



## 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  
12/19/2011Complete the Attachment  
Checklist

OF OGCC

1. OGCC Operator Number: 66571	4. Contact Name: Daniel I. Padilla
2. Name of Operator: OXY USA WTP LP	Phone: 970.263.3637
3. Address: 760 Horizon Drive, Suite 101	Fax: 970.263.3694
City: Grand Junction State: CO Zip: 81506	
5. API Number 05- 045-14298	OGCC Facility ID Number 335889
6. Well/Facility Name: 697-09-61D Res. Pit (Lined)	7. Well/Facility Number 697-09-61D
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): SWSE, Sec. 9, T6S, R97W, 6th PM	
9. County: Garfield	10. Field Name: Grand Valley
11. Federal, Indian or State Lease Number:	

Survey Plat	
Directional Survey	
Surface Eqpm Diagram	
Technical Info Page	X
Other Lab Data & Map	X

## General Notice

<input type="checkbox"/> 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"/> FNU/FSL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/> attach directional survey
Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer	
Latitude	Distance to nearest property line
Longitude	Distance to nearest bldg, public rd, utility or RR
Ground Elevation	Distance to nearest lease line
	Is location in a High Density Area (rule 603b)? Yes/No
	Distance to nearest well same formation
	Surface owner consultation date:

## GPS DATA:

Date of Measurement PDOP Reading Instrument Operator's Name

<input type="checkbox"/> CHANGE SPACING UNIT	<input type="checkbox"/> Remove from surface bond
Formation Formation Code Spacing order number Unit Acreage Unit configuration	Signed surface use agreement attached

<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	<input type="checkbox"/> CHANGE WELL NAME
Effective Date:	NUMBER
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	From:
	To:
	Effective Date:

<input type="checkbox"/> ABANDONED LOCATION:	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	Date well shut in or temporarily abandoned:
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No
Date Ready for inspection:	MIT required if shut in longer than two years. Date of last MIT

<input type="checkbox"/> SPUD DATE:	<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)
-------------------------------------	---

<input type="checkbox"/> 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	

<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.	
Final reclamation will commence on approximately	<input type="checkbox"/> Final reclamation is completed and site is ready for inspection.

## Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Report of Work Done
Approximate Start Date:	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 type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Application of diff. standard	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: Daniel I. Padilla Date: 12/19/11 Email: daniel\_padilla@oxy.com  
Print Name: Daniel I. Padilla Title: Regulatory Advisor

COGCC Approved: Title: Date:

CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

- |  |                                  |
|--|----------------------------------|
| 1. OGCC Operator Number: 66571   | API Number: 05-045-14298         |
| 2. Name of Operator: OXY USA WTP LP  | OGCC Facility ID # 335889        |
| 3. Well/Facility Name: 697-09-61D Reserve Pit (Lined)                          | Well/Facility Number: 697-09-61D |
| 4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSE, Sec. 9, T6S, R97W, 6th PM |                                  |

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

OXY USA WTP LP (Oxy) has completed reclamation of the above-mentioned reserve pit. Oxy identified post reclamation levels for Arsenic (As) to be below undisturbed background levels but above COGCC Table 910-1 concentration levels. Oxy requests consideration as an alternative to the default value for As in Table 910-1, based on our demonstration of naturally occurring concentrations of As in undisturbed samples taken from native material collected from nearby locations, as per foot note 1 of COGCC Table 910-1. Please refer to attached table, analytical data, and sample location map.

The sampling method Oxy employed was to take a representative random grab sample for each background sample location, and post reclamation sample. The analytical concentrations table identifies the COGCC Table 910-1 concentration levels, Oxy's undisturbed background concentrations, and Oxy's post reclamation concentrations (Post Reclaim 10/05/2009).

The reclaimed pit was contoured to be level with active production pad surface, which includes proper stormwater run-on and runoff controls during the operational phase of the production pad. Oxy requests to leave the pit at pad grade until final pad reclamation occurs at the end of the life of the pad.

# Pit Reclaims - Cascade Creek

Pad #:	Core 697-09-61D
Sample Date:	3/25/2009
Clearance Achieved Date:	

## Sample Identifications (mg/kg)

Lab Report #	L425863	L394737	L394737	L425258	L519132	L519772	L519772
Sample Date	10/5/2009	3/25/2009	3/25/2009	10/1/2009	6/2/2011	6/8/2011	6/8/2011
Sample ID	Post Reclaim	Pre-Reclaim (pi)	Background	Background	Background -2	697-16-28 BG-1	697-16-28 BG-2
<b>Organics in Soil</b>							
	MCL (mg/kg)						
TPH (GRO and DRO)	500	280.33	3.4	190	10.0	1.1	2
Benzene	0.17	0.0067	0.110	0.0028	BDL	U	U
Toluene	85	0.011	0.096	BDL	BDL	U	U
Ethylbenzene	100	0.0024	0.022	BDL	BDL	U	U
Xylenes	175	BDL	0.130	BDL	BDL	U	U
<b>Organics in Soil (PAH's)</b>							
Acenaphthene	1000	BDL	BDL	BDL	BDL	0.0037	0.034
Anthracene	1000	BDL	BDL	BDL	BDL	U	U
Benzo(A)anthracene	0.22	BDL	BDL	BDL	0.001	0.0022	U
Benzo(B)fluoranthene	0.22	BDL	BDL	BDL	BDL	U	U
Benzo(K)fluoranthene	2.2	BDL	BDL	BDL	BDL	U	U
Benzo(A)pyrene	0.022	BDL	BDL	BDL	BDL	U	U
Chrysene	22	BDL	BDL	BDL	BDL	U	U
Dibenzo(A,H)anthracene	0.022	BDL	BDL	BDL	BDL	U	U
Fluoranthene	1000	BDL	0.043	BDL	0.0015	0.0018	0.015
Flourene	1000	BDL	BDL	BDL	BDL	0.0072	0.072
Indeno(1,2,3,C,D)pyrene	0.22	BDL	BDL	BDL	BDL	U	U
Napthalene	23	0.044	0.25	BDL	0.0078	0.02	0.11
Pyrene	1000	BDL	BDL	BDL	BDL	0.0079	0.053
<b>Inorganics in Soil</b>							
EC	<4 mmhos/cm or 2X background	0.900	2.20	0.680	0.200	0.120	0.23
SAR	<12	9.4	51.0	27	2.2	1.0	0.7
pH	6-9	8.1	9.0	8.4	7.1	8.7	9
<b>Metals in Soils</b>							
Arsenic	0.39	13	0.76	4.0	3.5	20.0	4.7
Barium	15000	5670	2400	650	-	310.0	280
Boron (Hot Water Soluble)	2 (mg/L)	1.58	1.5	0.6	-	NA	NA
Cadmium	70	0.73	BDL	0.61	-	0.24	1.60
Chromium	12000	28.0	6.5	21.0	-	52.0	32.0
Chromium VI	23	BDL	BDL	BDL	-	BDL	U
Copper	3100	21.0	9.5	22.0	-	19.0	21.0
Lead	400	13.0	17	13.0	-	17	16
Mercury	23	0.028	BDL	0.024	-	0.029	0.031
Nickel	1600	18.0	4.2	14.0	-	25.0	27.0
Selenium	390	BDL	BDL	2.0	-	1.3	12
Silver	390	BDL	BDL	BDL	-	0.58	U
Zinc	23000	53.0	18.0	53.0	-	52	57.0





