

FORM
4
Rev 12/05

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



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).

1. OGCC Operator Number: 66571	4. Contact Name: Daniel I. Padilla	Complete the Attachment Checklist
2. Name of Operator: OXY USA WTP LP	Phone: 970.283.3637	
3. Address: 760 Horizon Drive, Suite 101 City: Grand Junction State: CO Zip: 81506	Fax: 970.283.3694	OP OGCC
5. API Number 05-045-15014	OGCC Facility ID Number 335203	Survey Plat
6. Well/Facility Name: 697-16D Reserve Pit	7. Well/Facility Number 697-16D	Directional Survey
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): SWSE Sec 16, T6S, R97W 6th PM		Surface Eqmt Diagram
9. County: Garfield	10. Field Name: Grand Valley	Technical Info Page
11. Federal, Indian or State Lease Number:		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)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FNU/SL <input type="checkbox"/> FEU/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/> FNU/SL <input type="checkbox"/> FEU/FWL
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/> FNU/SL <input type="checkbox"/> FEU/FWL
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> FNU/SL <input type="checkbox"/> FEU/FWL
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	Signed surface use agreement attached
Formation Code	
Spacing order number	
Unit Acreage	
Unit configuration	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	<input type="checkbox"/> CHANGE WELL NAME
Effective Date	From
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	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 cbi 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: 12/9/11 Email: daniel_padilla@oxy.com
Print Name: Daniel I. Padilla Title: Regulatory Advisor

COGCC Approved: Chris Canfield Title: For Date: 12/12/2011
CONDITIONS OF APPROVAL, IF ANY: EPS NW Region

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 66571 API Number: 05-045-15014
2. Name of Operator: OXY USA WTP LP OGCC Facility ID # 335203
3. Well/Facility Name: 697-16D Reserve Pit Well/Facility Number: 697-16D
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSE Sec 16, 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, for the post reclamation sample, and a composite sample for the cap. The analytical concentrations table identifies the COGCC Table 910-1 concentration levels, Oxy's undisturbed background concentrations, Oxy's post reclamation concentrations, and cap sample (Post Reclaim 10/30/2008, Cap 11/29/2011).

Oxy also identified elevated concentrations of pH and SAR in post reclamation pit samples. Oxy has buried and capped the pit bottom contents below at least three feet of native material. 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 also identified slightly elevated levels of pH (10) and SAR (13) in the cap sample. Oxy proposes to leave the reclaimed pit surface level with the working production pad surface and given that pH and SAR levels are within 10 percent of COGCC Table 910-1 concentration, Oxy requests to leave the pit at pad grade until final pad reclamation occurs. At that time, Oxy will ensure that allowable concentration levels are met so that a sufficient agronomic zone is available for reclamation efforts.



