EnviroTech
Consultants, Inc.
5400 Rosedale Highway
Bakersfield, CA 93308

JAMES S. ANDERSON/ OIL CITY
RESPONSE TO RWQCB SECTION 13267 ORDER
POND INFORMATION AND SAMPLING RESULTS

COALINGA OIL FIELD:

CHAMBER AND MOURAN LEASE
SECTION 32 T10S/R15E MDB&M

COMPASS LEASE
SECTION 26 T20S/R14E MDB&M

CONTINENTAL LEASE
SECTION 8 T20S/R14E MDB&M

June 10, 2015

Prepared by:

EnviroTech Consultants, Inc.

M. Jane Ellis-McNaboe

M. Jane Ellis-McNaboe, PG

REGISTERED GEOLOGIST
M. JANE ELLIS-McNABOE
exp. 01/16
4127
STATE OF CALIFORNIA

OIL CITY, LLC
35244 OIL CITY RD.
COALINGA, CA 93210
(559)935-0836

June 8, 2015

Certification Statement

RWQCB Order 13267, Pond Sampling Technical Report
James S. Anderson, Coalinga Oil Field

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine an imprisonment for knowing violations.

James S. Anderson, Operator

6/10/15
Date

Table of Contents

1.0 IDENTIFICATION OF DISCHARGES OF PRODUCED WATER TO LAND.....1

2.0 POND SAMPLING 1

3.0 POND SAMPLING ANALYTICAL RESULTS.....1

4.0 INFORMATION FOR EACH SURFACE IMPOUNDMENT.....7

LIST OF TABLES

Table 3-1: General Chemistry 2
Table 3-2: Anions.....2
Table 3-3: Metals 3
Table 3-4: BTEX and TPH.....4
Table 3-5: Semi-volatile Organic Compounds 5
Table 3-6: Radionuclides 6
Table 4-1: Surface Impoundment Information 7

ATTACHMENTS

ATTACHMENT A James S. Anderson and Mouran Pond Map

ATTACHMENT B James S. Anderson Compass Pond Map

ATTACHMENT C James S. Anderson Continental Pond Map

ATTACHMENT D Copy of RWQCB Order 13267, 1 April, 2015

ATTACHMENT E Laboratory Analytical Report

1.0 IDENTIFICATION OF DISCHARGES OF PRODUCED WATER TO LAND

The Regional Water Quality Control Board (RWQCB) identified one pond containing discharges of produced water on the Chamber and Mouran lease, and one pond containing discharges of produced water on the Compass lease.

In addition, one in-ground tank was identified containing discharges of produced water on the Continental lease. Maps of the pond and surrounding leases are included as Attachment A, B and C.

The Chamber and Mouran and Continental leases each contain an in-ground tank. There are no discharges of wastewater to these tanks.

2.0 POND SAMPLING

Representative samples of wastewater were collected by EnviroTech Consultants, Inc. (EnviroTech) from the ponds on all three leases on April 28, 2015 as required by Order 13267 dated April 1, 2015 (Attachment D). The samples were collected from the sample ports on the wastewater tanks, decanted into appropriate sampling containers and cooled with ice for storage and transportation to the laboratory under standard chain of custody procedures.

3.0 POND SAMPLING ANALYTICAL RESULTS

The samples were received by Test America Laboratories, Inc. on April 28, 2015. EnviroTech received the laboratory analytical report on June 9, 2015. The analytical results are summarized in the following tables; complete laboratory reports are included in Attachment E.

Table 3-1: General Chemistry

Sample ID	Date Sampled	Total Dissolved Solids	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium	Strontium	Alkalinity as CaCO3	Bicarbonate ion as HCO3	Carbonate as CO3	Hydroxide as OH
EPA Analytical Method		2540C_Calcd	6010B							2320B			
Units		mg/L											
Reporting limit		Reporting limits vary, see full analytical report.											
Chamber and Mouran	4/28/2015	Results											
		4,000	**22**	**0.65**	**5.7**	**0.049**	**9.5**	**1,300**	**0.84**	**1,000**	**1,300**	<2.4	<1.4
Compass	4/28/2015	**9,100**	**370**	**71**	**150**	**1.8**	**160**	**2,700**	**6.2**	**980**	**1,200**	<2.4	<1.4
Continental	4/28/2015	**4,800**	**23**	**0.15**	**6.8**	<0.02	**17**	**1,700**	**1.2**	**2,200**	**2,700**	<2.4	<1.4

Bold = Analyte detected at or above minimum reporting limit.
Reporting limit varies by sample. See complete analytic report.

Table 3-2: Anions

Sample ID	Date Sampled	**Anions, Ion Chromatography**			
		Bromide	Chloride	Nitrate as NO3	Sulfate
EPA Analytical Method		300_ORGFM_28D		300_ORGFMS	300_ORGFM_28D
Units		mg/L			
Reporting Limit		Reporting limit varies, see full analytical report.			
Chamber and Mouran	4/28/2015	**11**	**1,200**	<2.5	**170**
Compass	4/28/2015	**64**	**4,100**	<2.5	**320**
Continental	4/28/2015	**11**	**970**	<2.5	**330**

Bold = Analyte detected at or above minimum reporting limit.
Reporting limit varies by sample. See complete analytic report.

Table 3-3: Metals

Sample ID	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Lead
EPA Analytical Method		6010B									
Units		mg/L									
Reporting Limit		Reporting limit varies by sample. See complete analytical report.*									
Chamber and Mouran	4/28/2015	<0.010	<0.010	**0.099**	<0.002	**27**	<0.005	<0.025	<0.010	<0.010	<0.005
Compass	4/28/2015	<0.010	<0.010	**0.89**	<0.002	**30**	<0.005	<0.025	<0.010	**0.012**	<0.005
Continental	4/28/2015	<0.010	<0.010	**0.043**	<0.002	**14**	<0.005	<0.025	<0.010	**0.021**	<0.005

Sample ID	Date Sampled	Lithium	Molybdenum	Nickel	Selenium	Silver	Strontium	Thallium	Vanadium	Zinc	Mercury
EPA Analytical Method		6010B									7470A
Units		mg/L									
Reporting Limit		Reporting limit varies by sample. See full analytical report.*									
Chamber and Mouran	4/28/2015	<0.25	<0.02	<0.010	<0.010	<0.010	**0.84**	<0.010	<0.010	<0.02	<0.00020
Compass	4/28/2015	**1.7**	<0.02	<0.010	<0.010	<0.010	**6.2**	<0.010	<0.010	**0.025**	<0.00020
Continental	4/28/2015	**0.54**	<0.02	<0.010	<0.010	<0.010	**1.2**	<0.010	<0.010	<0.02	<0.00020

Bold = Analyte detected at or above minimum reporting limit.

*The samples were diluted by the lab due to high salts; the reporting limits are elevated.

Table 3-4: BTEX and TPH

Sample ID	Date Sampled	Benzene	Ethylbenzene	Toluene	Xylenes, Total	Gasoline Range	TPH as Crude Oil: Diesel Range Organics (DRO) (GC)	
						C4-C12	C13-C22	C23-C40
EPA Analytical Method		8015_GRO					8015B_DRO	
Units		ug/L				ug/L	mg/L	
Reporting Limit		Varies, see laboratory report					0.48	
Chamber and Mouran	4/28/2015	**3.4**	<2.0	<2.0	<2.0	**1000**	**87**	**110**
Compass	4/28/2015	<2.0	**5.9**	<2.0	**28**	**210**	**4.8**	**5.7**
Continental	4/28/2015	<8.0	<8.0	<8.0	<8.0	**30000**	**260**	**260**

Bold = Analyte detected at or above minimum reporting limit.
Reporting limit varies by sample. See complete analytic report.

Table 3-5: Semi-volatile Organic Compounds

Sample ID	Date Sampled	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene
EPA Analytical Method		8270C_SIM															
Units		ug/L															
Chamber and Mouran	4/28/2015	**9.7**	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**17**	<0.2	**10**	**34**	<4.0	<4.0	**55**	**33**
Compass	4/28/2015	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	**0.32**	<0.2	<0.2	<0.2	<0.2	**0.4**	<0.2	**1.1**
Continental	4/28/2015	**21**	<4.0	<4.0	**12**	<4.0	<4.0	<4.0	<4.0	**51**	<4.0	**36**	**78**	<4.0	<4.0	**350**	**64**

Bold = Analyte detected at or above minimum reporting limit.
Reporting limit varies by sample. See complete laboratory report.

Table 3-6: Radionuclides

Sample ID	Date Sampled	Gross Alpha	Gross Beta	Radium-226	Radium-228	Uranium
EPA Analytical Method		9310	9310	9315_Ra226	9320_Ra228	6020A
Units		pCi/L				
Regulatory Threshold*		15		- -	5	20
Chamber and Mouran	4/28/2015	7.84[UG] ± 20.2	11.9[UG] ±9.21	**0.232** ± 0.136	0.388 ± 0.407	<6.7
Compass	4/28/2015	-8.60[UG] ± 21.4	**58.1**[G] ± 20.7	1**.35** ± 0.262	0.298[U] ± 0.462	<17
Continental	4/28/2015	-8.83[UG] ± 11.8	9.90[UG] ± 8.02	0.212 ± 0.104	0.142[U] ± 0.384	<6.7

Bold = Analyte detected at or above minimum reporting limit.
Reporting limit varies by sample; see complete laboratory report.
* Title 22, Table 6443. MCL. -- No Regulatory Threshold
Results expressed as Total Uncertainty (2σ +/-)
[U] – The result is less than the sample detection limit.
[G] - The sample MDL is greater than the requested Reporting Limit.

4.0 INFORMATION FOR EACH SURFACE IMPOUNDMENT

The following table contains the required information for the Anderson/Oil City ponds. The Compass pond was present in 2013 and 2014 only.

The 'ponds' on the Chamber and Mouran and Continental leases are in-ground tanks and do not receive discharges of produced water.

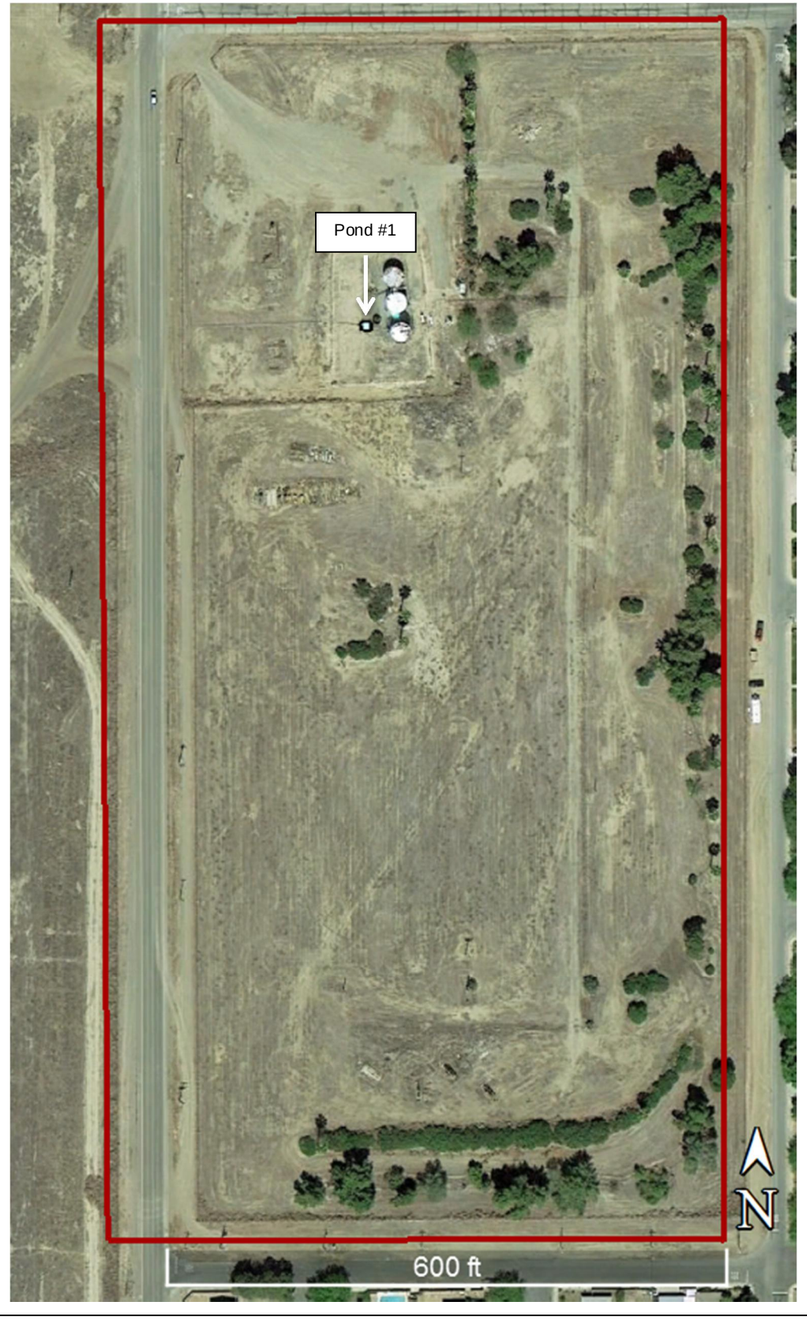
Table 4-1: Surface Impoundment Information

