



OXY USA WTP LP

760 Horizon Dr., Suite 101
Grand Junction, CO 81506
Phone 970.263.3600

697-09-61 (Conn Camp)
January - June 2010 Summary of Events

July 15, 2010



Prepared by:

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Sr. HES Specialist

Reviewed by:

Alonzo Hernandez
HES Lead Mid-Continent



1.0 Location:

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

697-09-61
T6S, R97W, S9, SWSE
Garfield County, Colorado

2.0 Executive Summary:

This initial 2010 quarterly status report was to document release monitoring and interim remedial actions at OXY USA WTP LP's ("OXY") Cascade Creek 697-09-61 well pad and adjacent unnamed drainage. The well pad is situated east of an unnamed creek, and the release has extended to the drainage near a rancher's cabin (Conn Camp) located along the west unnamed creek. The well pad, Conn Camp, and the area upon which the release occurred and surfaced are located on property owned by OXY.

In 2010, OXY has completed interim remedial activities at the site, including:

- Surface water monitoring
- Monitoring of impoundment conditions
- Placement and injection oxidizing compounds to augment remediation

The results of the June 2010 sampling event indicated that all sample results were below the Maximum Contaminant Level (MCL). Furthermore, the point of compliance (Map ID 10) along Cascade Canyon, below Dam #2 (Map ID 9), has never exceeded drinking water standards for hydrocarbons.

The overall reduction of hydrocarbons concentrations by over one order of magnitude indicates the efficacy of OXY's interim remedial activities. On May 24 and June 22, 2010, OXY applied to injected treatments of in-situ chemical oxidation compounds into the release point. In-situ chemical oxidation applications will resume monthly through August 2010.

Analytical results from total dissolved solids (TDS) samples collected at the site have exceeded the secondary drinking water standard of 500 mg/L at some sampling locations and times. Regional surface water naturally contains background concentrations of dissolved solids.

3.0 Interim Remedial and Monitoring Activities:

During October and November of 2009, OXY prepared the impoundments for winter by adding a mixture of ORC-Advance® (a proprietary oxygen releasing compound manufactured by Regenesys) and crusher fines (a washed gravel and sand mixture). This created an area for active bioremediation that water entering the impoundments filtered through.

During the winter months (December 2009 through April, 2010) monthly site visits were conducted (depending upon accessibility) by OXY personnel to collect water samples for laboratory analyses. The impoundments were observed to ensure they were capturing flow and preventing further releases to the environment. By April 2010, access to the sampling locations were improved and all locations were sampled. Impoundment overflow was observed at the North Trench (Map ID 2) in April 2010. Impound bypass was observed at the S2 Trench (Map ID 11). Based on the analytical results being below the Maximum Contaminant Level (MCL) at Dam 2 (Map ID 9) and the Creek Confluence/Point of Compliance (Map ID 10), the overflowing/bypassing of the North Trench and S2 Trench was allowed to continue.



5.0 Water Monitoring – 2010:

A total of 6 sampling events were conducted from January to June of 2010. The sampling events were conducted on the following dates:

- January 28, 2010
- February 22, 2010
- March 25, 2010
- April 28, 2010
- May 27, 2010
- June 24, 2010

Sampling was limited during the January, February, and March visits due to snow accumulation and ice. In January and February, only the Water Trough (map ID 4), Creek Confluence/Point of Compliance (Map ID 10), and Upstream, South Y (Map ID 12) were accessible for sampling. In March, the Creek (map ID 37) and Seep Upgradient of 10 (Map ID 10u) were additionally sampled.

Samples were collected by OXY personnel on a regular basis as accessible. Locations sampled in 2010 are identified in the following table, along with their corresponding Map Identifiers (see Appendix A).

Not all of the seeps extending toward the South trenches (S1 and S2 areas) were being captured during the spring run-off, as visually observed during the sampling events. Samples were periodically collected from the creek downstream of the impoundments (Map ID 37). In 2010, the creek sample (Map ID 37) was not detected above any MCL's.

Dam 2 (Map ID 9) and the point of compliance location (Map ID 10) were consistently sampled. They are located on the west unnamed creek immediately upstream of its confluence with Cascade Canyon, and immediately downgradient, after the confluence.

Map ID	Sample Location	Location Description
39a	Core Springs A	Spring identified along east unnamed creek
39b	Core Springs B	Spring identified along east unnamed creek
39c	Core Springs C	Spring identified along east unnamed creek
39_conf	Core Springs Confluence	Confluence of Core Springs A, B, and C
1u	Upstream (Conn Camp)	Upgradient sample location (Background location)
1	Upstream Spring	Seep into west unnamed creek (upgradient of Conn Camp)
2	North Trench	Trench intercepting northern seep from suspected release
32	Latham Spring Pond	Constructed in-stream pond for Cattle near Conn Camp
33	Latham-Spring-Fresh	Spring that feeds Water Trough and Conn Camp cabin
4	Water Trough	Water Trough associated with ranching activities
7	S1 Trench	Trench intercepting southern seep from suspected release
11	S2 Trench	Trench intercepting southern seep from suspected release
37	Creek	West unnamed creek by S2 Trench impoundments
9	Dam 2	Lower dam in west unnamed creek
10	Point of Compliance/Creek Confluence	Confluence of west unnamed creek with Cascade Canyon
12	Upstream, South Y	Cascade Creek upgradient from Location #10 and #10u
10u	Seep Upgradient of 10	Seep along Cascade Canyon, Upgradient from location #10
40	Cascade Canyon-Core Creek Confluence	Confluence of Cascade Canyon and East Creek

6.0 Water Quality Results:



Monthly water quality sampling typically consists of sampling for BTEX/GRO. Furthermore, field parameters (TDS, EC, pH, and temperature) are collected utilizing a calibrated Hanna Instruments HI991300. A 'long list' sampling event was conducted on May 28, 2010. The long list analytes included: BTEX/GRO, nitrate, chlorides, sulfates, alkalinity, TDS, arsenic, barium, cadmium, chromium, cadmium, calcium, lead, magnesium, potassium, molybdenum, selenium, silver, sodium, BOD, COD, DO, ORP, o-phosphate, TOC, copper, iron, and zinc. The 'long list' results were submitted to Walsh Environmental for interpretation. . Walsh Environmental determined that the remedial activities have not increased the mobility of potentially hazardous metals because geochemical parameters such as calcium and sulfate concentrations have remained consistent to initial concentrations before remedial activities were initiated. The reported concentrations of dissolved oxygen (DO) and oxygen reduction potential (ORP) are favorable for bioremediation to occur.

Petroleum hydrocarbons were detected at concentrations greater than MCLs only at the impoundment locations including the North Trench (Map ID 2), S1 Trench (Map ID 7), and the S2 Trench (Map ID 11). Furthermore, all three of these locations were below the MCL's at the last sampling event. All other sample locations were below the MCL. A 2010 historical perspective is provided below of these exceedances.

N Trench (#2)						
Date	Benzene (MCL= 0.005 mg/L)	Toluene (MCL= 0.56 to 1 mg/L)	Ethylbenzene (MCL= 0.7 mg/L)	Xylenes (MCL= 1.4 to 10 mg/L)	GRO (No MCL)	TDS
04/28/2010	0.053	0.0035	0.011	0.24	1.6	460
05/27/2010	0.040	<0.00021	0.0082	0.18	1.4	352/460
06/24/2010	0.0015	<0.00021	0.00043	0.0032	<0.040	327

S1 Trench (#7)						
Date	Benzene (MCL= 0.005 mg/L)	Toluene (MCL= 0.56 to 1 mg/L)	Ethylbenzene (MCL= 0.7 mg/L)	Xylenes (MCL= 1.4 to 10 mg/L)	GRO (No MCL)	TDS
04/28/2010	0.0097	<0.00021	0.0048	0.037	0.25	433/520
05/27/2010	0.0023	<0.00021	<0.00021	0.0015	<0.040	433/520
06/24/2010	0.0028	<0.00021	<0.00021	0.0016	<0.040	370

S2 Trench (#11)						
Date	Benzene (MCL= 0.005 mg/L)	Toluene (MCL= 0.56 to 1 mg/L)	Ethylbenzene (MCL= 0.7 mg/L)	Xylenes (MCL= 1.4 to 10 mg/L)	GRO (No MCL)	TDS
04/28/2010	0.0067	<0.00021	0.001	0.013	<0.040	530/630
05/27/2010	0.0018	<0.00021	0.0002	0.0018	<0.040	530/630
06/24/2010	0.0021	<0.00021	<0.00021	0.0023	<0.040	466

Additionally, minor hydrocarbon impacts detected below the MCLs were observed in several additional locations including Core Springs A (#39a), Core Springs, Confluence (#39_conf), Latham-Spring-Pond (#32), Creek (#37), and Upstream, South Y (#12).

Core Springs A (Map ID 39)						
Date	Benzene (MCL= 0.005 mg/L)	Toluene (MCL= 0.56 to 1 mg/L)	Ethylbenzene (MCL= 0.7 mg/L)	Xylenes (MCL= 1.4 to 10 mg/L)	GRO (No MCL)	TDS
04/16/2009	<0.00016	<0.0016	<0.00016	0.0025	<0.033	288



04/30/2009	<0.00016	<0.0016	<0.00016	0.00059	0.034	320
04/28/2010	<0.00013	0.00027	<0.00021	<0.00043	<0.040	260

Core Springs, Confluence (Map ID 39_conf)

Date	Benzene (MCL= 0.005 mg/L)	Toluene (MCL= 0.56 to 1 mg/L)	Ethylbenzene (MCL= 0.7 mg/L)	Xylenes (MCL= 1.4 to 10 mg/L)	GRO (No MCL)	TDS
05/27/2010	0.002	0.00022	0.0019	0.012	0.076	260
06/24/2010	0.003	<0.00021	0.0025	0.012	0.26	268

Latham-Spring-Pond (Map ID 32)

Date	Benzene (MCL= 0.005 mg/L)	Toluene (MCL= 0.56 to 1 mg/L)	Ethylbenzene (MCL= 0.7 mg/L)	Xylenes (MCL= 1.4 to 10 mg/L)	GRO (No MCL)	TDS
04/28/2010	0.0019	0.00027	0.0011	0.0061	<0.040	266
05/27/2010	0.00086	<0.00021	0.0012	0.0053	<0.040	272
06/24/2010	0.00069	<0.00021	0.0011	0.0037	<0.040	276

Creek (Map ID 37)

Date	Benzene (MCL= 0.005 mg/L)	Toluene (MCL= 0.56 to 1 mg/L)	Ethylbenzene (MCL= 0.7 mg/L)	Xylenes (MCL= 1.4 to 10 mg/L)	GRO (No MCL)	TDS
03/25/2010	0.0049	<0.00021	0.0012	0.0091	<0.040	373
04/28/2010	0.0025	<0.00021	0.0011	0.013	<0.040	286
05/27/2010	0.0026	<0.00021	0.0013	0.0083	<0.040	245
06/24/2010	0.0016	<0.00021	0.00043	0.0032	<0.040	319

Upstream, South Y (Map ID 12)

Date	Benzene (MCL= 0.005 mg/L)	Toluene (MCL= 0.56 to 1 mg/L)	Ethylbenzene (MCL= 0.7 mg/L)	Xylenes (MCL= 1.4 to 10 mg/L)	GRO (No MCL)	TDS
01/28/2010	0.00019	0.00024	<0.00021	0.0012	<0.040	NA
02/22/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	314
03/25/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	300
04/28/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	256
05/27/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	255
06/25/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	291

Furthermore, there were no detectable hydrocarbons at Core Springs B (Map ID 39b), Core Springs C (Map ID 39c), Upstream (Conn Camp) (Map ID 1u), Upstream Spring (Map ID 1), Latham-Spring-Fresh (Map ID 33), Water Trough (Map ID 4), Seep Upgradient of 10 (Map ID 10u), Cascade Canyon-Core Creek Confluence (Map ID 40), Dam 2 (Map ID 9), or the Creek Confluence/Point of Compliance (Map ID 10).

