 09/11/2021						
Diesel (C10-C28)	792	50.0	mg/kg	1000	ND	79.2	70-130			
Residual Range Organics (C28-C40)	829	200	"	1000	ND	82.9	70-130			
Surrogate: o-Terphenyl	40		"	50.0		79.6	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Storage Unit 8

**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 B111008 - EPA 3550B**

<b>Matrix Spike Dup (B111008-MSD1)</b>	<b>Source: Y109190-01</b>			<b>Prepared: 09/10/2021 Analyzed: 09/11/2021</b>						
Diesel (C10-C28)	752	50.0	mg/kg	1000	ND	75.2	70-130	5.21	35	
Residual Range Organics (C28-C40)	802	200	"	1000	ND	80.2	70-130	3.36	35	
Surrogate: o-Terphenyl	40		"	50.0		80.9	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Storage Unit 8

**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 L574997 - 3550B

MSD (L 89147-MSD-L574997)		Source: 89147			Prepared: 09/20/2021 Analyzed: 09/20/2021					
Chrysene	0.138	0.00027	mg/Kg	0.164	0.000937	83.5	30-130	50.1	30	
1-Methylnaphthalene	0.117	0.00033	"	0.164	0.00103	70.7	30-130	44.7	30	
2-Methylnaphthalene	0.117	0.00039	"	0.164	0.00136	70.5	30-130	44.2	30	
Acenaphthene	0.116	0.0003	"	0.164	<0.000300	70.7	30-130	47	30	
Anthracene	0.142	0.00033	"	0.164	<0.000330	86.5	30-130	48.3	30	
Benzo(a)anthracene	0.17	0.00041	"	0.164	0.000534	104	30-130	53	30	
Pyrene	0.146	0.00059	"	0.164	0.000652	89	30-130	50.9	30	
Benzo(b)fluoranthene	0.155	0.00021	"	0.164	0.00101	93.8	30-130	46.5	30	
Naphthalene	0.111	0.000467	"	0.164	0.000478	67.6	30-130	42	30	
Indeno(1,2,3-cd)pyrene	0.16	0.00029	"	0.164	0.00101	96.9	30-130	49.3	30	
Fluorene	0.131	0.00029	"	0.164	0.000372	79.8	30-130	50.3	30	
Fluoranthene	0.155	0.00039	"	0.164	0.000494	94.5	30-130	48.9	30	
Dibenz(a,h)anthracene	0.158	0.00036	"	0.164	0.00125	95.5	30-130	48.3	30	
Benzo(k)fluoranthene	0.12	0.00013	"	0.164	0.00066	73.1	30-130	41	30	
Benzo(a)pyrene	0.173	0.00014	"	0.164	0.00059	105	30-130	54.3	30	
Surrogate: 2-Fluorobiphenyl	90.2		"	0.329	333	90.2	33-115			
Surrogate: 4-Terphenyl-d14	111		"	0.329	362	111	33-122			
Surrogate: Nitrobenzene-d5	65.6		"	0.329	263	65.6	29-110			

MS (L 89147-MS-L574997)		Source: 89147			Prepared: 09/20/2021 Analyzed: 09/20/2021					
Benzo(b)fluoranthene	0.0965	0.00021	mg/Kg	0.166	0.00101	57.5	30-130			
Dibenz(a,h)anthracene	0.0965	0.00036	"	0.166	0.00125	57.3	30-130			
Pyrene	0.0867	0.00059	"	0.166	0.000652	52.2	30-130			
Naphthalene	0.0724	0.000467	"	0.166	0.000478	43.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0967	0.00029	"	0.166	0.00101	57.6	30-130			
Fluorene	0.0783	0.00029	"	0.166	0.000372	47.1	30-130			
Fluoranthene	0.094	0.00039	"	0.166	0.000494	56.6	30-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Storage Unit 8