OXY USA WTP LP

760 Horizon Drive, Suite 101  
Grand Junction, CO 81506

## 697-09-61D Closure Sampling

Updated: December 13, 2011 Garfield County, Colorado

0 0.005 0.01 0.02 0.03 0.04 0.05 Miles



Pond or Pit Location



Pit Samples



Pre-Reclaim Samples



Background Samples





# 697-09-61D Closure Sampling

Updated: December 13, 2011 Garfield County, Colorado



Pond or Pit Location



Pit Samples



Pre-Reclaim Samples



Background Samples





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Est. 1970

Brett Kennedy  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101

Grand Junction, CO 81506

Report Summary

Tuesday October 13, 2009

Report Number: L425863

Samples Received: 10/07/09

Client Project:

Description: Pit Reclaims - Collbran

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

  
Mark W. Beasley, ESC Representative

*Laboratory Certification Numbers*

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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1 Samples Reported: 10/13/09 08:45 Printed: 10/13/09 08:45

Page 1 of 5



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Est. 1970

## REPORT OF ANALYSIS

Brett Kennedy  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

October 13, 2009

Date Received : October 07, 2009  
Description : Pit Reclaims CC  
Sample ID : 697-09-61D POST REC  
Collected By : Brett Kennedy  
Collection Date : 10/05/09 10:19

ESC Sample # : L425863-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
Chromium, Hexavalent	U	0.10	2.0	mg/kg		3060A/7	10/12/09	1
ORP	250			mV		2580	10/08/09	1
pH	8.1			su		9045D	10/12/09	1
Sodium Adsorption Ratio	9.4					Calc.	10/09/09	1
Specific Conductance	900			umhos/cm		9050AMo	10/09/09	1
Mercury	0.028	0.0025	0.020	mg/kg		7471	10/09/09	1
Arsenic	13.	0.32	1.0	mg/kg		6010B	10/10/09	1
Cadmium	0.73	0.040	0.25	mg/kg		6010B	10/10/09	1
Chromium	28.	0.085	0.50	mg/kg		6010B	10/10/09	1
Copper	21.	0.21	1.0	mg/kg		6010B	10/10/09	1
Lead	13.	0.090	0.25	mg/kg		6010B	10/10/09	1
Nickel	18.	0.26	1.0	mg/kg		6010B	10/10/09	1
Selenium	U	0.63	2.0	mg/kg	O	6010B	10/11/09	2
Silver	U	0.16	0.50	mg/kg		6010B	10/10/09	1
Zinc	53.	0.34	1.5	mg/kg		6010B	10/10/09	1
Benzene	0.0067	0.00090	0.0025	mg/kg		8021/80	10/09/09	5
Toluene	0.011	0.0015	0.025	mg/kg	J	8021/80	10/09/09	5
Ethylbenzene	0.0024	0.0013	0.0025	mg/kg	J	8021/80	10/09/09	5
Total Xylene	U	0.0028	0.0075	mg/kg		8021/80	10/09/09	5
TPH (GC/FID) Low Fraction	0.33	0.16	0.50	mg/kg	J	GRO	10/09/09	5
Surrogate Recovery-%								
a, a, a-Trifluorotoluene (FID)	94.4			% Rec.		8021/80	10/09/09	5
a, a, a-Trifluorotoluene (PID)	95.1			% Rec.		8021/80	10/09/09	5
TPH (GC/FID) High Fraction	280	1.3	4.0	mg/kg		3546/DR	10/09/09	1
Surrogate recovery(%)								
o-Terphenyl	54.6			% Rec.		3546/DR	10/09/09	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0093	0.033	mg/kg		8270C	10/11/09	1
Acenaphthene	U	0.011	0.033	mg/kg		8270C	10/11/09	1
Acenaphthylene	U	0.011	0.033	mg/kg		8270C	10/11/09	1
Benzo(a)anthracene	U	0.0077	0.033	mg/kg		8270C	10/11/09	1
Benzo(a)pyrene	U	0.0074	0.033	mg/kg		8270C	10/11/09	1
Benzo(b)fluoranthene	U	0.0078	0.033	mg/kg		8270C	10/11/09	1
Benzo(g,h,i)perylene	U	0.0095	0.033	mg/kg		8270C	10/11/09	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 10/13/09 08:45 Printed: 10/13/09 08:46  
L425863-01 (PH) - 8.1@20.6c



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Est. 1970

REPORT OF ANALYSIS

Brett Kennedy  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

October 13, 2009

Date Received : October 07, 2009  
Description : Pit Reclaims CC  
Sample ID : 697-09-61D POST REC  
Collected By : Brett Kennedy  
Collection Date : 10/05/09 10:19