Pond Identification	Surface Impoundment Dimensions (feet)			Location (NAD 83)	Assessor's Parcel Number of the lease	Duration of discharge (months/year)	Volume of wastewater discharged per year (barrels)
Chamber and Mouran	Length	Width	Depth	Latitude:36.150364°	871-030-01,02	0	0
	6.3	6.3	8.75	Longitude: -120.371431°			
Compass	Length	Width	Depth	Latitude:36.155500°	063-270-08, 09	2	10,000-12,000
	46'	15'		Longitude: -120.410515°			
Continental	Length	Width	Depth	Latitude:36.199640°	870-020-22	0	0
	16'	8'	4'	Longitude: -120.368773°			

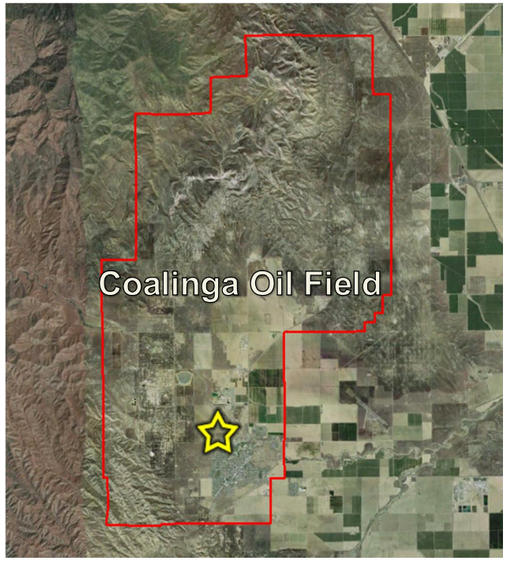
ATTACHMENT A

JAMES S. ANDERSON

CHAMBER AND MOURAN POND MAP



James S. Anderson



Legend

Chamber and Mouran Lease

Chamber and Mouran Lease Pond

Pond #1
Diameter – 110 inches
Depth – 105 inches

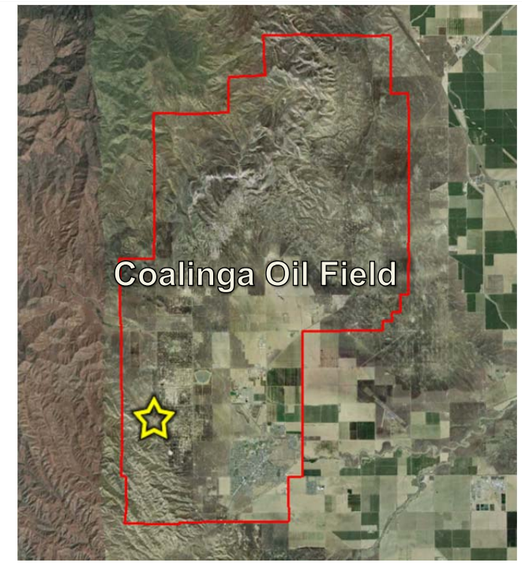
Prepared By:	**TITLE:**	Chamber and Mouran Lease Pond
EnviroTech Consultants, Inc.	**FIELD:**	Coalinga Oil Field
	COUNTY:	Fresno
Section/Township/Range	**DRN BY:**	Kelsey Padilla
T20S/R15E – Section 32 MDB&M (W ½ of the of the NW ¼ of the NW ¼)	**DATE:**	May 28, 2015

ATTACHMENT B

JAMES S. ANDERSON

COMPASS POND MAP

James S. Anderson



Legend

Compass Lease

Compass Lease Pond

Pond #1
Length –46'
Width –15'
Depth – N/A

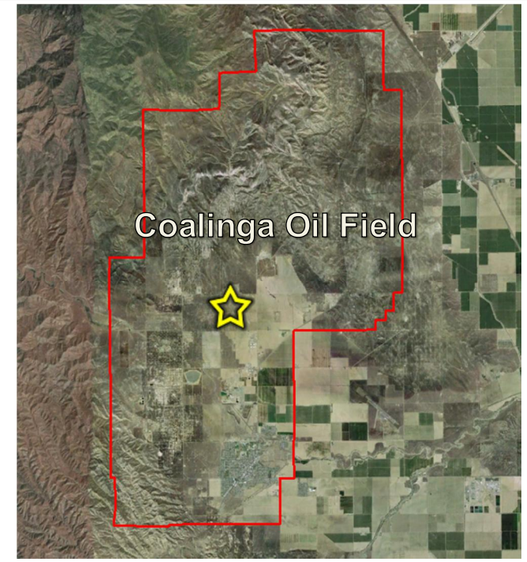
Prepared By:	**TITLE:**	Compass Lease Pond
EnviroTech Consultants, Inc.	**FIELD:**	Coalinga Oil Field
	COUNTY:	Fresno
Section/Township/Range	**DRN BY:**	Kelsey Padilla
T20S/R14E – Section 26 MDB&M (E ½ of the SE ¼)	**DATE:**	May 28, 2015

ATTACHMENT C

JAMES S. ANDERSON

CONTINENTAL POND MAP

James S. Anderson



Legend

Continental Lease

Continental Lease Pond

Pond #1
Diameter – 65 inches
Depth – 85 inches

Prepared By:	**TITLE:**	Continental Lease Pond
EnviroTech Consultants, Inc.	**FIELD:**	Coalinga Oil Field
	COUNTY:	Fresno
Section/Township/Range	**DRN BY:**	Kelsey Padilla
T20S/R15E – Section8 MDB&M	**DATE:**	May 28, 2015

ATTACHMENT D

JAMES S. ANDERSON

COPY OF RWQCB ORDER 13267, 1 APRIL, 2015

CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Central Valley Regional Water Quality Control Board

14 April 2015

James S. Anderson
35244 Oil City Road
Coalinga, CA 93210

CERTIFIED MAIL
7014 1200 0000 3347 6398

CALIFORNIA WATER CODE DIRECTIVE pursuant to Section 13267. You are legally obligated to respond to this Order. Please read this Order carefully.

James S. Anderson (hereafter Discharger) has been identified as the owner or operator of petroleum production wastewater disposal ponds (ponds). A list of the ponds (and the leases and oil fields where they are located) that the California Regional Water Quality Control Board, Central Valley Region (Central Valley Water Board) identifies as under your control is presented in Attachment A. Ponds for the disposal of wastewater generated during the course of petroleum production have the potential to affect the quality of groundwater (a water of the State). Groundwater underlying the areas where your ponds are located have beneficial uses as identified in the Water Quality Control Plan for the Tulare Lake Basin (Basin Plan).

This order requires the collection and analysis of wastewater samples collected from each of the ponds listed in Attachment A to characterize the discharge. Each sample is to be analyzed for each of the constituents listed in Attachment B. These data are needed to comprehensively characterize wastewater in each pond and provide data needed to evaluate the threat to the quality of waters of the State. If more than one pond is connected in series (i.e., one pond drains directly to the next with no other source of inflow) then only the upstream pond must be sampled. This order is not intended to require the collection of duplicative data. If during the 12 months (one year) prior to the date of this order, samples required by this order have been analyzed from one or more of the ponds for the required constituents, that data can be submitted for the appropriate order requirements.

This order also requires Discharger to identify any discharge(s) of oil field wastewater to land that is not identified in Attachment A. Discharger must also collect and analyze wastewater samples in accordance with Attachment B from any additionally identified discharge to characterize the discharge.

The Central Valley Water Board's authority to require technical reports derives from Section 13267 of the California Water Code, which specifies, in part, that:

> *(a) A regional Board … in connection with any action relating to any plan or requirement authorized by this division, may investigate the quality of any waters of the State within its region.*

(b)(1) In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, or is suspected of having discharged or discharging, or

who proposes to discharge waste within its region, or any citizen or domiciliary, or political agency or entity of this state who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge, waste outside of its region that could affect the quality of waters within its region shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefit to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports, and shall identify the evidence that supports requiring that person to provide the reports.

The Central Valley Water Board is concerned about the potential impacts to water quality posed by the discharge of oil field produced waters in surface ponds. The technical information and reports required by this order are necessary to assess the potential threat to water quality. The need to understand the potential impacts to water quality justify the need for the information and reports required by this order. Based on the nature and possible consequences of the discharges of waste, the burden of providing the required information, including the reporting costs, bears a reasonable relationship to the need for the report, and the benefits to be obtained. Discharger is required to submit this information and reports because it is the operator of the ponds listed in Attachment A of this order.

The unauthorized discharge of waste containing oil field waste constituents to land, including unlined ponds, may result in the degradation of water quality and creates or threatens to create, a condition of pollution in groundwater. Significant concentrations of salinity (measured as TDS and EC), significant contributors to salinity such as chloride and sulfate, and boron are present in oil field wastewater. Other potential constituents such as, but not limited to, metals, radionuclides, and organic compounds pose a threat to water quality. The concentrations of these waste constituents in wastewater being discharged needs to be known to evaluate the threat. In addition, all locations where these discharges are occurring needs to be known.

Underlying groundwater can be degraded if mixed with oil field wastewater. Elevated concentrations of oil field waste constituents could impair the groundwater for municipal and domestic supply and agricultural supply uses.

Under the prescribed authority of California Water Code section 13267, the Central Valley Water Board directs Discharger to:

1. **By 30 June 2015**, submit a technical report containing the following information:

    A. Identification of any discharges of oil field produced waters to land, including but not limited to ponds, since April of 2014 that are not listed in Attachment A;

    B. Collect representative samples of wastewater within each of the ponds. Samples must be analyzed in accordance with the water quality analysis and reporting requirements contained in Attachment B to this Order;[1]

[1] All previously obtained analytical data for oil field produced wastewater samples collected at the Facility, if any, with a description of the source and location for each analysis may be submitted in the alternative for re-running tests if the sample(s) was collected and analyzed within 12 months (one year) of the date of this order.

If a representative sample cannot feasibly be collected from one or more of the sources discharging to a surface impoundment(s), then a comment will need to be added to the technical report required by this Order demonstrating that collection of a representative sample from a specific source is not feasible within the required timeframe, and propose an alternative sampling procedure and expeditious time schedule for obtaining a representative sample for each source. Alternative sampling procedures and time schedules are subject to approval by the Assistant Executive Officer of the Central Valley Regional Water Quality Control Board.

C. All available information for each of the surface impoundment(s), including dimensions (i.e., length, width, and depth), latitude and longitude, Assessor's Parcel Numbers of the lease, duration of the discharge (in months), and the volume of wastewater discharged per year.

D. A location map that includes the following information:

i. All surface impoundment(s) at the Facility,
ii. Include the boundary lines for all leases at the Facility, and
iii. Legend with the name of the surface impoundment(s).

2. **By 30 April 2015**, Discharger needs to contact Dane S. Johnson of this office at (559) 445-5525 if you have received this Order and cannot collect the required samples.

The technical report required by this Order must be submitted to the attention of:

Ronald Holcomb
Central Valley Water Board
1685 E Street
Fresno, CA 93706

Based on the information submitted in the technical report, additional information or action may be required.

With the report required by this Order, Discharger shall provide under penalty of perjury under the laws of California a "Certification" statement to the Central Valley Water Board. The "Certification" shall include the following signed statement:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

The Central Valley Water Board reserves the right to issue a Notice of Violation or pursue enforcement for Discharger's activities after reviewing the documentation provided in response to this Order.

The Technical Report is to be signed and stamped by a California Professional Engineer (Registered as a Civil Engineer) or a registered California Professional Geologist. Any

laboratory analyses shall be performed by an analytical laboratory certified by the State of California for the analyses performed. Submissions pursuant to this Order shall include a statement by Discharger, or an authorized representative of Discharger, certifying (as described above) that the information submitted is true, complete, and accurate.

The failure to furnish the required report, or the submission of a substantially incomplete report or false information, is a misdemeanor, and may result in additional enforcement actions being taken against Discharger, including issuance of an Administrative Civil Liability Complaint pursuant to California Water Code section 13268. Liability may be imposed pursuant to California Water Code section 13268 in an amount not to exceed one thousand dollars ($1,000) for each day in which the violation occurs. All discharges to unpermitted ponds should cease pending review and submission of the technical information sought by this order.

