



DOCUMENT
#2221040

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
11/14/2011

1. OGCC Operator Number: <u>66561</u>		4. Contact Name		Complete the Attachment Checklist	
2. Name of Operator: <u>OXY USA Inc.</u>		Daniel I. Padilla			
3. Address: <u>760 Horizon Drive, Suite 101</u>		Phone: <u>970.263.3637</u>			
City: <u>Grand Junction</u> State: <u>CO</u> Zip: <u>81506</u>		Fax: <u>970.263.3694</u>		OP OGCC	
5. API Number <u>05-077-09178</u>		OGCC Facility ID Number <u>334394</u>		Survey Plat	
6. Well/Facility Name: <u>Gunderson Federal</u>		7. Well/Facility Number <u>18-5</u>		Directional Survey	
8. Location (QtrQtr, Sec, Twp, Rng, Meridian): <u>SWNW, Sec. 18, T9S, R93W</u>				Surface Eqpm't Diagram	
9. County: <u>Mesa</u>		10. Field Name: <u>Brush Creek</u>		Technical Info Page	
11. Federal, Indian or State Lease Number: <u>COC50945</u>				Other Lab Data, Map	

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)	
	FNU/FSL	FEL/FWL	
Change of Surface Footage from Exterior Section Lines:	<input type="text"/>	<input type="text"/>	<input type="text"/>
Change of Surface Footage to Exterior Section Lines:	<input type="text"/>	<input type="text"/>	<input type="text"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="text"/>	<input type="text"/>	<input type="text"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="text"/>	<input type="text"/>	<input type="text"/>
Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer _____		attach directional survey _____	
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 <input type="text"/>
Ground Elevation _____	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 Signed surface use agreement attached	
Formation	Formation Code	Spacing order number	Unit Acreage	Unit configuration		
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		

<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling): Effective Date: _____ Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	<input type="checkbox"/> CHANGE WELL NAME NUMBER From: _____ To: _____ Effective Date: _____
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<input type="checkbox"/> ABANDONED LOCATION: Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No Is site ready for Inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No Date Ready for Inspection: _____	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS Date well shut in or temporarily abandoned: _____ Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No 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="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

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

Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent Approximate Start Date: _____	<input type="checkbox"/> 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 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: <u>Pit Closure</u>	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: 
Print Name: Daniel I. Padilla

Date: 11/14/11 Email: daniel_padilla@oxy.com
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: 05-077-09178
2. Name of Operator: OXY USA Inc.	OGCC Facility ID # 334394
3. Well/Facility Name: Gunderson Federal	Well/Facility Number: 18-5
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWNW, Sec. 18, T9S, R93W	

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 Inc. (Oxy) has completed reclamation of the above-mentioned reserve pit and requests to apply a different standard (see table on next page) to the COGCC Table 910-1 concentration levels for Arsenic (As). Based on post reclamation levels for As being below undisturbed background levels, Oxy's sundry requests to waive the COGCC Table 910-1 concentration for As. In this particular situation, the pit bottom cap, and the below pit liner (Post Reclaim 09/16/2010) concentration for As is above COGCC Table 910-1 standards, but is equal to undisturbed background levels (see sampling locations on included location map).

The sampling method Oxy employed was to take a representative random grab sample for each background sample location. 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 09/16/2010). Based on the background sample concentrations, Oxy's sundry notice requests to apply different standards to the COGCC Table 910-1 concentration levels.

To address elevated concentrations of pH and SAR, Oxy buried and capped the pit bottom below at least three feet of native material to ensure a sufficient agronomic zone. The reclaimed pit was contoured to be level with the pad grade to minimize stormwater runoff, during operational phase of the pad. Final pad reclamation will occur at the end of the life of the pad.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
**Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.
COC 50945

6. If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator
OXY USA Inc.

3a. Address
760 Horizon Drive, Suite 101
Grand Junction CO 81506

3b. Phone No. (include area code)
(970)263-3637

7. If Unit of CA/Agreement, Name and/or No.
N/A

8. Well Name and No.
Gunderson Federal 18-5 Pit

9. API Well No.
05-077-09181 ; OGCC Facility # 334394

10. Field and Pool or Exploratory Area
Brush Creek # 7562

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SWNW, Sec 18, T9S, R93W

11. Country or Parish, State
Mesa, CO

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Pit Closure
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

OXY USA Inc. (Oxy) has completed reclamation of the above-mentioned reserve pit located on the Hidden Creek 14-14 Pad. Attached please find the closure documentation for the pit which was submitted to the COGCC.

