



DOCUMENT  
#2215048

SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

RECEIVED  
7/15/2011

1. OGCC Operator Number: 10310	4. Contact Name: Harold Mayland	Complete the Attachment Checklist OP OGCC
2. Name of Operator: Fram Operating LLC	Phone: 303.550.1098	
3. Address: 30 E Pikes Peak Ave. Ste. 287 City: Colorado Springs State: CO Zip: 80903	Fax: NA	
5. API Number 05-077-09314	OGCC Facility ID Number 334484	Survey Plat
6. Well/Facility Name: Eberly #23-4-M	7. Well/Facility Number: Eberly #23-4-M	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): SENE, Sec. 23, T2S, R2E, U		Surface Eqpm Diagram
9. County: Mesa	10. Field Name: Whitewater	Technical Info Page <input checked="" type="checkbox"/>
11. Federal, Indian or State Lease Number: NA		Other

General Notice

CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)

Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> attach directional survey

Bottomhole location Qtr/Sec, Twp, Rng, Mer \_\_\_\_\_  
 Latitude \_\_\_\_\_ Distance to nearest property line \_\_\_\_\_ Distance to nearest bldg, public rd, utility or RR \_\_\_\_\_  
 Longitude \_\_\_\_\_ Distance to nearest lease line \_\_\_\_\_ Is location in a High Density Area (rule 603b)? Yes/No   
 Ground Elevation \_\_\_\_\_ Distance to nearest well same formation \_\_\_\_\_ Surface owner consultation date: \_\_\_\_\_

GPS DATA:  
 Date of Measurement \_\_\_\_\_ PDOP Reading \_\_\_\_\_ Instrument Operator's Name \_\_\_\_\_

CHANGE SPACING UNIT

Formation	Formation Code	Spacing order number	Unit Acreage	Unit configuration

Remove from surface bond  
 Signed surface use agreement attached

CHANGE OF OPERATOR (prior to drilling):  
 Effective Date: \_\_\_\_\_  
 Plugging Bond:  Blanket  Individual

CHANGE WELL NAME NUMBER  
 From: \_\_\_\_\_  
 To: \_\_\_\_\_  
 Effective Date: \_\_\_\_\_

ABANDONED LOCATION:  
 Was location ever built?  Yes  No  
 Is site ready for inspection?  Yes  No  
 Date Ready for inspection: \_\_\_\_\_

NOTICE OF CONTINUED SHUT IN STATUS  
 Date well shut in or temporarily abandoned: \_\_\_\_\_  
 Has Production Equipment been removed from site?  Yes  No  
 MIT required if shut in longer than two years. Date of last MIT \_\_\_\_\_

SPUD DATE: \_\_\_\_\_

REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)

SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK \*submit cbl and cement job summaries

Method used	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom	Date

RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.  
 Final reclamation will commence on approximately \_\_\_\_\_  Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

Notice of Intent Approximate Start Date: Upon COGCC Approval  Report of Work Done Date Work Completed: \_\_\_\_\_

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input checked="" type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input checked="" type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Other: _____	for Spills and Releases

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Date: 7/15/2011 Email: tdobransky@oaconsulting.com  
 Print Name: Tim Dobransky Title: Project Manager

COGCC Approved: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 10310 API Number: 05-077-09314

2. Name of Operator: Fram Operating LLC OGCC Facility ID # 334484

3. Well/Facility Name: Eberly #23-4-M Well/Facility Number: Eberly #23-4-M

4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SENE, Sec. 23, T2S, R2E, U

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. DESCRIBE PROPOSED OR COMPLETED OPERATIONS

This COGCC Form 4 is being submitted as a request for the following items at the Eberly #23-4-M:

- \*Beneficial reuse of drill cuttings,
- \*Variance of the electrical conductivity (EC) in drill cuttings and,
- \*Use of background arsenic concentrations.

The cuttings were generated by Fram Operating LLC during the Fall of 2010 during closed-loop drilling activities on the Eberly #23-4-M well (API 05-077-09314). It is Fram's intent to use these cuttings as recontouring fill during the interim reclamation process on the Eberly 23-4-M location. No off-site transportation will occur. It is not anticipated that any treatment of the cuttings will be performed, other than mixing with native soil during reclamation activities.

A composite cuttings sample and a grab background sample were collected in August 2010 and analyzed for the Table 910-1 requirements. The results indicated that the cuttings exceeded Table 910-1 standards for Arsenic (1.98 mg/kg) and EC (96 mmhos/cm).

\*Arsenic Concentrations

The arsenic concentration in the background sample was above the concentration found in the cuttings sample. Fram is requesting that the arsenic concentration of the cuttings be considered within allowable background levels.

CS-1 (cuttings sample) - 1.98 mg/kg

BG1 (background) - 4.54 mg/kg

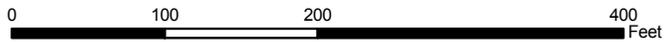
\*Electrical Conductivity

As shown in the analytical results summary, the electrical conductivity of the cuttings exceeds the COGCC Table 910-1 allowable concentration. Fram is requesting a variance to Rule 910 in regard to this individual contaminant for the purpose of the beneficial reuse described above.