**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 L574997 - 3550B**

<b>MS (L 89147-MS-L574997)</b>		<b>Source: 89147</b>			Prepared: 09/20/2021 Analyzed: 09/20/2021					
2-Methylnaphthalene	0.0746	0.00039	mg/Kg	0.166	0.00136	44.1	30-130			
Benzo(a)pyrene	0.0991	0.00014	"	0.166	0.00059	59.6	30-130			
Benzo(a)anthracene	0.0987	0.00041	"	0.166	0.000534	59.4	30-130			
Anthracene	0.0867	0.00033	"	0.166	<0.000330	52.2	30-130			
Acenaphthene	0.0718	0.0003	"	0.166	<0.000300	43.2	30-130			
Benzo(k)fluoranthene	0.0791	0.00013	"	0.166	0.00066	47.6	30-130			
1-Methylnaphthalene	0.0742	0.00033	"	0.166	0.00103	44	30-130			
Chrysene	0.0827	0.00027	"	0.166	0.000937	49.2	30-130			
Surrogate: Nitrobenzene-d5	50.1		"	0.331	263	50.1	29-110			
Surrogate: 4-Terphenyl-d14	72.8		"	0.331	362	72.8	33-122			
Surrogate: 2-Fluorobiphenyl	58.6		"	0.331	333	58.6	33-115			

<b>LCS (LCS-L574997)</b>					Prepared: 09/20/2021 Analyzed: 09/20/2021					
Dibenz(a,h)anthracene	0.171	0.00036	mg/Kg	0.167		102	30-130			
Fluoranthene	0.161	0.00039	"	0.167		96.4	30-130			
Fluorene	0.15	0.00029	"	0.167		89.8	30-130			
Indeno(1,2,3-cd)pyrene	0.169	0.00029	"	0.167		101	30-130			
Naphthalene	0.14	0.000467	"	0.167		83.8	30-130			
Pyrene	0.149	0.00059	"	0.167		89.2	30-130			
Acenaphthene	0.137	0.0003	"	0.167		82	30-130			
Chrysene	0.151	0.00027	"	0.167		90.4	30-130			
Benzo(b)fluoranthene	0.161	0.00021	"	0.167		96.4	30-130			
Benzo(a)pyrene	0.184	0.00014	"	0.167		110	30-130			
Anthracene	0.15	0.00033	"	0.167		89.8	30-130			
2-Methylnaphthalene	0.143	0.00039	"	0.167		85.6	30-130			
1-Methylnaphthalene	0.142	0.00033	"	0.167		85	30-130			
Benzo(a)anthracene	0.177	0.00041	"	0.167		106	30-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Storage Unit 8

**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
<b>Batch L574997 - 3550B</b>										
<b>LCS (LCS-L574997)</b>										
					Prepared: 09/20/2021 Analyzed: 09/20/2021					
Benzo(k)fluoranthene	0.158	0.00013	mg/Kg	0.167		94.6	30-130			
Surrogate: Nitrobenzene-d5	96		"	0.333		96	29-110			
Surrogate: 4-Terphenyl-d14	120		"	0.333		120	33-122			
Surrogate: 2-Fluorobiphenyl	127		"	0.333		127	33-115			*
<b>LRB (LRB-L574997)</b>										
					Prepared: 09/20/2021 Analyzed: 09/20/2021					
Pyrene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	87.6		"	0.333		87.6	29-110			
Surrogate: 4-Terphenyl-d14	113		"	0.333		113	33-122			
Surrogate: 2-Fluorobiphenyl	113		"	0.333		113	33-115			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Storage Unit 8

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**Notes and Definitions**

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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

\* 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.



*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.*



September 29, 2021

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Storage Unit 8**

**Project Number - [none]**

Attached are your analytical results for Storage Unit 8 received by Origins Laboratory, Inc. September 22, 2021. This project is associated with Origins project number Y109483-01.