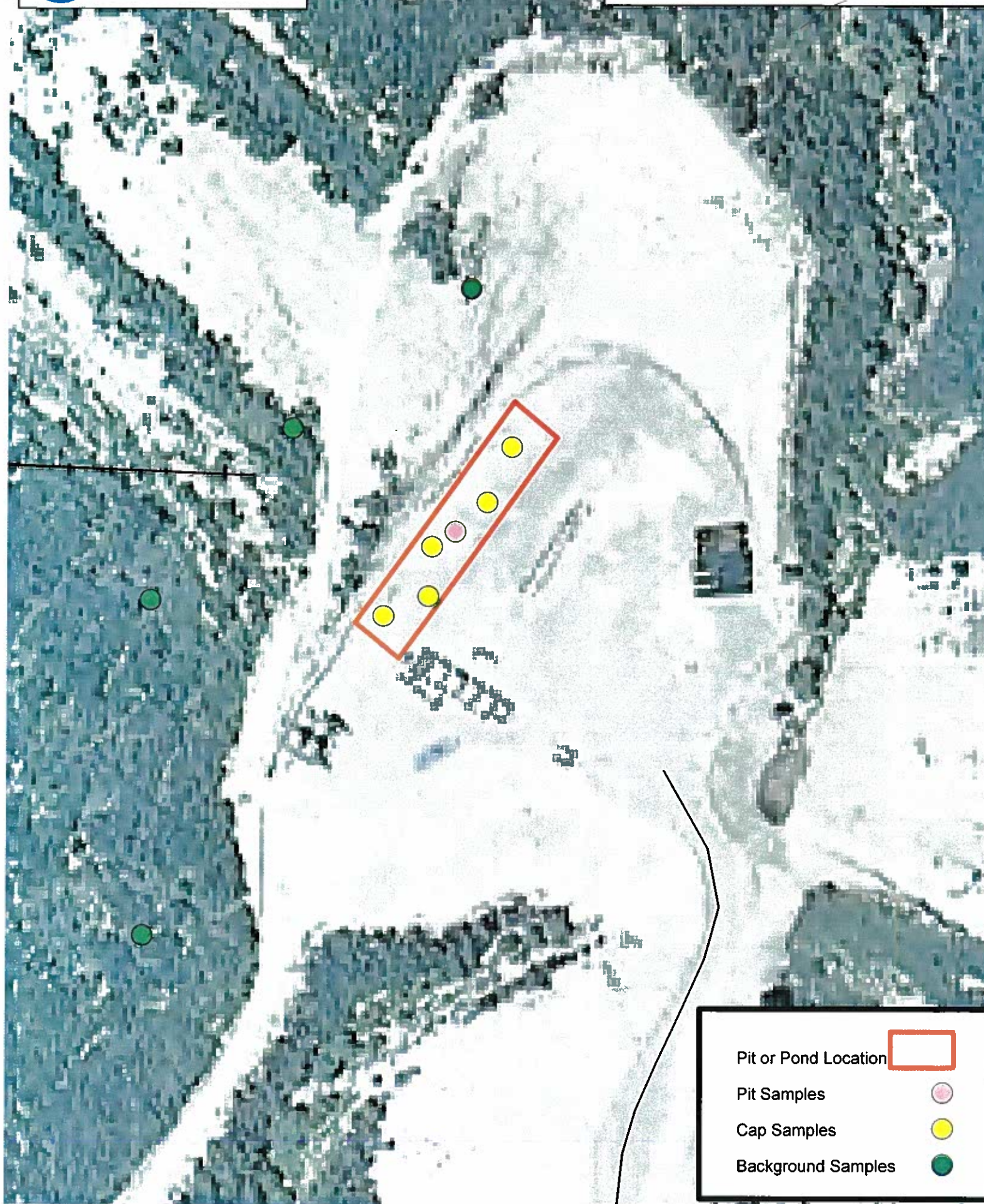
OXY USA WTP LP

760 Horizon Drive, Suite 101
Grand Junction, CO 81506

697-16D Closure Sampling

Updated: December 1, 2011 Garfield County, Colorado

0 0.00450.009 0.018 0.027 0.036 0.045 Miles



Pit or Pond Location



Pit Samples



Cap Samples



Background Samples



697-16D Cow Paddy

Pad #:	697-16D
Sample Date:	10/30/2008 Post Reclaim
Clearance Achieved Date:	

Sample Identifications (mg/kg)

	Lab Report #	L372325	L546244	L546244	L546244	L546244	L548743
	Date Sampled	10/30/2008	11/10/2011	11/10/2011	11/10/2011	11/10/2011	11/29/2011
	Sample Name	697-16D Post Reclaim	697-16D Cut Slope - N	697-16D BG - NW	697-16D BG - W	697-16D BG - SW	697-16D Cap
Organics in Soil	MCL (mg/Kg)						
TPH (GRO and DRO) - Sen Area	500	150.0	24.0	20.0	8.0	39.0	18.0
Benzene	0.17	0.0046	U	U	U	U	U
Toluene	85	BDL	U	U	U	U	U
Ethylbenzene	100	BDL	U	U	U	U	U
Xylenes	175	0.01	U	U	U	U	U
Organics in Soil (PAH's)							
Acenaphthene	1000	NA	U	U	U	U	0.0024
Anthracene	1000	NA	U	U	U	U	0.0021
Benzo(A)anthracene	0.22	NA	0.0011	U	U	0.0017	U
Benzo(B)fluoranthene	0.22	NA	0.0013	U	U	U	0.0031
Benzo(K)fluoranthene	2.2	NA	U	U	U	U	U
Benzo(A)pyrene	0.022	NA	U	U	U	U	U
Chrysene	22	NA	U	U	U	U	0.0025
Dibenzo(A,H)anthracene	0.022	NA	U	U	U	U	U
Fluoranthene	1000	NA	U	U	U	0.0012	0.0022
Flourene	1000	NA	U	U	U	0.001	0.0054
Indeno(1,2,3,C,D)pyrene	0.22	NA	U	U	U	U	U
Napthalene	23	NA	U	U	U	U	0.042
Pyrene	1000	NA	U	U	U	U	0.0072
Inorganics in Soil							
EC	<4 mmhos/cm or 2X background	11	0.013	0.071	0.130	0.140	0.520
SAR	<12	26	9.2	3.0	0.44	0.5	13.0
pH	6-9	8.4	8.2	8.0	8.1	7.6	10.0
Metals in Soils							
Arsenic	0.39	17.0	32.0	20.0	13.0	27.0	17.0
Barium (LDNR True Total)	15,000	NA	310	250	340	350	1100
Boron (Hot Water Soluble)	2 (mg/L)	0.22	NA	NA	NA	NA	NA
Cadmium	70	0.68	U	U	0.1	U	0.5
Chromium III	120,000	14.0	24.0	21.0	23.0	21.0	18.0
Chromium VI	23	U	U	0.8	0.8	1.7	U
Copper	3100	24.0	27.0	29.0	30.0	26.0	23.0
Lead	400	11.0	25.0	25.0	22.0	20.0	11.0
Mercury	23	BDL	0.021	0.024	0.017	0.020	0.011
Nickel	1600	15.0	19.0	17.0	22.0	17.0	15.0
Selenium	390	BDL	5.30	5.30	5.20	5.50	U
Silver	390	BDL	U	U	U	U	U
Zinc	23,000	57.0	46.0	47.0	73.0	62.0	53.0

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

Report Summary

Friday December 09, 2011

Report Number: L546244

Samples Received: 11/10/11

Client Project: 900546.0005.010

Description: 697-16D 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
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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

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

November 18, 2011

Date Received : November 10, 2011
Description : 697-16D Background
Sample ID : 697-16D-CS-N 15 IN
Collected By : CJB
Collection Date : 11/08/11 12:26

ESC Sample # : L546244-01

Site ID :

Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	11/17/11	1
Chromium, Trivalent	24.	0.17	2.0	mg/kg		Calc.	11/14/11	1
ORP	98.			mV	T8	2580	11/15/11	1
pH	8.2			su	T8	9045D	11/15/11	1
Sodium Adsorption Ratio	9.2					Calc.	11/14/11	1
Specific Conductance	13.			umhos/cm		9050AMo	11/16/11	1
Mercury	0.021	0.0015	0.020	mg/kg		7471	11/12/11	1
Arsenic	32.	0.32	1.0	mg/kg		6010B	11/14/11	1
Barium	310	0.050	0.25	mg/kg		6010B	11/14/11	1
Cadmium	U	0.040	0.25	mg/kg		6010B	11/16/11	1
Chromium	24.	0.085	0.50	mg/kg		6010B	11/14/11	1
Copper	27.	1.0	5.0	mg/kg		6010B	11/14/11	5
Lead	25.	0.45	1.3	mg/kg		6010B	11/14/11	5
Nickel	19.	0.26	1.0	mg/kg		6010B	11/14/11	1
Selenium	5.3	0.32	1.0	mg/kg		6010B	11/14/11	1
Silver	U	0.82	2.5	mg/kg	O	6010B	11/14/11	5
Zinc	46.	0.34	1.5	mg/kg		6010B	11/14/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	11/11/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	96.8			% Rec.		602/801	11/11/11	5
Benzene	U	0.0017	0.0050	mg/kg		8260B	11/13/11	5
Toluene	U	0.0016	0.025	mg/kg		8260B	11/13/11	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	11/13/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	11/13/11	5
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	11/13/11	5
Dibromofluoromethane	107.			% Rec.		8260B	11/13/11	5
a,a,a-Trifluorotoluene	102.			% Rec.		8260B	11/13/11	5
4-Bromofluorobenzene	105.			% Rec.		8260B	11/13/11	5
TPH (GC/FID) High Fraction	24.	0.77	4.0	mg/kg		3546/DR	11/16/11	1
Surrogate recovery(%) o-Terphenyl	81.9			% Rec.		3546/DR	11/16/11	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 11/18/11 13:55 Printed: 11/18/11 13:55

L546244-01 (PH) - 8.20@20.1c

REPORT OF ANALYSIS

November 18, 2011

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

ESC Sample # : L546244-01

Date Received : November 10, 2011
Description : 697-16D Background
Sample ID : 697-16D-CS-N 15 IN

Site ID :

Project # : 900546.0005.010

Collected By : CJB
Collection Date : 11/08/11 12:26

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	11/12/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	11/12/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	11/12/11	1
Benzo(a)anthracene	0.0011	0.00092	0.0060	mg/kg	J	8270C-S	11/12/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	11/14/11	1
Benzo(b)fluoranthene	0.0013	0.00082	0.0060	mg/kg	J	8270C-S	11/14/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	11/14/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	11/14/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	11/12/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	11/14/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	11/12/11	1
Fluorene	U	0.00055	0.0060	mg/kg		8270C-S	11/12/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	11/14/11	1
Naphthalene	U	0.00065	0.0060	mg/kg		8270C-S	11/12/11	1
Phenanthrene	U	0.00074	0.0060	mg/kg		8270C-S	11/12/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	11/12/11	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	11/12/11	1
2-Methylnaphthalene	U	0.00059	0.0060	mg/kg		8270C-S	11/12/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	11/12/11	1
Surrogate Recovery								
Nitrobenzene-d5	88.0			% Rec.		8270C-S	11/12/11	1
2-Fluorobiphenyl	73.5			% Rec.		8270C-S	11/12/11	1
p-Terphenyl-d14	126.			% Rec.		8270C-S	11/12/11	1

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L546244-01 (PH) - 8.20@20.1c

REPORT OF ANALYSIS

November 18, 2011

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

ESC Sample # : L546244-02

Date Received : November 10, 2011
Description : 697-16D Background

Site ID :

Sample ID : 697-16D-BG-NW 8 IN

Project # : 900546.0005.010

Collected By : CJB
Collection Date : 11/08/11 12:43

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	0.80	0.71	2.0	mg/kg	JJ6J3	3060A/7	11/17/11	1
Chromium, Trivalent	21.	0.17	2.0	mg/kg		Calc.	11/14/11	1
ORP	110			mV	T8	2580	11/15/11	1
pH	8.0			su	T8	9045D	11/15/11	1
Sodium Adsorption Ratio	3.0					Calc.	11/14/11	1
Specific Conductance	71.			umhos/cm		9050AMo	11/16/11	1
Mercury	0.024	0.0015	0.020	mg/kg		7471	11/12/11	1
Arsenic	20.	0.32	1.0	mg/kg		6010B	11/14/11	1
Barium	250	0.050	0.25	mg/kg		6010B	11/14/11	1
Cadmium	U	0.040	0.25	mg/kg		6010B	11/16/11	1
Chromium	22.	0.085	0.50	mg/kg		6010B	11/14/11	1
Copper	29.	1.0	5.0	mg/kg		6010B	11/14/11	5
Lead	25.	0.45	1.3	mg/kg		6010B	11/14/11	5
Nickel	17.	0.26	1.0	mg/kg		6010B	11/14/11	1
Selenium	5.3	0.32	1.0	mg/kg		6010B	11/14/11	1
Silver	U	0.82	2.5	mg/kg	O	6010B	11/14/11	5
Zinc	47.	0.34	1.5	mg/kg		6010B	11/14/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	11/11/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	95.4			% Rec.		602/801	11/11/11	5
Benzene	U	0.0017	0.0050	mg/kg		8260B	11/12/11	5
Toluene	U	0.0016	0.025	mg/kg		8260B	11/12/11	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	11/12/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	11/12/11	5
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	11/12/11	5
Dibromofluoromethane	102.			% Rec.		8260B	11/12/11	5
a,a,a-Trifluorotoluene	103.			% Rec.		8260B	11/12/11	5
4-Bromofluorobenzene	102.			% Rec.		8260B	11/12/11	5
TPH (GC/FID) High Fraction	20.	0.77	4.0	mg/kg		3546/DR	11/16/11	1
Surrogate recovery(%) o-Terphenyl	86.4			% Rec.		3546/DR	11/16/11	1

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L546244-02 (PH) - 8.01@19.8c

L546244-02 (CR6) - Ms/Msd fails, sample is a reducer.