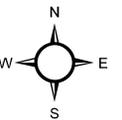
A sample location map, data summary table and laboratory analytical results are attached.



- ★ Eberly 24-3-M
- Sample Location
- Approximate Pad Perimeter



1 inch = 125 feet



PROJECT NO:	010-1958	<b>EBERLY 24-3-M PAD BACKGROUND SAMPLE LOCATION FRAM OPERATING LLC MESA COUNTY, COLORADO</b>		826 21-1/2 ROAD GRAND JUNCTION, CO 81505 TEL 970.263.7800	FIGURE
DRAWN BY:	Brian Swedhin			<b>1</b>	
DATE:	6/29/2011				

**Table 1**  
**Eberly Pad 24-3-M Cuttings Sample**  
**Data Summary**

SAMPLE SUMMARY	
Location Description	Eberly Pad 24-3-M
Sample Type	Soil
Sample Date	8/25/2010

LABORATORY DATA SUMMARY				
Sample ID	BG1	CS-1	ALLOWABLE LIMITS	UNITS
Analytical Parameters				
<b>TPH</b>				
TPH GRO	NT	ND	NA	mg/kg
TPH DRO	NT	ND	NA	mg/kg
Residual Range Organics	NT	ND	NA	mg/kg
Total TPH	NT	ND	500	mg/kg
<b>BTEX</b>				
Benzene	NT	0.00628	0.17	mg/kg
Toluene	NT	ND	85	mg/kg
Ethylbenzene	NT	0.00432	100	mg/kg
m,p-Xylene	NT	0.0100	175	mg/kg
o-Xylene	NT	0.00512	175	mg/kg
<b>Metals</b>				
Chromium, Hexavalent	ND	ND	23	mg/kg
Mercury	0.0161	0.0081	23	mg/kg
Arsenic	4.54	1.98	0.39	mg/kg
Barium	208	205	15,000	mg/kg
Cadmium	0.314	0.342	70	mg/kg
Chromium	13	8	120,000	mg/kg
Copper	13.3	14.6	3,100	mg/kg
Lead	7.91	5.78	400	mg/kg
Nickel	16.4	8.85	1,600	mg/kg
Selenium	1.21	1.13	390	mg/kg
Silver	0.842	ND	390	mg/kg
Zinc	42.6	33.1	23,000	mg/kg
<b>Polynuclear Aromatic Hydrocarbons</b>				
Anthracene	NT	ND	1,000	mg/kg
Acenaphthene	NT	ND	1,000	mg/kg
Benzo(a)anthracene	NT	ND	0.22	mg/kg
Benzo(a)pyrene	NT	ND	0.022	mg/kg
Benzo(b)fluoranthene	NT	ND	0.22	mg/kg
Benzo(k)fluoranthene	NT	ND	2.2	mg/kg
Chrysene	NT	ND	22	mg/kg
Dibenzo(a,h)anthracene	NT	ND	0.022	mg/kg
Fluoranthene	NT	ND	1,000	mg/kg
Fluorene	NT	ND	1,000	mg/kg
Indeno(1,2,3-cd)pyrene	NT	ND	0.22	mg/kg
Napthalene	NT	0.06	23	mg/kg
Pyrene	NT	ND	1,000	mg/kg
<b>General Chemistry</b>				
Percent Moisture	5.59	26.6	NA	%
pH	7.75	8.94	6-9	su
Sodium Adsorption Ratio	0.158	3.13	<12	NA
Specific Conductance	1.86	96	4 or 2x background	mmhos/cm

mg/kg - milligrams per kilogram  
 ND - parameter was not detected  
 NT - parameter was not tested  
 mmhos/cm - millimhos per centimeter  
 su - standard units

10/27/2010

Olsson Associates

Tim Dobransky

826 21 1/2 Road

Grand Junction CO 81505

Project Name- Eberly PAD 24-3-M

Project Number- [none]

Attached are your analytical results for Eberly PAD 24-3-M received by Origins Laboratory, Inc. August 27, 2010 9:06 am. This project is associated with Origins project number X008142-01 .

The analytical results in the following report were analyzed under the guidelines of EPA Methods specified in SW-846. The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody.

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



Olsson Associates  
826 21 1/2 Road  
Grand Junction CO 81505

Tim Dobransky  
Project Number: [none]  
Project: Eberly PAD 24-3-M

**CROSS REFERENCE REPORT**

Sample ID	Laboratory ID	Matrix	Sampled	Date Received
BG-1	X008142-01	Soil	8/25/2010 12:35:00PM	08/27/2010 09:06
CS-1	X008142-02	Soil	8/25/2010 2:10:00PM	08/27/2010 09:06

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.*

\_\_\_\_\_  
Noelle E Doyle.