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)

Daniel I. Padilla

Title Regulatory Advisor

Signature

Date

11/14/11

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Pit Reclaims - Collbran

Pad #: Gunderson 18-5

Sample Date: 9/16/2010

Clearance Achieved Date:

		Sample Identifications (mg/kg)								
		Post Reclaim (09-16-10)	Background - N (09-16-10)	Background - E (09-16-10)	Background - S (09-16-10)	Background - W (09-16-10)	Cap (10-01-10)	Soil Pile (10-01-10)		
Organics in Soil										
TPH (GRO and DRO)	500	50.63	-	-	-	-	-	-		
Benzene	0.17	0.0021	-	-	-	-	-	-		
Toluene	85	0.0036	-	-	-	-	-	-		
Ethylbenzene	100	0.0036	-	-	-	-	-	-		
Xylenes	175	0.027	-	-	-	-	-	-		
Organics in Soil (PAH's)										
Acenaphthene	1000	<0.011	-	-	-	-	-	-		
Anthracene	1000	<0.0093	-	-	-	-	-	-		
Benzo(A)anthracene	0.22	<0.0077	-	-	-	-	-	-		
Benzo(B)fluoranthene	0.22	<0.0078	-	-	-	-	-	-		
Benzo(K)fluoranthene	2.2	<0.012	-	-	-	-	-	-		
Benzo(A)pyrene	0.022	<0.0074	-	-	-	-	-	-		
Chrysene	22	<0.0091	-	-	-	-	-	-		
Dibenzo(A,H)anthracene	0.022	<0.011	-	-	-	-	-	-		
Fluoranthene	1000	0.0081	-	-	-	-	-	-		
Flourene	1000	<0.0095	-	-	-	-	-	-		
Indeno(1,2,3,C,D)pyrene	0.22	<0.011	-	-	-	-	-	-		
Napthalene	23	0.22	-	-	-	-	-	-		
Pyrene	1000	0.013	-	-	-	-	-	-		
Inorganics in Soil										
EC	<4 mmhos/cm or 2X background	0.97	0.100	0.078	0.027	0.056	-	-		
SAR	<12	18.0	0.60	0.73	0.53	0.55	7.40	3.80		
pH	6-9	9.4	7.5	6.4	6.8	6.5	8.9	-		
Metals in Soils										
Arsenic	0.39	4.4	3.5	4.4	2.0	2.1	-	-		
Barium	15000	5600	-	-	-	-	-	-		
Boron (Not Applicable)	2 (mg/L)	-	-	-	-	-	-	-		
Cadmium	70	<0.040	-	-	-	-	-	-		
Chromium	12000	22.0	-	-	-	-	-	-		
Chromium VI	23	<0.31	-	-	-	-	-	-		
Copper	3100	39.0	-	-	-	-	-	-		
Lead	400	17.0	-	-	-	-	-	-		
Mercury	23	0.025	-	-	-	-	-	-		
Nickel	1600	16.0	-	-	-	-	-	-		
Selenium	390	<1.6	-	-	-	-	-	-		
Silver	390	<0.16	-	-	-	-	-	-		
Zinc	23000	65.0	-	-	-	-	-	-		



OXY USA Inc.
760 Horizon Drive, Suite 101
Grand Junction, CO 81506

Gunderson Fed 18-5 Sampling Locations Map

Updated: Nov. 14, 2011 Mesa County, Colorado



● Background Composite Sample

● Cap Sample

● Post Reclamation Composite Sample

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

Report Summary

Wednesday October 06, 2010

Report Number: L481948

Samples Received: 10/02/10

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:


Craig Cothron , 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, NV - TN000032008A,
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

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

October 06, 2010

Date Received : October 02, 2010
Description : Pit Reclaims - Collbran
Sample ID : GUNDERSON 18-5 CAP 0-6 IN
Collected By : Brett Kennedy
Collection Date : 10/01/10 11:03

ESC Sample # : L481948-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.9		su	9045D	10/03/10	1
Sodium Adsorption Ratio	7.4			Calc.	10/05/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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L481948-01 (PH) - 8.9@18.0c



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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

October 06, 2010

Date Received : October 02, 2010
Description : Pit Reclaims - Collbran
Sample ID : SOIL PILE 18-5 0-6 IN
Collected By : Brett Kennedy
Collection Date : 10/01/10 11:10

ESC Sample # : L481948-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Sodium Adsorption Ratio	3.8			Calc.	10/05/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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[illegible]

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

Report Summary

Friday September 24, 2010

Report Number: L479303

Samples Received: 09/17/10

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, NV - TN000032008A,
TX - T104704245, OK-9915

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Where applicable, sampling conducted by ESC is performed per guidance provided
in laboratory standard operating procedures: 060302, 060303, and 060304.