REPORT OF ANALYSIS

November 18, 2011

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

ESC Sample # : L546244-02

Date Received : November 10, 2011
Description : 697-16D Background

Site ID :

Sample ID : 697-16D-BG-NW 8 IN

Project # : 900546.0005.010

Collected By : CJB
Collection Date : 11/08/11 12:43

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	11/15/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	11/15/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	11/15/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	11/15/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	11/15/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	11/15/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	11/15/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	11/15/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	11/15/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	11/15/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	11/15/11	1
Fluorene	U	0.00055	0.0060	mg/kg		8270C-S	11/15/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	11/15/11	1
Naphthalene	U	0.00065	0.0060	mg/kg		8270C-S	11/15/11	1
Phenanthrene	U	0.00074	0.0060	mg/kg		8270C-S	11/15/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	11/15/11	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	11/15/11	1
2-Methylnaphthalene	U	0.00059	0.0060	mg/kg		8270C-S	11/15/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	11/15/11	1
Surrogate Recovery								
Nitrobenzene-d5	80.1			% Rec.		8270C-S	11/15/11	1
2-Fluorobiphenyl	72.1			% Rec.		8270C-S	11/15/11	1
p-Terphenyl-d14	104.			% Rec.		8270C-S	11/15/11	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 11/18/11 13:55 Printed: 11/18/11 13:55

L546244-02 (PH) - 8.01@19.8c

L546244-02 (CR6) - Ms/Msd fails, sample is a reducer.



YOUR LAB OF CHOICE

12065 Lebanon Rd.
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

November 18, 2011

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

Date Received : November 10, 2011
Description : 697-16D Background
Sample ID : 697-16D-BG-W 2.5 FT
Collected By : CJB
Collection Date : 11/08/11 12:59

ESC Sample # : L546244-03

Site ID :

Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	0.80	0.71	2.0	mg/kg	J	3060A/7	11/17/11	1
Chromium, Trivalent	23.	0.17	2.0	mg/kg		Calc.	11/14/11	1
ORP	120			mV	T8	2580	11/15/11	1
pH	8.1			su	T8	9045D	11/15/11	1
Sodium Adsorption Ratio	0.44					Calc.	11/14/11	1
Specific Conductance	130			umhos/cm		9050AMo	11/16/11	1
Mercury	0.017	0.0015	0.020	mg/kg	J	7471	11/12/11	1
Arsenic	13.	0.32	1.0	mg/kg		6010B	11/14/11	1
Barium	340	0.050	0.25	mg/kg		6010B	11/14/11	1
Cadmium	0.096	0.040	0.25	mg/kg	J	6010B	11/16/11	1
Chromium	24.	0.085	0.50	mg/kg		6010B	11/14/11	1
Copper	30.	1.0	5.0	mg/kg		6010B	11/14/11	5
Lead	22.	0.45	1.3	mg/kg		6010B	11/14/11	5
Nickel	22.	0.26	1.0	mg/kg		6010B	11/14/11	1
Selenium	5.2	0.32	1.0	mg/kg		6010B	11/14/11	1
Silver	U	0.82	2.5	mg/kg	O	6010B	11/14/11	5
Zinc	73.	0.34	1.5	mg/kg		6010B	11/14/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	11/11/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	96.8			% Rec.		602/801	11/11/11	5
Benzene	U	0.0017	0.0050	mg/kg		8260B	11/12/11	5
Toluene	U	0.0016	0.025	mg/kg		8260B	11/12/11	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	11/12/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	11/12/11	5
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	11/12/11	5
Dibromofluoromethane	99.4			% Rec.		8260B	11/12/11	5
a,a,a-Trifluorotoluene	101.			% Rec.		8260B	11/12/11	5
4-Bromofluorobenzene	97.9			% Rec.		8260B	11/12/11	5
TPH (GC/FID) High Fraction	8.0	0.77	4.0	mg/kg		3546/DR	11/14/11	1
Surrogate recovery(%) o-Terphenyl	53.3			% Rec.		3546/DR	11/14/11	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 11/18/11 13:55 Printed: 11/18/11 13:55

L546244-03 (PH) - 8.07@19.7c

REPORT OF ANALYSIS

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

November 18, 2011

Date Received : November 10, 2011
Description : 697-16D Background
Sample ID : 697-16D-BG-W 2.5 FT
Collected By : CJB
Collection Date : 11/08/11 12:59

ESC Sample # : L546244-03

Site ID :

Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	11/12/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	11/12/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	11/12/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	11/12/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	11/12/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	11/12/11	1
Benzo(g,h,i)perylene	0.0019	0.0012	0.0060	mg/kg	J	8270C-S	11/12/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	11/12/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	11/12/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	11/12/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	11/12/11	1
Fluorene	U	0.00055	0.0060	mg/kg		8270C-S	11/12/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	11/12/11	1
Naphthalene	U	0.00065	0.0060	mg/kg		8270C-S	11/12/11	1
Phenanthrene	U	0.00074	0.0060	mg/kg		8270C-S	11/12/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	11/12/11	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	11/12/11	1
2-Methylnaphthalene	U	0.00059	0.0060	mg/kg		8270C-S	11/12/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	11/12/11	1
Surrogate Recovery								
Nitrobenzene-d5	75.4			% Rec.		8270C-S	11/12/11	1
2-Fluorobiphenyl	69.6			% Rec.		8270C-S	11/12/11	1
p-Terphenyl-d14	92.5			% Rec.		8270C-S	11/12/11	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 11/18/11 13:55 Printed: 11/18/11 13:55