Olsson Associates  
 826 21 1/2 Road  
 Grand Junction CO 81505

Tim Dobransky  
 Project Number: [none]  
 Project: Eberly PAD 24-3-M

www.originslaboratory.com

X008142 page 1 of 1

ORIGINS  
 LABORATORY, INC

Client: OLSSON ASSOCIATES  
 Address: 826 21 1/2 Rd, GRAND JUNCTION, CO 81505  
 Telephone Number: 970 263-7800 x 2002  
 Email Address: tdobransky@olssonassoc.com

Project Manager: Tim Dobransky  
 Project Name: Eberly PAD 24-3-M  
 Project Number:  
 Samples Collected By: JESS VANN Jambin

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #			Other
BG-1	8-25-10	1235	2	X				X				1	410 list - METALS, PH, SAR, EC
CS-1	8-25-10	1410	5	X				X				2	410 list - SEE ATTACHMENT
												3	
												4	
												5	
												6	
												7	
												8	
												9	
												10	

Reinquisitioned By: JVD/ML Date: 8-26-10 Time: 1100  
 Received By: Fed Ex Date: 8/27/10 Time: 9:06  
 Turnaround Time: Same Day  24 Hr  48 Hr  72 Hr  100%  125%  Standard

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

Origins Laboratory, Inc.

Noelle E Doyle,

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.

Olsson Associates  
 826 21 1/2 Road  
 Grand Junction CO 81505

Tim Dobransky  
 Project Number: [none]  
 Project: Eberly PAD 24-3-M

**BG-1**

8/25/2010 12:35:00PM

Analyte	Result	Minimum Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**XENCO**

X008142-01 (Soil)

**Conductivity by E120.1**

Conductivity	1860	1	2	US/CM	1	821156	08/31/2010	08/31/2010	
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**Metals by SW6010B**

Chromium	13	0.331	0.534	mg/kg	1	821161	08/31/2010	08/31/2010	
Zinc	42.6	1.92	5.34	"	"	"	"	"	
Silver	0.842	0.16	2.14	"	"	"	"	"	I, V
Selenium	1.21	0.619	2.14	"	"	"	"	"	I
Nickel	16.4	0.331	1.07	"	"	"	"	"	
Copper	13.3	0.299	3.2	"	"	"	"	"	
Cadmium	0.314	0.16	0.534	"	"	"	"	"	I
Barium	208	0.31	3.2	"	"	"	"	"	J
Lead	7.91	0.844	1.07	"	"	"	"	"	

**Metals by SW6020**

Arsenic	4.54	0.137	0.424	mg/kg	1	821661	09/01/2010	09/02/2010	
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**Metals by SW7196**

Chromium, Hexavalent	ND	0.007	0.545	mg/kg	1	821445	09/02/2010	09/02/2010	
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**Metals by SW7471A**

Mercury	0.0161	0.004	0.0092	mg/kg	1	821282	08/31/2010	09/01/2010	v
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Origins Laboratory, Inc.



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Noelle E Doyle,

Olsson Associates  
 826 21 1/2 Road  
 Grand Junction CO 81505

Tim Dobransky  
 Project Number: [none]  
 Project: Eberly PAD 24-3-M

**BG-1**

8/25/2010 12:35:00PM

Analyte	Result	Minimum Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**XENCO**

X008142-01 (Soil)

**Percent Moisture by AD2216A**

Percent Moisture	5.59	1	1	%	1	820894	08/30/2010	08/30/2010
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**pH by SW9045C**

pH	7.75			SU	1	820906	08/30/2010	08/30/2010
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**Sodium Absorption Ratio (SAR) by S29B08**

Sodium absorption ratio	0.158				1	821637	09/03/2010	09/03/2010
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Origins Laboratory, Inc.



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\_\_\_\_\_  
 Noelle E Doyle.

Olsson Associates  
 826 21 1/2 Road  
 Grand Junction CO 81505

Tim Dobransky  
 Project Number: [none]  
 Project: Eberly PAD 24-3-M

**CS-1**

8/25/2010 2:10:00PM

Analyte	Result	Minimum Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 X008142-02 (Soil)

**BTEX by EPA 8260B**

Benzene	0.00628	0.00200	0.00400	mg/kg	1	OH27001	08/27/2010	08/27/2010	
Toluene	ND	0.00200	0.00400	"	"	"	"	"	
Ethylbenzene	0.00432	0.00200	0.00400	"	"	"	"	"	
m,p-Xylene	0.0100	0.00400	0.00800	"	"	"	"	"	
o-Xylene	0.00512	0.00200	0.00400	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	109 %		77.6-134			"	"	"	
Surrogate: Toluene-d8	97.6 %		81.4-121			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %		74.7-123			"	"	"	

**Conductivity by E120.1**

Conductivity	96000	1	2	US/CM	1	821156	08/31/2010	08/31/2010	
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**Metals by SW6010B**

Copper	14.6	0.381	4.09	mg/kg	1	821161	08/31/2010	08/31/2010	
Chromium	8	0.422	0.681	"	"	"	"	"	
Cadmium	0.342	0.204	0.681	"	"	"	"	"	I
Barium	205	0.395	4.09	"	"	"	"	"	
Nickel	8.85	0.422	1.36	"	"	"	"	"	
Selenium	1.13	0.79	2.72	"	"	"	"	"	I

Origins Laboratory, Inc.