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Resources Control Board (State Water Board) to review the action in accordance with California Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Board must receive the petition by 5:00 p.m., within 30 days after the date of this directive, except that if the thirtieth day following the date of this directive falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at: www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

If you have any questions regarding this matter, please contact Doug Patteson of this office at (559) 445-5577 or at doug.patteson@waterboards.ca.gov.

Clay L. Rodgers

Clay L. Rodgers
Assistant Executive Officer

cc: Julie Macedo, Office of Enforcement, State Water Resources Control Board, Sacramento
Mike Toland, California Division of Oil, Gas, and Geothermal Resources, Bakersfield

ATTACHMENT A

The following table contains the names of oil fields and lease(s) and the corresponding number of ponds that the Central Valley Water Board has identified as active and under your control:

OPERATOR	OIL FIELD	LEASE	NO. OF PONDS
James S. Anderson	Coalinga	Compass	1
		Continental	1

ATTACHMENT B

Water Quality Analysis

Wastewater samples collected from the ponds shall be analyzed by a laboratory certified by the Environmental Laboratory Accreditation Program using currently applicable United States Environmental Protection Agency-approved analytical methods for water for the following:

A. Total dissolved solids;

B. Metals listed in California Code of Regulations, title 22, section 66261.24. subdivision (a)(2)(A);

C. Benzene, toluene, ethylbenzene, and xylenes;

D. Total petroleum hydrocarbons as crude oil;

E. Polynuclear aromatic hydrocarbons (including acenaphthene, acenaphthylene, anthracene, benzo[a]anthracene, benzo[b]fluoranthene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorine, indeno[1,2,3-cd]pyrene, naphthalene, phenanthrene, and pyrene);

F. Radionuclides listed under California Code of Regulations, title 22, Table 64442;

G. Major and minor cations (including sodium, potassium, magnesium, and calcium);

H. Major and minor anions (including nitrate, chloride, sulfate, carbonate, bicarbonate, and bromide);

I. Trace elements (including lithium, strontium, boron, iron, and manganese).

Reporting Requirements

Water Quality information shall be submitted in a technical report that includes at a minimum:

A. Site plan(s) with the location(s) of where the samples were collected;

B. A description of how the samples, representative of the pond contents, were collected;

Table(s) of analytical results organized by pond number with the data also submitted electronically as an Excel spreadsheet.

ATTACHMENT E

JAMES S. ANDERSON

LABORATORY ANALYTICAL REPORT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-108243-1
TestAmerica Sample Delivery Group: Oil City, Coalinga
Client Project/Site: RWQCD Pond Testing, 2015
Revision: 2

For:
Envirotech Consultants, Inc.
5400 Rosedale Highway
Bakersfield, California 93308

Attn: Jane McNaboe

Authorized for release by:
6/9/2015 4:31:27 PM

Janice Hsu, Project Manager I
(949)261-1022
janice.hsu@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Client Sample Results 7
Method Summary 16
Lab Chronicle 17
QC Sample Results 20
QC Association Summary 38
Definitions/Glossary 44
Certification Summary 45
Chain of Custody 46
Receipt Checklists 47
Tracer Carrier Summary 48

Sample Summary

Client: Envirotech Consultants, Inc.
Project/Site: RWQCD Pond Testing, 2015

TestAmerica Job ID: 440-108243-1
SDG: Oil City, Coalinga

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-108243-1	Chambers and Mouren	Water	04/28/15 10:15	04/28/15 19:55
440-108243-2	Compass Lease	Water	04/28/15 11:45	04/28/15 19:55
440-108243-3	Continental	Water	04/28/15 13:15	04/28/15 19:55
440-108243-4	Trip Blank	Water	04/28/15 00:01	04/28/15 19:55

Job ID: 440-108243-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-108243-1

Comments
Revised reprot to add Gross Beta result.

Receipt
The samples were received on 4/28/2015 7:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 5.3º C, 5.5º C and 5.7º C.

GC/MS VOA
Method(s) 8260B: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, pH=7 was outside the required criteria when verified by the laboratory, and corrective action was not possible: Continental (440-108243-3).

Method(s) 8260B: The following volatile samples was received and analyzed with significant headspace in the sample vial(s): Continental (440-108243-3). Significant headspace is defined as a bubble greater than 6 mm in diameter.

Method(s) 8260B: The following sample was diluted due to the nature of the sample matrix: Continental (440-108243-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270C SIM: The internal standard response was below the 50% minimum QC limit for the following samples: Compass Lease (440-108243-2) and Continental (440-108243-3). The chromatography showed some matrix interference that could have adversely affected the recovery of the affected internal standard. All affected target analytes were flagged with an asterisk (*). If the matrix effect is isolated to the internal standards, then the affect on the associated target analyte results are potentially biased high.

Method(s) 8270C SIM: The following samples required a dilution due to the nature of the sample matrix: Chambers and Mouren (440-108243-1) and Continental (440-108243-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270C SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-252710 and analytical batch 440-254223. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method(s) 300.0: Due to the high concentration of chloride, the matrix spike / matrix spike duplicate (MS/MSD) for batch 251632 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 300.0: The following samples was diluted for nitrate due to the nature of the sample matrix (dark brown/oily liquids).: Chambers and Mouren (440-108243-1), Compass Lease (440-108243-2) and Continental (440-108243-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method(s) 8015B: The following volatile samples was analyzed with significant headspace in the sample vial(s): Chambers and Mouren (440-108243-1), Compass Lease (440-108243-2) and Continental (440-108243-3). Significant headspace is defined as a bubble greater than 6 mm in diameter. Samples were received with headspace.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 440-108243-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

GC Semi VOA
Method(s) 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 251872. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch. (LCS 440-251872/2-A)

Method(s) 8015B: The following sample required a dilution due to the nature of the sample matrix: Chambers and Mouren (440-108243-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8015B: The following sample required a dilution due to the nature of the sample matrix: Continental (440-108243-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8015B: The LCSD associated with prep batch 251872 showed a small contamination pattern in the C10-C12 range. The effect of this contamination was negligible and the LCSD was within acceptance limits. The LCS, Method Blank and samples did not contain this contamination. All sample was reported. (LCSD 440-251872/3-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010B: The following samples was diluted due to the nature of the sample matrix: Chambers and Mouren (440-108243-1), Compass Lease (440-108243-2) and Continental (440-108243-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) SM 2320B: The method blank for 252632 contained alkalinity above the reporting limit (RL). Associated samples were not re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Narrative

Job Narrative
440-108243-2

Comments
No additional comments.

Receipt
The samples were received on 4/28/2015 7:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 5.3º C, 5.5º C and 5.7º C.

RAD
Method(s) 9310: Gross Alpha Beta Prep Batch 190445:
The gross alpha and beta detection goal was not met for the following samples due to a reduction of the sample size attributed to high residual mass: Chambers and Mouren (440-108243-1), Compass Lease (440-108243-2), Continental (440-108243-3), (160-11674-A-3-B) and (160-11674-A-3-C DU). Analytical results are reported with the detection limit achieved.

Method(s) 9315: Radium 226 Prep Batch 188976:
The following sample has a barium carrier recovery above the 110% QC limit; (440-108243-F-1-B: 128%). There was physical evidence of

Job ID: 440-108243-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

matrix interference during the initial preparation of the sample (see prep Non-conformance memo's 56129 and 57273). The LCS/LCSD (laboratory control sample/laboratory control sample duplicate) associated with 160-188976 have acceptable spike recoveries demonstrating acceptable sample preparation and instrument performance. The samples associated with the batch have been truncated to 100% to reduce any potential bias a high carrier recovery may have. The data have been qualified and reported. Chambers and Mouren (440-108243-1), Compass Lease (440-108243-2), Continental (440-108243-3), (LCS 160-188976/2-A), (LCSD 160-188976/3-A) and (MB 160-188976/1-A).

Method(s) 9320: Radium-228 Batch: 188977
The following sample has a barium carrier recovery outside the upper control limit of 110% due to matrix interference noted during the initial preparation: 440-108243-F-1-C (128%). The samples associated with the batch have been truncated to 100% in order to minimize any potential bias a high carrier recovery may have on the results: Chambers and Mouren (440-108243-1), Compass Lease (440-108243-2), Continental (440-108243-3), (LCS 160-188977/2-A), (LCSD 160-188977/3-A) and (MB 160-188977/1-A).

Method(s) PrecSep-21, PrecSep_0: radium-228 batch # 188977 and radium-226 batch #188976
The barium carrier recovery is outside the upper control limit (110%) for the following samples: Chambers and Mouren (440-108243-1). The recover was 440-108243-1 (127.728%). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method(s) PrecSep-21: radium-228 batch #188977 and radium-226 batch #188976
A deviation from the Standard Operating Procedure (SOP) occurred. The following samples were very oily, dark waters: Chambers and Mouren (440-108243-1), Compass Lease (440-108243-2) and Continental (440-108243-3). Per the direction of the technical director, a 500 mL aliquot was taken to dryness, muffled, and digested with acid. The sample were then precipitated and standard procedure was resumed. A LCS/LCSD was performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6020A: 190483 - water. A-batch - 191371.

The following samples were diluted due to the nature of the sample matrix. The samples were high in salts, which cause internal standard and QC failures when the samples are run at a lesser dilution: Chambers and Mouren (440-108243-1), Compass Lease (440-108243-2), Continental (440-108243-3), (440-109149-S-1-A), (440-109149-S-1-B MS), (440-109149-S-1-C MSD) and (440-109149-S-1-A SD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Envirotech Consultants, Inc.
Project/Site: RWQCD Pond Testing, 2015

TestAmerica Job ID: 440-108243-1
SDG: Oil City, Coalinga

Client Sample ID: Chambers and Mouren

Lab Sample ID: 440-108243-1
Date Collected: 04/28/15 10:15
Matrix: Water
Date Received: 04/28/15 19:55

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.4**		2.0		ug/L			05/02/15 03:51	1
Ethylbenzene	ND		2.0		ug/L			05/02/15 03:51	1
m,p-Xylene	ND		2.0		ug/L			05/02/15 03:51	1
o-Xylene	ND		2.0		ug/L			05/02/15 03:51	1
Toluene	ND		2.0		ug/L			05/02/15 03:51	1
Xylenes, Total	ND		2.0		ug/L			05/02/15 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 128*		*05/02/15 03:51*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/02/15 03:51*	*1*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*05/02/15 03:51*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**9.7**		4.0		ug/L		05/04/15 10:40	05/12/15 18:30	20
Acenaphthylene	ND		4.0		ug/L		05/04/15 10:40	05/12/15 18:30	20
Anthracene	ND		4.0		ug/L		05/04/15 10:40	05/12/15 18:30	20
Benzo[a]anthracene	ND		4.0		ug/L		05/04/15 10:40	05/12/15 18:30	20
Benzo[a]pyrene	ND		4.0		ug/L		05/04/15 10:40	05/12/15 18:30	20
Benzo[b]fluoranthene	ND		4.0		ug/L		05/04/15 10:40	05/12/15 18:30	20
Benzo[g,h,i]perylene	ND		4.0		ug/L		05/04/15 10:40	05/12/15 18:30	20
Benzo[k]fluoranthene	ND		4.0		ug/L		05/04/15 10:40	05/12/15 18:30	20
Chrysene	**17**		4.0		ug/L		05/04/15 10:40	05/12/15 18:30	20
Dibenz(a,h)anthracene	ND		4.0		ug/L		05/04/15 10:40	05/12/15 18:30	20
Fluoranthene	**10**		4.0		ug/L		05/04/15 10:40	05/12/15 18:30	20
Fluorene	**34**		4.0		ug/L		05/04/15 10:40	05/12/15 18:30	20
Indeno[1,2,3-cd]pyrene	ND		4.0		ug/L		05/04/15 10:40	05/12/15 18:30	20
Naphthalene	ND		4.0		ug/L		05/04/15 10:40	05/12/15 18:30	20
Phenanthrene	**55**		4.0		ug/L		05/04/15 10:40	05/12/15 18:30	20
Pyrene	**33**		4.0		ug/L		05/04/15 10:40	05/12/15 18:30	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*0*	*X*	*31 - 120*	*05/04/15 10:40*	*05/12/15 18:30*	*20*
Nitrobenzene-d5	*0*	*X*	*25 - 133*	*05/04/15 10:40*	*05/12/15 18:30*	*20*
Terphenyl-d14	*0*	*X*	*10 - 120*	*05/04/15 10:40*	*05/12/15 18:30*	*20*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	**1000**		500		ug/L			05/07/15 22:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*65 - 140*		*05/07/15 22:01*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	**87**		20		mg/L		04/29/15 12:15	05/01/15 11:55	40
C23-C40	**110**		20		mg/L		04/29/15 12:15	05/01/15 11:55	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*14*	*X*	*45 - 120*	*04/29/15 12:15*	*05/01/15 11:55*	*40*