ESC Sample # : L425863-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
Benzo(k)fluoranthene	U	0.012	0.033	mg/kg		8270C	10/11/09	1
Chrysene	U	0.0091	0.033	mg/kg		8270C	10/11/09	1
Dibenz(a,h)anthracene	U	0.011	0.033	mg/kg		8270C	10/11/09	1
Fluoranthene	U	0.0079	0.033	mg/kg		8270C	10/11/09	1
Fluorene	U	0.0095	0.033	mg/kg		8270C	10/11/09	1
Indeno(1,2,3-cd)pyrene	U	0.011	0.033	mg/kg		8270C	10/11/09	1
Naphthalene	0.044	0.016	0.033	mg/kg		8270C	10/11/09	1
Phenanthrene	0.018	0.0073	0.033	mg/kg	J	8270C	10/11/09	1
Pyrene	U	0.0089	0.033	mg/kg		8270C	10/11/09	1
Surrogate Recovery								
Nitrobenzene-d5	63.6			% Rec.		8270C	10/11/09	1
2-Fluorobiphenyl	61.6			% Rec.		8270C	10/11/09	1
p-Terphenyl-d14	72.1			% Rec.		8270C	10/11/09	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 10/13/09 08:45 Printed: 10/13/09 08:46  
L425863-01 (PH) - 8.1@20.6c



Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L425863-01	WG444677	SAMP	Toluene	R940868	J
	WG444677	SAMP	Ethylbenzene	R940868	J
	WG444677	SAMP	TPH (GC/FID) Low Fraction	R940868	J
	WG444694	SAMP	Selenium	R944108	O
	WG444479	SAMP	Phenanthrene	R943148	J

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



Analysis/Container/Preservative

Chain of Custody  
Page 1 of 1

Prepared by:

**SCIENCE CORP.**

12065 Lebanon Road

**Mt. Juliet, TN 37122**

Phone (615) 758-5858

Phone (800) 767-5859

**FAX (615) 758-5859**

A223

**CocCode: OXYGUJCO** (lab use only)

Template/Prelogin

Shipped Via:

Remarks/Contaminant	Sample # (lab only)
---------------------	---------------------

1425863-01

No.

of

1

10

1

1

1

1

pH \_\_\_\_\_ Temp \_\_\_\_\_

943262593736  
Flow

Source: (Original)

Condition: (lab use only)

9

EOC Seals Initialed Y N NA

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.



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Tax I.D. 62-0814289

Est. 1970

Brett Kennedy  
Oxy USA WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101

Grand Junction, CO 81506

Report Summary

Wednesday April 01, 2009

Report Number: L394737

Samples Received: 03/27/09

Client Project:

Description: Pit Reclaims

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

  
Mark W. Beasley, ESC Representative

*Laboratory Certification Numbers*

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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## REPORT OF ANALYSIS

Brett Kennedy  
Oxy USA WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

April 01, 2009

Date Received : March 27, 2009  
Description : Pit Reclaims  
Sample ID : CC 697-09-61D BG  
Collected By : Brett Kennedy  
Collection Date : 03/25/09 11:10

ESC Sample # : L394737-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	04/01/09	1
ORP	230		mV	2580	03/30/09	1
pH	8.4		su	9045D	03/28/09	1
Sodium Adsorption Ratio	27.			Calc.	04/01/09	1
Specific Conductance	680		umhos/cm	9050AMod	03/27/09	1
Mercury	0.024	0.020	mg/kg	7471	03/29/09	1
Arsenic	4.0	1.0	mg/kg	6010B	03/31/09	1
Barium	650	0.25	mg/kg	6010B	03/31/09	1
Cadmium	0.61	0.25	mg/kg	6010B	03/31/09	1
Chromium	21.	0.50	mg/kg	6010B	03/31/09	1
Copper	22.	1.0	mg/kg	6010B	03/31/09	1
Lead	13.	0.25	mg/kg	6010B	03/31/09	1
Nickel	14.	1.0	mg/kg	6010B	03/31/09	1
Selenium	2.0	1.0	mg/kg	6010B	03/31/09	1
Silver	BDL	0.50	mg/kg	6010B	03/31/09	1
Zinc	53.	1.5	mg/kg	6010B	03/31/09	1
Benzene	0.0028	0.0025	mg/kg	8021/8015	03/28/09	5
Toluene	BDL	0.025	mg/kg	8021/8015	03/28/09	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	03/28/09	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	03/28/09	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	03/28/09	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	95.8		% Rec.	8021/8015	03/28/09	5
a,a,a-Trifluorotoluene (PID)	102.		% Rec.	8021/8015	03/28/09	5
TPH (GC/FID) High Fraction	190	20.	mg/kg	3546/DRO	04/01/09	5
Surrogate recovery(%)						
o-Terphenyl	53.3		% Rec.	3546/DRO	04/01/09	5
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.033	mg/kg	8270C	03/30/09	1
Acenaphthene	BDL	0.033	mg/kg	8270C	03/30/09	1
Acenaphthylene	BDL	0.033	mg/kg	8270C	03/30/09	1
Benzo(a)anthracene	BDL	0.033	mg/kg	8270C	03/30/09	1
Benzo(a)pyrene	BDL	0.033	mg/kg	8270C	03/30/09	1
Benzo(b)fluoranthene	BDL	0.033	mg/kg	8270C	03/30/09	1
Benzo(g,h,i)perylene	BDL	0.033	mg/kg	8270C	03/30/09	1

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit (PQL)  
L394737-01 (PH) - 8.4@20.9c



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REPORT OF ANALYSIS

Brett Kennedy  
Oxy USA WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

April 01, 2009

Date Received : March 27, 2009  
Description : Pit Reclaims  
Sample ID : CC 697-09-61D BG  
Collected By : Brett Kennedy  
Collection Date : 03/25/09 11:10

ESC Sample # : L394737-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(k)fluoranthene	BDL	0.033	mg/kg	8270C	03/30/09	1
Chrysene	BDL	0.033	mg/kg	8270C	03/30/09	1
Dibenz(a,h)anthracene	BDL	0.033	mg/kg	8270C	03/30/09	1
Fluoranthene	BDL	0.033	mg/kg	8270C	03/30/09	1
Fluorene	BDL	0.033	mg/kg	8270C	03/30/09	1
Indeno(1,2,3-cd)pyrene	BDL	0.033	mg/kg	8270C	03/30/09	1
Naphthalene	BDL	0.033	mg/kg	8270C	03/30/09	1
Phenanthrene	BDL	0.033	mg/kg	8270C	03/30/09	1
Pyrene	BDL	0.033	mg/kg	8270C	03/30/09	1
Surrogate Recovery						
Nitrobenzene-d5	75.5		% Rec.	8270C	03/30/09	1
2-Fluorobiphenyl	80.1		% Rec.	8270C	03/30/09	1
p-Terphenyl-d14	61.8		% Rec.	8270C	03/30/09	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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## REPORT OF ANALYSIS