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Noelle E Doyle,

Olsson Associates  
 826 21 1/2 Road  
 Grand Junction CO 81505

Tim Dobransky  
 Project Number: [none]  
 Project: Eberly PAD 24-3-M

**CS-1**

8/25/2010 2:10:00PM

Analyte	Result	Minimum Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**XENCO**

X008142-02 (Soil)

**Metals by SW6010B**

Silver	ND	0.204	2.72	mg/kg	1	821161	08/31/2010	08/31/2010	
Zinc	33.1	2.45	6.81	"	"	"	"	"	
Lead	5.78	1.08	1.36	"	"	"	"	"	

**Metals by SW6020**

Arsenic	1.98	0.176	0.545	mg/kg	1	821661	09/01/2010	09/02/2010	
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**Metals by SW7196**

Chromium, Hexavalent	ND	0.007	0.545	mg/kg	1	821445	09/02/2010	09/02/2010	
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**Metals by SW7471A**

Mercury	0.0081	0.0052	0.0118	mg/kg	1	821282	08/31/2010	09/01/2010	I, V
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**Percent Moisture by AD2216A**

Percent Moisture	26.6	1	1	%	1	820894	08/30/2010	08/30/2010	
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**pH by SW9045C**

pH	8.94			SU	1	820906	08/30/2010	08/30/2010	
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Olsson Associates  
 826 21 1/2 Road  
 Grand Junction CO 81505

Tim Dobransky  
 Project Number: [none]  
 Project: Eberly PAD 24-3-M

**CS-1**

8/25/2010 2:10:00PM

Analyte	Result	Minimum Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**XENCO**

X008142-02 (Soil)

**Polyaromatic Hydrocarbons (PaHs) by SW8270C**

Dibenz(a,h)Anthracene	ND	0.037	0.09	mg/kg	1	821654	09/02/2010	09/03/2010	
Naphthalene	0.06	0.029	0.136	"	"	"	"	"	1
Indeno(1,2,3-c,d)Pyrene	ND	0.046	0.136	"	"	"	"	"	
Benzo(a)anthracene	ND	0.038	0.136	"	"	"	"	"	
Fluorene	ND	0.031	0.136	"	"	"	"	"	
Pyrene	ND	0.045	0.136	"	"	"	"	"	
Fluoranthene	ND	0.052	0.136	"	"	"	"	"	
Chrysene	ND	0.031	0.136	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.045	0.136	"	"	"	"	"	
Benzo(a)pyrene	ND	0.034	0.09	"	"	"	"	"	
Anthracene	ND	0.048	0.136	"	"	"	"	"	
Acenaphthene	ND	0.03	0.136	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.027	0.136	"	"	"	"	"	

Surrogate: Nitrobenzene-d5	75 %		63-105			"	"	"	
Surrogate: 2-Fluorobiphenyl	89 %		64-104			"	"	"	
Surrogate: Terphenyl-D14	87 %		57-122			"	"	"	

**Sodium Absorption Ratio (SAR) by S29B08**

Sodium absorption ratio	3.13				1	821637	09/03/2010	09/03/2010	
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Origins Laboratory, Inc.



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Noelle E Doyle,

Olsson Associates  
 826 21 1/2 Road  
 Grand Junction CO 81505

Tim Dobransky  
 Project Number: [none]  
 Project: Eberly PAD 24-3-M

**CS-1**

**8/25/2010 2:10:00PM**

Analyte	Result	Minimum Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 X008142-02 (Soil)

**TPH-Carbon Chain by EPA Method 8015M**

Gasoline (C6-C10)	ND	25.0	50.0	mg/kg	1	OH31005	08/31/2010	08/31/2010	
Diesel (C10-C28)	ND	25.0	50.0	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	100	200	"	"	"	"	"	
TPH - Carbon Chain Total	ND	25.0	50.0	"	"	"	"	"	

Surrogate: <i>o</i> -Terphenyl	85.2 %		65-140			"	"	"	
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Origins Laboratory, Inc.



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\_\_\_\_\_  
 Noelle E Doyle.