L546244-03 (PH) - 8.07@19.7c

REPORT OF ANALYSIS

November 18, 2011

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

ESC Sample # : L546244-04

Date Received : November 10, 2011
Description : 697-16D Background
Sample ID : 697-16D-BG-SW 6 IN
Collected By : CJB
Collection Date : 11/08/11 13:12

Site ID :
Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	1.7	0.71	2.0	mg/kg	J	3060A/7	11/17/11	1
Chromium, Trivalent	21.	0.17	2.0	mg/kg		Calc.	11/14/11	1
ORP	130			mV	T8	2580	11/15/11	1
pH	7.6			su	T8	9045D	11/15/11	1
Sodium Adsorption Ratio	0.54					Calc.	11/14/11	1
Specific Conductance	140			umhos/cm		9050AMo	11/16/11	1
Mercury	0.020	0.0015	0.020	mg/kg		7471	11/12/11	1
Arsenic	27.	0.32	1.0	mg/kg		6010B	11/14/11	1
Barium	350	0.050	0.25	mg/kg		6010B	11/14/11	1
Cadmium	U	0.040	0.25	mg/kg		6010B	11/16/11	1
Chromium	23.	0.085	0.50	mg/kg		6010B	11/14/11	1
Copper	26.	0.21	1.0	mg/kg		6010B	11/14/11	1
Lead	20.	0.090	0.25	mg/kg		6010B	11/14/11	1
Nickel	17.	0.26	1.0	mg/kg		6010B	11/14/11	1
Selenium	5.5	0.32	1.0	mg/kg		6010B	11/14/11	1
Silver	U	0.16	0.50	mg/kg		6010B	11/14/11	1
Zinc	62.	0.34	1.5	mg/kg		6010B	11/14/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	11/11/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	97.3			% Rec.		602/801	11/11/11	5
Benzene	U	0.0017	0.0050	mg/kg		8260B	11/13/11	5
Toluene	U	0.0016	0.025	mg/kg		8260B	11/13/11	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	11/13/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	11/13/11	5
Surrogate Recovery								
Toluene-d8	109.			% Rec.		8260B	11/13/11	5
Dibromofluoromethane	119.			% Rec.		8260B	11/13/11	5
a,a,a-Trifluorotoluene	99.9			% Rec.		8260B	11/13/11	5
4-Bromofluorobenzene	99.5			% Rec.		8260B	11/13/11	5
TPH (GC/FID) High Fraction	39.	0.77	4.0	mg/kg		3546/DR	11/14/11	1
Surrogate recovery(%) o-Terphenyl	52.0			% Rec.		3546/DR	11/14/11	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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Reported: 11/18/11 13:55 Printed: 11/18/11 13:55
L546244-04 (PH) - 7.55@19.7c

REPORT OF ANALYSIS

November 18, 2011

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

ESC Sample # : L546244-04

Date Received : November 10, 2011
Description : 697-16D Background

Site ID :

Sample ID : 697-16D-BG-SW 6 IN

Project # : 900546.0005.010

Collected By : CJB
Collection Date : 11/08/11 13:12

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	11/17/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	11/17/11	1
Acenaphthylene	0.00089	0.00057	0.0060	mg/kg	J	8270C-S	11/17/11	1
Benzo(a)anthracene	0.0017	0.00092	0.0060	mg/kg	J	8270C-S	11/17/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	11/17/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	11/17/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	11/17/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	11/17/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	11/17/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	11/17/11	1
Fluoranthene	0.0012	0.0010	0.0060	mg/kg	J	8270C-S	11/17/11	1
Fluorene	0.0013	0.00055	0.0060	mg/kg	J	8270C-S	11/17/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	11/17/11	1
Naphthalene	U	0.00065	0.0060	mg/kg		8270C-S	11/17/11	1
Phenanthrene	0.00077	0.00074	0.0060	mg/kg	J	8270C-S	11/17/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	11/17/11	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	11/17/11	1
2-Methylnaphthalene	0.0012	0.00059	0.0060	mg/kg	J	8270C-S	11/17/11	1
2-Chloronaphthalene	0.0011	0.00060	0.0060	mg/kg	J	8270C-S	11/17/11	1
Surrogate Recovery								
Nitrobenzene-d5	100.			% Rec.		8270C-S	11/17/11	1
2-Fluorobiphenyl	78.3			% Rec.		8270C-S	11/17/11	1
p-Terphenyl-d14	129.			% Rec.		8270C-S	11/17/11	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 11/18/11 13:55 Printed: 11/18/11 13:55

L546244-04 (PH) - 7.55@19.7c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L546244-01	WG565134	SAMP	Silver	R1935293	O
	WG565580	SAMP	pH	R1932292	T8
	WG565106	SAMP	Benzo (a)anthracene	R1930692	J
	WG565106	SAMP	Benzo (b)fluoranthene	R1930692	J
	WG565448	SAMP	ORP	R1932960	T8
L546244-02	WG565134	SAMP	Silver	R1935293	O
	WG565775	SAMP	Chromium, Hexavalent	R1935553	JJ6J3
	WG565580	SAMP	pH	R1932292	T8
	WG565448	SAMP	ORP	R1932960	T8
	WG565604	SAMP	Cadmium	R1934632	J
L546244-03	WG565134	SAMP	Silver	R1935293	O
	WG565775	SAMP	Chromium, Hexavalent	R1935553	J
	WG565259	SAMP	Mercury	R1930273	J
	WG565580	SAMP	pH	R1932292	T8
	WG565106	SAMP	Benzo (g, h, i)perylene	R1930692	J
L546244-04	WG565448	SAMP	ORP	R1932960	T8
	WG565775	SAMP	Chromium, Hexavalent	R1935553	J
	WG565580	SAMP	pH	R1932292	T8
	WG565106	SAMP	Acenaphthylene	R1930692	J
	WG565106	SAMP	Benzo (a)anthracene	R1930692	J
	WG565106	SAMP	Fluoranthene	R1930692	J
	WG565106	SAMP	Fluorene	R1930692	J
	WG565106	SAMP	Phenanthrene	R1930692	J
	WG565106	SAMP	2-Methylnaphthalene	R1930692	J
	WG565106	SAMP	2-Chloronaphthalene	R1930692	J
	WG565448	SAMP	ORP	R1932960	T8

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.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
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.
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

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.