Brett Kennedy  
Oxy USA WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

April 01, 2009

Date Received : March 27, 2009  
Description : Pit Reclaims  
Sample ID : CC 697-06-61D-PRE-REC  
Collected By : Brett Kennedy  
Collection Date : 03/25/09 11:00

ESC Sample # : L394737-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	04/01/09	1
ORP	160		mV	2580	03/30/09	1
pH	9.0		su	9045D	03/28/09	1
Sodium Adsorption Ratio	51.			Calc.	04/01/09	1
Specific Conductance	2200		umhos/cm	9050AMod	03/27/09	1
Mercury	BDL	0.020	mg/kg	7471	03/29/09	1
Arsenic	BDL	1.0	mg/kg	6010B	03/31/09	1
Barium	2400	0.25	mg/kg	6010B	03/31/09	1
Cadmium	BDL	0.25	mg/kg	6010B	03/31/09	1
Chromium	6.5	0.50	mg/kg	6010B	03/31/09	1
Copper	9.5	1.0	mg/kg	6010B	03/31/09	1
Lead	17.	0.25	mg/kg	6010B	03/31/09	1
Nickel	4.2	1.0	mg/kg	6010B	03/31/09	1
Selenium	BDL	1.0	mg/kg	6010B	03/31/09	1
Silver	BDL	0.50	mg/kg	6010B	03/31/09	1
Zinc	18.	1.5	mg/kg	6010B	03/31/09	1
Benzene	0.11	0.0025	mg/kg	8021/8015	03/28/09	5
Toluene	0.096	0.025	mg/kg	8021/8015	03/28/09	5
Ethylbenzene	0.022	0.0025	mg/kg	8021/8015	03/28/09	5
Total Xylene	0.13	0.0075	mg/kg	8021/8015	03/28/09	5
TPH (GC/FID) Low Fraction	3.4	0.50	mg/kg	GRO	03/28/09	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	87.4		% Rec.	8021/8015	03/28/09	5
a,a,a-Trifluorotoluene (PID)	94.7		% Rec.	8021/8015	03/28/09	5
TPH (GC/FID) High Fraction	280	20.	mg/kg	3546/DRO	03/30/09	5
Surrogate recovery(%)						
o-Terphenyl	90.9		% Rec.	3546/DRO	03/30/09	5
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.033	mg/kg	8270C	03/30/09	1
Acenaphthene	BDL	0.033	mg/kg	8270C	03/30/09	1
Acenaphthylene	BDL	0.033	mg/kg	8270C	03/30/09	1
Benzo(a)anthracene	BDL	0.033	mg/kg	8270C	03/30/09	1
Benzo(a)pyrene	BDL	0.033	mg/kg	8270C	03/30/09	1
Benzo(b)fluoranthene	BDL	0.033	mg/kg	8270C	03/30/09	1
Benzo(g,h,i)perylene	BDL	0.033	mg/kg	8270C	03/30/09	1

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit (PQL)  
L394737-02 (PH) - 9.0@21.1c



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REPORT OF ANALYSIS

Brett Kennedy  
Oxy USA WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

April 01, 2009

Date Received : March 27, 2009  
Description : Pit Reclaims  
Sample ID : CC 697-06-61D-PRE-REC  
Collected By : Brett Kennedy  
Collection Date : 03/25/09 11:00

ESC Sample # : L394737-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(k)fluoranthene	BDL	0.033	mg/kg	8270C	03/30/09	1
Chrysene	BDL	0.033	mg/kg	8270C	03/30/09	1
Dibenz(a,h)anthracene	BDL	0.033	mg/kg	8270C	03/30/09	1
Fluoranthene	BDL	0.033	mg/kg	8270C	03/30/09	1
Fluorene	0.043	0.033	mg/kg	8270C	03/30/09	1
Indeno(1,2,3-cd)pyrene	BDL	0.033	mg/kg	8270C	03/30/09	1
Naphthalene	0.25	0.033	mg/kg	8270C	03/30/09	1
Phenanthrene	0.099	0.033	mg/kg	8270C	03/30/09	1
Pyrene	BDL	0.033	mg/kg	8270C	03/30/09	1
Surrogate Recovery						
Nitrobenzene-d5	96.3		% Rec.	8270C	03/30/09	1
2-Fluorobiphenyl	74.4		% Rec.	8270C	03/30/09	1
p-Terphenyl-d14	52.8		% Rec.	8270C	03/30/09	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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L394737-02 (PH) - 9.0@21.1c

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L394737-01	WG414044	SAMP	TPH (GC/FID) Low Fraction	R688407	J3

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



Company Name/Address:

# Oxy USA WTP LP - Grand Junction, CO

760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

Alternate billing information:

Analysis/Container/Preservative

E059

Chain of Custody  
Page 1 of 1
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FAX (615) 758-5859

Report to: Brett Kennedy Email to: brett.kennedy@oxy.com

Project: Pit Reclaims - CC Day/Sea Collected

Phone: (970) 263-3601

Client Project #:

ESC Key:

FAX: (970) 201-2305

Collected by: Brett Kennedy

Site/Facility ID#:

P.O.#:

Collected by (signature):

Rush? (Lab MUST Be Notified)

Date Results Needed:

No.