Core Springs B (Map ID 39b)

Date	Benzene (MCL= 0.005 mg/L)	Toluene (MCL= 0.56 to 1 mg/L)	Ethylbenzene (MCL= 0.7 mg/L)	Xylenes (MCL= 1.4 to 10 mg/L)	GRO (No MCL)	TDS
04/28/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	243

**Core Springs C (Map ID 39c)**

Date	Benzene (MCL= 0.005 mg/L)	Toluene (MCL= 0.56 to 1 mg/L)	Ethylbenzene (MCL= 0.7 mg/L)	Xylenes (MCL= 1.4 to 10 mg/L)	GRO (No MCL)	TDS
04/28/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	314

Upstream (Conn Camp) (Map ID 1u)

Date	Benzene (MCL= 0.005 mg/L)	Toluene (MCL= 0.56 to 1 mg/L)	Ethylbenzene (MCL= 0.7 mg/L)	Xylenes (MCL= 1.4 to 10 mg/L)	GRO (No MCL)	TDS
04/28/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	244
06/24/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	293

Upstream Spring (Map ID 1)

Date	Benzene (MCL= 0.005 mg/L)	Toluene (MCL= 0.56 to 1 mg/L)	Ethylbenzene (MCL= 0.7 mg/L)	Xylenes (MCL= 1.4 to 10 mg/L)	GRO (No MCL)	TDS
04/28/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	266
05/27/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	290/380

Latham-Spring-Fresh (Map ID 33)

Date	Benzene (MCL= 0.005 mg/L)	Toluene (MCL= 0.56 to 1 mg/L)	Ethylbenzene (MCL= 0.7 mg/L)	Xylenes (MCL= 1.4 to 10 mg/L)	GRO (No MCL)	TDS
04/28/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	266

Water Trough (Map ID 4)

Date	Benzene (MCL= 0.005 mg/L)	Toluene (MCL= 0.56 to 1 mg/L)	Ethylbenzene (MCL= 0.7 mg/L)	Xylenes (MCL= 1.4 to 10 mg/L)	GRO (No MCL)	TDS
01/28/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	-
02/22/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	345
03/25/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	347
04/28/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	268
05/27/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	262
06/24/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	290

Seep Upgradient of 10 (Map ID 10u)

Date	Benzene (MCL= 0.005 mg/L)	Toluene (MCL= 0.56 to 1 mg/L)	Ethylbenzene (MCL= 0.7 mg/L)	Xylenes (MCL= 1.4 to 10 mg/L)	GRO (No MCL)	TDS
04/28/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	244

Cascade Canyon-Core Creek Confluence (Map ID 40)

Date	Benzene (MCL= 0.005 mg/L)	Toluene (MCL= 0.56 to 1 mg/L)	Ethylbenzene (MCL= 0.7 mg/L)	Xylenes (MCL= 1.4 to 10 mg/L)	GRO (No MCL)	TDS
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04/28/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	259
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Dam 2 (Conn Camp) (Map ID 9)

Date	Benzene (MCL= 0.005 mg/L)	Toluene (MCL= 0.56 to 1 mg/L)	Ethylbenzene (MCL= 0.7 mg/L)	Xylenes (MCL= 1.4 to 10 mg/L)	GRO (No MCL)	TDS
04/28/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	358/440
05/27/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	358/440
06/24/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	404

Creek Confluence/Point of Compliance (Map ID 10)

Date	Benzene (MCL= 0.005 mg/L)	Toluene (MCL= 0.56 to 1 mg/L)	Ethylbenzene (MCL= 0.7 mg/L)	Xylenes (MCL= 1.4 to 10 mg/L)	GRO (No MCL)	TDS
01/28/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	-
02/22/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	262
03/25/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	313
04/28/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	260
05/27/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	260
06/25/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	295

TDS results for samples collected at the site generally were below the secondary drinking water standard of 500 mg/L. Minor TDS elevations were observed at the S1 Trench (Map ID 7) and S2 Trench (Map ID 11). The complete laboratory analytical reports are provided in Appendix B.

7.0 In-Situ Chemical Oxidation Applications:

RegenOx®, a proprietary in-situ chemical oxidation (ISCO) compound manufactured by Regenesis, was applied in the vicinity of the former pit on the well pad. ISCO applications were completed according to the following schedule:

ISCO Application Schedule

Injection	Total lbs RegenOx	lbs Part A	lbs Part B	Water needed Part A	Water needed Part B	Status
1	500	500	0	1140	0	Completed 05/24/2010
2	500	500	0	1140	0	Completed 06/22/2010

OXY intends to inject Part A in July and August of 2010.

ISCO was injected into a partially buried pipe that was placed under the lined production pit in the vicinity of the fractures related to the release. The pipe readily accepted solutions indicating successful infiltration of the solution into the area of concern.

8.0 Conclusions:

The concentrations of hydrocarbons detected in the water samples collected from the 697-09-61 Pad vicinity initially exhibited a increase during the run-off season. Since the initial influx, the levels continue to exhibit a decreasing trend and all results were below the MCL in June 2010. Water samples from the point of compliance (Map ID 10) have never exceeded drinking water standards for hydrocarbons. The reduction of hydrocarbons indicates the overall efficacy of OXY's interim remedial activities. On May 24, 2010 and June 22, 2010, OXY



injected in-situ chemical oxidation compounds into the release point. ISCO applications will continue in July and August of 2010. OXY will continue to monitor the water levels and collect water samples on a monthly basis, as weather permits.

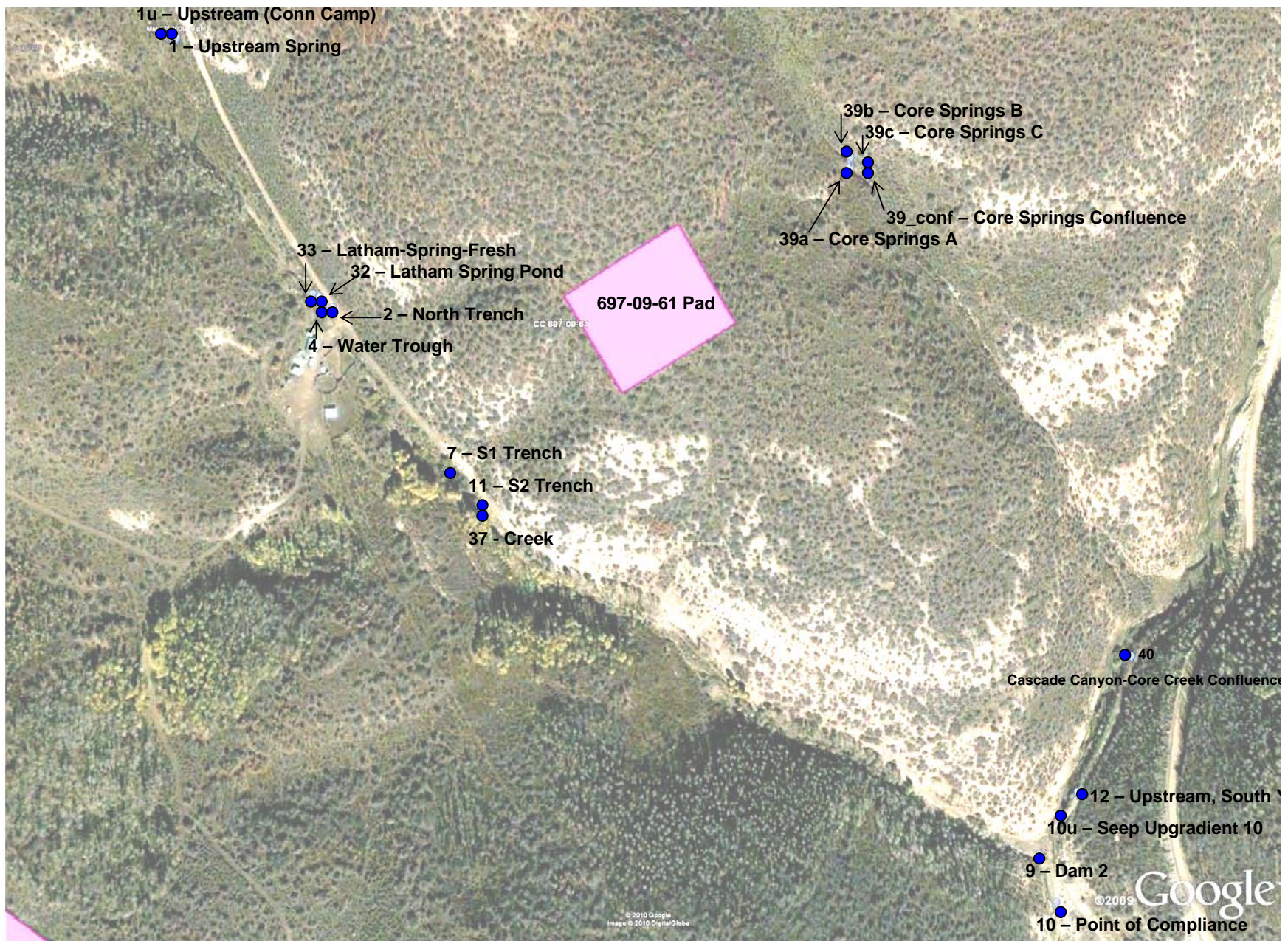
OXY plans to evaluate the condition of the impoundments in the Fall of 2010 and will repair or modify them as necessary. A progress report for the release will be prepared for the third quarter and a year end report will be prepared at the end of 2010 that will detail sampling, remediation efforts, and other information collected during 2010.