Olsson Associates  
 826 21 1/2 Road  
 Grand Junction CO 81505

Tim Dobransky  
 Project Number: [none]  
 Project: Eberly PAD 24-3-M

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch OH31005 - Default Prep GC-Semi</b>										
<b>Blank (OH31005-BLK1)</b>				Prepared: 08/31/2010 Analyzed: 08/31/2010						
Gasoline (C6-C10)	ND	50.0	mg/kg							
Diesel (C10-C28)	ND	50.0	"							
Residual Range Organics (C28-C36)	ND	200	"							
TPH - Carbon Chain Total	ND	50.0	"							
<i>Surrogate: o-Terphenyl</i>	<i>37.7</i>		<i>g</i>	<i>50.0</i>		<i>75.5</i>	<i>65-140</i>			
<b>LCS (OH31005-BS1)</b>				Prepared: 08/31/2010 Analyzed: 08/31/2010						
Gasoline (C6-C10)	175	50.0	mg/kg				65-140			
Diesel (C10-C28)	375	50.0	"	500		75.1	60-140			
<i>Surrogate: o-Terphenyl</i>	<i>42.7</i>		<i>g</i>	<i>50.0</i>		<i>85.5</i>	<i>65-140</i>			
<b>Matrix Spike (OH31005-MS1)</b>				Source: X008137-01		Prepared: 08/31/2010 Analyzed: 08/31/2010				
Gasoline (C6-C10)	1070	50.0	mg/kg		831		65-130			
Diesel (C10-C28)	11600	50.0	"	500	9670	378	60-140			QM-07
<i>Surrogate: o-Terphenyl</i>	<i>40.6</i>		<i>g</i>	<i>50.0</i>		<i>81.1</i>	<i>65-140</i>			
<b>Matrix Spike Dup (OH31005-MSD1)</b>				Source: X008137-01		Prepared: 08/31/2010 Analyzed: 08/31/2010				
Gasoline (C6-C10)	1050	50.0	mg/kg		831		65-130	2.70	20	
Diesel (C10-C28)	11200	50.0	"	500	9670	304	60-140	3.25	25	QM-07
<i>Surrogate: o-Terphenyl</i>	<i>38.5</i>		<i>g</i>	<i>50.0</i>		<i>76.9</i>	<i>65-140</i>			

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Tim Dobransky  
 Project Number: [none]  
 Project: Eberly PAD 24-3-M

**Volatile Organic Compounds by EPA Method 8260B - 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 OH27001 - EPA 5030B**

**Blank (OH27001-BLK1)**

Prepared: 08/27/2010 Analyzed: 08/27/2010

Benzene	ND	0.004	mg/kg							
Toluene	ND	0.004	"							
Ethylbenzene	ND	0.004	"							
m,p-Xylene	ND	0.008	"							
o-Xylene	ND	0.004	"							

Surrogate: 1,2-Dichloroethane-d4	68.9		ug/L	62.5		110	77.6-134			
Surrogate: Toluene-d8	61.8		"	62.5		98.8	81.4-121			
Surrogate: 4-Bromofluorobenzene	62.5		"	62.5		100	74.7-123			

**LCS (OH27001-BS1)**

Prepared: 08/27/2010 Analyzed: 08/27/2010

Benzene	0.19	0.004	mg/kg	0.200		92.8	75.2-128			
Toluene	0.19	0.004	"	0.200		95.9	76.3-130			
Surrogate: 1,2-Dichloroethane-d4	72.8		ug/L	62.5		116	77.6-134			
Surrogate: Toluene-d8	60.7		"	62.5		97.1	81.4-121			
Surrogate: 4-Bromofluorobenzene	60.9		"	62.5		97.5	74.7-123			

**Matrix Spike (OH27001-MS1)**

Source: X008131-01

Prepared: 08/27/2010 Analyzed: 08/27/2010

Benzene	0.15	0.004	mg/kg	0.200	ND	73.4	77.6-132			QM-07
Toluene	0.13	0.004	"	0.200	ND	63.1	74-136			QM-07
Surrogate: 1,2-Dichloroethane-d4	69.4		ug/L	62.5		111	77.6-134			
Surrogate: Toluene-d8	59.8		"	62.5		95.7	81.4-121			
Surrogate: 4-Bromofluorobenzene	64.4		"	62.5		103	74.7-123			

**Matrix Spike Dup (OH27001-MSD1)**

Source: X008131-01

Prepared: 08/27/2010 Analyzed: 08/27/2010

Benzene	0.15	0.004	mg/kg	0.200	ND	74.4	77.6-132	1.33	13.1	QM-07
Toluene	0.13	0.004	"	0.200	ND	64.6	74-136	2.29	20.9	QM-07
Surrogate: 1,2-Dichloroethane-d4	69.4		ug/L	62.5		111	77.6-134			
Surrogate: Toluene-d8	59.2		"	62.5		94.7	81.4-121			
Surrogate: 4-Bromofluorobenzene	62.7		"	62.5		100	74.7-123			

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 Project: Eberly PAD 24-3-M

## Conductivity by E120.1 - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 821156 - NONE</b>										
<b>LCS (821156-1-BKS)</b>		Source: 821156-1-BKS			Prepared: 08/31/2010 Analyzed: 08/31/2010					
Conductivity	1410	2	US/CM	1410	±1.00	100	80-120	0	20	
<b>BLANK (821156-1-BLK)</b>		Source: 821156-1-BLK			Prepared: 08/31/2010 Analyzed: 08/31/2010					
Conductivity	ND	2	US/CM	0			-	0	20	

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## Metals by SW6010B - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 821161 - SW3050B