Immediately

Packed on Ice N Y

Same Day.....200%  
Next Day.....100%  
Two Day.....50%  
Three Day.....25%Email? No Yes  
FAX? No Yes

Cmts

Sample ID

Comp/Grab

Matrix\*

Depth

Date

Time

Cmts

Remarks/Contaminant

Sample # (lab only)

CC 697-09-61D-B6 Comp SS Surface 3145109 1110 34

CC 697-09-61D-B6 Comp SS Surface 3145109 1100 34

AS, Ba, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Zn

Cr VI

BTEx / TPH (BRO and DRO)

PAH

EC

SAR

pH

69702-01

Flow

pH

Temp

Other

Condition: (Use only)

COC Status: (Use only)

NCF

Matrix: SS - Soil/Solid GW - Groundwater WW - Wastewater DW - Drinking Water OT - Other

Remarks:

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Cmts

Flow

pH

Temp

Other

Condition: (Use only)

COC Status: (Use only)

NCF

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Cmts

Flow

pH

Temp

Other

Condition: (Use only)

COC Status: (Use only)

NCF

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Cmts

Flow

pH

Temp

Other

Condition: (Use only)

COC Status: (Use only)

NCF



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Brett Kennedy  
Oxy USA WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101

Grand Junction, CO 81506

Report Summary

Friday October 09, 2009

Report Number: L425258

Samples Received: 10/02/09

Client Project:

Description: Pit Reclaims

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

  
John D. Brackman, ESC Representative

*Laboratory Certification Numbers*

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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REPORT OF ANALYSIS

Brett Kennedy  
Oxy USA WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

October 09, 2009

Date Received : October 02, 2009  
Description : Pit Reclaims CC  
Sample ID : 698-09-61D BG  
Collected By : Brett Kennedy  
Collection Date : 10/01/09 14:10

ESC Sample # : L425258-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
pH	7.1			su		9045D	10/08/09	1
Sodium Adsorption Ratio	2.2					Calc.	10/09/09	1
Specific Conductance	200			umhos/cm		9050AMo	10/07/09	1
Arsenic	3.5	0.32	1.0	mg/kg		6010B	10/08/09	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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L425258-01 (PH) - 7.1@21.4c





Blair Rollins  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

### Report Summary

Monday June 13, 2011

Report Number: L519132

Samples Received: 06/03/11

Client Project: 900546.0007.010

Description: 609-14-Annex

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Entire Report Reviewed By:



Mark W. Beasley, ESC Representative

### Laboratory Certification Numbers

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# REPORT OF ANALYSIS

Blair Rollins  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

June 13, 2011

Date Received : June 03, 2011  
Description : 609-14-Annex  
Sample ID : BACKGROUND-2  
Collected By : CJB  
Collection Date : 06/02/11 12:14

ESC Sample # : L519132-01  
Site ID :  
Project # : 900546.0007.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	06/08/11	1
Chromium, Trivalent	52.	0.17	2.0	mg/kg		Calc.	06/07/11	1
ORP	110			mV		2580	06/07/11	1
pH	8.8			su		9045D	06/07/11	1
Sodium Adsorption Ratio	2.5					Calc.	06/08/11	1
Specific Conductance	120			umhos/cm		9050AMo	06/08/11	1
Mercury	0.029	0.0015	0.020	mg/kg		7471	06/08/11	1
Arsenic	20.	0.32	1.0	mg/kg	J3	6010B	06/07/11	1
Barium	310	0.050	0.25	mg/kg	V	6010B	06/07/11	1
Cadmium	0.24	0.040	0.25	mg/kg	J	6010B	06/07/11	1
Chromium	52.	0.085	0.50	mg/kg		6010B	06/07/11	1
Copper	19.	0.21	1.0	mg/kg		6010B	06/07/11	1
Lead	17.	0.090	0.25	mg/kg		6010B	06/07/11	1
Nickel	25.	0.26	1.0	mg/kg		6010B	06/07/11	1
Selenium	1.3	0.32	1.0	mg/kg		6010B	06/07/11	1
Silver	0.58	0.16	0.50	mg/kg	P1	6010B	06/07/11	1
Zinc	52.	0.34	1.5	mg/kg		6010B	06/07/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	06/07/11	5
Surrogate Recovery (70-130)								
a,a,a-Trifluorotoluene(FID)	99.9			% Rec.		602/801	06/07/11	5
Benzene	U	0.0021	0.0050	mg/kg		8260B	06/05/11	5
Toluene	U	0.0017	0.025	mg/kg		8260B	06/05/11	5
Ethylbenzene	U	0.0016	0.0050	mg/kg		8260B	06/05/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	06/05/11	5
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	06/05/11	5
Dibromofluoromethane	96.7			% Rec.		8260B	06/05/11	5
a,a,a-Trifluorotoluene	93.5			% Rec.		8260B	06/05/11	5
4-Bromofluorobenzene	95.4			% Rec.		8260B	06/05/11	5
TPH (GC/FID) High Fraction	10.	0.77	4.0	mg/kg		3546/DR	06/12/11	1
Surrogate recovery(%)								
o-Terphenyl	131.			% Rec.		3546/DR	06/12/11	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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L519132-01 (PH) - 8.8@21.1c



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# REPORT OF ANALYSIS

Blair Rollins  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

June 13, 2011

Date Received : June 03, 2011  
Description : 609-14-Annex  
Sample ID : BACKGROUND-2  
Collected By : CJB  
Collection Date : 06/02/11 12:14

ESC Sample # : L519132-01

Site ID :

Project # : 900546.0007.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	06/07/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	06/07/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	06/07/11	1
Benzo(a)anthracene	0.0010	0.00092	0.0060	mg/kg	J	8270C-S	06/07/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	06/07/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	06/07/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	06/07/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	06/07/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	06/07/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	06/07/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	06/07/11	1
Fluorene	0.0015	0.00055	0.0060	mg/kg	J	8270C-S	06/07/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	06/07/11	1
Naphthalene	0.0078	0.00065	0.0060	mg/kg		8270C-S	06/07/11	1
Phenanthrene	0.0035	0.00074	0.0060	mg/kg	J	8270C-S	06/07/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	06/07/11	1
1-Methylnaphthalene	0.0033	0.00079	0.0060	mg/kg	J	8270C-S	06/07/11	1
2-Methylnaphthalene	0.011	0.00059	0.0060	mg/kg		8270C-S	06/07/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	06/07/11	1
Surrogate Recovery								
Nitrobenzene-d5	69.7			% Rec.		8270C-S	06/07/11	1
2-Fluorobiphenyl	74.8			% Rec.		8270C-S	06/07/11	1
p-Terphenyl-d14	73.7			% Rec.		8270C-S	06/07/11	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 06/13/11 12:46 Printed: 06/13/11 12:47

L519132-01 (PH) - 8.8@21.1c



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Tax I.D. 62-0814289

Est. 1970

# REPORT OF ANALYSIS

June 13, 2011

Blair Rollins  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

Date Received : June 03, 2011  
Description : 609-14-Annex  
Sample ID : BACKGROUND-1  
Collected By : CJB  
Collection Date : 06/02/11 12:38