Summary of Remarks For Samples Printed
11/18/11 at 13:55:55

TSR Signing Reports: 134
R5 - Desired TAT

Sample: L546244-01 Account: OXYGJCO Received: 11/10/11 09:00 Due Date: 11/17/11 00:00 RPT Date: 11/18/11 13:55
Sample: L546244-02 Account: OXYGJCO Received: 11/10/11 09:00 Due Date: 11/17/11 00:00 RPT Date: 11/18/11 13:55
Sample: L546244-03 Account: OXYGJCO Received: 11/10/11 09:00 Due Date: 11/17/11 00:00 RPT Date: 11/18/11 13:55
Sample: L546244-04 Account: OXYGJCO Received: 11/10/11 09:00 Due Date: 11/17/11 00:00 RPT Date: 11/18/11 13:55

B059

Chain of Custody
Page 1 of 1

Prepared by:

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 only)

154624401

02

03

04

Analysis/Container/Preservative

Alternate billing information:

CO Table 910

Report to:

Email to: Daniel Padilla
Blair Rollins @oxy.com

City/State

Collected

Parachute

ESC Key:

P.O.#:

Date Results Needed:

Email? No YesFAX? No Yes

No.

of

Cntrs

Rush? (Lab MUST Be Notified)

Same Day.....200%

Next Day.....100%

Two Day.....50%

Collected by: QVBPacked on Ice: N

Sample ID

697-16D-CS-N

697-16D-BG-NW

697-16D-BG-W

697-16D-BG-SW

Comp/Grab

Grab

Grab

Grab

Grab

Matrix*

SS

SS

SS

SS

Depth

15"

8"

2.5'

6"

Date

11/8/11

11/8/11

11/8/11

11/8/11

Time

12:26

12:43

12:59

13:12

DRO, SV8270PAHSIM

V8260BTEX, GRO

SAR, SPCON, PH

MRCRA8 + Cu, Ni, Zn

CR3, CR6SS

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

pH Temp

Remarks:

5040 0621 2954

Flow

Relinquished by: (Signature)

Date: 11/9/11

Time: 5:00

Received by: (Signature)

Time:

Samples returned via: ☒ FedEx ☐ UPS

Condition:

(lab use only)

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Time:

Temp: 45

Bottles Received:

3.2

12-82

Time:

0400

Date:

11/10/11

pH Checked:

NCF:

Daniel Padilla
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

Report Summary

Monday December 05, 2011

Report Number: L548743

Samples Received: 11/29/11

Client Project:

Description: 697-160 Cap

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, PA - 68-02979

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

REPORT OF ANALYSIS

December 05, 2011

Daniel Padilla
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

ESC Sample # : L548743-01

Date Received : November 29, 2011
Description : 697-160 Cap

Site ID : 697-160

Sample ID : 697160RPCAP 4-6FT

Project # :

Collected By : Brennen Graff
Collection Date : 11/28/11 12:26

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.71	2.0	mg/kg		3060A/7	12/01/11	1
Chromium, Trivalent	18.	0.17	2.0	mg/kg		Calc.	11/30/11	1
ORP	150			mV	T8	2580	12/02/11	1
pH	10.			su		9045D	11/30/11	1
Sodium Adsorption Ratio	13.					Calc.	12/01/11	1
Specific Conductance	520			umhos/cm		9050AMo	12/01/11	1
Mercury	0.011	0.0015	0.020	mg/kg	J	7471	11/30/11	1
Arsenic	17.	1.6	5.0	mg/kg		6010B	11/30/11	5
Barium	1100	0.050	0.25	mg/kg		6010B	11/30/11	1
Cadmium	0.50	0.040	0.25	mg/kg		6010B	11/30/11	1
Chromium	18.	0.085	0.50	mg/kg		6010B	11/30/11	1
Copper	23.	0.21	1.0	mg/kg		6010B	11/30/11	1
Lead	11.	0.45	1.3	mg/kg	B	6010B	11/30/11	5
Nickel	15.	1.3	5.0	mg/kg		6010B	11/30/11	5
Selenium	U	1.6	5.0	mg/kg	O	6010B	11/30/11	5
Silver	U	0.16	0.50	mg/kg		6010B	11/30/11	1
Zinc	53.	0.34	1.5	mg/kg		6010B	11/30/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	11/30/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	93.2			% Rec.		602/801	11/30/11	5
Benzene	U	0.0017	0.0050	mg/kg		8260B	11/29/11	5
Toluene	U	0.0016	0.025	mg/kg		8260B	11/29/11	5
Ethylbenzene	U	0.0019	0.0050	mg/kg		8260B	11/29/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	11/29/11	5
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	11/29/11	5
Dibromofluoromethane	109.			% Rec.		8260B	11/29/11	5
a,a,a-Trifluorotoluene	98.1			% Rec.		8260B	11/29/11	5
4-Bromofluorobenzene	93.8			% Rec.		8260B	11/29/11	5
TPH (GC/FID) High Fraction	18.	0.77	4.0	mg/kg		3546/DR	12/01/11	1
Surrogate recovery(%) o-Terphenyl	87.9			% Rec.		3546/DR	12/01/11	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.