Client Sample Results

Client: Envirotech Consultants, Inc.
Project/Site: RWQCD Pond Testing, 2015

TestAmerica Job ID: 440-108243-1
SDG: Oil City, Coalinga

Client Sample ID: Chambers and Mouren

Lab Sample ID: 440-108243-1
Date Collected: 04/28/15 10:15
Matrix: Water
Date Received: 04/28/15 19:55

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**11**		2.5		mg/L			04/28/15 23:11	5
Nitrate as NO3	ND		2.5		mg/L			04/28/15 23:11	5
Chloride	**1200**		50		mg/L			04/29/15 19:12	100

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**170**		25		mg/L			04/28/15 23:26	50

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:18	1
Arsenic	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:18	1
Barium	**0.099**		0.010		mg/L		05/04/15 09:42	05/04/15 16:18	1
Beryllium	ND		0.0020		mg/L		05/04/15 09:42	05/04/15 16:18	1
Cadmium	ND		0.0050		mg/L		05/04/15 09:42	05/04/15 16:18	1
Chromium	ND		0.025		mg/L		05/04/15 09:42	05/05/15 20:16	5
Cobalt	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:18	1
Copper	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:18	1
Lead	ND		0.0050		mg/L		05/04/15 09:42	05/04/15 16:18	1
Molybdenum	ND		0.020		mg/L		05/04/15 09:42	05/04/15 16:18	1
Nickel	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:18	1
Selenium	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:18	1
Thallium	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:18	1
Vanadium	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:18	1
Zinc	ND		0.020		mg/L		05/04/15 09:42	05/04/15 16:18	1
Silver	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:18	1
Lithium	ND		0.25		mg/L		05/04/15 09:42	05/05/15 20:16	5
Potassium	**9.5**		0.50		mg/L		05/04/15 09:42	05/04/15 16:18	1
Manganese	**0.049**		0.020		mg/L		05/04/15 09:42	05/04/15 16:18	1
Magnesium	**5.7**		0.10		mg/L		05/04/15 09:42	05/05/15 20:16	5
Iron	**0.65**		0.040		mg/L		05/04/15 09:42	05/04/15 16:18	1
Strontium	**0.84**		0.020		mg/L		05/04/15 09:42	05/04/15 16:18	1
Sodium	**1300**		2.5		mg/L		05/04/15 09:42	05/04/15 16:55	5
Calcium	**22**		0.10		mg/L		05/04/15 09:42	05/04/15 16:18	1
Boron	**27**		0.25		mg/L		05/04/15 09:42	05/04/15 16:55	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<10		10	2.3	ug/L		05/12/15 13:57	05/18/15 15:15	20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<6.7		6.7	1.5	pCi/L		05/12/15 13:57	05/18/15 15:15	20

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/01/15 13:33	05/01/15 19:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**4000**		100		mg/L			05/01/15 07:55	1

Client Sample ID: Chambers and Mouren

Lab Sample ID: 440-108243-1
Date Collected: 04/28/15 10:15
Matrix: Water
Date Received: 04/28/15 19:55

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**1000**		4.0		mg/L			05/01/15 08:39	1
Bicarbonate ion as HCO3	**1300**		4.8		mg/L			05/01/15 08:39	1
Carbonate as CO3	ND		2.4		mg/L			05/01/15 08:39	1
Hydroxide as OH	ND		1.4		mg/L			05/01/15 08:39	1

Method: 9310 - Gross Alpha / Beta (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	7.84	U G	20.1	20.2	35.7	pCi/L	05/12/15 09:49	05/14/15 15:38	1
Gross Beta	11.9	U G	9.13	9.21	14.4	pCi/L	05/12/15 09:49	05/14/15 15:38	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.232**		0.136	0.137	0.193	pCi/L	05/01/15 11:49	05/26/15 06:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*128*	*X*	*40 - 110*	*05/01/15 11:49*	*05/26/15 06:53*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.388	U	0.406	0.407	0.662	pCi/L	05/01/15 11:57	05/18/15 11:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*128*	*X*	*40 - 110*	*05/01/15 11:57*	*05/18/15 11:50*	*1*
Y Carrier	*91.2*		*40 - 110*	*05/01/15 11:57*	*05/18/15 11:50*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.620**	**U**	0.430	0.429	0.662	pCi/L		05/01/15 11:49	1

Client Sample ID: Compass Lease

Lab Sample ID: 440-108243-2
Date Collected: 04/28/15 11:45
Matrix: Water
Date Received: 04/28/15 19:55

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		ug/L			05/02/15 04:20	1
Ethylbenzene	**5.9**		2.0		ug/L			05/02/15 04:20	1
m,p-Xylene	**18**		2.0		ug/L			05/02/15 04:20	1
o-Xylene	**9.8**		2.0		ug/L			05/02/15 04:20	1
Toluene	ND		2.0		ug/L			05/02/15 04:20	1
Xylenes, Total	**28**		2.0		ug/L			05/02/15 04:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 128*		*05/02/15 04:20*	*1*

Client Sample ID: Compass Lease

Lab Sample ID: 440-108243-2

Date Collected: 04/28/15 11:45
Matrix: Water
Date Received: 04/28/15 19:55

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		80 - 120		05/02/15 04:20	1
Dibromofluoromethane (Surr)	96		76 - 132		05/02/15 04:20	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20		ug/L		05/04/15 10:40	05/12/15 21:17	1
Acenaphthylene	ND		0.20		ug/L		05/04/15 10:40	05/12/15 21:17	1
Anthracene	ND		0.20		ug/L		05/04/15 10:40	05/12/15 21:17	1
Benzo[a]anthracene	ND		0.20		ug/L		05/04/15 10:40	05/12/15 21:17	1
Benzo[a]pyrene	ND	*	0.20		ug/L		05/04/15 10:40	05/12/15 21:17	1
Benzo[b]fluoranthene	ND	*	0.20		ug/L		05/04/15 10:40	05/12/15 21:17	1
Benzo[g,h,i]perylene	ND	*	0.20		ug/L		05/04/15 10:40	05/12/15 21:17	1
Benzo[k]fluoranthene	ND	*	0.20		ug/L		05/04/15 10:40	05/12/15 21:17	1
Chrysene	**0.32**		0.20		ug/L		05/04/15 10:40	05/12/15 21:17	1
Dibenz(a,h)anthracene	ND	*	0.20		ug/L		05/04/15 10:40	05/12/15 21:17	1
Fluoranthene	ND		0.20		ug/L		05/04/15 10:40	05/12/15 21:17	1
Fluorene	ND		0.20		ug/L		05/04/15 10:40	05/12/15 21:17	1
Indeno[1,2,3-cd]pyrene	ND	*	0.20		ug/L		05/04/15 10:40	05/12/15 21:17	1
Naphthalene	**0.40**		0.20		ug/L		05/04/15 10:40	05/12/15 21:17	1
Phenanthrene	ND		0.20		ug/L		05/04/15 10:40	05/12/15 21:17	1
Pyrene	**1.1**		0.20		ug/L		05/04/15 10:40	05/12/15 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	48		31 - 120	05/04/15 10:40	05/12/15 21:17	1
Nitrobenzene-d5	35		25 - 133	05/04/15 10:40	05/12/15 21:17	1
Terphenyl-d14	98		10 - 120	05/04/15 10:40	05/12/15 21:17	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	**210**		50		ug/L			05/07/15 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		65 - 140		05/07/15 21:36	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	**4.8**		1.0		mg/L		04/29/15 12:15	05/01/15 09:28	2
C23-C40	**5.7**		1.0		mg/L		04/29/15 12:15	05/01/15 09:28	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	63		45 - 120	04/29/15 12:15	05/01/15 09:28	2

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**64**		2.5		mg/L			04/29/15 00:13	5
Nitrate as NO3	ND		2.5		mg/L			04/29/15 00:13	5
Chloride	**4100**		500		mg/L			04/29/15 19:27	1000
Sulfate	**320**		25		mg/L			04/29/15 00:29	50

Client Sample Results

Client: Envirotech Consultants, Inc.
Project/Site: RWQCD Pond Testing, 2015

TestAmerica Job ID: 440-108243-1
SDG: Oil City, Coalinga

Client Sample ID: Compass Lease

Date Collected: 04/28/15 11:45
Date Received: 04/28/15 19:55

Lab Sample ID: 440-108243-2

Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:21	1
Arsenic	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:21	1
Barium	**0.89**		0.010		mg/L		05/04/15 09:42	05/04/15 16:21	1
Beryllium	ND		0.0020		mg/L		05/04/15 09:42	05/04/15 16:21	1
Cadmium	ND		0.0050		mg/L		05/04/15 09:42	05/04/15 16:21	1
Chromium	ND		0.025		mg/L		05/04/15 09:42	05/05/15 20:18	5
Cobalt	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:21	1
Copper	**0.012**		0.010		mg/L		05/04/15 09:42	05/04/15 16:21	1
Lead	ND		0.0050		mg/L		05/04/15 09:42	05/04/15 16:21	1
Molybdenum	ND		0.020		mg/L		05/04/15 09:42	05/04/15 16:21	1
Nickel	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:21	1
Selenium	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:21	1
Thallium	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:21	1
Vanadium	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:21	1
Zinc	**0.025**		0.020		mg/L		05/04/15 09:42	05/04/15 16:21	1
Silver	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:21	1
Lithium	**1.7**		0.25		mg/L		05/04/15 09:42	05/05/15 20:18	5
Potassium	**160**		0.50		mg/L		05/04/15 09:42	05/04/15 16:21	1
Manganese	**1.8**		0.020		mg/L		05/04/15 09:42	05/04/15 16:21	1
Magnesium	**150**		0.10		mg/L		05/04/15 09:42	05/05/15 20:18	5
Iron	**71**		0.040		mg/L		05/04/15 09:42	05/04/15 16:21	1
Strontium	**6.2**		0.020		mg/L		05/04/15 09:42	05/04/15 16:21	1
Sodium	**2700**		2.5		mg/L		05/04/15 09:42	05/04/15 16:57	5
Calcium	**370**		0.10		mg/L		05/04/15 09:42	05/04/15 16:21	1
Boron	**30**		0.25		mg/L		05/04/15 09:42	05/04/15 16:57	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<25		25	5.8	ug/L		05/12/15 13:57	05/18/15 15:20	50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<17		17	3.9	pCi/L		05/12/15 13:57	05/18/15 15:20	50

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/01/15 13:33	05/01/15 19:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**9100**		100		mg/L			05/01/15 07:55	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**980**		4.0		mg/L			05/01/15 08:24	1
Bicarbonate ion as HCO3	**1200**		4.8		mg/L			05/01/15 08:24	1
Carbonate as CO3	ND		2.4		mg/L			05/01/15 08:24	1
Hydroxide as OH	ND		1.4		mg/L			05/01/15 08:24	1

Method: 9310 - Gross Alpha / Beta (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-8.60	U G	21.4	21.4	50.4	pCi/L	05/12/15 09:49	05/14/15 15:38	1

Client Sample ID: Compass Lease

Lab Sample ID: 440-108243-2

Date Collected: 04/28/15 11:45
Matrix: Water
Date Received: 04/28/15 19:55

Method: 9310 - Gross Alpha / Beta (GFPC) (Continued)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	**58.1**	**G**	19.8	20.7	25.5	pCi/L	05/12/15 09:49	05/14/15 15:38	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.35**		0.232	0.262	0.130	pCi/L	05/01/15 11:49	05/26/15 06:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.8*		*40 - 110*	*05/01/15 11:49*	*05/26/15 06:53*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.298	U	0.461	0.462	0.778	pCi/L	05/01/15 11:57	05/18/15 11:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.8*		*40 - 110*	*05/01/15 11:57*	*05/18/15 11:51*	*1*
Y Carrier	*90.8*		*40 - 110*	*05/01/15 11:57*	*05/18/15 11:51*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.648**		0.520	0.531	0.778	pCi/L		05/01/15 11:49	1

Client Sample ID: Continental

Lab Sample ID: 440-108243-3

Date Collected: 04/28/15 13:15
Matrix: Water
Date Received: 04/28/15 19:55

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		8.0		ug/L			05/02/15 21:00	4
Ethylbenzene	ND		8.0		ug/L			05/02/15 21:00	4
m,p-Xylene	ND		8.0		ug/L			05/02/15 21:00	4
o-Xylene	ND		8.0		ug/L			05/02/15 21:00	4
Toluene	ND		8.0		ug/L			05/02/15 21:00	4
Xylenes, Total	ND		8.0		ug/L			05/02/15 21:00	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 128*		*05/02/15 21:00*	*4*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*		*05/02/15 21:00*	*4*
Dibromofluoromethane (Surr)	*95*		*76 - 132*		*05/02/15 21:00*	*4*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**21**		4.0		ug/L		05/04/15 10:40	05/12/15 21:37	20
Acenaphthylene	ND		4.0		ug/L		05/04/15 10:40	05/12/15 21:37	20