ESC Sample # : L519132-02

Site ID :

Project # : 900546.0007.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	06/08/11	1
Chromium, Trivalent	49.	0.17	2.0	mg/kg		Calc.	06/07/11	1
ORP	120			mV		2580	06/07/11	1
pH	8.5			su		9045D	06/07/11	1
Sodium Adsorption Ratio	2.5					Calc.	06/08/11	1
Specific Conductance	140			umhos/cm		9050AMo	06/08/11	1
Mercury	0.015	0.0015	0.020	mg/kg	J	7471	06/08/11	1
Arsenic	5.1	0.32	1.0	mg/kg		6010B	06/07/11	1
Barium	340	0.050	0.25	mg/kg		6010B	06/07/11	1
Cadmium	0.55	0.040	0.25	mg/kg		6010B	06/07/11	1
Chromium	49.	0.085	0.50	mg/kg		6010B	06/07/11	1
Copper	21.	0.21	1.0	mg/kg		6010B	06/07/11	1
Lead	15.	0.090	0.25	mg/kg		6010B	06/07/11	1
Nickel	28.	0.26	1.0	mg/kg		6010B	06/07/11	1
Selenium	0.68	0.32	1.0	mg/kg	J	6010B	06/07/11	1
Silver	0.45	0.16	0.50	mg/kg	J	6010B	06/07/11	1
Zinc	58.	0.34	1.5	mg/kg		6010B	06/07/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	06/07/11	5
Surrogate Recovery (70-130)								
a,a,a-Trifluorotoluene (FID)	101.			% Rec.		602/801	06/07/11	5
Benzene	U	0.0021	0.0050	mg/kg		8260B	06/05/11	5
Toluene	U	0.0017	0.025	mg/kg		8260B	06/05/11	5
Ethylbenzene	U	0.0016	0.0050	mg/kg		8260B	06/05/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	06/05/11	5
Surrogate Recovery								
Toluene-d8	99.8			% Rec.		8260B	06/05/11	5
Dibromofluoromethane	95.2			% Rec.		8260B	06/05/11	5
a,a,a-Trifluorotoluene	94.3			% Rec.		8260B	06/05/11	5
4-Bromofluorobenzene	97.6			% Rec.		8260B	06/05/11	5
TPH (GC/FID) High Fraction	5.1	0.77	4.0	mg/kg		3546/DR	06/08/11	1
Surrogate recovery(%)								
o-Terphenyl	123.			% Rec.		3546/DR	06/08/11	1

U = ND (Not Detected)

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L519132-02 (PH) - 8.5@21.0c





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# REPORT OF ANALYSIS

Blair Rollins  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

June 13, 2011

Date Received : June 03, 2011  
Description : 609-14-Annex  
Sample ID : BACKGROUND-1  
Collected By : CJB  
Collection Date : 06/02/11 12:38

ESC Sample # : L519132-02  
Site ID :  
Project # : 900546.0007.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	06/07/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	06/07/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	06/07/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	06/07/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	06/07/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	06/07/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	06/07/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	06/07/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	06/07/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	06/07/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	06/07/11	1
Fluorene	U	0.00055	0.0060	mg/kg		8270C-S	06/07/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	06/07/11	1
Naphthalene	U	0.00065	0.0060	mg/kg		8270C-S	06/07/11	1
Phenanthrene	U	0.00074	0.0060	mg/kg		8270C-S	06/07/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	06/07/11	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	06/07/11	1
2-Methylnaphthalene	0.0025	0.00059	0.0060	mg/kg	J	8270C-S	06/07/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	06/07/11	1
Surrogate Recovery								
Nitrobenzene-d5	47.6			% Rec.		8270C-S	06/07/11	1
2-Fluorobiphenyl	66.4			% Rec.		8270C-S	06/07/11	1
p-Terphenyl-d14	68.9			% Rec.		8270C-S	06/07/11	1

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L519132-02 (PH) - 8.5@21.0c

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L519132-01	WG539029	SAMP	Arsenic	R1715309	J3
	WG539029	SAMP	Barium	R1715309	V
	WG539029	SAMP	Cadmium	R1715309	J
	WG539029	SAMP	Silver	R1715309	P1
	WG539137	SAMP	Benzo(a)anthracene	R1714511	J
	WG539137	SAMP	Fluorene	R1714511	J
	WG539137	SAMP	Phenanthrene	R1714511	J
	WG539137	SAMP	1-Methylnaphthalene	R1714511	J
	WG539029	SAMP	Selenium	R1715309	J
L519132-02	WG539029	SAMP	Silver	R1715309	J
	WG538995	SAMP	Mercury	R1715830	J
	WG539137	SAMP	2-Methylnaphthalene	R1714511	J

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy** - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision** - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate** - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC** - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



Blair Rollins  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

### Report Summary

Monday June 20, 2011

Report Number: L519772

Samples Received: 06/08/11

Client Project:

Description: Oxy 6971628 Background

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:



Mark W. Beasley, ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140  
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
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Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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Est. 1970

# REPORT OF ANALYSIS

Blair Rollins  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

June 20, 2011

Date Received : June 08, 2011  
Description : Oxy 6971628 Background  
Sample ID : BACKGROUND-1  
Collected By : CJB  
Collection Date : 06/03/11 11:00