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

Reported: 12/05/11 16:05 Printed: 12/05/11 16:16
L548743-01 (PH) - 10.02@19.4c



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Mt. Juliet, TN 37122
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Est. 1970

REPORT OF ANALYSIS

December 05, 2011

Daniel Padilla
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

Date Received : November 29, 2011
Description : 697-160 Cap
Sample ID : 697160RPCAP 4-6FT
Collected By : Brennen Graff
Collection Date : 11/28/11 12:26

ESC Sample # : L548743-01

Site ID : 697-160

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0021	0.00076	0.0060	mg/kg	J	8270C-S	11/30/11	1
Acenaphthene	0.0024	0.00071	0.0060	mg/kg	J	8270C-S	11/30/11	1
Acenaphthylene	0.00090	0.00057	0.0060	mg/kg	J	8270C-S	11/30/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	11/30/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	11/30/11	1
Benzo(b)fluoranthene	0.0031	0.00082	0.0060	mg/kg	J	8270C-S	11/30/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	11/30/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	11/30/11	1
Chrysene	0.0025	0.0011	0.0060	mg/kg	J	8270C-S	11/30/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	11/30/11	1
Fluoranthene	0.0022	0.0010	0.0060	mg/kg	J	8270C-S	11/30/11	1
Fluorene	0.0054	0.00055	0.0060	mg/kg	J	8270C-S	11/30/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	11/30/11	1
Naphthalene	0.042	0.00065	0.0060	mg/kg		8270C-S	11/30/11	1
Phenanthrene	0.020	0.00074	0.0060	mg/kg		8270C-S	11/30/11	1
Pyrene	0.0072	0.00059	0.0060	mg/kg		8270C-S	11/30/11	1
1-Methylnaphthalene	0.039	0.00079	0.0060	mg/kg		8270C-S	11/30/11	1
2-Methylnaphthalene	0.073	0.00059	0.0060	mg/kg		8270C-S	11/30/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	11/30/11	1
Surrogate Recovery								
Nitrobenzene-d5	88.7			% Rec.		8270C-S	11/30/11	1
2-Fluorobiphenyl	81.9			% Rec.		8270C-S	11/30/11	1
p-Terphenyl-d14	127.			% Rec.		8270C-S	11/30/11	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: 12/05/11 16:05 Printed: 12/05/11 16:16
L548743-01 (PH) - 10.02@19.4c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L548743-01	WG567697	SAMP	Lead	R1950192	B
	WG567697	SAMP	Selenium	R1950192	O
	WG567674	SAMP	Mercury	R1950572	J
	WG567700	SAMP	Anthracene	R1949913	J
	WG567700	SAMP	Acenaphthene	R1949913	J
	WG567700	SAMP	Acenaphthylene	R1949913	J
	WG567700	SAMP	Benzo(b) fluoranthene	R1949913	J
	WG567700	SAMP	Chrysene	R1949913	J
	WG567700	SAMP	Fluoranthene	R1949913	J
	WG567700	SAMP	Fluorene	R1949913	J
	WG568127	SAMP	ORP	R1952914	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
B	(EPA) - The indicated compound was found in the associated method blank as well as the laboratory sample.
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.
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

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.

OXY USA WTP LP- Grand Junction, CO
760 Horizon Dr., Ste 101
Grand Junction, CO 81506

Project Description: **697-160 CAP**

Phone: (970) 263-3601
 FAX:

Client Project #:

Collected by: *Brennan Galt*

Site/Facility ID#: **697-160**

Collected by (signature): *[Signature]*

☒ Rush? (Lab MUST Be Notified)

Same Day.....200%
 Next Day.....100%
 Two Day.....50%

Packed on Ice N ☒

Sample ID

697160 RRCAP

Comp/Grab

Comp

Matrix*

SS

Depth

4'-6"

Date

11/28/11

Time

1226

Date Results Needed:

Email? ☒ No ☒ Yes

FAX? ☒ No ☒ Yes

No.

of

Cntrs

3

Alternate billing information:

CO Table 910

Report to:

Daniel Padilla

Email to:

daniel.padilla@oxy.com

City/State Collected

Colorado

ESC Key:

P.O.#:

Analysis/Container/Preservative

V8260BTEX, GRO

X

DRO, SV8270PAHSIM

X

SAR, SPCON, PH

X

MRCRA8 + Cu, Ni, Zn

X

CR3, CR6SS

X

CoCode OXYGJCO (lab use only)

Template/Prelogin

Shipped Via:

Remarks/Contaminant

Sample # (lab use only)

L548743

-01

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

Remarks:

pH Temp

Flow Other

Relinquished by: (Signature) <i>[Signature]</i>	Date: 11/28/11	Time: 5pm	Received by: (Signature) <i>[Signature]</i>	Date: 11/28/11	Time: 5pm	Samples returned via: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: (66)	(lab use only)
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received by: (Signature) <i>[Signature]</i>	Date:	Time:	Temp: 3.8	Bottles Received: 3802	
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date:	Time:	Date: 11-29-11	Time: 09w	pH Checked: NCF:

Chain of Custody Page ___ of ___

Prepared by:



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David Spencer
OXY USA - Grand Junction, CO
2754 Compass Dr., Ste. 170

Grand Junction, CO 81506

Report Summary

Wednesday November 05, 2008

Report Number: L372325

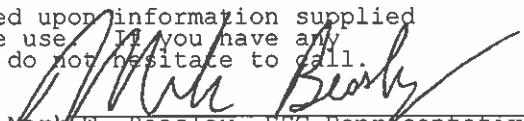
Samples Received: 10/30/08

Client Project: 7830-220

Description: Pit Bottom Sampling

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



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REPORT OF ANALYSIS

David Spencer
OXY USA - Grand Junction, CO
2754 Compass Dr., Ste. 170
Grand Junction, CO 81506