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

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: Storage Unit 8

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@5'	Y109483-01	Soil	September 9, 2021 18:10	09/22/2021 16:50

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: Storage Unit 8

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: Y109483

Client: Eagle  
 Client Project ID: Storage Unit

Checklist Completed by: JS  
 Date/time completed: 9/23/12

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

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

Cooler Number/Temperature: 1 14.3 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 103

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HT's due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / ( pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>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: DM (Project Manager)

Date/Time Reviewed: 9-23-12

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.

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: Storage Unit 8

**Background-01@5'**

**9/9/2021 6:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y109483-01 (Soil)**

**pH in Soil by 9045D**

pH	8.22		pH Units	1	B112705	AHK	09/27/2021	09/29/2021	
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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.*

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: Storage Unit 8

**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 B112705 - NO PREP

Duplicate (B112705-DUP1)

Source: Y109459-01

Prepared: 09/27/2021 Analyzed: 09/29/2021

pH	8.19		pH Units		8.12			0.858	25	
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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.*

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: Storage Unit 8

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**Notes and Definitions**

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.*



## **ATTACHMENT B**

### **COGCC Closure Checklist**

## Wellhead Closure Checklist

### COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):	Pit Closure	Tank Battery Closure	Flowline Closure	Partially Buried Vault Closure
------------------------------------	-------------	----------------------	------------------	--------------------------------

Site Name & COGCC Facility Number: Storage Unit 8 Date: 9/9/21 Remediation Project #: 19162

Associated Wells: 1 Age of Site: \_\_\_\_\_ Number of Photos Attached: \_\_\_\_\_

Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.125946, -104.986840 Estimated Facility Size (acres): \_\_\_\_\_

General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)  
Good

USCS Soil Type: \_\_\_\_\_ Estimated Depth to Groundwater: >20'

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
None observed

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
None observed

#### Wellhead(s)

Well API	Age	Condition of surface around wellhead	Condition of subsurface	PID Readings	Sample taken? Location/Sample ID#	Photo Number(s)
<u>06207480</u>		<u>Good</u>	<u>Good</u>			
				<u>0.1</u>	<u>WH-SS-0105'</u>	
				<u>0.2</u>	<u>WH-SS-0205'</u>	
				<u>0.1</u>	<u>WH-SS-0305'</u>	
				<u>0.1</u>	<u>WH-SS-0405'</u>	
				<u>0.1</u>	<u>WH-13-0106'</u>	

Other observations regarding wellheads: \_\_\_\_\_

#### Summary

Was impacted soil identified? (No) Yes - less than 10 cubic yards Yes - more than 10 cubic yards

Total number of samples field screened: 5 Total number of samples collected: 5

Highest PID Reading: 0.2 Total number of samples submitted to lab for analysis: 1

If more than 10 cubic yards of impacted soil were observed: \_\_\_\_\_

Vertical extent: \_\_\_\_\_ Estimated spill volume: \_\_\_\_\_

Lateral extent: \_\_\_\_\_ Volume of soil removed: \_\_\_\_\_

Is additional investigation required? \_\_\_\_\_

Was groundwater encountered during the investigation?  
No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils

Measured depth to groundwater: \_\_\_\_\_ Was remedial groundwater removal conducted? Yes No

Date Groundwater was encountered: \_\_\_\_\_ Commencement date of removal: \_\_\_\_\_

Sheen on groundwater? Yes No Volume of groundwater removed prior to sampling: \_\_\_\_\_

Free product observed? Yes No Volume of groundwater removed post sampling: \_\_\_\_\_

Total number of samples collected: \_\_\_\_\_ Total Volume of groundwater removed: \_\_\_\_\_

Total number of samples submitted to lab for analysis: \_\_\_\_\_



## **ATTACHMENT C**

### **Photographic Log**

# Storage Unit 8 Photographic Log Remediation #19182

Wellhead Decommissioning



**EAGLE**  
ENVIRONMENTAL  
CONSULTING, INC.

8000 W 44th Ave, Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449

# Wellhead



Wellhead facing east.  
Wellhead Sample Location  
PID = photoionization detector  
Ppm-v = parts per million by volume