ESC Sample # : L519772-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	06/14/11	1
Chromium, Trivalent	32.	0.17	2.0	mg/kg		Calc.	06/10/11	1
ORP	73.			mV		2580	06/15/11	1
pH	8.7			su		9045D	06/10/11	1
Sodium Adsorption Ratio	1.0					Calc.	06/10/11	1
Specific Conductance	120			umhos/cm		9050AMo	06/09/11	1
Mercury	0.031	0.0015	0.020	mg/kg		7471	06/10/11	1
Arsenic	4.7	0.32	1.0	mg/kg		6010B	06/10/11	1
Barium	280	0.050	0.25	mg/kg		6010B	06/10/11	1
Cadmium	1.6	0.040	0.25	mg/kg		6010B	06/10/11	1
Chromium	32.	0.085	0.50	mg/kg		6010B	06/10/11	1
Copper	21.	0.21	1.0	mg/kg		6010B	06/10/11	1
Lead	16.	0.090	0.25	mg/kg		6010B	06/10/11	1
Nickel	27.	0.26	1.0	mg/kg		6010B	06/10/11	1
Selenium	12.	0.32	1.0	mg/kg		6010B	06/10/11	1
Silver	U	0.16	0.50	mg/kg		6010B	06/10/11	1
Zinc	57.	0.34	1.5	mg/kg		6010B	06/10/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	06/09/11	5
Surrogate Recovery (70-130) a, a, a-Trifluorotoluene (FID)	103.			% Rec.		602/801	06/09/11	5
Benzene	U	0.0021	0.0050	mg/kg		8260B	06/09/11	5
Toluene	U	0.0017	0.025	mg/kg		8260B	06/09/11	5
Ethylbenzene	U	0.0016	0.0050	mg/kg		8260B	06/09/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	06/09/11	5
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	06/09/11	5
Dibromofluoromethane	107.			% Rec.		8260B	06/09/11	5
a, a, a-Trifluorotoluene	102.			% Rec.		8260B	06/09/11	5
4-Bromofluorobenzene	102.			% Rec.		8260B	06/09/11	5
TPH (GC/FID) High Fraction	1.1	0.77	4.0	mg/kg	J	3546/DR	06/12/11	1
Surrogate recovery(%) o-Terphenyl	66.3			% Rec.		3546/DR	06/12/11	1

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L519772-01 (PH) - 8.7@20.6c





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REPORT OF ANALYSIS

June 20, 2011

Blair Rollins  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

Date Received : June 08, 2011  
Description : Oxy 6971628 Background

Sample ID : BACKGROUND-1

Collected By : CJB  
Collection Date : 06/03/11 11:00

ESC Sample # : L519772-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	06/13/11	1
Acenaphthene	0.0037	0.00071	0.0060	mg/kg	J	8270C-S	06/13/11	1
Acenaphthylene	0.00082	0.00057	0.0060	mg/kg	J	8270C-S	06/13/11	1
Benzo(a)anthracene	0.0022	0.00092	0.0060	mg/kg	J	8270C-S	06/13/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	06/13/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	06/13/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	06/13/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	06/13/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	06/13/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	06/13/11	1
Fluoranthene	0.0018	0.0010	0.0060	mg/kg	J	8270C-S	06/13/11	1
Fluorene	0.0072	0.00055	0.0060	mg/kg		8270C-S	06/13/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	06/13/11	1
Naphthalene	0.020	0.00065	0.0060	mg/kg		8270C-S	06/13/11	1
Phenanthrene	0.019	0.00074	0.0060	mg/kg		8270C-S	06/13/11	1
Pyrene	0.0079	0.00059	0.0060	mg/kg		8270C-S	06/13/11	1
1-Methylnaphthalene	0.020	0.00079	0.0060	mg/kg		8270C-S	06/13/11	1
2-Methylnaphthalene	0.039	0.00059	0.0060	mg/kg		8270C-S	06/13/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	06/13/11	1
Surrogate Recovery								
Nitrobenzene-d5	49.5			% Rec.		8270C-S	06/13/11	1
2-Fluorobiphenyl	50.8			% Rec.		8270C-S	06/13/11	1
p-Terphenyl-d14	54.6			% Rec.		8270C-S	06/13/11	1

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L519772-01 (PH) - 8.7@20.6c

REPORT OF ANALYSIS

Blair Rollins  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

June 20, 2011

Date Received : June 08, 2011  
Description : Oxy 6971628 Background  
Sample ID : BACKGROUND-2  
Collected By : CJB  
Collection Date : 06/03/11 11:15

ESC Sample # : L519772-02

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	06/14/11	1
Chromium, Trivalent	31.	0.17	2.0	mg/kg		Calc.	06/10/11	1
ORP	100			mV		2580	06/20/11	1
pH	9.0			su		9045D	06/10/11	1
Sodium Adsorption Ratio	0.70					Calc.	06/10/11	1
Specific Conductance	230			umhos/cm		9050AMo	06/09/11	1
Mercury	0.023	0.0015	0.020	mg/kg		7471	06/10/11	1
Arsenic	20.	0.65	2.0	mg/kg		6010B	06/10/11	2
Barium	440	0.050	0.25	mg/kg		6010B	06/10/11	1
Cadmium	1.2	0.040	0.25	mg/kg		6010B	06/10/11	1
Chromium	31.	0.085	0.50	mg/kg		6010B	06/10/11	1
Copper	22.	0.21	1.0	mg/kg		6010B	06/10/11	1
Lead	19.	0.090	0.25	mg/kg		6010B	06/10/11	1
Nickel	29.	0.53	2.0	mg/kg		6010B	06/10/11	2
Selenium	13.	0.32	1.0	mg/kg		6010B	06/10/11	1
Silver	U	0.16	0.50	mg/kg		6010B	06/10/11	1
Zinc	56.	0.34	1.5	mg/kg		6010B	06/10/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	06/09/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	103.			% Rec.		602/801	06/09/11	5
Benzene	U	0.0021	0.0050	mg/kg		8260B	06/09/11	5
Toluene	U	0.0017	0.025	mg/kg		8260B	06/09/11	5
Ethylbenzene	U	0.0016	0.0050	mg/kg		8260B	06/09/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	06/09/11	5
Surrogate Recovery								
Toluene-d8	96.8			% Rec.		8260B	06/09/11	5
Dibromofluoromethane	111.			% Rec.		8260B	06/09/11	5
a,a,a-Trifluorotoluene	99.9			% Rec.		8260B	06/09/11	5
4-Bromofluorobenzene	105.			% Rec.		8260B	06/09/11	5
TPH (GC/FID) High Fraction	2.0	0.77	4.0	mg/kg	J	3546/DR	06/12/11	1
Surrogate recovery(%) o-Terphenyl	56.6			% Rec.		3546/DR	06/12/11	1

U = ND (Not Detected)

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Note:

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L519772-02 (PH) - 9.0@20.9c



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Tax I.D. 62-0814289  
Est. 1970