OXY USA WTP LP

760 Horizon Dr., Suite 101
Grand Junction, CO 81506
Phone 970.263.3600

Appendix A






OXY USA WTP LP

760 Horizon Dr., Suite 101
Grand Junction, CO 81506
Phone 970.263.3600

Appendix B

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				Chain of Custody Page <u>1</u> of <u>1</u> A002  ENVIRONMENTAL SCIENCE CORP. 12065 Lebanon Road Mt. Juliet, TN 37122 Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859	
Report to: <u>Brett Kennedy</u>				Email to: <u>brett.kennedy@oxy.com</u>				<div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX/6RO</div>				CoCode: OXYWTPGJ (lab use only) Template/Prelogin Shipped Via:	
Project Description: <u>09-61</u>				City/State Collected: <u> </u>									
Phone: (970) 263-3601		Client Project #: <u> </u>		ESC Key: <u> </u>									
FAX: (970) 201-2305		Site/Facility ID#: <u> </u>		P.O.#: <u> </u>									
Collected by: <u>Brett Kennedy</u>													
Collected by (signature): <u>Brett Kennedy</u> Immediately Packed on Ice N <u> </u> Y <u> </u> <input checked="" type="checkbox"/>				<div><input checked="" type="checkbox"/> Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day.....200% <input type="checkbox"/> Next Day.....100% <input type="checkbox"/> Two Day.....50% <input type="checkbox"/> Three Day.....25%</div>		<div>Date Results Needed: Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input type="checkbox"/> Yes</div>		No. of Cntrs		Remarks/Contaminant		Sample # (lab only)	
Sample ID		Comp/Grab	Matrix*	Depth	Date	Time							
#4 Water Trough		6ro6	SW	0-6"	01/28/10	1050	2						
#10 Confluence		↓	↓	↓	↓	1115	2						
#12 Upstream South Y		↓	↓	↓	↓	1122	2						



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Est. 1970

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

Grand Junction, CO 81506

Report Summary

Thursday February 04, 2010

Report Number: L442751

Samples Received: 01/30/10

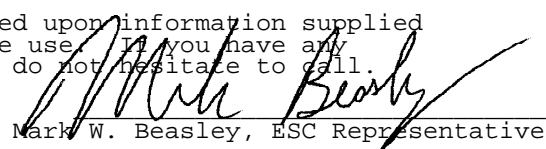
Client Project: 09-61

Description: 09-61

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:

Laboratory Certification Numbers


Mark W. Beasley, ESC Representative

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



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

February 04, 2010

Date Received : January 30, 2010
Description : 09-61

Sample ID : 4 WATER TROUGH

Collected By : Brett Kennedy
Collection Date : 01/28/10 10:50

ESC Sample # : L442751-01

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	02/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	02/02/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	02/02/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	02/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	02/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	99.1			% Rec.		8021/80	02/02/10	1
a,a,a-Trifluorotoluene(PID)	101.			% Rec.		8021/80	02/02/10	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: 02/04/10 11:49 Printed: 02/04/10 11:49



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Est. 1970

REPORT OF ANALYSIS

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

February 04, 2010

Date Received : January 30, 2010
Description : 09-61

Sample ID : 10 CONFLUENCE

Collected By : Brett Kennedy
Collection Date : 01/28/10 11:15

ESC Sample # : L442751-02

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	02/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	02/02/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	02/02/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	02/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	02/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	98.5			% Rec.		8021/80	02/02/10	1
a,a,a-Trifluorotoluene(PID)	101.			% Rec.		8021/80	02/02/10	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: 02/04/10 11:49 Printed: 02/04/10 11:49



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Est. 1970

REPORT OF ANALYSIS

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

February 04, 2010

Date Received : January 30, 2010
Description : 09-61

Sample ID : 12 UPSTREAM SOUTH Y

Collected By : Brett Kennedy
Collection Date : 01/28/10 11:22

ESC Sample # : L442751-03

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.00019	0.00013	0.00050	mg/l	J	8021/80	02/02/10	1
Toluene	0.00024	0.00021	0.0050	mg/l	J	8021/80	02/02/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	02/02/10	1
Total Xylene	0.0012	0.00043	0.0015	mg/l	J	8021/80	02/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	02/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	99.1			% Rec.		8021/80	02/02/10	1
a,a,a-Trifluorotoluene(PID)	101.			% Rec.		8021/80	02/02/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 02/04/10 11:49 Printed: 02/04/10 11:49

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L442751-03	WG461373	SAMP	Benzene	R1100008	J
	WG461373	SAMP	Toluene	R1100008	J
	WG461373	SAMP	Total Xylene	R1100008	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.

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
02/04/10 at 11:49:38

TSR Signing Reports: 134
R5 - Desired TAT

Sample: L442751-01 Account: OXYWTPGJCO Received: 01/30/10 17:15 Due Date: 02/05/10 00:00 RPT Date: 02/04/10 11:49

Sample: L442751-02 Account: OXYWTPGJCO Received: 01/30/10 17:15 Due Date: 02/05/10 00:00 RPT Date: 02/04/10 11:49

Sample: L442751-03 Account: OXYWTPGJCO Received: 01/30/10 17:15 Due Date: 02/05/10 00:00 RPT Date: 02/04/10 11:49

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				Chain of Custody Page 1 of 1 Prepared by: F113 ENVIRONMENTAL SCIENCE CORP. 12065 Lebanon Road Mt. Juliet, TN 37122 Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859			
Report to: <i>Brett Kennedy</i>				Email to: <i>brett-kennedy@oxy.com</i>											
Project Description: <i>09-61</i>				City/State Collected: <i>—</i>											
Phone: (970) 263-3601 FAX: (970) 201-2305		Client Project #: <i>—</i>		ESC Key: <i>—</i>											
Collected by: <i>Brett Kennedy</i>		Site/Facility ID#: <i>—</i>		P.O.#: <i>—</i>											
Collected by (signature): <i>Brett Kennedy</i> Immediately Packed on Ice N <i>—</i> Y <i>—</i>		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day. 200% <input type="checkbox"/> Next Day. 100% <input type="checkbox"/> Two Day. 50% <input type="checkbox"/> Three Day. 25%		Date Results Needed: Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		No. of Cntrs		BTEX 16K0		CoCode OXYWTPGJ (lab use only) Template/Prelogin Shipped Via:		Remarks/Contaminant		Sample # (lab only)	
Sample ID		Comp/Grab		Matrix*		Depth		Date		Time					
<i>#4 Water Trough</i>		<i>grab</i>		<i>6w</i>		<i>0-6"</i>		<i>01/22/10</i>		<i>1100</i>		<i>KD X2</i>		<i>✓</i>	
<i>#10 Confluence</i>		<i>↓</i>		<i>↓</i>		<i>↓</i>		<i>↓</i>		<i>1130</i>		<i>KD X2</i>		<i>✓</i>	
<i>#12 Lugs Creek South Y</i>		<i>↓</i>		<i>↓</i>		<i>↓</i>		<i>↓</i>		<i>1141</i>		<i>KD X2</i>		<i>✓</i>	

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

Remarks: *surface water* Flow _____ Other _____

Relinquished by: (Signature) <i>Brett Kennedy</i>	Date: <i>01/23/10</i>	Time: <i>1612</i>	Received by: (Signature) 	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier		Condition: (lab use only) <i>OK</i>	
	Relinquished by: (Signature)	Date:		Time:	Received by: (Signature)	Temp: <i>3.9°</i>	Bottles Received: <i>6v</i>
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) 	Date: <i>2-24-10</i>	Time: <i>09:00</i>	pH Checked:	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

Monday March 01, 2010

Report Number: L446340

Samples Received: 02/24/10

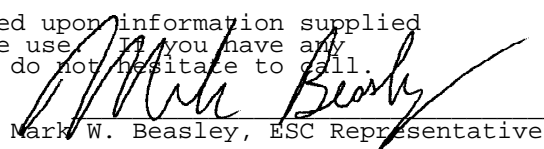
Client Project:

Description: 09-61

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:

Laboratory Certification Numbers


Mark W. Beasley, ESC Representative

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

3 Samples Reported: 03/01/10 10:17 Printed: 03/01/10 10:17

Page 1 of 4



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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

March 01, 2010

Date Received : February 24, 2010
Description : 09-61

Sample ID : 4 WATER TROUGH 0-6 IN

Collected By : Brett Kennedy
Collection Date : 02/22/10 11:00

ESC Sample # : L446340-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	02/26/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	02/26/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	02/26/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	02/26/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	02/26/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	92.6			% Rec.		8021/80	02/26/10	1
a,a,a-Trifluorotoluene(PID)	95.0			% Rec.		8021/80	02/26/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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

March 01, 2010

Date Received : February 24, 2010
Description : 09-61

Sample ID : 10 CONFLUENCE 0-6 IN

Collected By : Brett Kennedy
Collection Date : 02/22/10 11:30

ESC Sample # : L446340-02

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	02/26/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	02/26/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	02/26/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	02/26/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	02/26/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	93.9			% Rec.		8021/80	02/26/10	1
a,a,a-Trifluorotoluene(PID)	95.9			% Rec.		8021/80	02/26/10	1

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MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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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

March 01, 2010

Date Received : February 24, 2010
Description : 09-61

ESC Sample # : L446340-03

Sample ID : 12 UPSTREAM SOUTH Y 0-6 IN

Site ID :

Collected By : Brett Kennedy
Collection Date : 02/22/10 11:41

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	02/26/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	02/26/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	02/26/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	02/26/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	02/26/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	92.6			% Rec.		8021/80	02/26/10	1
a,a,a-Trifluorotoluene(PID)	95.1			% Rec.		8021/80	02/26/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Summary of Remarks For Samples Printed
03/01/10 at 10:17:41

TSR Signing Reports: 134
R5 - Desired TAT

Sample: L446340-01 Account: OXYWTPGJCO Received: 02/24/10 09:00 Due Date: 03/03/10 00:00 RPT Date: 03/01/10 10:17

Sample: L446340-02 Account: OXYWTPGJCO Received: 02/24/10 09:00 Due Date: 03/03/10 00:00 RPT Date: 03/01/10 10:17

Sample: L446340-03 Account: OXYWTPGJCO Received: 02/24/10 09:00 Due Date: 03/03/10 00:00 RPT Date: 03/01/10 10:17

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				Chain of Custody Page <u>1</u> of <u>1</u> A239 ENVIRONMENTAL SCIENCE CORP. 12065 Lebanon Road Mt. Juliet, TN 37122 Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859		
Report to: <u>Brett Kennedy</u>			Email to: <u>brett.kennedy@oxy.com</u>									
Project Description: <u>09-61</u>			City/State Collected: <u> </u>									
Phone: (970) 263-3601		Client Project #:		ESC Key:								
FAX: (970) 201-2305												
Collected by: <u>Brett Kennedy</u>		Site/Facility ID#:		P.O.#:								
Collected by (signature): Immediately Packed on Ice N <u> </u> Y <u> </u> <input checked="" type="checkbox"/>		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day 200% <input type="checkbox"/> Next Day 100% <input type="checkbox"/> Two Day 50% <input type="checkbox"/> Three Day 25%		Date Results Needed: Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		No. of Cntrs		CoCode: OXYWTPGJ (lab use only) Template/Prelogin Shipped Via:				
Sample ID		Comp/Grab	Matrix*	Depth	Date	Time					Remarks/Contaminant	Sample # (lab only)
#4 Water Trough		grab	SW	0-6'	3/25/10	1125	2	<input checked="" type="checkbox"/>				2451410 -01
#37 Creek		↓	↓	↓	↓	1140	2	<input checked="" type="checkbox"/>				-02
#10 Confluence		↓	↓	↓	↓	1158	2	<input checked="" type="checkbox"/>				-03
#12 hps stream south Y		↓	↓	↓	↓	1205	2	<input checked="" type="checkbox"/>				-04
#10u Seep up gradient #10		↓	↓	↓	↓	1211	2	<input checked="" type="checkbox"/>				-05