REPORT OF ANALYSIS

September 24, 2010

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

Date Received : September 17, 2010
Description : Pit Reclaims - Collbran
Sample ID : GUNDERSON 18-5 DR
Collected By : Brett Kennedy
Collection Date : 09/16/10 12:55

ESC Sample # : L479303-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.31	2.0	mg/kg		3060A/7	09/21/10	1
ORP	140			mV		2580	09/21/10	1
pH	9.4			su		9045D	09/23/10	1
Sodium Adsorption Ratio	18.					Calc.	09/21/10	1
Specific Conductance	970			umhos/cm		9050AMo	09/21/10	1
Mercury	0.025	0.0053	0.020	mg/kg		7471	09/18/10	1
Arsenic	4.4	0.32	1.0	mg/kg		6010B	09/19/10	1
Barium	5600	0.25	1.3	mg/kg		6010B	09/20/10	5
Cadmium	U	0.040	0.25	mg/kg		6010B	09/19/10	1
Chromium	22.	0.085	0.50	mg/kg		6010B	09/19/10	1
Copper	39.	0.21	1.0	mg/kg		6010B	09/19/10	1
Lead	17.	0.090	0.25	mg/kg		6010B	09/19/10	1
Nickel	16.	0.26	1.0	mg/kg		6010B	09/19/10	1
Selenium	U	1.6	5.0	mg/kg	O	6010B	09/20/10	5
Silver	U	0.16	0.50	mg/kg		6010B	09/20/10	1
Zinc	65.	0.34	1.5	mg/kg		6010B	09/19/10	1
Benzene	0.0021	0.00090	0.0025	mg/kg	J	8021/80	09/18/10	5
Toluene	0.0036	0.0015	0.025	mg/kg	J	8021/80	09/18/10	5
Ethylbenzene	0.0036	0.0013	0.0025	mg/kg		8021/80	09/18/10	5
Total Xylene	0.027	0.0028	0.0075	mg/kg		8021/80	09/18/10	5
TPH (GC/FID) Low Fraction	0.63	0.14	0.50	mg/kg		GRO	09/18/10	5
Surrogate Recovery-%								
a, a, a-Trifluorotoluene (FID)	98.1			% Rec.		8021/80	09/18/10	5
a, a, a-Trifluorotoluene (PID)	103.			% Rec.		8021/80	09/18/10	5
TPH (GC/FID) High Fraction	50.	0.77	4.0	mg/kg		3546/DR	09/20/10	1
Surrogate recovery(%)								
o-Terphenyl	51.3			% Rec.		3546/DR	09/20/10	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0093	0.033	mg/kg		8270C	09/19/10	1
Acenaphthene	U	0.011	0.033	mg/kg		8270C	09/19/10	1
Acenaphthylene	U	0.011	0.033	mg/kg		8270C	09/19/10	1
Benzo(a)anthracene	U	0.0077	0.033	mg/kg		8270C	09/19/10	1
Benzo(a)pyrene	U	0.0074	0.033	mg/kg		8270C	09/19/10	1
Benzo(b)fluoranthene	U	0.0078	0.033	mg/kg		8270C	09/19/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 09/24/10 14:42 Printed: 09/24/10 15:09

L479303-01 (PH) - 9.4@22.2c

L479303-01 (PH) - 12@20.3c



12065 Lebanon Rd.
Mt. Juliet, TN 37122
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Fax (615) 758-5859

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REPORT OF ANALYSIS

September 24, 2010

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

ESC Sample # : L479303-01

Date Received : September 17, 2010
Description : Pit Reclaims - Collbran

Site ID :

Sample ID : GUNDERSON 18-5 DR

Project # :