November 05, 2008

Date Received : October 30, 2008
Description : Pit Bottom Sampling

Sample ID : 697-16D 0-6 IN

Collected By : David Spencer
Collection Date : 10/29/08 09:30

ESC Sample # : L372325-01

Site ID :

Project # : 7830-220

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.4		su	9045D	10/31/08	1
Sodium Adsorption Ratio	26.			Calc.	11/05/08	1
Specific Conductance	11000		umhos/cm	9050AMod	11/03/08	1
Mercury	BDL	0.020	mg/kg	7471	11/01/08	1
Arsenic	17.	5.0	mg/kg	6010B	11/04/08	5
Beryllium	0.63	0.10	mg/kg	6010B	11/01/08	1
Cadmium	0.68	0.25	mg/kg	6010B	11/01/08	1
Chromium	14.	0.50	mg/kg	6010B	11/01/08	1
Copper	24.	1.0	mg/kg	6010B	11/01/08	1
Lead	11.	0.25	mg/kg	6010B	11/04/08	1
Molybdenum	2.1	0.25	mg/kg	6010B	11/01/08	1
Nickel	15.	1.0	mg/kg	6010B	11/01/08	1
Selenium	BDL	5.0	mg/kg	6010B	11/04/08	5
Silver	BDL	0.50	mg/kg	6010B	11/01/08	1
Zinc	57.	1.5	mg/kg	6010B	11/01/08	1
Benzene	0.0046	0.0025	mg/kg	8021/8015	10/31/08	5
Toluene	BDL	0.025	mg/kg	8021/8015	10/31/08	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	10/31/08	5
Total Xylene	0.0090	0.0075	mg/kg	8021/8015	10/31/08	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	10/31/08	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	94.1		% Rec.	8021/8015	10/31/08	5
a,a,a-Trifluorotoluene (PID)	99.6		% Rec.	8021/8015	10/31/08	5
TPH (GC/FID) High Fraction	150	4.0	mg/kg	3546/DRO	11/03/08	1
Surrogate recovery(%)						
o-Terphenyl	120.		% Rec.	3546/DRO	11/03/08	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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Reported: 11/05/08 11:17 Printed: 11/05/08 13:42
L372325-01 (PH) - 8.4@20.5c



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REPORT OF ANALYSIS

David Spencer
OXY USA - Grand Junction, CO
2754 Compass Dr., Ste. 170
Grand Junction, CO 81506

November 05, 2008

Date Received : October 30, 2008
Description : Pit Bottom Sampling

Sample ID : 697-16D 0-6 IN

Collected By : David Spencer
Collection Date : 10/29/08 09:30

ESC Sample # : L372325-02

Site ID :

Project # : 7830-220

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
SPLP Extraction	-			1312	11/01/08	1
Boron	0.22	0.20	mg/l	6010B	11/03/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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Reported: 11/05/08 11:17 Printed: 11/05/08 13:42

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L372325-01	WG391516	SAMP	Selenium	R526729	0

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
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

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- 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.

Summary of Remarks For Samples Printed
11/05/08 at 13:42:33

TSR Signing Reports: 134
R4 - Rush: Three Day

expect MSA

Sample: L372325-01 Account: OXYGJCO Received: 10/30/08 09:00 Due Date: 11/06/08 00:00 RPT Date: 11/05/08 11:17

Sample: L372325-02 Account: OXYGJCO Received: 10/30/08 09:00 Due Date: 11/06/08 00:00 RPT Date: 11/05/08 11:17
Please rotate for BICP.

Company Name/Address:

OXY USA - Grand Junction, CO

2754 Compass Dr., Ste. 170
Grand Junction, CO 81506

Report to:

David Spencer

Project

Description: *P. + Bottom Symping*

Phone: (970) 263-3601

FAX:

Client Project #:

7830-220

Collected by:

David Spencer

Site/Facility ID#:

P.O.#:

Collected by (signature):

D. Spencer
Immediately
Packed on Ice N ☒ Y ☒

☒ Rush? (Lab MUST Be Notified)

Same Day.....200%
☒ Next Day.....100%
Two Day.....50%
Three Day.....25%

Date Results Needed:

Email? ☐ No ☐ Yes
FAX? ☐ No ☐ Yes

No. of Cntrs

1

Sample ID

697-16D

Comp/Grab

Comp SS

Depth

0-8" 9:30

Date

Time

Alternate billing information:

Email to:

dspencer@oxygenusa.com

City/State

Collected *De Beque, Colorado*

ESC Key:

Analysis/Container/Preservative

TH - DBO and CPO

PH

SAZ

EC

BTEX

AS, Bz, Cd, Cr, Cu

Pb, Hg, Mn, Ni, Se, Ag, Zn

SPLB BOD

Prepared by:

D004



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Mt. Juliet, TN 37122

Phone (615) 758-5858

Phone (800) 767-5859

FAX (615) 758-5859

CoCode: OXYG-000 (lab-use only)

Template/Prelogin

Shipped Via:

Remarks/Contaminant

Sample # (lab only)

637-315-21

*Matrix SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH

Temp

Remarks:

9612 7457 5908 Flow

Other

Relinquished by: (Signature)

D. Spencer

Date: *10/29/08*

Received by: (Signature)

FedEx

Time: *1700*

Received by: (Signature)

[Signature]

Date: *10/29/08*

Received by: (Signature)

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Time: *1700*

Received by: (Signature)

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Date: *10/29/08*

Received by: (Signature)

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Time: *1700*

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Date: *10/29/08*

Received by: (Signature)

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