# REPORT OF ANALYSIS

Blair Rollins  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

June 20, 2011

Date Received : June 08, 2011  
Description : Oxy 6971628 Background  
Sample ID : BACKGROUND-2  
Collected By : CJB  
Collection Date : 06/03/11 11:15

ESC Sample # : L519772-02

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0076	0.060	mg/kg		8270C-S	06/14/11	10
Acenaphthene	0.034	0.0071	0.060	mg/kg	J	8270C-S	06/14/11	10
Acenaphthylene	U	0.0057	0.060	mg/kg		8270C-S	06/14/11	10
Benzo(a)anthracene	U	0.0092	0.060	mg/kg		8270C-S	06/14/11	10
Benzo(a)pyrene	U	0.0062	0.060	mg/kg		8270C-S	06/14/11	10
Benzo(b)fluoranthene	U	0.0082	0.060	mg/kg		8270C-S	06/14/11	10
Benzo(g,h,i)perylene	U	0.012	0.060	mg/kg		8270C-S	06/14/11	10
Benzo(k)fluoranthene	U	0.013	0.060	mg/kg		8270C-S	06/14/11	10
Chrysene	U	0.011	0.060	mg/kg		8270C-S	06/14/11	10
Dibenz(a,h)anthracene	U	0.011	0.060	mg/kg		8270C-S	06/14/11	10
Fluoranthene	0.015	0.010	0.060	mg/kg	J	8270C-S	06/14/11	10
Fluorene	0.072	0.0055	0.060	mg/kg		8270C-S	06/14/11	10
Indeno(1,2,3-cd)pyrene	U	0.012	0.060	mg/kg		8270C-S	06/14/11	10
Naphthalene	0.11	0.0065	0.060	mg/kg		8270C-S	06/14/11	10
Phenanthrene	0.18	0.0074	0.060	mg/kg		8270C-S	06/14/11	10
Pyrene	0.053	0.0059	0.060	mg/kg	J	8270C-S	06/14/11	10
1-Methylnaphthalene	0.14	0.0079	0.060	mg/kg		8270C-S	06/14/11	10
2-Methylnaphthalene	0.25	0.0059	0.060	mg/kg		8270C-S	06/14/11	10
2-Chloronaphthalene	U	0.0060	0.060	mg/kg		8270C-S	06/14/11	10
Surrogate Recovery								
Nitrobenzene-d5	50.0			% Rec.		8270C-S	06/14/11	10
2-Fluorobiphenyl	57.1			% Rec.		8270C-S	06/14/11	10
p-Terphenyl-d14	54.0			% Rec.		8270C-S	06/14/11	10

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 06/20/11 16:37 Printed: 06/20/11 16:40

L519772-02 (PH) - 9.0@20.9c

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L519772-01	WG539462	SAMP	TPH (GC/FID) High Fraction	R1719949	J
	WG539568	SAMP	Acenaphthene	R1719432	J
	WG539568	SAMP	Acenaphthylene	R1719432	J
	WG539568	SAMP	Benzo(a)anthracene	R1719432	J
	WG539568	SAMP	Fluoranthene	R1719432	J
L519772-02	WG539462	SAMP	TPH (GC/FID) High Fraction	R1719949	J
	WG539568	SAMP	Acenaphthene	R1719432	J
	WG539568	SAMP	Fluoranthene	R1719432	J
	WG539568	SAMP	Pyrene	R1719432	J
	WG539568	SAMP			

<b>OXY USA Inc. - Grand Junction, CO</b> 760 Horizon Dr., Ste 101 Grand Junction, CO 81506				Alternate billing information: CO Table 910 Report to: Email to: <u>Blair-Rodriguez</u> City/State Collected: <u>Parachute</u> ESC Key:				Project Description: <u>Oxy Background</u> Phone: (970) 263-3601 FAX:				Client Project #: <u>697-16-38</u> Site/Facility ID#:				Collected by: <u>CSB</u> Collected by (signature): <u>[Signature]</u> Packed on Ice <u>N</u>				Date Results Needed: Email? <u>No</u> Yes FAX? <u>No</u> Yes				Date Time				No. of Cntrs				Date Results Needed: Email? <u>No</u> Yes FAX? <u>No</u> Yes				Date Time				No. of Cntrs				Date Results Needed: Email? <u>No</u> Yes FAX? <u>No</u> Yes				Date Time				No. of Cntrs			
Project Description: <u>Oxy Background</u> Phone: (970) 263-3601 FAX:				Client Project #: <u>697-16-38</u> Site/Facility ID#:				Collected by: <u>CSB</u> Collected by (signature): <u>[Signature]</u> Packed on Ice <u>N</u>				Date Results Needed: Email? <u>No</u> Yes FAX? <u>No</u> Yes				Date Time				No. of Cntrs				Date Results Needed: Email? <u>No</u> Yes FAX? <u>No</u> Yes				Date Time				No. of Cntrs				Date Results Needed: Email? <u>No</u> Yes FAX? <u>No</u> Yes				Date Time				No. of Cntrs											
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Matrix: <b>SS</b> - Soil/Solid <b>GW</b> - Ground water <b>WW</b> - WasteWater <b>DW</b> - Drinking Water <b>OT</b> - Other				pH    Temp			
Remarks:				4341 9819 4802 Flow			
Relinquished by: (Signature) <u>[Signature]</u>				Received by: (Signature) <u>[Signature]</u>			
Date: <u>6/7/11</u> Time: <u>5:00</u>				Date: <u>6/8/11</u> Time: <u>0900</u>			
Relinquished by: (Signature) <u>[Signature]</u>				Received by: (Signature) <u>[Signature]</u>			
Date:    Time:				Date:    Time:			
Relinquished by: (Signature) <u>[Signature]</u>				Received for lab by: (Signature) <u>[Signature]</u>			
Date:    Time:				Date:    Time:			

D112				Prepared by:				Custody of:			
ENVIRONMENTAL SCIENCE CORP. 12065 Lebanon Road Mt Juliet, TN 37122 Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859				CoCode OXYGJCO (lab use only) Template/Prelogin Shipped Via:				Remarks/Contaminant Sample # (lab use only)			
Analysis/Container/Preservative				CR3, CR6SS				SAR, SPCON, PH			
DRO, SV8270PAHSIM				MRCRA8 + Cu, Ni, Zn				V8260BTEX, GRO			
X				X				X			
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