Client Sample ID: Continental

Date Collected: 04/28/15 13:15
Date Received: 04/28/15 19:55

Lab Sample ID: 440-108243-3

Matrix: Water

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		4.0		ug/L		05/04/15 10:40	05/12/15 21:37	20
Benzo[a]anthracene	**12**	*	4.0		ug/L		05/04/15 10:40	05/12/15 21:37	20
Benzo[a]pyrene	ND	*	4.0		ug/L		05/04/15 10:40	05/12/15 21:37	20
Benzo[b]fluoranthene	ND	*	4.0		ug/L		05/04/15 10:40	05/12/15 21:37	20
Benzo[g,h,i]perylene	ND	*	4.0		ug/L		05/04/15 10:40	05/12/15 21:37	20
Benzo[k]fluoranthene	ND	*	4.0		ug/L		05/04/15 10:40	05/12/15 21:37	20
Chrysene	**51**	*	4.0		ug/L		05/04/15 10:40	05/12/15 21:37	20
Dibenz(a,h)anthracene	ND	*	4.0		ug/L		05/04/15 10:40	05/12/15 21:37	20
Fluoranthene	**36**		4.0		ug/L		05/04/15 10:40	05/12/15 21:37	20
Fluorene	**78**		4.0		ug/L		05/04/15 10:40	05/12/15 21:37	20
Indeno[1,2,3-cd]pyrene	ND	*	4.0		ug/L		05/04/15 10:40	05/12/15 21:37	20
Naphthalene	ND		4.0		ug/L		05/04/15 10:40	05/12/15 21:37	20
Phenanthrene	**350**		4.0		ug/L		05/04/15 10:40	05/12/15 21:37	20
Pyrene	**64**	*	4.0		ug/L		05/04/15 10:40	05/12/15 21:37	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*459*	*X*	*31 - 120*	*05/04/15 10:40*	*05/12/15 21:37*	*20*
Nitrobenzene-d5	*2379*	*X*	*25 - 133*	*05/04/15 10:40*	*05/12/15 21:37*	*20*
Terphenyl-d14	*0*	*X **	*10 - 120*	*05/04/15 10:40*	*05/12/15 21:37*	*20*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	**30000**		5000		ug/L			05/07/15 22:27	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*65 - 140*		*05/07/15 22:27*	*100*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	**260**		40		mg/L		04/29/15 12:15	05/01/15 15:13	40
C23-C40	**260**		40		mg/L		04/29/15 12:15	05/01/15 15:13	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*44*	*X*	*45 - 120*	*04/29/15 12:15*	*05/01/15 15:13*	*40*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**11**		2.5		mg/L			04/29/15 00:45	5
Nitrate as NO3	ND		2.5		mg/L			04/29/15 00:45	5
Chloride	**970**		25		mg/L			04/29/15 01:00	50
Sulfate	**330**		25		mg/L			04/29/15 01:00	50

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:23	1
Arsenic	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:23	1
Barium	**0.043**		0.010		mg/L		05/04/15 09:42	05/04/15 16:23	1
Beryllium	ND		0.0020		mg/L		05/04/15 09:42	05/04/15 16:23	1
Cadmium	ND		0.0050		mg/L		05/04/15 09:42	05/04/15 16:23	1
Chromium	ND		0.025		mg/L		05/04/15 09:42	05/05/15 20:20	5
Cobalt	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:23	1

Client Sample ID: Continental

Date Collected: 04/28/15 13:15
Date Received: 04/28/15 19:55

Lab Sample ID: 440-108243-3

Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	**0.021**		0.010		mg/L		05/04/15 09:42	05/04/15 16:23	1
Lead	ND		0.0050		mg/L		05/04/15 09:42	05/04/15 16:23	1
Molybdenum	ND		0.020		mg/L		05/04/15 09:42	05/04/15 16:23	1
Nickel	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:23	1
Selenium	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:23	1
Thallium	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:23	1
Vanadium	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:23	1
Zinc	ND		0.020		mg/L		05/04/15 09:42	05/04/15 16:23	1
Silver	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:23	1
Lithium	**0.54**		0.25		mg/L		05/04/15 09:42	05/05/15 20:20	5
Potassium	**17**		0.50		mg/L		05/04/15 09:42	05/04/15 16:23	1
Manganese	ND		0.020		mg/L		05/04/15 09:42	05/04/15 16:23	1
Magnesium	**6.8**		0.10		mg/L		05/04/15 09:42	05/05/15 20:20	5
Iron	**0.15**		0.040		mg/L		05/04/15 09:42	05/04/15 16:23	1
Strontium	**1.2**		0.020		mg/L		05/04/15 09:42	05/04/15 16:23	1
Sodium	**1700**		2.5		mg/L		05/04/15 09:42	05/04/15 16:59	5
Calcium	**23**		0.10		mg/L		05/04/15 09:42	05/04/15 16:23	1
Boron	**14**		0.050		mg/L		05/04/15 09:42	05/04/15 16:23	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<10		10	2.3	ug/L		05/12/15 13:57	05/18/15 15:24	20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<6.7		6.7	1.5	pCi/L		05/12/15 13:57	05/18/15 15:24	20

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/01/15 13:21	05/01/15 19:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**4800**		100		mg/L			05/01/15 07:55	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**2200**	**B**	4.0		mg/L			05/04/15 04:39	1
Bicarbonate ion as HCO3	**2700**	**B**	4.8		mg/L			05/04/15 04:39	1
Carbonate as CO3	ND		2.4		mg/L			05/04/15 04:39	1
Hydroxide as OH	ND		1.4		mg/L			05/04/15 04:39	1

Method: 9310 - Gross Alpha / Beta (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-8.83	U G	11.7	11.8	29.3	pCi/L	05/12/15 09:49	05/14/15 15:38	1
Gross Beta	9.90	U G	7.96	8.02	12.6	pCi/L	05/12/15 09:49	05/14/15 15:38	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.212**		0.102	0.104	0.123	pCi/L	05/01/15 11:49	05/26/15 06:53	1

Client Sample Results

Client: Envirotech Consultants, Inc.
Project/Site: RWQCD Pond Testing, 2015

TestAmerica Job ID: 440-108243-1
SDG: Oil City, Coalinga

Client Sample ID: Continental

Lab Sample ID: 440-108243-3
Matrix: Water

Date Collected: 04/28/15 13:15
Date Received: 04/28/15 19:55

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110	05/01/15 11:49	05/26/15 06:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.142	U	0.384	0.384	0.664	pCi/L	05/01/15 11:57	05/18/15 11:51	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110	05/01/15 11:57	05/18/15 11:51	1
Y Carrier	90.1		40 - 110	05/01/15 11:57	05/18/15 11:51	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.354**	**U**	0.400	0.398	0.664	pCi/L		05/01/15 11:49	1

Client Sample ID: Trip Blank

Lab Sample ID: 440-108243-4
Matrix: Water

Date Collected: 04/28/15 00:01
Date Received: 04/28/15 19:55

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		ug/L			05/05/15 05:41	1
Ethylbenzene	ND		2.0		ug/L			05/05/15 05:41	1
m,p-Xylene	ND		2.0		ug/L			05/05/15 05:41	1
o-Xylene	ND		2.0		ug/L			05/05/15 05:41	1
Toluene	ND		2.0		ug/L			05/05/15 05:41	1
Xylenes, Total	ND		2.0		ug/L			05/05/15 05:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 128		05/05/15 05:41	1
4-Bromofluorobenzene (Surr)	104		80 - 120		05/05/15 05:41	1
Dibromofluoromethane (Surr)	112		76 - 132		05/05/15 05:41	1

Method Summary

Client: Envirotech Consultants, Inc.
Project/Site: RWQCD Pond Testing, 2015

TestAmerica Job ID: 440-108243-1
SDG: Oil City, Coalinga

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Gasoline Range Organics - (GC)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
300.0	Anions, Ion Chromatography	MCAWW	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
6020A	Metals (ICP/MS)	SW846	TAL SL
7470A	Mercury (CVAA)	SW846	TAL IRV
SM 2320B	Alkalinity	SM	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
9310	Gross Alpha / Beta (GFPC)	SW846	TAL SL
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022
TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: Envirotech Consultants, Inc.
Project/Site: RWQCD Pond Testing, 2015

TestAmerica Job ID: 440-108243-1
SDG: Oil City, Coalinga

Client Sample ID: Chambers and Mouren

Lab Sample ID: 440-108243-1
Date Collected: 04/28/15 10:15
Matrix: Water
Date Received: 04/28/15 19:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	252497	05/02/15 03:51	WK	TAL IRV
Total/NA	Prep	3520C			1005 mL	1 mL	252710	05/04/15 10:40	IVA	TAL IRV
Total/NA	Analysis	8270C SIM		20	1005 mL	1 mL	254448	05/12/15 18:30	AI	TAL IRV
Total/NA	Analysis	8015B		10	10 mL	10 mL	253491	05/07/15 22:01	AK	TAL IRV
Total/NA	Prep	3510C			995 mL	1 mL	251872	04/29/15 12:15	MMT	TAL IRV
Total/NA	Analysis	8015B		40	995 mL	1 mL	252365	05/01/15 11:55	KW	TAL IRV
Total/NA	Analysis	300.0		5	5 mL		251631	04/28/15 23:11	SP	TAL IRV
Total/NA	Analysis	300.0		5	5 mL		251632	04/28/15 23:11	SP	TAL IRV
Total/NA	Analysis	300.0	DL	50	5 mL		251632	04/28/15 23:26	SP	TAL IRV
Total/NA	Analysis	300.0		100	5 mL		251904	04/29/15 19:12	SP	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	252701	05/04/15 09:42	APS	TAL IRV
Total Recoverable	Analysis	6010B		5	25 mL	25 mL	253113	05/05/15 20:16	TK	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	252701	05/04/15 09:42	APS	TAL IRV
Total Recoverable	Analysis	6010B		1	25 mL	25 mL	252812	05/04/15 16:18	TK	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	252701	05/04/15 09:42	APS	TAL IRV
Total Recoverable	Analysis	6010B		5	25 mL	25 mL	252812	05/04/15 16:55	TK	TAL IRV
Total/NA	Prep	3010A			50 mL	50 mL	190483	05/12/15 13:57	DAS	TAL SL
Total/NA	Analysis	6020A		20	50 mL	50 mL	191371	05/18/15 15:15	CCB	TAL SL
Total/NA	Prep	7470A			20 mL	20 mL	252444	05/01/15 13:33	DB	TAL IRV
Total/NA	Analysis	7470A		1	20 mL	20 mL	252722	05/01/15 19:19	DB	TAL IRV
Total/NA	Analysis	SM 2320B		1			252368	05/01/15 08:39	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	252350	05/01/15 07:55	XL	TAL IRV
Total/NA	Prep	Evaporation			15 mL	1.0 g	190445	05/12/15 09:49	SCB	TAL SL
Total/NA	Analysis	9310		1	15 mL		190766	05/14/15 15:38	SMP	TAL SL
Total/NA	Prep	PrecSep-21			500.95 mL	1.0 g	188976	05/01/15 11:49	LEM	TAL SL
Total/NA	Analysis	9315		1	500.95 mL		192238	05/26/15 06:53	RTM	TAL SL
Total/NA	Prep	PrecSep_0			500.95 mL	1.0 g	188977	05/01/15 11:57	LEM	TAL SL
Total/NA	Analysis	9320		1	500.95 mL		191205	05/18/15 11:50	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			193271	05/01/15 11:49	MLK	TAL SL

Client Sample ID: Compass Lease

Lab Sample ID: 440-108243-2
Date Collected: 04/28/15 11:45
Matrix: Water
Date Received: 04/28/15 19:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	252497	05/02/15 04:20	WK	TAL IRV
Total/NA	Prep	3520C			995 mL	1 mL	252710	05/04/15 10:40	IVA	TAL IRV
Total/NA	Analysis	8270C SIM		1	995 mL	1 mL	254448	05/12/15 21:17	AI	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	253491	05/07/15 21:36	AK	TAL IRV
Total/NA	Prep	3510C			1000 mL	1 mL	251872	04/29/15 12:15	MMT	TAL IRV
Total/NA	Analysis	8015B		2	1000 mL	1 mL	252365	05/01/15 09:28	KW	TAL IRV
Total/NA	Analysis	300.0		5	5 mL		251631	04/29/15 00:13	SP	TAL IRV