Collected By : Brett Kennedy
Collection Date : 09/16/10 12:55

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzo(g,h,i)perylene	U	0.0095	0.033	mg/kg		8270C	09/19/10	1
Benzo(k)fluoranthene	U	0.012	0.033	mg/kg		8270C	09/19/10	1
Chrysene	U	0.0091	0.033	mg/kg		8270C	09/19/10	1
Dibenz(a,h)anthracene	U	0.011	0.033	mg/kg		8270C	09/19/10	1
Fluoranthene	0.0081	0.0079	0.033	mg/kg	J	8270C	09/19/10	1
Fluorene	U	0.0095	0.033	mg/kg		8270C	09/19/10	1
Indeno(1,2,3-cd)pyrene	U	0.011	0.033	mg/kg		8270C	09/19/10	1
Naphthalene	0.22	0.016	0.033	mg/kg		8270C	09/19/10	1
Phenanthrene	0.10	0.0073	0.033	mg/kg		8270C	09/19/10	1
Pyrene	0.013	0.0089	0.033	mg/kg	J	8270C	09/19/10	1
Surrogate Recovery								
Nitrobenzene-d5	107.			% Rec.		8270C	09/19/10	1
2-Fluorobiphenyl	83.2			% Rec.		8270C	09/19/10	1
p-Terphenyl-d14	69.3			% Rec.		8270C	09/19/10	1

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L479303-01 (PH) - 9.4@22.2c

L479303-01 (PH) - 12@20.3c



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REPORT OF ANALYSIS

September 24, 2010

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

Date Received : September 17, 2010
Description : Pit Reclaims - Collbran
Sample ID : GUNDERSON 18-5 BG-N
Collected By : Brett Kennedy
Collection Date : 09/16/10 13:43

ESC Sample # : L479303-02

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	7.5			su		9045D	09/23/10	1
Sodium Adsorption Ratio	0.60					Calc.	09/21/10	1
Specific Conductance	100			umhos/cm		9050AMo	09/21/10	1
Arsenic	3.5	0.32	1.0	mg/kg		6010B	09/19/10	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: 09/24/10 14:42 Printed: 09/24/10 15:09

L479303-02 (PH) - 7.5@21.6c

L479303-02 (PH) - 13@20.1c



12065 Lebanon Rd.
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(615) 758-5858
1-800-767-5859
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

September 24, 2010

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

Date Received : September 17, 2010
Description : Pit Reclaims - Collbran
Sample ID : GUNDERSON 18-5 BG-E
Collected By : Brett Kennedy
Collection Date : 09/16/10 13:52

ESC Sample # : L479303-03

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	6.4			su		9045D	09/23/10	1
Sodium Adsorption Ratio	0.73					Calc.	09/21/10	1
Specific Conductance	7.8			umhos/cm		9050AMo	09/21/10	1
Arsenic	4.4	0.32	1.0	mg/kg		6010B	09/19/10	1

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L479303-03 (PH) - 13@19.9c

L479303-03 (PH) - 6.4@21.8c



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REPORT OF ANALYSIS

September 24, 2010

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

ESC Sample # : L479303-04

Site ID :

Project # :

Date Received : September 17, 2010
Description : Pit Reclaims - Collbran
Sample ID : GUNDERSON 18-5 BG-S
Collected By : Brett Kennedy
Collection Date : 09/16/10 13:59

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	6.8			su		9045D	09/23/10	1
Sodium Adsorption Ratio	0.53					Calc.	09/21/10	1
Specific Conductance	27.			umhos/cm		9050AMo	09/21/10	1
Arsenic	2.0	0.32	1.0	mg/kg		6010B	09/18/10	1

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L479303-04 (PH) - 12@20.3c

L479303-04 (PH) - 6.8@21.3c



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REPORT OF ANALYSIS

September 24, 2010

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

ESC Sample # : L479303-05

Site ID :

Project # :

Date Received : September 17, 2010
Description : Pit Reclaims - Collbran
Sample ID : GUNDERSON 18-5 BG-W
Collected By : Brett Kennedy
Collection Date : 09/16/10 14:04

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	6.5			su		9045D	09/23/10	1
Sodium Adsorption Ratio	0.55					Calc.	09/21/10	1
Specific Conductance	56.			umhos/cm		9050AMo	09/21/10	1
Arsenic	2.1	0.32	1.0	mg/kg		6010B	09/18/10	1

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L479303-05 (PH) - 6.5@21.3c

L479303-05 (PH) - 12@20.3c