MS (387608-001 S)		Source: 387608-001 S			Prepared: 08/31/2010 Analyzed: 08/31/2010					
Zinc	146	5.29	mg/kg	106	42.6	98	75-125	0	20	
Lead	114	1.06	"	106	7.91	100	75-125	0	20	
Barium	344	3.17	"	106	208	128	75-125	0	20	J
Cadmium	115	0.529	"	106	0.314	108	75-125	0	20	
Copper	125	3.17	"	106	13.3	105	75-125	0	20	
Nickel	121	1.06	"	106	16.4	99	75-125	0	20	
Selenium	111	2.11	"	106	1.21	104	75-125	0	20	
Silver	60.4	2.11	"	52.9	0.842	113	75-125	0	20	
Chromium	121	0.529	"	106	12.6	102	75-125	0	0	

MSD (387608-001 SD)		Source: 387608-001 SD			Prepared: 08/31/2010 Analyzed: 08/31/2010					
Zinc	135	5.32	mg/kg	106	42.6	87	75-125	8	20	
Barium	311	3.19	"	106	208	97	75-125	10	20	J
Cadmium	108	0.532	"	106	0.314	102	75-125	6	20	
Chromium	112	0.532	"	106	12.6	93	75-125	8	0	
Copper	116	3.19	"	106	13.3	97	75-125	7	20	
Lead	106	1.06	"	106	7.91	93	75-125	7	20	
Nickel	112	1.06	"	106	16.4	90	75-125	8	20	
Selenium	104	2.13	"	106	1.21	97	75-125	7	20	
Silver	56.8	2.13	"	53.2	0.842	105	75-125	6	20	

LCS (572026-1-BKS)		Source: 572026-1-BKS			Prepared: 08/31/2010 Analyzed: 08/31/2010					
Lead	104	1	mg/kg	100	+0.790	104	75-125	0	20	
Zinc	111	5	"	100	+1.80	111	75-125	0	20	
Silver	56.1	2	"	50	0.296	112	75-125	0	20	
Nickel	107	1	"	100	+0.310	107	75-125	0	20	

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## Metals by SW6010B - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 821161 - SW3050B

LCS (572026-1-BKS)		Source: 572026-1-BKS			Prepared: 08/31/2010 Analyzed: 08/31/2010					
Barium	107	3	mg/kg	100	↕0.290	107	75-125	0	20	
Copper	105	3	"	100	↕0.280	105	75-125	0	20	
Chromium	103	0.5	"	100	↕0.310	103	75-125	0	20	
Cadmium	109	0.5	"	100	↕0.150	109	75-125	0	20	
Selenium	105	2	"	100	↕0.580	105	75-125	0	20	

BLANK (572026-1-BLK)		Source: 572026-1-BLK			Prepared: 08/31/2010 Analyzed: 08/31/2010					
Lead	ND	1	mg/kg	100			-	0	20	
Silver	0.296	2	"	50			-	0	20	I, V
Copper	ND	3	"	100			-	0	20	
Zinc	ND	5	"	100			-	0	20	
Selenium	ND	2	"	100			-	0	20	
Nickel	ND	1	"	100			-	0	20	
Barium	ND	3	"	100			-	0	20	
Chromium	ND	0.5	"	100			-	0	20	
Cadmium	ND	0.5	"	100			-	0	20	

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## Metals by SW6020 - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 821661 - SW3050B</b>										
<b>MS (387259-001 S)</b>										
		Source: 387259-001 S			Prepared: 09/01/2010 Analyzed: 09/02/2010					
Arsenic	27.4	0.469	mg/kg	23.5	5.29	94	75-125	0	30	
<b>MSD (387259-001 SD)</b>										
		Source: 387259-001 SD			Prepared: 09/01/2010 Analyzed: 09/02/2010					
Arsenic	27.3	0.469	mg/kg	23.5	5.29	94	75-125	0	30	
<b>LCS (572025-1-BKS)</b>										
		Source: 572025-1-BKS			Prepared: 09/01/2010 Analyzed: 09/02/2010					
Arsenic	18.8	0.4	mg/kg	20	←0.129	94	75-125	0	30	
<b>BLANK (572025-1-BLK)</b>										
		Source: 572025-1-BLK			Prepared: 09/01/2010 Analyzed: 09/02/2010					
Arsenic	ND	0.4	mg/kg	20			-	0	30	

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## Metals by SW7196 - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 821445 - SW3060A</b>										
<b>MS (387475-001 S)</b>										
		Source: 387475-001 S			Prepared: 09/02/2010 Analyzed: 09/02/2010					
Chromium, Hexavalent	0.386	0.631	mg/kg	0.394	←0.631	98	80-120	0	20	I
<b>LCS (821445-1-BKS)</b>										
		Source: 821445-1-BKS			Prepared: 09/02/2010 Analyzed: 09/02/2010					
Chromium, Hexavalent	0.252	0.4	mg/kg	0.25	←0.005	101	80-120	0	20	I
<b>BLANK (821445-1-BLK)</b>										
		Source: 821445-1-BLK			Prepared: 09/02/2010 Analyzed: 09/02/2010					
Chromium, Hexavalent	ND	0.4	mg/kg	0.25			-	0	20	