Client Sample ID: Compass Lease — Lab Sample ID: 440-108243-2

Date Collected: 04/28/15 11:45 — **Matrix: Water**
Date Received: 04/28/15 19:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	5 mL		251632	04/29/15 00:13	SP	TAL IRV
Total/NA	Analysis	300.0		50	5 mL		251632	04/29/15 00:29	SP	TAL IRV
Total/NA	Analysis	300.0		1000	5 mL		251904	04/29/15 19:27	SP	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	252701	05/04/15 09:42	APS	TAL IRV
Total Recoverable	Analysis	6010B		5	25 mL	25 mL	253113	05/05/15 20:18	TK	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	252701	05/04/15 09:42	APS	TAL IRV
Total Recoverable	Analysis	6010B		1	25 mL	25 mL	252812	05/04/15 16:21	TK	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	252701	05/04/15 09:42	APS	TAL IRV
Total Recoverable	Analysis	6010B		5	25 mL	25 mL	252812	05/04/15 16:57	TK	TAL IRV
Total/NA	Prep	3010A			50 mL	50 mL	190483	05/12/15 13:57	DAS	TAL SL
Total/NA	Analysis	6020A		50	50 mL	50 mL	191371	05/18/15 15:20	CCB	TAL SL
Total/NA	Prep	7470A			20 mL	20 mL	252444	05/01/15 13:33	DB	TAL IRV
Total/NA	Analysis	7470A		1	20 mL	20 mL	252722	05/01/15 19:16	DB	TAL IRV
Total/NA	Analysis	SM 2320B		1			252368	05/01/15 08:24	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	252350	05/01/15 07:55	XL	TAL IRV
Total/NA	Prep	Evaporation			6 mL	1.0 g	190445	05/12/15 09:49	SCB	TAL SL
Total/NA	Analysis	9310		1	6 mL		190766	05/14/15 15:38	SMP	TAL SL
Total/NA	Prep	PrecSep-21			500.11 mL	1.0 g	188976	05/01/15 11:49	LEM	TAL SL
Total/NA	Analysis	9315		1	500.11 mL		192238	05/26/15 06:53	RTM	TAL SL
Total/NA	Prep	PrecSep_0			500.11 mL	1.0 g	188977	05/01/15 11:57	LEM	TAL SL
Total/NA	Analysis	9320		1	500.11 mL		191205	05/18/15 11:51	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			193271	05/01/15 11:49	MLK	TAL SL

Client Sample ID: Continental — Lab Sample ID: 440-108243-3

Date Collected: 04/28/15 13:15 — **Matrix: Water**
Date Received: 04/28/15 19:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	10 mL	10 mL	252553	05/02/15 21:00	AL	TAL IRV
Total/NA	Prep	3520C			1000 mL	1 mL	252710	05/04/15 10:40	IVA	TAL IRV
Total/NA	Analysis	8270C SIM		20	1000 mL	1 mL	254448	05/12/15 21:37	AI	TAL IRV
Total/NA	Analysis	8015B		100	10 mL	10 mL	253491	05/07/15 22:27	AK	TAL IRV
Total/NA	Prep	3510C			1000 mL	2 mL	251872	04/29/15 12:15	MMT	TAL IRV
Total/NA	Analysis	8015B		40	1000 mL	2 mL	252365	05/01/15 15:13	KW	TAL IRV
Total/NA	Analysis	300.0		5	5 mL		251631	04/29/15 00:45	SP	TAL IRV
Total/NA	Analysis	300.0		5	5 mL		251632	04/29/15 00:45	SP	TAL IRV
Total/NA	Analysis	300.0		50	5 mL		251632	04/29/15 01:00	SP	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	252701	05/04/15 09:42	APS	TAL IRV
Total Recoverable	Analysis	6010B		5	25 mL	25 mL	253113	05/05/15 20:20	TK	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	252701	05/04/15 09:42	APS	TAL IRV
Total Recoverable	Analysis	6010B		1	25 mL	25 mL	252812	05/04/15 16:23	TK	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	252701	05/04/15 09:42	APS	TAL IRV

Lab Chronicle

Client: Envirotech Consultants, Inc.
Project/Site: RWQCD Pond Testing, 2015

TestAmerica Job ID: 440-108243-1
SDG: Oil City, Coalinga

Client Sample ID: Continental

Lab Sample ID: 440-108243-3
Date Collected: 04/28/15 13:15
Matrix: Water
Date Received: 04/28/15 19:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6010B		5	25 mL	25 mL	252812	05/04/15 16:59	TK	TAL IRV
Total/NA	Prep	3010A			50 mL	50 mL	190483	05/12/15 13:57	DAS	TAL SL
Total/NA	Analysis	6020A		20	50 mL	50 mL	191371	05/18/15 15:24	CCB	TAL SL
Total/NA	Prep	7470A			20 mL	20 mL	252444	05/01/15 13:21	DB	TAL IRV
Total/NA	Analysis	7470A		1	20 mL	20 mL	252722	05/01/15 19:14	DB	TAL IRV
Total/NA	Analysis	SM 2320B		1	25.0 mL	25 mL	252632	05/04/15 04:39	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	252350	05/01/15 07:55	XL	TAL IRV
Total/NA	Prep	Evaporation			12 mL	1.0 g	190445	05/12/15 09:49	SCB	TAL SL
Total/NA	Analysis	9310		1	12 mL		190766	05/14/15 15:38	SMP	TAL SL
Total/NA	Prep	PrecSep-21			500.14 mL	1.0 g	188976	05/01/15 11:49	LEM	TAL SL
Total/NA	Analysis	9315		1	500.14 mL		192238	05/26/15 06:53	RTM	TAL SL
Total/NA	Prep	PrecSep_0			500.14 mL	1.0 g	188977	05/01/15 11:57	LEM	TAL SL
Total/NA	Analysis	9320		1	500.14 mL		191205	05/18/15 11:51	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			193271	05/01/15 11:49	MLK	TAL SL

Client Sample ID: Trip Blank

Lab Sample ID: 440-108243-4
Date Collected: 04/28/15 00:01
Matrix: Water
Date Received: 04/28/15 19:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	252800	05/05/15 05:41	WK	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-252497/4
Matrix: Water
Analysis Batch: 252497

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		ug/L			05/01/15 18:22	1
Ethylbenzene	ND		2.0		ug/L			05/01/15 18:22	1
m,p-Xylene	ND		2.0		ug/L			05/01/15 18:22	1
o-Xylene	ND		2.0		ug/L			05/01/15 18:22	1
Toluene	ND		2.0		ug/L			05/01/15 18:22	1
Xylenes, Total	ND		2.0		ug/L			05/01/15 18:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 128*		*05/01/15 18:22*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*05/01/15 18:22*	*1*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*05/01/15 18:22*	*1*

Lab Sample ID: LCS 440-252497/5
Matrix: Water
Analysis Batch: 252497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	25.6		ug/L		102	68 - 130
Ethylbenzene	25.0	26.9		ug/L		108	70 - 130
m,p-Xylene	25.0	27.6		ug/L		110	70 - 130
o-Xylene	25.0	25.9		ug/L		104	70 - 130
Toluene	25.0	26.8		ug/L		107	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 128*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*76 - 132*

Lab Sample ID: 440-108054-A-5 MS
Matrix: Water
Analysis Batch: 252497

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	25.1		ug/L		100	66 - 130
Ethylbenzene	ND		25.0	27.5		ug/L		110	70 - 130
m,p-Xylene	ND		25.0	28.3		ug/L		113	70 - 133
o-Xylene	ND		25.0	26.0		ug/L		104	70 - 133
Toluene	ND		25.0	27.2		ug/L		109	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 128*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*76 - 132*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-108054-A-5 MSD
Matrix: Water
Analysis Batch: 252497

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	24.9		ug/L		100	66 - 130	1	20
Ethylbenzene	ND		25.0	26.6		ug/L		106	70 - 130	4	20
m,p-Xylene	ND		25.0	27.7		ug/L		111	70 - 133	2	25
o-Xylene	ND		25.0	25.3		ug/L		101	70 - 133	3	20
Toluene	ND		25.0	26.7		ug/L		107	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*80 - 128*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*76 - 132*

Lab Sample ID: MB 440-252553/4
Matrix: Water
Analysis Batch: 252553

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		ug/L			05/02/15 10:47	1
Ethylbenzene	ND		2.0		ug/L			05/02/15 10:47	1
m,p-Xylene	ND		2.0		ug/L			05/02/15 10:47	1
o-Xylene	ND		2.0		ug/L			05/02/15 10:47	1
Toluene	ND		2.0		ug/L			05/02/15 10:47	1
Xylenes, Total	ND		2.0		ug/L			05/02/15 10:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 128*		*05/02/15 10:47*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/02/15 10:47*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*05/02/15 10:47*	*1*

Lab Sample ID: LCS 440-252553/5
Matrix: Water
Analysis Batch: 252553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	25.5		ug/L		102	68 - 130
Ethylbenzene	25.0	23.2		ug/L		93	70 - 130
m,p-Xylene	25.0	23.8		ug/L		95	70 - 130
o-Xylene	25.0	24.4		ug/L		98	70 - 130
Toluene	25.0	24.0		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*80 - 128*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*76 - 132*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-108359-B-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 252553

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	24.9		ug/L		100	66 - 130
Ethylbenzene	ND		25.0	23.9		ug/L		96	70 - 130
m,p-Xylene	ND		25.0	24.4		ug/L		98	70 - 133
o-Xylene	ND		25.0	24.5		ug/L		98	70 - 133
Toluene	ND		25.0	24.0		ug/L		96	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 128*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*76 - 132*

Lab Sample ID: 440-108359-B-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 252553

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	24.7		ug/L		99	66 - 130	1	20
Ethylbenzene	ND		25.0	24.1		ug/L		97	70 - 130	1	20
m,p-Xylene	ND		25.0	24.8		ug/L		99	70 - 133	1	25
o-Xylene	ND		25.0	25.2		ug/L		101	70 - 133	3	20
Toluene	ND		25.0	24.6		ug/L		98	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 128*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*76 - 132*

Lab Sample ID: MB 440-252800/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 252800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		ug/L			05/04/15 19:25	1
Ethylbenzene	ND		2.0		ug/L			05/04/15 19:25	1
m,p-Xylene	ND		2.0		ug/L			05/04/15 19:25	1
o-Xylene	ND		2.0		ug/L			05/04/15 19:25	1
Toluene	ND		2.0		ug/L			05/04/15 19:25	1
Xylenes, Total	ND		2.0		ug/L			05/04/15 19:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 128*		*05/04/15 19:25*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*05/04/15 19:25*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*05/04/15 19:25*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-252800/5
Matrix: Water
Analysis Batch: 252800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	25.4		ug/L		102	68 - 130
Ethylbenzene	25.0	25.3		ug/L		101	70 - 130
m,p-Xylene	25.0	25.8		ug/L		103	70 - 130
o-Xylene	25.0	25.5		ug/L		102	70 - 130
Toluene	25.0	25.6		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 128*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*76 - 132*

Lab Sample ID: 440-108356-B-1 MS
Matrix: Water
Analysis Batch: 252800

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	26.0		ug/L		103	66 - 130
Ethylbenzene	ND		25.0	25.4		ug/L		102	70 - 130
m,p-Xylene	ND		25.0	26.3		ug/L		105	70 - 133
o-Xylene	ND		25.0	26.4		ug/L		106	70 - 133
Toluene	ND		25.0	26.0		ug/L		104	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 128*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*76 - 132*

Lab Sample ID: 440-108356-B-1 MSD
Matrix: Water
Analysis Batch: 252800

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	25.6		ug/L		101	66 - 130	2	20
Ethylbenzene	ND		25.0	25.5		ug/L		102	70 - 130	1	20
m,p-Xylene	ND		25.0	26.8		ug/L		107	70 - 133	2	25
o-Xylene	ND		25.0	26.4		ug/L		106	70 - 133	0	20
Toluene	ND		25.0	26.3		ug/L		105	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 128*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*76 - 132*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-252710/1-A
Matrix: Water
Analysis Batch: 254223