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

Remarks: Surface Water 8688 6671 10% Flow Other

Relinquished by: (Signature) 	Date:	Time:	Received by: (Signature) 	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/> _____		Condition: (lab use only) <u>OK</u>	
	Date:	Time:		Temp: <u>2.5</u>	Bottles Received: <u>10v</u>	CoC Seals Intact <u> </u> Y <u> </u> N <u> </u> NA	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:	pH Checked:	NCF:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <u>Ken Wolen</u>	Date: <u>3/27/10</u>	Time: <u>0900</u>		



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

Report Summary

Thursday April 01, 2010

Report Number: L451410

Samples Received: 03/27/10

Client Project: 09-61

Description:

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

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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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REPORT OF ANALYSIS

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

April 01, 2010

Date Received : March 27, 2010
Description :

Sample ID : 4 WATER TROUGH

Collected By : Brett Kennedy
Collection Date : 03/25/10 11:25

ESC Sample # : L451410-01

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	03/31/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	03/31/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	03/31/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	03/31/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	03/31/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	99.6			% Rec.		8021/80	03/31/10	1
a,a,a-Trifluorotoluene(PID)	100.			% Rec.		8021/80	03/31/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 04/01/10 14:33 Printed: 04/01/10 14:34



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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, 2010

Date Received : March 27, 2010
Description :

Sample ID : 37 CREEK

Collected By : Brett Kennedy
Collection Date : 03/25/10 11:40

ESC Sample # : L451410-02

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0049	0.00013	0.00050	mg/l		8021/80	03/31/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	03/31/10	1
Ethylbenzene	0.0012	0.00021	0.00050	mg/l		8021/80	03/31/10	1
Total Xylene	0.0091	0.00043	0.0015	mg/l		8021/80	03/31/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	03/31/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	100.			% Rec.		8021/80	03/31/10	1
a,a,a-Trifluorotoluene(PID)	100.			% Rec.		8021/80	03/31/10	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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REPORT OF ANALYSIS

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

April 01, 2010

Date Received : March 27, 2010
Description :

Sample ID : 10 CONFLUENCE

Collected By : Brett Kennedy
Collection Date : 03/25/10 11:58

ESC Sample # : L451410-03

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	03/31/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	03/31/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	03/31/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	03/31/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	03/31/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	99.3			% Rec.		8021/80	03/31/10	1
a,a,a-Trifluorotoluene(PID)	100.			% Rec.		8021/80	03/31/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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Est. 1970

REPORT OF ANALYSIS

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

April 01, 2010

Date Received : March 27, 2010
Description :

Sample ID : 12 UPSTREAM SOUTH Y

Collected By : Brett Kennedy
Collection Date : 03/25/10 12:05

ESC Sample # : L451410-04

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	03/31/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	03/31/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	03/31/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	03/31/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	03/31/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	99.4			% Rec.		8021/80	03/31/10	1
a,a,a-Trifluorotoluene(PID)	100.			% Rec.		8021/80	03/31/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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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, 2010

Date Received : March 27, 2010
Description :
Sample ID : 10U SEEP UPGRADIENT OF 10
Collected By : Brett Kennedy
Collection Date : 03/25/10 12:11

ESC Sample # : L451410-05

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	03/31/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	03/31/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	03/31/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	03/31/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	03/31/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	99.4			% Rec.		8021/80	03/31/10	1
a,a,a-Trifluorotoluene(PID)	100.			% Rec.		8021/80	03/31/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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Reported: 04/01/10 14:33 Printed: 04/01/10 14:34

Summary of Remarks For Samples Printed
04/01/10 at 14:34:17

TSR Signing Reports: 134
R5 - Desired TAT

Sample: L451410-01 Account: OXYWTPGJCO Received: 03/27/10 09:00 Due Date: 04/02/10 00:00 RPT Date: 04/01/10 14:33
Sample: L451410-02 Account: OXYWTPGJCO Received: 03/27/10 09:00 Due Date: 04/02/10 00:00 RPT Date: 04/01/10 14:33
Sample: L451410-03 Account: OXYWTPGJCO Received: 03/27/10 09:00 Due Date: 04/02/10 00:00 RPT Date: 04/01/10 14:33
Sample: L451410-04 Account: OXYWTPGJCO Received: 03/27/10 09:00 Due Date: 04/02/10 00:00 RPT Date: 04/01/10 14:33
Sample: L451410-05 Account: OXYWTPGJCO Received: 03/27/10 09:00 Due Date: 04/02/10 00:00 RPT Date: 04/01/10 14:33

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				Chain of Custody Page <u>2</u> of <u>2</u>	
Report to: <u>Brett Kennedy</u>			Email to: <u>brett.kennedy@oxy.com</u>			BTEX/6KO				Prepared by: ENVIRONMENTAL SCIENCE CORP. 12065 Lebanon Road Mt. Juliet, TN 37122 Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859	
Project Description: <u>09-61</u>			City/State Collected: <u> </u>							CoCode: OXYWTPGJ (lab use only)	
Phone: (970) 263-3601 FAX: (970) 201-2305		Client Project #: <u> </u>		ESC Key: <u> </u>						Template/Prelogin	
Collected by: <u>Brett Kennedy</u>		Site/Facility ID#: <u>✓</u>		P.O.#: <u> </u>						Shipped Via:	
Collected by (signature): <u>Brett Kennedy</u> Immediately Packed on Ice N <u> </u> Y <u>✓</u>		Rush? (Lab MUST Be Notified) <input checked="" type="checkbox"/> Same Day.....200% <input type="checkbox"/> Next Day.....100% <input type="checkbox"/> Two Day.....50% <input type="checkbox"/> Three Day.....25%		Date Results Needed: Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes						No. of Cntrs	
Sample ID		Comp/Grab	Matrix*	Depth	Date	Time			Remarks/Contaminant	Sample # (lab only)	
7 S1 Trench		Grab	SW	0-6"	4/28/10	1023	2	✓		C456641-10	
11 S2 Trench		↓	↓	↓	↓	1026	2	✓		11	
37 Creek		↓	↓	↓	↓	1032	2	✓		12	
9 Dam 2		↓	↓	↓	↓	1049	2	✓		13	
10 Creek Confluence		↓	↓	↓	↓	1054	2	✓		14	
12 Upstream South Y		↓	↓	↓	↓	1309	2	✓	*Same Day TAT	15	
2 Cascade Canyon - Corral Creek Cont		↓	↓	↓	↓	1315	2	✓	*Same Day TAT	16	

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

pH Temp

Remarks:

surface water

Flow Other

Relinquished by: (Signature) <u>Brett Kennedy</u>		Date: <u>4/29/10</u>	Time: <u>1725</u>	Received by: (Signature) <u>Jonah</u>		Samples returned via: <input checked="" type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/>		Condition: (lab use only) <u>OK</u>	
Relinquished by: (Signature) <u> </u>		Date: <u> </u>	Time: <u> </u>	Received by: (Signature) <u> </u>		Temp: <u>3.6°C</u>	Bottles Received: <u>32 ✓</u>	CoC Seals Intact <u> </u> Y <u> </u> N <u>✓</u> NA	
Relinquished by: (Signature) <u> </u>		Date: <u> </u>	Time: <u> </u>	Received for lab by: (Signature) <u>Jonah</u>		Date: <u>4/30/10</u>	Time: <u>0900</u>	pH Checked:	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

Wednesday May 05, 2010

Report Number: L456641


Samples Received: 04/30/10

Client Project: 09-61

Description: 09-61

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:


Jarred Willis , 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

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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

May 05, 2010

Date Received : April 30, 2010
Description : 09-61

Sample ID : 39A CORE SPRINGS A

Collected By : Brett Kennedy
Collection Date : 04/28/10 11:06

ESC Sample # : L456641-01

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	05/04/10	1
Toluene	0.00027	0.00021	0.0050	mg/l	J	8021/80	05/04/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	05/04/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	05/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	05/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	102.			% Rec.		8021/80	05/04/10	1
a,a,a-Trifluorotoluene(PID)	104.			% Rec.		8021/80	05/04/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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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

May 05, 2010

Date Received : April 30, 2010
Description : 09-61

Sample ID : 39B CORE SPRINGS B

Collected By : Brett Kennedy
Collection Date : 04/28/10 11:14

ESC Sample # : L456641-02

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	05/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	05/04/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	05/04/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	05/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	05/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	102.			% Rec.		8021/80	05/04/10	1
a,a,a-Trifluorotoluene(PID)	103.			% Rec.		8021/80	05/04/10	1

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MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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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

May 05, 2010

Date Received : April 30, 2010
Description : 09-61

Sample ID : 39C CORE SPRINGS C

Collected By : Brett Kennedy
Collection Date : 04/28/10 11:18

ESC Sample # : L456641-03

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	05/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	05/04/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	05/04/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	05/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	05/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	102.			% Rec.		8021/80	05/04/10	1
a,a,a-Trifluorotoluene(PID)	104.			% Rec.		8021/80	05/04/10	1

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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

May 05, 2010

Date Received : April 30, 2010
Description : 09-61

Sample ID : 1 UPSTREAM SPRING

Collected By : Brett Kennedy
Collection Date : 04/28/10 11:40

ESC Sample # : L456641-04

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	05/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	05/04/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	05/04/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	05/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	05/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	102.			% Rec.		8021/80	05/04/10	1
a,a,a-Trifluorotoluene(PID)	97.7			% Rec.		8021/80	05/04/10	1

U = ND (Not Detected)

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RDL = Reported Detection Limit = LOQ = PQL = EQL

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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

May 05, 2010

Date Received : April 30, 2010
Description : 09-61

Sample ID : 1U UPSTREAM

Collected By : Brett Kennedy
Collection Date : 04/28/10 11:44

ESC Sample # : L456641-05

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	05/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	05/04/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	05/04/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	05/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	05/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	103.			% Rec.		8021/80	05/04/10	1
a,a,a-Trifluorotoluene(PID)	103.			% Rec.		8021/80	05/04/10	1

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MDL = Minimum Detection Limit = LOD

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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

May 05, 2010

Date Received : April 30, 2010
Description : 09-61

Sample ID : 2 NORTH TRENCH

Collected By : Brett Kennedy
Collection Date : 04/28/10 11:57

ESC Sample # : L456641-06

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.053	0.00013	0.00050	mg/l		8021/80	05/04/10	1
Toluene	0.0035	0.00021	0.0050	mg/l	J	8021/80	05/04/10	1
Ethylbenzene	0.011	0.00021	0.00050	mg/l		8021/80	05/04/10	1
Total Xylene	0.24	0.00043	0.0015	mg/l		8021/80	05/04/10	1
TPH (GC/FID) Low Fraction	1.6	0.040	0.10	mg/l		GRO	05/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	97.4			% Rec.		8021/80	05/04/10	1
a,a,a-Trifluorotoluene(PID)	98.6			% Rec.		8021/80	05/04/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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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

May 05, 2010

Date Received : April 30, 2010
Description : 09-61

Sample ID : 32 LATHAM SPRING POND

Collected By : Brett Kennedy
Collection Date : 04/28/10 12:01

ESC Sample # : L456641-07

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0019	0.00013	0.00050	mg/l		8021/80	05/04/10	1
Toluene	0.00027	0.00021	0.0050	mg/l	J	8021/80	05/04/10	1
Ethylbenzene	0.0011	0.00021	0.00050	mg/l		8021/80	05/04/10	1
Total Xylene	0.0061	0.00043	0.0015	mg/l		8021/80	05/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	05/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	99.7			% Rec.		8021/80	05/04/10	1
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	05/04/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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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