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## Metals by SW7471A - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 821282 - SW7471P</b>										
<b>MS (387608-001 S)</b>										
				Source: 387608-001 S		Prepared: 08/31/2010 Analyzed: 09/01/2010				
Mercury	0.161	0.0092	mg/kg	0.1412	0.0161	103	75-125	0	20	
<b>MSD (387608-001 SD)</b>										
				Source: 387608-001 SD		Prepared: 08/31/2010 Analyzed: 09/01/2010				
Mercury	0.1617	0.0092	mg/kg	0.1412	0.0161	103	75-125	0	20	
<b>LCS (572130-1-BKS)</b>										
				Source: 572130-1-BKS		Prepared: 08/31/2010 Analyzed: 09/01/2010				
Mercury	0.154	0.0087	mg/kg	0.1333	0.0079	116	75-125	0	20	
<b>BLANK (572130-1-BLK)</b>										
				Source: 572130-1-BLK		Prepared: 08/31/2010 Analyzed: 09/01/2010				
Mercury	0.0079	0.0087	mg/kg	0.1333			-	0	20	

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**Percent Moisture by AD2216A - Quality Control  
XENCO**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 820894 - NONE**

**BLANK (820894-1-BLK)**

Source: 820894-1-BLK

Prepared: 08/30/2010 Analyzed: 08/30/2010

Percent Moisture	ND	1	%	0		-		0	20	
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 Project: Eberly PAD 24-3-M

## Polyaromatic Hydrocarbons (PAHs) by SW8270C - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 821654 - SW3550

MS (387524-001 S)		Source: 387524-001 S			Prepared: 09/02/2010 Analyzed: 09/03/2010					
Benzo(k)fluoranthene	1.97	0.107	mg/kg	1.79	↕0.107	110	60-112	0	20	
Indeno(1,2,3-c,d)Pyrene	1.52	0.107	"	1.79	↕0.107	85	70-130	0	30	
Fluoranthene	1.86	0.107	"	1.79	↕0.107	104	59-106	0	20	
Dibenz(a,h)Anthracene	1.51	0.071	"	1.79	↕0.071	84	47-120	0	20	
Chrysene	1.79	0.107	"	1.79	↕0.107	100	61-106	0	20	
Benzo(b)fluoranthene	1.74	0.107	"	1.79	↕0.107	97	61-108	0	20	
Benzo(a)pyrene	1.65	0.071	"	1.79	↕0.071	92	62-104	0	20	
Benzo(a)anthracene	1.73	0.107	"	1.79	↕0.107	97	51-119	0	20	
Anthracene	1.56	0.107	"	1.79	↕0.107	87	59-104	0	20	
Naphthalene	1.6	0.107	"	1.79	↕0.107	89	50-105	0	20	
Acenaphthene	1.73	0.107	"	1.79	↕0.107	97	48-119	0	20	
Pyrene	1.66	0.107	"	1.79	↕0.107	93	49-125	0	20	
Fluorene	1.72	0.107	"	1.79	↕0.107	96	54-115	0	20	
Surrogate: 2-Fluorobiphenyl	1.52		PERCENT	1.67		91	64-104			
Surrogate: Terphenyl-D14	1.46		"	1.67		87	57-122			
Surrogate: Nitrobenzene-d5	1.32		"	1.67		79	63-105			

MSD (387524-001 SD)		Source: 387524-001 SD			Prepared: 09/02/2010 Analyzed: 09/03/2010					
Fluoranthene	1.91	0.107	mg/kg	1.79	↕0.107	107	59-106	3	20	
Pyrene	1.72	0.107	"	1.79	↕0.107	96	49-125	4	20	
Naphthalene	1.62	0.107	"	1.79	↕0.107	91	50-105	1	20	
Fluorene	1.78	0.107	"	1.79	↕0.107	99	54-115	3	20	
Dibenz(a,h)Anthracene	1.61	0.071	"	1.79	↕0.071	90	47-120	6	20	
Chrysene	1.84	0.107	"	1.79	↕0.107	103	61-106	3	20	
Benzo(k)fluoranthene	2	0.107	"	1.79	↕0.107	112	60-112	2	20	
Benzo(b)fluoranthene	1.84	0.107	"	1.79	↕0.107	103	61-108	6	20	
Benzo(a)pyrene	1.7	0.071	"	1.79	↕0.071	95	62-104	3	20	

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## Polyaromatic Hydrocarbons (PAHs) by SW8270C - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 821654 - SW3550