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 252710

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20		ug/L		05/04/15 10:40	05/11/15 14:53	1
Acenaphthylene	ND		0.20		ug/L		05/04/15 10:40	05/11/15 14:53	1
Anthracene	ND		0.20		ug/L		05/04/15 10:40	05/11/15 14:53	1
Benzo[a]anthracene	ND		0.20		ug/L		05/04/15 10:40	05/11/15 14:53	1
Benzo[a]pyrene	ND		0.20		ug/L		05/04/15 10:40	05/11/15 14:53	1
Benzo[b]fluoranthene	ND		0.20		ug/L		05/04/15 10:40	05/11/15 14:53	1
Benzo[g,h,i]perylene	ND		0.20		ug/L		05/04/15 10:40	05/11/15 14:53	1
Benzo[k]fluoranthene	ND		0.20		ug/L		05/04/15 10:40	05/11/15 14:53	1
Chrysene	ND		0.20		ug/L		05/04/15 10:40	05/11/15 14:53	1
Dibenz(a,h)anthracene	ND		0.20		ug/L		05/04/15 10:40	05/11/15 14:53	1
Fluoranthene	ND		0.20		ug/L		05/04/15 10:40	05/11/15 14:53	1
Fluorene	ND		0.20		ug/L		05/04/15 10:40	05/11/15 14:53	1
Indeno[1,2,3-cd]pyrene	ND		0.20		ug/L		05/04/15 10:40	05/11/15 14:53	1
Naphthalene	ND		0.20		ug/L		05/04/15 10:40	05/11/15 14:53	1
Phenanthrene	ND		0.20		ug/L		05/04/15 10:40	05/11/15 14:53	1
Pyrene	ND		0.20		ug/L		05/04/15 10:40	05/11/15 14:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*31 - 120*	*05/04/15 10:40*	*05/11/15 14:53*	*1*
Nitrobenzene-d5	*56*		*25 - 133*	*05/04/15 10:40*	*05/11/15 14:53*	*1*
Terphenyl-d14	*97*		*10 - 120*	*05/04/15 10:40*	*05/11/15 14:53*	*1*

Lab Sample ID: LCS 440-252710/2-A
Matrix: Water
Analysis Batch: 254223

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1.00	0.744		ug/L		74	47 - 103
Acenaphthylene	1.00	0.756		ug/L		76	45 - 102
Anthracene	1.00	0.731		ug/L		73	47 - 111
Benzo[a]anthracene	1.00	0.802		ug/L		80	56 - 110
Benzo[a]pyrene	1.00	0.780		ug/L		78	48 - 110
Benzo[b]fluoranthene	1.00	0.858		ug/L		86	53 - 116
Benzo[g,h,i]perylene	1.00	0.968		ug/L		97	44 - 130
Benzo[k]fluoranthene	1.00	0.821		ug/L		82	51 - 127
Chrysene	1.00	0.830		ug/L		83	52 - 118
Dibenz(a,h)anthracene	1.00	0.795		ug/L		79	44 - 125
Fluoranthene	1.00	0.940		ug/L		94	51 - 116
Fluorene	1.00	0.807		ug/L		81	50 - 106
Indeno[1,2,3-cd]pyrene	1.00	0.822		ug/L		82	41 - 127
Naphthalene	1.00	0.670		ug/L		67	40 - 100
Phenanthrene	1.00	0.835		ug/L		84	49 - 110
Pyrene	1.00	0.820		ug/L		82	41 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*82*		*31 - 120*
Nitrobenzene-d5	*68*		*25 - 133*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 440-252710/2-A
Matrix: Water
Analysis Batch: 254223

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252710

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*93*		*10 - 120*

Lab Sample ID: LCSD 440-252710/3-A
Matrix: Water
Analysis Batch: 254223

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 252710

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			1.00	0.748		ug/L		75	47 - 103	0	35
Acenaphthylene			1.00	0.774		ug/L		77	45 - 102	2	35
Anthracene			1.00	0.762		ug/L		76	47 - 111	4	35
Benzo[a]anthracene			1.00	0.866		ug/L		87	56 - 110	8	35
Benzo[a]pyrene			1.00	0.820		ug/L		82	48 - 110	5	35
Benzo[b]fluoranthene			1.00	0.874		ug/L		87	53 - 116	2	35
Benzo[g,h,i]perylene			1.00	0.976		ug/L		98	44 - 130	1	35
Benzo[k]fluoranthene			1.00	0.864		ug/L		86	51 - 127	5	35
Chrysene			1.00	0.885		ug/L		89	52 - 118	6	35
Dibenz(a,h)anthracene			1.00	0.785		ug/L		79	44 - 125	1	35
Fluoranthene			1.00	0.833		ug/L		83	51 - 116	12	35
Fluorene			1.00	0.791		ug/L		79	50 - 106	2	35
Indeno[1,2,3-cd]pyrene			1.00	0.863		ug/L		86	41 - 127	5	35
Naphthalene			1.00	0.698		ug/L		70	40 - 100	4	35
Phenanthrene			1.00	0.862		ug/L		86	49 - 110	3	35
Pyrene			1.00	0.924		ug/L		92	41 - 115	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*83*		*31 - 120*
Nitrobenzene-d5	*80*		*25 - 133*
Terphenyl-d14	*97*		*10 - 120*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 440-253491/4
Matrix: Water
Analysis Batch: 253491

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50		ug/L			05/07/15 09:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*65 - 140*		*05/07/15 09:52*	*1*

Lab Sample ID: LCS 440-253491/3
Matrix: Water
Analysis Batch: 253491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)			800	889		ug/L		111	80 - 120		

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCS 440-253491/3
Matrix: Water
Analysis Batch: 253491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*77*		*65 - 140*

Lab Sample ID: 440-108551-C-1 MS
Matrix: Water
Analysis Batch: 253491

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	ND		800	909		ug/L		114	65 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*65 - 140*

Lab Sample ID: 440-108551-C-1 MSD
Matrix: Water
Analysis Batch: 253491

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		800	916		ug/L		114	65 - 140	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*65 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-251872/1-A
Matrix: Water
Analysis Batch: 251822

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 251872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		0.50		mg/L		04/29/15 12:15	04/30/15 05:03	1
C23-C40	ND		0.50		mg/L		04/29/15 12:15	04/30/15 05:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*95*		*45 - 120*	*04/29/15 12:15*	*04/30/15 05:03*	*1*

Lab Sample ID: MB 440-251872/1-A
Matrix: Water
Analysis Batch: 252074

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 251872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		0.50		mg/L		04/29/15 12:15	04/30/15 09:09	1
C23-C40	ND		0.50		mg/L		04/29/15 12:15	04/30/15 09:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*96*		*45 - 120*	*04/29/15 12:15*	*04/30/15 09:09*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 440-251872/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 251822 — **Prep Batch: 251872**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	1.00	0.880		mg/L		88	40 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*90*		*45 - 120*

Lab Sample ID: LCSD 440-251872/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 251823 — **Prep Batch: 251872**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	1.00	0.914		mg/L		91	40 - 115	4	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*79*		*45 - 120*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 440-251631/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 251631

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as NO3	ND		0.50		mg/L			04/28/15 15:00	1

Lab Sample ID: LCS 440-251631/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 251631

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as NO3	5.00	5.14		mg/L		103	90 - 110

Lab Sample ID: MB 440-251632/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 251632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.50		mg/L			04/28/15 15:00	1
Chloride	ND		0.50		mg/L			04/28/15 15:00	1
Sulfate	ND		0.50		mg/L			04/28/15 15:00	1

Lab Sample ID: LCS 440-251632/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 251632

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	5.00	5.08		mg/L		102	90 - 110
Chloride	5.00	4.95		mg/L		99	90 - 110
Sulfate	5.00	4.73		mg/L		95	90 - 110

QC Sample Results

Client: Envirotech Consultants, Inc.
Project/Site: RWQCD Pond Testing, 2015

TestAmerica Job ID: 440-108243-1
SDG: Oil City, Coalinga

Lab Sample ID: MB 440-251904/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 251904

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.50		mg/L			04/29/15 14:56	1
Chloride	ND		0.50		mg/L			04/29/15 14:56	1
Sulfate	ND		0.50		mg/L			04/29/15 14:56	1

Lab Sample ID: LCS 440-251904/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 251904

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	5.00	5.11		mg/L		102	90 - 110
Chloride	5.00	5.09		mg/L		102	90 - 110
Sulfate	5.00	4.85		mg/L		97	90 - 110

Lab Sample ID: 440-108004-K-3 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 251904

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	ND		50.0	45.9		mg/L		92	80 - 120
Chloride	52		50.0	94.3		mg/L		85	80 - 120
Sulfate	140		50.0	175	F1	mg/L		73	80 - 120

Lab Sample ID: 440-108004-K-3 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 251904

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	ND		50.0	45.6		mg/L		91	80 - 120	1	20
Chloride	52		50.0	94.6		mg/L		86	80 - 120	0	20
Sulfate	140		50.0	175	F1	mg/L		72	80 - 120	0	20

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 440-108243-1 MS — **Client Sample ID: Chambers and Mouren**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 251631

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as NO3 - DL	ND		50.0	47.6		mg/L		95	80 - 120

Lab Sample ID: 440-108243-1 MSD — **Client Sample ID: Chambers and Mouren**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 251631

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as NO3 - DL	ND		50.0	51.7		mg/L		103	80 - 120	8	20

Method: 300.0 - Anions, Ion Chromatography - DL (Continued)

Lab Sample ID: 440-108243-1 MS
Matrix: Water
Analysis Batch: 251632

Client Sample ID: Chambers and Mouren
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide - DL	ND		50.0	54.2		mg/L		108	80 - 120
Sulfate - DL	170		50.0	210	F1	mg/L		75	80 - 120

Lab Sample ID: 440-108243-1 MSD
Matrix: Water
Analysis Batch: 251632

Client Sample ID: Chambers and Mouren
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide - DL	ND		50.0	65.0	F1	mg/L		130	80 - 120	18	20
Sulfate - DL	170		50.0	210	F1	mg/L		76	80 - 120	0	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-252701/1-A
Matrix: Water
Analysis Batch: 252812

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 252701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:03	1
Arsenic	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:03	1
Barium	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:03	1
Beryllium	ND		0.0020		mg/L		05/04/15 09:42	05/04/15 16:03	1
Cadmium	ND		0.0050		mg/L		05/04/15 09:42	05/04/15 16:03	1
Cobalt	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:03	1
Copper	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:03	1
Lead	ND		0.0050		mg/L		05/04/15 09:42	05/04/15 16:03	1
Molybdenum	ND		0.020		mg/L		05/04/15 09:42	05/04/15 16:03	1
Nickel	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:03	1
Selenium	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:03	1
Thallium	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:03	1
Vanadium	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:03	1
Zinc	ND		0.020		mg/L		05/04/15 09:42	05/04/15 16:03	1
Silver	ND		0.010		mg/L		05/04/15 09:42	05/04/15 16:03	1
Potassium	ND		0.50		mg/L		05/04/15 09:42	05/04/15 16:03	1
Manganese	ND		0.020		mg/L		05/04/15 09:42	05/04/15 16:03	1
Iron	ND		0.040		mg/L		05/04/15 09:42	05/04/15 16:03	1
Strontium	ND		0.020		mg/L		05/04/15 09:42	05/04/15 16:03	1
Sodium	ND		0.50		mg/L		05/04/15 09:42	05/04/15 16:03	1
Calcium	ND		0.10		mg/L		05/04/15 09:42	05/04/15 16:03	1
Boron	ND		0.050		mg/L		05/04/15 09:42	05/04/15 16:03	1

Lab Sample ID: MB 440-252701/1-A
Matrix: Water
Analysis Batch: 253113

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 252701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0050		mg/L		05/04/15 09:42	05/05/15 19:54	1
Lithium	ND		0.050		mg/L		05/04/15 09:42	05/05/15 19:54	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 440-252701/1-A
Matrix: Water
Analysis Batch: 253113

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 252701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	ND		0.020		mg/L		05/04/15 09:42	05/05/15 19:54	1

Lab Sample ID: LCS 440-252701/2-A
Matrix: Water
Analysis Batch: 252812

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 252701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.00	0.960		mg/L		96	80 - 120
Arsenic	1.00	0.902		mg/L		90	80 - 120
Barium	1.00	0.936		mg/L		94	80 - 120
Beryllium	1.00	0.942		mg/L		94	80 - 120
Cadmium	1.00	0.904		mg/L		90	80 - 120
Cobalt	1.00	0.938		mg/L		94	80 - 120
Copper	1.00	0.954		mg/L		95	80 - 120
Lead	1.00	0.930		mg/L		93	80 - 120
Molybdenum	1.00	0.970		mg/L		97	80 - 120
Nickel	1.00	0.937		mg/L		94	80 - 120
Selenium	1.00	0.886		mg/L		89	80 - 120
Thallium	1.00	0.916		mg/L		92	80 - 120
Vanadium	1.00	0.929		mg/L		93	80 - 120
Zinc	1.00	0.899		mg/L		90	80 - 120
Silver	0.500	0.476		mg/L		95	80 - 120
Potassium	10.0	9.59		mg/L		96	80 - 120
Manganese	1.00	0.944		mg/L		94	80 - 120
Iron	1.00	0.922		mg/L		92	80 - 120
Strontium	1.00	0.974		mg/L		97	80 - 120
Sodium	10.0	9.65		mg/L		97	80 - 120
Calcium	5.00	4.57		mg/L		91	80 - 120
Boron	1.00	0.922		mg/L		92	80 - 120