May 05, 2010

Date Received : April 30, 2010
Description : 09-61

ESC Sample # : L456641-08

Sample ID : 33 LATHAM-SPRING-FRESH

Site ID :

Collected By : Brett Kennedy
Collection Date : 04/28/10 12:00

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	05/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	05/04/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	05/04/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	05/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	05/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	102.			% Rec.		8021/80	05/04/10	1
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	05/04/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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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

May 05, 2010

Date Received : April 30, 2010
Description : 09-61

Sample ID : 4 WATER TROUGH

Collected By : Brett Kennedy
Collection Date : 04/28/10 12:08

ESC Sample # : L456641-09

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	05/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	05/04/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	05/04/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	05/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	05/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	103.			% Rec.		8021/80	05/04/10	1
a,a,a-Trifluorotoluene(PID)	103.			% Rec.		8021/80	05/04/10	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: 05/05/10 16:51 Printed: 05/05/10 16:51



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

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

May 05, 2010

Date Received : April 30, 2010
Description : 09-61

Sample ID : 7 S1 TRENCH

Collected By : Brett Kennedy
Collection Date : 04/28/10 12:23

ESC Sample # : L456641-10

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0097	0.00013	0.00050	mg/l		8021/80	05/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	05/04/10	1
Ethylbenzene	0.0048	0.00021	0.00050	mg/l		8021/80	05/04/10	1
Total Xylene	0.037	0.00043	0.0015	mg/l		8021/80	05/04/10	1
TPH (GC/FID) Low Fraction	0.25	0.040	0.10	mg/l		GRO	05/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	99.7			% Rec.		8021/80	05/04/10	1
a,a,a-Trifluorotoluene(PID)	103.			% Rec.		8021/80	05/04/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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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

May 05, 2010

Date Received : April 30, 2010
Description : 09-61

Sample ID : 11 S2 TRENCH

Collected By : Brett Kennedy
Collection Date : 04/28/10 12:26

ESC Sample # : L456641-11

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0067	0.00013	0.00050	mg/l		8021/80	05/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	05/04/10	1
Ethylbenzene	0.0010	0.00021	0.00050	mg/l		8021/80	05/04/10	1
Total Xylene	0.013	0.00043	0.0015	mg/l		8021/80	05/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	05/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	101.			% Rec.		8021/80	05/04/10	1
a,a,a-Trifluorotoluene(PID)	103.			% Rec.		8021/80	05/04/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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

May 05, 2010

Date Received : April 30, 2010
Description : 09-61

Sample ID : 37 CREEK

Collected By : Brett Kennedy
Collection Date : 04/28/10 12:32

ESC Sample # : L456641-12

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0025	0.00013	0.00050	mg/l		8021/80	05/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	05/04/10	1
Ethylbenzene	0.0011	0.00021	0.00050	mg/l		8021/80	05/04/10	1
Total Xylene	0.013	0.00043	0.0015	mg/l		8021/80	05/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	05/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	102.			% Rec.		8021/80	05/04/10	1
a,a,a-Trifluorotoluene(PID)	103.			% Rec.		8021/80	05/04/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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

May 05, 2010

Date Received : April 30, 2010
Description : 09-61

Sample ID : 9 DAM 2

Collected By : Brett Kennedy
Collection Date : 04/28/10 12:49

ESC Sample # : L456641-13

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	05/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	05/04/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	05/04/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	05/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	05/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	102.			% Rec.		8021/80	05/04/10	1
a,a,a-Trifluorotoluene(PID)	103.			% Rec.		8021/80	05/04/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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

May 05, 2010

Date Received : April 30, 2010
Description : 09-61

Sample ID : 10 CREEK CONFLUENCE

Collected By : Brett Kennedy
Collection Date : 04/28/10 12:54

ESC Sample # : L456641-14

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	05/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	05/04/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	05/04/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	05/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	05/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	102.			% Rec.		8021/80	05/04/10	1
a,a,a-Trifluorotoluene(PID)	103.			% Rec.		8021/80	05/04/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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

May 05, 2010

Date Received : April 30, 2010
Description : 09-61

ESC Sample # : L456641-15

Sample ID : 12 UPSTREAM SOUTH Y

Site ID :

Collected By : Brett Kennedy
Collection Date : 04/28/10 13:09

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	04/30/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	04/30/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	04/30/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	04/30/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	04/30/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	101.			% Rec.		8021/80	04/30/10	1
a,a,a-Trifluorotoluene(PID)	92.1			% Rec.		8021/80	04/30/10	1

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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

May 05, 2010

Date Received : April 30, 2010
Description : 09-61

ESC Sample # : L456641-16

Sample ID : 2 CASCADE CANYON-CORE CREEK CONF

Site ID :

Collected By : Brett Kennedy
Collection Date : 04/28/10 13:15

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	04/30/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	04/30/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	04/30/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	04/30/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	04/30/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	101.			% Rec.		8021/80	04/30/10	1
a,a,a-Trifluorotoluene(PID)	92.3			% Rec.		8021/80	04/30/10	1

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MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L456641-01	WG476343	SAMP	Toluene	R1205828	J
L456641-06	WG476343	SAMP	Toluene	R1205828	J
L456641-07	WG476343	SAMP	Toluene	R1205828	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.

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
05/05/10 at 16:51:34

TSR Signing Reports: 134
R4 - Rush: Three Day

Sample: L456641-01 Account: OXYWTPGJCO Received: 04/30/10 09:00 Due Date: 05/05/10 00:00 RPT Date: 05/05/10 16:51
Sample: L456641-02 Account: OXYWTPGJCO Received: 04/30/10 09:00 Due Date: 05/05/10 00:00 RPT Date: 05/05/10 16:51
Sample: L456641-03 Account: OXYWTPGJCO Received: 04/30/10 09:00 Due Date: 05/05/10 00:00 RPT Date: 05/05/10 16:51
Sample: L456641-04 Account: OXYWTPGJCO Received: 04/30/10 09:00 Due Date: 05/05/10 00:00 RPT Date: 05/05/10 16:51
Sample: L456641-05 Account: OXYWTPGJCO Received: 04/30/10 09:00 Due Date: 05/05/10 00:00 RPT Date: 05/05/10 16:51
Sample: L456641-06 Account: OXYWTPGJCO Received: 04/30/10 09:00 Due Date: 05/05/10 00:00 RPT Date: 05/05/10 16:51
Sample: L456641-07 Account: OXYWTPGJCO Received: 04/30/10 09:00 Due Date: 05/05/10 00:00 RPT Date: 05/05/10 16:51
Sample: L456641-08 Account: OXYWTPGJCO Received: 04/30/10 09:00 Due Date: 05/05/10 00:00 RPT Date: 05/05/10 16:51
Sample: L456641-09 Account: OXYWTPGJCO Received: 04/30/10 09:00 Due Date: 05/05/10 00:00 RPT Date: 05/05/10 16:51
Sample: L456641-10 Account: OXYWTPGJCO Received: 04/30/10 09:00 Due Date: 05/05/10 00:00 RPT Date: 05/05/10 16:51
Sample: L456641-11 Account: OXYWTPGJCO Received: 04/30/10 09:00 Due Date: 05/05/10 00:00 RPT Date: 05/05/10 16:51
Sample: L456641-12 Account: OXYWTPGJCO Received: 04/30/10 09:00 Due Date: 05/05/10 00:00 RPT Date: 05/05/10 16:51
Sample: L456641-13 Account: OXYWTPGJCO Received: 04/30/10 09:00 Due Date: 05/05/10 00:00 RPT Date: 05/05/10 16:51
Sample: L456641-14 Account: OXYWTPGJCO Received: 04/30/10 09:00 Due Date: 05/05/10 00:00 RPT Date: 05/05/10 16:51
Sample: L456641-15 Account: OXYWTPGJCO Received: 04/30/10 09:00 Due Date: 04/30/10 00:00 RPT Date: 05/05/10 16:51
Sample: L456641-16 Account: OXYWTPGJCO Received: 04/30/10 09:00 Due Date: 04/30/10 00:00 RPT Date: 05/05/10 16:51

Company Name/Address:

Oxy USA WTP LP - Grand Junction, CO760 Horizon Dr.. Ste. 101
Grand Junction.CO 81506

Alternate billing information:

Analysis/Container/Preservative

D206

Chain of Custody
Page 1 of 2

Prepared by:

**ENVIRONMENTAL
SCIENCE CORP.**12065 Lebanon Road
Mt. Juliet, TN 37122

Phone (615) 758-5858

Phone (800) 767-5859

FAX (615) 758-5859

Report to: Brett KennedyEmail to: brett.kennedy@oxy.comProject
Description: 09-61City/State
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.
of
Cntrs

Immediately

Packed-on Ice N Y

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

Email? No ☒ YesFAX? ☒ No ☐ Yes

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	As	Ba	Ca	Co	Cu	Pb	Mo	Ni	Fe	Mg	Su	Cl	NO ₃	phosphate	DOC	TDS	CO ₂	BOD	BTEX	16C0	ORP	DO	Remarks/Contaminant	Sample # (lab only)
#39-cont Core Springs Landfill	grab	SW	0-6"	5/27/10	1115	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			L461755-01
#1 upstream Spring					1135	8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			L461755-02
#2 North Trench					1155	9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			03
#3a Latham Spring Pond					1205	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			04
#4 Water Trough					1210	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			05
#7 S1 Trench					1220	9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			06
#11 S2 Trench					1226	9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			07
#37 Creek					1230	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			08
#9 Dam d					1315	9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			09

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

pH _____ Temp _____

Remarks:

Surface Water

Other _____

Relinquished by: (Signature) <u>Brett Kennedy</u>	Date: <u>5/28/10</u>	Time: <u>1120</u>	Received by: (Signature) <u>[Signature]</u>	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: <u>OK</u> (lab use only)
Relinquished by: (Signature) <u>[Signature]</u>	Date:	Time:	Received by: (Signature) <u>[Signature]</u>	Temp: <u>5.4°C</u>	Bottles Received: <u>56</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date:	Time:	Received for lab by: (Signature) <u>[Signature]</u>	Date: <u>5/29/10</u>	Time: <u>0900</u>
				pH Checked:	NCF: <u>✓</u>

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 <div style="display: flex; justify-content: space-between; font-size: small;"> <div>As, Ba, Ca, Cr, Cu, Pb, Mo, Ni, Zn, Fe, Mg, Ca</div> <div>Sulfate, nitrate, phosphate</div> <div>TOC</div> <div>TDS</div> <div>COO, BOD</div> <div>BTEX 1680</div> <div>ORPADO</div> </div>			Chain of Custody Page 2 of 2 Prepared by: ENVIRONMENTAL SCIENCE CORP. 12065 Lebanon Road Mt. Juliet, TN 37122 Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859		
Report to: <u>Brett Kennedy</u>			Email to: <u>brett.kennedy@oxy.com</u>								
Project Description: <u>09-61</u>			City/State Collected: <u> </u>								
Phone: (970) 263-3601		Client Project #:		ESC Key:							
FAX: (970) 201-2305											
Collected by: <u>Brett Kennedy</u>		Site/Facility ID#:		P.O.#:							
Collected by (signature): <u>Brett Kennedy</u> Immediately Packed on Ice N <u> </u> Y <u> </u>		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day.....200% <input type="checkbox"/> Next Day.....100% <input type="checkbox"/> Two Day.....50% <input type="checkbox"/> Three Day.....25%		Date Results Needed: Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		No. of Cntrs					
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time						
#10 Creek Confluence	grab	SW	0-6"	5/12/10	1320	2					
#12 upstream, South Y	↓	↓	↓	↓	1327	2					

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

Remarks: Surface water Flow Other

Relinquished by: (Signature) <u>Brett Kennedy</u>	Date: <u>5/18/10</u>	Time: <u>1120</u>	Received by: (Signature) <u>Kenn Wollen</u>	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier		Condition: (lab use only)	
	Date:	Time:		Temp: <u>5.4"</u>	Bottles Received: <u>56</u>	CoC Seals Intact <u> </u> Y <u> </u> N <input checked="" type="checkbox"/> NA	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: <u>5/29/10</u>	Time: <u>0900</u>	pH Checked:	NCF: <input checked="" type="checkbox"/>

Mark

ENVIRONMENTAL SCIENCE CORP.