MSD (387524-001 SD)		Source: 387524-001 SD			Prepared: 09/02/2010 Analyzed: 09/03/2010					
Benzo(a)anthracene	1.75	0.107	mg/kg	1.79	✦0.107	98	51-119	1	20	
Anthracene	1.61	0.107	"	1.79	✦0.107	90	59-104	3	20	
Acenaphthene	1.79	0.107	"	1.79	✦0.107	100	48-119	3	20	
Indeno(1,2,3-c,d)Pyrene	1.56	0.107	"	1.79	✦0.107	87	70-130	3	30	
Surrogate: Terphenyl-D14	1.44		PERCENT	1.67		86	57-122			
Surrogate: Nitrobenzene-d5	1.31		"	1.67		78	63-105			
Surrogate: 2-Fluorobiphenyl	1.55		"	1.67		93	64-104			

LCS (572223-1-BKS)		Source: 572223-1-BKS			Prepared: 09/02/2010 Analyzed: 09/03/2010					
Dibenz(a,h)Anthracene	1.41	0.066	mg/kg	1.67	✦0.027	84	47-120	0	20	
Pyrene	1.49	0.1	"	1.67	✦0.033	89	49-125	0	20	
Naphthalene	1.41	0.1	"	1.67	✦0.021	84	50-105	0	20	
Indeno(1,2,3-c,d)Pyrene	1.38	0.1	"	1.67	✦0.034	83	70-130	0	30	
Fluorene	1.54	0.1	"	1.67	✦0.023	92	54-115	0	20	
Fluoranthene	1.62	0.1	"	1.67	✦0.038	97	59-106	0	20	
Acenaphthene	1.55	0.1	"	1.67	✦0.022	93	48-119	0	20	
Anthracene	1.39	0.1	"	1.67	✦0.035	83	59-104	0	20	
Benzo(a)anthracene	1.52	0.1	"	1.67	✦0.028	91	51-119	0	20	
Benzo(a)pyrene	1.45	0.066	"	1.67	✦0.025	87	62-104	0	20	
Benzo(b)fluoranthene	1.46	0.1	"	1.67	✦0.020	87	61-108	0	20	
Benzo(k)fluoranthene	1.8	0.1	"	1.67	✦0.033	108	60-112	0	20	
Chrysene	1.6	0.1	"	1.67	✦0.023	96	61-106	0	20	
Surrogate: Terphenyl-D14	1.43		PERCENT	1.67		86	57-122			
Surrogate: Nitrobenzene-d5	1.31		"	1.67		78	63-105			
Surrogate: 2-Fluorobiphenyl	1.53		"	1.67		92	64-104			

BLANK (572223-1-BLK)		Source: 572223-1-BLK			Prepared: 09/02/2010 Analyzed: 09/03/2010					
Benzo(b)fluoranthene	ND	0.1	mg/kg	1.67				0	20	

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 Project: Eberly PAD 24-3-M

## Polyaromatic Hydrocarbons (PAHs) by SW8270C - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 821654 - SW3550**

BLANK (572223-1-BLK)		Source: 572223-1-BLK			Prepared: 09/02/2010 Analyzed: 09/03/2010					
Fluorene	ND	0.1	mg/kg	1.67	-	0	20			
Pyrene	ND	0.1	"	1.67	-	0	20			
Naphthalene	ND	0.1	"	1.67	-	0	20			
Indeno(1,2,3-c,d)Pyrene	ND	0.1	"	1.67	-	0	30			
Fluoranthene	ND	0.1	"	1.67	-	0	20			
Dibenz(a,h)Anthracene	ND	0.066	"	1.67	-	0	20			
Benzo(k)fluoranthene	ND	0.1	"	1.67	-	0	20			
Benzo(a)pyrene	ND	0.066	"	1.67	-	0	20			
Benzo(a)anthracene	ND	0.1	"	1.67	-	0	20			
Anthracene	ND	0.1	"	1.67	-	0	20			
Acenaphthene	ND	0.1	"	1.67	-	0	20			
Chrysene	ND	0.1	"	1.67	-	0	20			
Surrogate: Nitrobenzene-d5	1.28		PERCENT	1.67	77		63-105			
Surrogate: Terphenyl-D14	1.49		"	1.67	89		57-122			
Surrogate: 2-Fluorobiphenyl	1.56		"	1.67	93		64-104			

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Noelle E Doyle,

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.

Olsson Associates  
826 21 1/2 Road  
Grand Junction CO 81505

Tim Dobransky  
Project Number: [none]  
Project: Eberly PAD 24-3-M

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**Notes and Definitions**

- V detected in the sample and blank
- 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 Spike recovery failed outside method criteria in the MS and/or MSD. LCS passed. Compounds flagged with a "J".
- I Sample result was found between MDL and RL
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

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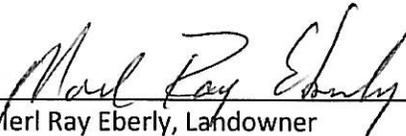
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Noelle E Doyle.

PERMISSION TO LANDFARM  
DRILLING CUTTINGS

EBERLY WELL

As Landowner(s) of the property, I/we hereby allow Fram Operating, LLC to use the well cuttings stored on this location to be included in the reclamation, restoration and seeding process.

  
Merl Ray Eberly, Landowner

9-21-11  
Date

  
Sherryn S. Eberly, Landowner

9-21-11  
Date