SAMPLE NON-CONFORMANCE FORM

Sample No.: ^{AI} ~~L461775~~ L461755

Date: 5/29/10

Evaluated by: Jonah

Client: OXYWTPGJCO

Non-Conformance (check applicable items)

- | | |
|---|--|
| <input type="checkbox"/> Chain of Custody is missing | <input checked="" type="checkbox"/> Login Clarification Needed |
| <input type="checkbox"/> Improper container type | <input type="checkbox"/> Improper preservation |
| <input type="checkbox"/> Chain of custody is incomplete | <input type="checkbox"/> Container lid not intact |
| <input type="checkbox"/> Parameter(s) past holding time | <input type="checkbox"/> Improper temperature |
| <input type="checkbox"/> Broken container(s) see below | <input type="checkbox"/> Broken container: sufficient sample volume remains for analysis requested |
| <input type="checkbox"/> Insufficient packing material around container | |
| <input type="checkbox"/> Insufficient packing material inside cooler | |
| <input type="checkbox"/> Improper handling by carrier (FedEx / UPS / Courier) | |
| <input type="checkbox"/> Sample was frozen | |

Comments: No analysis marked for "#10 Creek Confluence" or for "#12 Upstream, South Y." Received 2 HCL vials for each sample.

Login Instructions:

TSR Initials: MB

Client informed by call / email / fax / voice mail date: 6/1/10 time: 0930

Client contact:

- BTX GRO



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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

Thursday June 10, 2010

Report Number: L461755

Samples Received: 05/29/10

Client Project: 09-61

Description: 09-61

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

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

June 10, 2010

Date Received : May 29, 2010
Description : 09-61

ESC Sample # : L461755-01

Sample ID : 39-CONF CORE SPRINGS CONFLUENCE

Site ID :

Collected By : Brett Kennedy
Collection Date : 05/27/10 11:15

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0020	0.00013	0.00050	mg/l		8021/80	06/05/10	1
Toluene	0.00022	0.00021	0.0050	mg/l	J	8021/80	06/05/10	1
Ethylbenzene	0.0019	0.00021	0.00050	mg/l		8021/80	06/05/10	1
Total Xylene	0.012	0.00043	0.0015	mg/l		8021/80	06/05/10	1
TPH (GC/FID) Low Fraction	0.076	0.040	0.10	mg/l	J	GRO	06/05/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	109.			% Rec.		8021/80	06/05/10	1
a,a,a-Trifluorotoluene(PID)	101.			% Rec.		8021/80	06/05/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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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

June 10, 2010

Date Received : May 29, 2010
Description : 09-61

Sample ID : 1 UPSTREAM SPRING

Collected By : Brett Kennedy
Collection Date : 05/27/10 11:35

ESC Sample # : L461755-02

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Nitrate	1.1	0.041	0.10	mg/l		9056	05/29/10	1
Sulfate	66.	0.46	5.0	mg/l		9056	05/29/10	1
BOD	U	1.6	5.0	mg/l	B1J4	SM5210B	06/03/10	1
COD	U	1.7	10.	mg/l		410.4	06/02/10	1
Dissolved Oxygen	7.51@21.1c	0.99	3.0	mg/l	TT8	4500-O	05/29/10	1
ORP	160			mV	T8	2580	06/01/10	1
Phosphate,Ortho	0.026	0.0036	0.025	mg/l		4500P-E	05/29/10	1
TOC (Total Organic Carbon)	2.3	0.20	1.0	mg/l		9060A	06/08/10	1
Dissolved Solids	380	2.5	10.	mg/l		2540C	06/04/10	1
Arsenic	0.0065	0.0065	0.020	mg/l	J	6010B	06/09/10	1
Barium	0.064	0.0010	0.0050	mg/l		6010B	06/09/10	1
Cadmium	U	0.00080	0.0050	mg/l		6010B	06/09/10	1
Calcium	48.	0.11	0.50	mg/l		6010B	06/09/10	1
Chromium	U	0.0017	0.010	mg/l		6010B	06/09/10	1
Copper	U	0.0042	0.020	mg/l		6010B	06/09/10	1
Iron	0.40	0.019	0.10	mg/l		6010B	06/09/10	1
Lead	U	0.0018	0.0050	mg/l		6010B	06/09/10	1
Magnesium	22.	0.018	0.10	mg/l		6010B	06/09/10	1
Molybdenum	0.0062	0.0017	0.0050	mg/l		6010B	06/09/10	1
Zinc	0.015	0.0068	0.030	mg/l	J	6010B	06/09/10	1
Benzene	U	0.00013	0.00050	mg/l		8021/80	06/05/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	06/05/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	06/05/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	06/05/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	06/05/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	108.			% Rec.		8021/80	06/05/10	1
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	06/05/10	1

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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

June 10, 2010

Date Received : May 29, 2010
Description : 09-61

Sample ID : 2 NORTH TRENCH

Collected By : Brett Kennedy
Collection Date : 05/27/10 11:55

ESC Sample # : L461755-03

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Nitrate	U	0.041	0.10	mg/l		9056	05/29/10	1
Sulfate	27.	0.46	5.0	mg/l		9056	05/29/10	1
BOD	U	1.6	5.0	mg/l	B1J4	SM5210B	06/03/10	1
COD	3.8	1.7	10.	mg/l	J	410.4	06/02/10	1
Dissolved Oxygen	3.57@21.0c	0.99	3.0	mg/l	TT8	4500-O	05/29/10	1
ORP	170			mV	T8	2580	06/01/10	1
Phosphate,Ortho	0.077	0.0036	0.025	mg/l		4500P-E	05/29/10	1
TOC (Total Organic Carbon)	4.4	0.20	1.0	mg/l		9060A	06/08/10	1
Dissolved Solids	460	2.5	10.	mg/l		2540C	06/04/10	1
Arsenic	0.011	0.0065	0.020	mg/l	J	6010B	06/09/10	1
Barium	0.12	0.0010	0.0050	mg/l		6010B	06/09/10	1
Cadmium	U	0.00080	0.0050	mg/l		6010B	06/09/10	1
Calcium	58.	0.11	0.50	mg/l		6010B	06/09/10	1
Chromium	U	0.0017	0.010	mg/l		6010B	06/09/10	1
Copper	U	0.0042	0.020	mg/l		6010B	06/09/10	1
Iron	0.11	0.019	0.10	mg/l		6010B	06/09/10	1
Lead	U	0.0018	0.0050	mg/l		6010B	06/09/10	1
Magnesium	22.	0.018	0.10	mg/l		6010B	06/09/10	1
Molybdenum	0.0080	0.0017	0.0050	mg/l		6010B	06/09/10	1
Zinc	0.46	0.0068	0.030	mg/l		6010B	06/09/10	1
Benzene	0.040	0.00013	0.00050	mg/l		8021/80	06/05/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	06/05/10	1
Ethylbenzene	0.0082	0.00021	0.00050	mg/l		8021/80	06/05/10	1
Total Xylene	0.18	0.00043	0.0015	mg/l		8021/80	06/05/10	1
TPH (GC/FID) Low Fraction	1.4	0.040	0.10	mg/l		GRO	06/05/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	103.			% Rec.		8021/80	06/05/10	1
a,a,a-Trifluorotoluene(PID)	99.3			% Rec.		8021/80	06/05/10	1

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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

June 10, 2010

Date Received : May 29, 2010
Description : 09-61

Sample ID : 32 LATHEM SPRING POND

Collected By : Brett Kennedy
Collection Date : 05/27/10 12:05

ESC Sample # : L461755-04

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.00086	0.00013	0.00050	mg/l		8021/80	06/09/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	06/09/10	1
Ethylbenzene	0.0012	0.00021	0.00050	mg/l		8021/80	06/09/10	1
Total Xylene	0.0053	0.00043	0.0015	mg/l		8021/80	06/09/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	06/09/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	103.			% Rec.		8021/80	06/09/10	1
a,a,a-Trifluorotoluene(PID)	97.7			% Rec.		8021/80	06/09/10	1

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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

June 10, 2010

Date Received : May 29, 2010
Description : 09-61

Sample ID : 4 WATER TROUGH

Collected By : Brett Kennedy
Collection Date : 05/27/10 12:10

ESC Sample # : L461755-05

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	06/06/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	06/06/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	06/06/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	06/06/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	06/06/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	107.			% Rec.		8021/80	06/06/10	1
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	06/06/10	1

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MDL = Minimum Detection Limit = LOD

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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

June 10, 2010

Date Received : May 29, 2010
Description : 09-61

Sample ID : 7 S1 TRENCH

Collected By : Brett Kennedy
Collection Date : 05/27/10 12:20

ESC Sample # : L461755-06

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Nitrate	0.16	0.041	0.10	mg/l		9056	05/29/10	1
Sulfate	21.	0.46	5.0	mg/l		9056	05/29/10	1
BOD	U	1.6	5.0	mg/l	B1J4	SM5210B	06/03/10	1
COD	U	1.7	10.	mg/l		410.4	06/02/10	1
Dissolved Oxygen	5.41@21.1c	0.99	3.0	mg/l	TT8	4500-O	05/29/10	1
ORP	180			mV	T8	2580	06/01/10	1
Phosphate,Ortho	0.048	0.0036	0.025	mg/l		4500P-E	05/29/10	1
TOC (Total Organic Carbon)	5.3	0.20	1.0	mg/l		9060A	06/08/10	1
Dissolved Solids	520	2.5	10.	mg/l		2540C	06/04/10	1
Arsenic	0.0092	0.0065	0.020	mg/l	J	6010B	06/09/10	1
Barium	0.21	0.0010	0.0050	mg/l		6010B	06/09/10	1
Cadmium	U	0.00080	0.0050	mg/l		6010B	06/09/10	1
Calcium	80.	0.11	0.50	mg/l		6010B	06/09/10	1
Chromium	U	0.0017	0.010	mg/l		6010B	06/09/10	1
Copper	U	0.0042	0.020	mg/l		6010B	06/09/10	1
Iron	0.26	0.019	0.10	mg/l		6010B	06/09/10	1
Lead	U	0.0018	0.0050	mg/l		6010B	06/09/10	1
Magnesium	28.	0.018	0.10	mg/l		6010B	06/09/10	1
Molybdenum	0.0097	0.0017	0.0050	mg/l		6010B	06/09/10	1
Zinc	0.58	0.0068	0.030	mg/l		6010B	06/09/10	1
Benzene	0.0023	0.00013	0.00050	mg/l		8021/80	06/06/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	06/06/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	06/06/10	1
Total Xylene	0.0015	0.00043	0.0015	mg/l		8021/80	06/06/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	06/06/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	107.			% Rec.		8021/80	06/06/10	1
a,a,a-Trifluorotoluene(PID)	101.			% Rec.		8021/80	06/06/10	1

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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

June 10, 2010

Date Received : May 29, 2010
Description : 09-61

Sample ID : 11 S2 TRENCH

Collected By : Brett Kennedy
Collection Date : 05/27/10 12:26

ESC Sample # : L461755-07

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Nitrate	U	0.041	0.10	mg/l		9056	05/29/10	1
Sulfate	29.	0.46	5.0	mg/l		9056	05/29/10	1
BOD	U	1.6	5.0	mg/l	B1J4	SM5210B	06/03/10	1
COD	18.	1.7	10.	mg/l		410.4	06/02/10	1
Dissolved Oxygen	5.85@21.2c	0.99	3.0	mg/l	TT8	4500-O	05/29/10	1
ORP	180			mV	T8	2580	06/01/10	1
Phosphate,Ortho	0.16	0.0036	0.025	mg/l		4500P-E	05/29/10	1
TOC (Total Organic Carbon)	7.3	0.20	1.0	mg/l		9060A	06/08/10	1
Dissolved Solids	630	2.5	10.	mg/l		2540C	06/04/10	1
Arsenic	0.0098	0.0065	0.020	mg/l	J	6010B	06/09/10	1
Barium	0.18	0.0010	0.0050	mg/l		6010B	06/09/10	1
Cadmium	U	0.00080	0.0050	mg/l		6010B	06/09/10	1
Calcium	89.	0.11	0.50	mg/l		6010B	06/09/10	1
Chromium	U	0.0017	0.010	mg/l		6010B	06/09/10	1
Copper	U	0.0042	0.020	mg/l		6010B	06/09/10	1
Iron	0.42	0.019	0.10	mg/l		6010B	06/09/10	1
Lead	U	0.0018	0.0050	mg/l		6010B	06/09/10	1
Magnesium	35.	0.018	0.10	mg/l		6010B	06/09/10	1
Molybdenum	0.011	0.0017	0.0050	mg/l		6010B	06/09/10	1
Zinc	0.10	0.0068	0.030	mg/l		6010B	06/09/10	1
Benzene	0.0018	0.00013	0.00050	mg/l		8021/80	06/06/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	06/06/10	1
Ethylbenzene	0.00023	0.00021	0.00050	mg/l	J	8021/80	06/06/10	1
Total Xylene	0.0018	0.00043	0.0015	mg/l		8021/80	06/06/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	06/06/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	108.			% Rec.		8021/80	06/06/10	1
a,a,a-Trifluorotoluene(PID)	101.			% Rec.		8021/80	06/06/10	1

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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

June 10, 2010

Date Received : May 29, 2010
Description : 09-61

Sample ID : 37 CREEK

Collected By : Brett Kennedy
Collection Date : 05/27/10 12:30

ESC Sample # : L461755-08

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0026	0.00013	0.00050	mg/l		8021/80	06/06/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	06/06/10	1
Ethylbenzene	0.0013	0.00021	0.00050	mg/l		8021/80	06/06/10	1
Total Xylene	0.0083	0.00043	0.0015	mg/l		8021/80	06/06/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	06/06/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	107.			% Rec.		8021/80	06/06/10	1
a,a,a-Trifluorotoluene(PID)	101.			% Rec.		8021/80	06/06/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

June 10, 2010

Date Received : May 29, 2010
Description : 09-61

Sample ID : 9 DAM 2

Collected By : Brett Kennedy
Collection Date : 05/27/10 13:15

ESC Sample # : L461755-09

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Nitrate	U	0.041	0.10	mg/l		9056	05/29/10	1
Sulfate	37.	0.46	5.0	mg/l		9056	05/29/10	1
BOD	36.	1.6	5.0	mg/l	B1J4	SM5210B	06/03/10	1
COD	U	1.7	10.	mg/l		410.4	06/02/10	1
Dissolved Oxygen	5.43@21.4c	0.99	3.0	mg/l	TT8	4500-O	05/29/10	1
ORP	180			mV	T8	2580	06/01/10	1
Phosphate,Ortho	0.19	0.0036	0.025	mg/l		4500P-E	05/29/10	1
TOC (Total Organic Carbon)	5.8	0.20	1.0	mg/l		9060A	06/08/10	1
Dissolved Solids	440	2.5	10.	mg/l		2540C	06/04/10	1
Arsenic	0.0098	0.0065	0.020	mg/l	J	6010B	06/09/10	1
Barium	0.13	0.0010	0.0050	mg/l		6010B	06/09/10	1
Cadmium	U	0.00080	0.0050	mg/l		6010B	06/09/10	1
Calcium	70.	0.11	0.50	mg/l		6010B	06/09/10	1
Chromium	U	0.0017	0.010	mg/l		6010B	06/09/10	1
Copper	U	0.0042	0.020	mg/l		6010B	06/09/10	1
Iron	1.6	0.019	0.10	mg/l		6010B	06/09/10	1
Lead	U	0.0018	0.0050	mg/l		6010B	06/09/10	1
Magnesium	27.	0.018	0.10	mg/l		6010B	06/09/10	1
Molybdenum	0.0072	0.0017	0.0050	mg/l		6010B	06/09/10	1
Zinc	0.012	0.0068	0.030	mg/l	J	6010B	06/09/10	1
Benzene	U	0.00013	0.00050	mg/l		8021/80	06/06/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	06/06/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	06/06/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	06/06/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	06/06/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	108.			% Rec.		8021/80	06/06/10	1
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	06/06/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

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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

June 10, 2010

Date Received : May 29, 2010
Description : 09-61

ESC Sample # : L461755-10

Sample ID : 10 CREEK CONFLUENCE

Site ID :

Collected By : Brett Kennedy
Collection Date : 05/27/10 13:20

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	06/06/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	06/06/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	06/06/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	06/06/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	06/06/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	108.			% Rec.		8021/80	06/06/10	1
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	06/06/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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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

June 10, 2010

Date Received : May 29, 2010
Description : 09-61

ESC Sample # : L461755-11

Sample ID : 12 UPSTREAM SOUTH Y

Site ID :

Collected By : Brett Kennedy
Collection Date : 05/27/10 13:27

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	06/06/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	06/06/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	06/06/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	06/06/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	06/06/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	107.			% Rec.		8021/80	06/06/10	1
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	06/06/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L461755-01	WG481876	SAMP	Toluene	R1247470	J
	WG481876	SAMP	TPH (GC/FID) Low Fraction	R1247470	J
L461755-02	WG481313	SAMP	Dissolved Oxygen	R1239652	TT8
	WG481557	SAMP	Arsenic	R1248899	J
	WG481557	SAMP	Zinc	R1248899	J
	WG481064	SAMP	BOD	R1246128	B1J4
	WG481216	SAMP	ORP	R1239892	T8
L461755-03	WG481313	SAMP	Dissolved Oxygen	R1239652	TT8
	WG481557	SAMP	Arsenic	R1248899	J
	WG481064	SAMP	BOD	R1246128	B1J4
	WG481201	SAMP	COD	R1240689	J
	WG481216	SAMP	ORP	R1239892	T8
L461755-06	WG481313	SAMP	Dissolved Oxygen	R1239652	TT8
	WG481557	SAMP	Arsenic	R1248899	J
	WG481064	SAMP	BOD	R1246128	B1J4
	WG481216	SAMP	ORP	R1239892	T8
L461755-07	WG481313	SAMP	Dissolved Oxygen	R1239652	TT8
	WG481876	SAMP	Ethylbenzene	R1247470	J
	WG481557	SAMP	Arsenic	R1248899	J
	WG481064	SAMP	BOD	R1246128	B1J4
	WG481216	SAMP	ORP	R1239892	T8
L461755-09	WG481313	SAMP	Dissolved Oxygen	R1239652	TT8
	WG481557	SAMP	Arsenic	R1248899	J
	WG481557	SAMP	Zinc	R1248899	J
	WG481064	SAMP	BOD	R1246128	B1J4
	WG481216	SAMP	ORP	R1239892	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J4	The associated batch QC was outside the established quality control range for accuracy.
B1	(ESC) - The blank depletion was greater than the recommended maximum depletion of 0.2mg/L.
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
06/10/10 at 16:32:59

TSR Signing Reports: 134
R5 - Desired TAT

Sample: L461755-01 Account: OXYWTPGJCO Received: 05/29/10 09:00 Due Date: 06/07/10 00:00 RPT Date: 06/10/10 16:32
Sample: L461755-02 Account: OXYWTPGJCO Received: 05/29/10 09:00 Due Date: 06/07/10 00:00 RPT Date: 06/10/10 16:32
Sample: L461755-03 Account: OXYWTPGJCO Received: 05/29/10 09:00 Due Date: 06/07/10 00:00 RPT Date: 06/10/10 16:32
Sample: L461755-04 Account: OXYWTPGJCO Received: 05/29/10 09:00 Due Date: 06/07/10 00:00 RPT Date: 06/10/10 16:32
Sample: L461755-05 Account: OXYWTPGJCO Received: 05/29/10 09:00 Due Date: 06/07/10 00:00 RPT Date: 06/10/10 16:32
Sample: L461755-06 Account: OXYWTPGJCO Received: 05/29/10 09:00 Due Date: 06/07/10 00:00 RPT Date: 06/10/10 16:32
Sample: L461755-07 Account: OXYWTPGJCO Received: 05/29/10 09:00 Due Date: 06/07/10 00:00 RPT Date: 06/10/10 16:32
Sample: L461755-08 Account: OXYWTPGJCO Received: 05/29/10 09:00 Due Date: 06/07/10 00:00 RPT Date: 06/10/10 16:32
Sample: L461755-09 Account: OXYWTPGJCO Received: 05/29/10 09:00 Due Date: 06/07/10 00:00 RPT Date: 06/10/10 16:32
Sample: L461755-10 Account: OXYWTPGJCO Received: 05/29/10 09:00 Due Date: 06/07/10 00:00 RPT Date: 06/10/10 16:32
Sample: L461755-11 Account: OXYWTPGJCO Received: 05/29/10 09:00 Due Date: 06/07/10 00:00 RPT Date: 06/10/10 16:32

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 <div style="border: 1px solid black; height: 100px; width: 100%;"></div>			Chain of Custody Page <u>1</u> of <u>2</u> E066	
Report to: <u>Brett Kennedy</u>			Email to: <u>brett.kennedy@oxy.com</u>			<div style="font-size: 2em; transform: rotate(-90deg);">BTEX 1660</div>			ENVIRONMENTAL SCIENCE CORP. 12065 Lebanon Road Mt. Juliet, TN 37122 Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859	
Project Description: <u>09-61</u>			City/State Collected: <u>-</u>							
Phone: (970) 263-3601 FAX: (970) 201-2305		Client Project #: <u>-</u>		ESC Key: <u>-</u>						
Collected by: <u>Brett Kennedy</u>		Site/Facility ID#: <u>-</u>		P.O.#: <u>-</u>						
Collected by (signature): <u>Brett Kennedy</u> Immediately Packed on Ice N <u>Y</u> <input checked="" type="checkbox"/>		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day..... 200% <input type="checkbox"/> Next Day..... 100% <input type="checkbox"/> Two Day..... 50% <input type="checkbox"/> Three Day..... 25%		Date Results Needed: Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes						
Sample ID		Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	CoCode: OXYWTPGJ (lab use only) Template/Prelogin Shipped Via:		
<u>In Upstream Kona Camp</u>		<u>grab</u>	<u>SW</u>	<u>0-6"</u>	<u>6/24/10</u>	<u>0920</u>	<u>2</u>	Remarks/Contaminant		
<u>#2 North Trench</u>		<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>0945</u>	<u>2</u>	<u>62</u>		
<u>#32 Latham Spring Road</u>		<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>0950</u>	<u>2</u>	<u>03</u>		
<u>#4 Water Trough</u>		<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>0955</u>	<u>2</u>	<u>04</u>		
<u>#7 Si Trench</u>		<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>1002</u>	<u>2</u>	<u>05</u>		
<u>#37 Creek</u>		<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>1010</u>	<u>2</u>	<u>06</u>		
<u>#9 Dam 2</u>		<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>1020</u>	<u>2</u>	<u>07</u>		
<u>#10 Creek Confluence</u>		<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>1030</u>	<u>2</u>	<u>08</u>		
<u>#12 Upstream South Y</u>		<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>1037</u>	<u>2</u>	<u>09</u>		

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

Remarks:

869517896425

surface water

pH _____ Temp _____

Flow _____ Other _____

Relinquished by: (Signature) <u>Brett Kennedy</u>	Date: <u>6/25/10</u>	Time: <u>1215</u>	Received by: (Signature) 	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/> _____	Condition: (lab use only) <u>OK</u>
Relinquished by: (Signature) 	Date:	Time:	Received by: (Signature) 	Temp: <u>3.4°C</u>	Bottles Received: <u>22</u>
Relinquished by: (Signature) 	Date:	Time:	Received for lab by: (Signature) <u>C. Jones</u>	Date: <u>6.26.10</u>	Time: <u>0900</u>
				pH Checked:	NCF:

[illegible]



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Est. 1970

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

Report Summary

Monday July 05, 2010

Report Number: L466384

Samples Received: 06/26/10

Client Project: 09-61

Description: 09-61

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

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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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REPORT OF ANALYSIS

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

July 05, 2010

Date Received : June 26, 2010
Description : 09-61

ESC Sample # : L466384-01

Sample ID : 1U UPSTREAM CONN COMP 0-6 IN

Site ID :

Collected By : Brett Kennedy
Collection Date : 06/24/10 09:20

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	07/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	07/04/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	07/04/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	07/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	07/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	108.			% Rec.		8021/80	07/04/10	1
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	07/04/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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

July 05, 2010

Date Received : June 26, 2010
Description : 09-61

Sample ID : 2 NORTH TRENCH 0-6 IN

Collected By : Brett Kennedy
Collection Date : 06/24/10 09:45

ESC Sample # : L466384-02

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0015	0.00013	0.00050	mg/l		8021/80	07/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	07/04/10	1
Ethylbenzene	0.00043	0.00021	0.00050	mg/l	J	8021/80	07/04/10	1
Total Xylene	0.0032	0.00043	0.0015	mg/l		8021/80	07/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	07/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	109.			% Rec.		8021/80	07/04/10	1
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	07/04/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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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

July 05, 2010

Date Received : June 26, 2010
Description : 09-61

ESC Sample # : L466384-03

Sample ID : 32 LATHAM SPRING POND 0-6 IN

Site ID :

Collected By : Brett Kennedy
Collection Date : 06/24/10 09:50

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.00069	0.00013	0.00050	mg/l		8021/80	07/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	07/04/10	1
Ethylbenzene	0.0011	0.00021	0.00050	mg/l		8021/80	07/04/10	1
Total Xylene	0.0037	0.00043	0.0015	mg/l		8021/80	07/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	07/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	106.			% Rec.		8021/80	07/04/10	1
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	07/04/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

July 05, 2010

Date Received : June 26, 2010
Description : 09-61

ESC Sample # : L466384-04

Sample ID : 4 WATER TROUGH 0-6 IN

Site ID :

Collected By : Brett Kennedy
Collection Date : 06/24/10 09:55

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	07/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	07/04/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	07/04/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	07/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	07/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	109.			% Rec.		8021/80	07/04/10	1
a,a,a-Trifluorotoluene(PID)	103.			% Rec.		8021/80	07/04/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

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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

July 05, 2010

Date Received : June 26, 2010
Description : 09-61

Sample ID : 7 S TRENCH 0-6 IN

Collected By : Brett Kennedy
Collection Date : 06/24/10 10:02

ESC Sample # : L466384-05

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0028	0.00013	0.00050	mg/l		8021/80	07/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	07/04/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	07/04/10	1
Total Xylene	0.0016	0.00043	0.0015	mg/l		8021/80	07/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	07/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	109.			% Rec.		8021/80	07/04/10	1
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	07/04/10	1

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RDL = Reported Detection Limit = LOQ = PQL = EQL

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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

July 05, 2010

Date Received : June 26, 2010
Description : 09-61

Sample ID : 37 CREEK 0-6 IN

Collected By : Brett Kennedy
Collection Date : 06/24/10 10:10

ESC Sample # : L466384-06

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0016	0.00013	0.00050	mg/l		8021/80	07/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	07/04/10	1
Ethylbenzene	0.00043	0.00021	0.00050	mg/l	J	8021/80	07/04/10	1
Total Xylene	0.0032	0.00043	0.0015	mg/l		8021/80	07/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	07/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	108.			% Rec.		8021/80	07/04/10	1
a,a,a-Trifluorotoluene(PID)	101.			% Rec.		8021/80	07/04/10	1

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RDL = Reported Detection Limit = LOQ = PQL = EQL

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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

July 05, 2010

Date Received : June 26, 2010
Description : 09-61

Sample ID : 9 DAM 2 0-6 IN

Collected By : Brett Kennedy
Collection Date : 06/24/10 10:20

ESC Sample # : L466384-07

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	07/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	07/04/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	07/04/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	07/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	07/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	108.			% Rec.		8021/80	07/04/10	1
a,a,a-Trifluorotoluene(PID)	103.			% Rec.		8021/80	07/04/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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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

July 05, 2010

Date Received : June 26, 2010
Description : 09-61

ESC Sample # : L466384-08

Sample ID : 10 CREEK CONFLUENCE 0-6 IN

Site ID :

Collected By : Brett Kennedy
Collection Date : 06/24/10 10:30

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	07/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	07/04/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	07/04/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	07/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	07/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	108.			% Rec.		8021/80	07/04/10	1
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	07/04/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

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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

July 05, 2010

Date Received : June 26, 2010
Description : 09-61

ESC Sample # : L466384-09

Sample ID : 12 UPSTREAM SOUTH Y 0-6 IN

Site ID :

Collected By : Brett Kennedy
Collection Date : 06/24/10 10:37

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	07/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	07/04/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	07/04/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	07/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	07/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	108.			% Rec.		8021/80	07/04/10	1
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	07/04/10	1

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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

July 05, 2010

Date Received : June 26, 2010
Description : 09-61

ESC Sample # : L466384-10

Sample ID : 39 CONF CORE SPRINGS 0-6 IN

Site ID :

Collected By : Brett Kennedy
Collection Date : 06/24/10 11:41

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0030	0.00013	0.00050	mg/l		8021/80	07/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	07/04/10	1
Ethylbenzene	0.0025	0.00021	0.00050	mg/l		8021/80	07/04/10	1
Total Xylene	0.012	0.00043	0.0015	mg/l		8021/80	07/04/10	1
TPH (GC/FID) Low Fraction	0.26	0.040	0.10	mg/l		GRO	07/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	112.			% Rec.		8021/80	07/04/10	1
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	07/04/10	1

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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

July 05, 2010

Date Received : June 26, 2010
Description : 09-61

Sample ID : 11 S TRENCH 0-6 IN

Collected By : Brett Kennedy
Collection Date : 06/24/10 10:04

ESC Sample # : L466384-11

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0021	0.00013	0.00050	mg/l		8021/80	07/04/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	07/04/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	07/04/10	1
Total Xylene	0.0023	0.00043	0.0015	mg/l		8021/80	07/04/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	07/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	109.			% Rec.		8021/80	07/04/10	1
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	07/04/10	1

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L466384-02	WG486880	SAMP	Ethylbenzene	R1275430	J
L466384-06	WG486880	SAMP	Ethylbenzene	R1275430	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.

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
07/05/10 at 13:41:57

TSR Signing Reports: 134
R5 - Desired TAT

Sample: L466384-01 Account: OXYWTPGJCO Received: 06/26/10 09:00 Due Date: 07/02/10 00:00 RPT Date: 07/05/10 13:41
Sample: L466384-02 Account: OXYWTPGJCO Received: 06/26/10 09:00 Due Date: 07/02/10 00:00 RPT Date: 07/05/10 13:41
Sample: L466384-03 Account: OXYWTPGJCO Received: 06/26/10 09:00 Due Date: 07/02/10 00:00 RPT Date: 07/05/10 13:41
Sample: L466384-04 Account: OXYWTPGJCO Received: 06/26/10 09:00 Due Date: 07/02/10 00:00 RPT Date: 07/05/10 13:41
Sample: L466384-05 Account: OXYWTPGJCO Received: 06/26/10 09:00 Due Date: 07/02/10 00:00 RPT Date: 07/05/10 13:41
Sample: L466384-06 Account: OXYWTPGJCO Received: 06/26/10 09:00 Due Date: 07/02/10 00:00 RPT Date: 07/05/10 13:41
Sample: L466384-07 Account: OXYWTPGJCO Received: 06/26/10 09:00 Due Date: 07/02/10 00:00 RPT Date: 07/05/10 13:41
Sample: L466384-08 Account: OXYWTPGJCO Received: 06/26/10 09:00 Due Date: 07/02/10 00:00 RPT Date: 07/05/10 13:41
Sample: L466384-09 Account: OXYWTPGJCO Received: 06/26/10 09:00 Due Date: 07/02/10 00:00 RPT Date: 07/05/10 13:41
Sample: L466384-10 Account: OXYWTPGJCO Received: 06/26/10 09:00 Due Date: 07/02/10 00:00 RPT Date: 07/05/10 13:41
Sample: L466384-11 Account: OXYWTPGJCO Received: 06/26/10 09:00 Due Date: 07/02/10 00:00 RPT Date: 07/05/10 13:41