Lab Sample ID: LCS 440-252701/2-A
Matrix: Water
Analysis Batch: 253113

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 252701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1.00	0.966		mg/L		97	80 - 120
Lithium	1.00	0.961		mg/L		96	80 - 120
Magnesium	5.00	4.82		mg/L		96	80 - 120

Lab Sample ID: 440-108121-N-2-B MS
Matrix: Water
Analysis Batch: 252812

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 252701

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1.00	0.984		mg/L		98	75 - 125
Arsenic	0.16		1.00	1.12		mg/L		97	75 - 125
Barium	0.017		1.00	0.908		mg/L		89	75 - 125
Beryllium	ND		1.00	0.929		mg/L		93	75 - 125
Cadmium	ND		1.00	0.842		mg/L		84	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-108121-N-2-B MS
Matrix: Water
Analysis Batch: 252812

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 252701

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	ND		1.00	0.891		mg/L		89	75 - 125
Copper	ND		1.00	0.998		mg/L		100	75 - 125
Lead	ND		1.00	0.858		mg/L		86	75 - 125
Molybdenum	0.065	^	1.00	0.973		mg/L		91	75 - 125
Nickel	ND		1.00	0.883		mg/L		88	75 - 125
Selenium	ND		1.00	0.926		mg/L		92	75 - 125
Thallium	ND		1.00	0.776		mg/L		77	75 - 125
Vanadium	0.077		1.00	0.988		mg/L		91	75 - 125
Zinc	ND		1.00	0.917		mg/L		92	75 - 125
Silver	ND		0.500	0.510		mg/L		102	75 - 125
Potassium	22		10.0	32.5		mg/L		102	75 - 125
Manganese	ND		1.00	0.874		mg/L		87	75 - 125
Iron	ND		1.00	0.973		mg/L		97	75 - 125
Strontium	9.9		1.00	10.7	4	mg/L		81	75 - 125
Calcium	330		5.00	342	4	mg/L		192	75 - 125
Boron	2.3		1.00	3.23		mg/L		89	75 - 125

Lab Sample ID: 440-108121-N-2-B MS ^5
Matrix: Water
Analysis Batch: 252812

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 252701

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	1500		10.0	1460	4	mg/L		-535	75 - 125

Lab Sample ID: 440-108121-N-2-B MS ^5
Matrix: Water
Analysis Batch: 253113

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 252701

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	ND		1.00	1.03		mg/L		100	75 - 125
Lithium	0.42		1.00	1.44		mg/L		102	75 - 125
Magnesium	150		5.00	161	4	mg/L		152	75 - 125

Lab Sample ID: 440-108121-N-2-C MSD
Matrix: Water
Analysis Batch: 252812

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 252701

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1.00	0.994		mg/L		99	75 - 125	1	20
Arsenic	0.16		1.00	1.13		mg/L		97	75 - 125	1	20
Barium	0.017		1.00	0.929		mg/L		91	75 - 125	2	20
Beryllium	ND		1.00	0.938		mg/L		94	75 - 125	1	20
Cadmium	ND		1.00	0.855		mg/L		85	75 - 125	1	20
Cobalt	ND		1.00	0.908		mg/L		91	75 - 125	2	20
Copper	ND		1.00	1.02		mg/L		102	75 - 125	2	20
Lead	ND		1.00	0.870		mg/L		87	75 - 125	1	20
Molybdenum	0.065	^	1.00	0.995		mg/L		93	75 - 125	2	20
Nickel	ND		1.00	0.896		mg/L		90	75 - 125	1	20
Selenium	ND		1.00	0.942		mg/L		93	75 - 125	2	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-108121-N-2-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 252812 — **Prep Batch: 252701**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	ND		1.00	0.781		mg/L		77	75 - 125	1	20
Vanadium	0.077		1.00	0.999		mg/L		92	75 - 125	1	20
Zinc	ND		1.00	0.933		mg/L		93	75 - 125	2	20
Silver	ND		0.500	0.519		mg/L		104	75 - 125	2	20
Potassium	22		10.0	32.9		mg/L		106	75 - 125	1	20
Manganese	ND		1.00	0.890		mg/L		89	75 - 125	2	20
Iron	ND		1.00	0.990		mg/L		99	75 - 125	2	20
Strontium	9.9		1.00	10.8	4	mg/L		91	75 - 125	1	20
Calcium	330		5.00	349	4	mg/L		332	75 - 125	2	20
Boron	2.3		1.00	3.29		mg/L		96	75 - 125	2	20

Lab Sample ID: 440-108121-N-2-C MSD ^5 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 252812 — **Prep Batch: 252701**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	1500		10.0	1520	4	mg/L		-3	75 - 125	4	20

Lab Sample ID: 440-108121-N-2-C MSD ^5 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 253113 — **Prep Batch: 252701**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	ND		1.00	1.04		mg/L		101	75 - 125	1	20
Lithium	0.42		1.00	1.46		mg/L		104	75 - 125	1	20
Magnesium	150		5.00	163	4	mg/L		183	75 - 125	1	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-190483/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 191371 — **Prep Batch: 190483**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<1.0		1.0	0.23	ug/L		05/12/15 13:57	05/18/15 14:15	2

Lab Sample ID: LCS 160-190483/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 191371 — **Prep Batch: 190483**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Uranium	1000	1000		ug/L		100	80 - 120

Lab Sample ID: 440-109149-S-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 191371 — **Prep Batch: 190483**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Uranium	<10		1000	963		ug/L		96	75 - 125

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 440-109149-S-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 191371 — **Prep Batch: 190483**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Uranium	<10		1000	995		ug/L		100	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 440-252444/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 252722 — **Prep Batch: 252444**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/01/15 13:21	05/01/15 18:17	1

Lab Sample ID: LCS 440-252444/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 252722 — **Prep Batch: 252444**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00800	0.00738		mg/L		92	80 - 120

Lab Sample ID: 440-108437-G-4-A MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 252722 — **Prep Batch: 252444**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00800	0.00681		mg/L		85	70 - 130

Lab Sample ID: 440-108437-G-4-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 252722 — **Prep Batch: 252444**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00800	0.00655		mg/L		82	70 - 130	4	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 440-252368/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 252368

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	ND		4.0		mg/L			05/01/15 07:10	1
Bicarbonate ion as HCO3	ND		4.8		mg/L			05/01/15 07:10	1
Carbonate as CO3	ND		2.4		mg/L			05/01/15 07:10	1
Hydroxide as OH	ND		1.4		mg/L			05/01/15 07:10	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 440-252368/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 252368

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity as CaCO3	85.4	85.9		mg/L		101	80 - 120

Lab Sample ID: 440-108464-AG-1 DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 252368

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity as CaCO3	40		39.5		mg/L		2	20
Bicarbonate ion as HCO3	49		48.1		mg/L		2	20
Carbonate as CO3	ND		ND		mg/L		NC	20
Hydroxide as OH	ND		ND		mg/L		NC	20

Lab Sample ID: MB 440-252632/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 252632

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	10.0		4.0		mg/L			05/04/15 04:39	1
Bicarbonate ion as HCO3	12.2		4.8		mg/L			05/04/15 04:39	1
Carbonate as CO3	ND		2.4		mg/L			05/04/15 04:39	1
Hydroxide as OH	ND		1.4		mg/L			05/04/15 04:39	1

Lab Sample ID: LCS 440-252632/1 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 252632

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity as CaCO3	85.4	80.0		mg/L		94	80 - 120

Lab Sample ID: 440-108243-3 DU — **Client Sample ID: Continental**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 252632

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity as CaCO3	2200	B	2200		mg/L		0.9	20
Bicarbonate ion as HCO3	2700	B	2680		mg/L		0.9	20
Carbonate as CO3	ND		ND		mg/L		NC	20
Hydroxide as OH	ND		ND		mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 440-252350/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 252350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			05/01/15 07:55	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 440-252350/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 252350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	990		mg/L		99	90 - 110

Lab Sample ID: 440-108265-B-6 DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 252350

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	9800		9800		mg/L		0.1	5

Method: 9310 - Gross Alpha / Beta (GFPC)

Lab Sample ID: MB 160-190445/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 190766 — **Prep Batch: 190445**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.09621	U	0.635	0.636	1.26	pCi/L	05/12/15 09:49	05/14/15 15:36	1
Gross Beta	-0.1262	U	0.488	0.488	0.900	pCi/L	05/12/15 09:49	05/14/15 15:36	1

Lab Sample ID: LCS 160-190445/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 190766 — **Prep Batch: 190445**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	50.0	50.26		7.46	2.07	pCi/L	100	73 - 133

Lab Sample ID: LCSB 160-190445/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 190766 — **Prep Batch: 190445**

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Beta	95.1	95.52		10.1	1.04	pCi/L	100	75 - 125

Lab Sample ID: 160-11674-A-3-D MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 190766 — **Prep Batch: 190445**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	20.9	G	90.2	93.08		14.0	3.09	pCi/L	80	60 - 140

Method: 9310 - Gross Alpha / Beta (GFPC) (Continued)

Lab Sample ID: 160-11674-A-3-E MSBT — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 190766 — **Prep Batch: 190445**

Analyte	Sample Result	Sample Qual	Spike Added	MSBT Result	MSBT Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Gross Beta	1.68	U	171	173.1		18.3		1.95	pCi/L	101	60 - 140		

Lab Sample ID: 160-11674-A-3-C DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 190766 — **Prep Batch: 190445**

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Gross Alpha	20.9	G		21.02	G	6.07		6.36	pCi/L			0.01	1
Gross Beta	1.68	U		3.085		1.50		1.95	pCi/L			0.49	1

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-188976/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 192238 — **Prep Batch: 188976**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1333	U	0.119	0.119	0.187	pCi/L	05/01/15 11:49	05/26/15 06:53	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*108*		*40 - 110*	*05/01/15 11:49*	*05/26/15 06:53*	*1*

Lab Sample ID: LCS 160-188976/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 192238 — **Prep Batch: 188976**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-226			22.3	23.29		2.28		0.238	pCi/L	104	68 - 137		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*110*		*40 - 110*

Lab Sample ID: LCSD 160-188976/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 192238 — **Prep Batch: 188976**

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226			22.3	22.87		2.23		0.115	pCi/L	102	68 - 137	0.09	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*109*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-188977/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 191205 — **Prep Batch: 188977**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1171	U	0.384	0.385	0.669	pCi/L	05/01/15 11:57	05/18/15 11:50	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*108*		*40 - 110*	*05/01/15 11:57*	*05/18/15 11:50*	*1*
Y Carrier	*90.8*		*40 - 110*	*05/01/15 11:57*	*05/18/15 11:50*	*1*

Lab Sample ID: LCS 160-188977/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 191205 — **Prep Batch: 188977**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-228			6.84	5.572		0.890		0.652	pCi/L	82	56 - 140		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*110*		*40 - 110*
Y Carrier	*92.0*		*40 - 110*

Lab Sample ID: LCSD 160-188977/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 191205 — **Prep Batch: 188977**

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228			6.84	6.224		0.975		0.727	pCi/L	91	56 - 140	0.35	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*109*		*40 - 110*
Y Carrier	*89.7*		*40 - 110*

QC Association Summary

Client: Envirotech Consultants, Inc.
Project/Site: RWQCD Pond Testing, 2015

TestAmerica Job ID: 440-108243-1
SDG: Oil City, Coalinga

GC/MS VOA

Analysis Batch: 252497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108054-A-5 MS	Matrix Spike	Total/NA	Water	8260B	
440-108054-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
440-108243-1	Chambers and Mouren	Total/NA	Water	8260B	
440-108243-2	Compass Lease	Total/NA	Water	8260B	
LCS 440-252497/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-252497/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 252553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108243-3	Continental	Total/NA	Water	8260B	
440-108359-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-108359-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-252553/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-252553/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 252800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108243-4	Trip Blank	Total/NA	Water	8260B	
440-108356-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-108356-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-252800/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-252800/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 252710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108243-1	Chambers and Mouren	Total/NA	Water	3520C	
440-108243-2	Compass Lease	Total/NA	Water	3520C	
440-108243-3	Continental	Total/NA	Water	3520C	
LCS 440-252710/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-252710/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 440-252710/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 254223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-252710/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	252710
LCSD 440-252710/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	252710
MB 440-252710/1-A	Method Blank	Total/NA	Water	8270C SIM	252710

Analysis Batch: 254448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108243-1	Chambers and Mouren	Total/NA	Water	8270C SIM	252710
440-108243-2	Compass Lease	Total/NA	Water	8270C SIM	252710
440-108243-3	Continental	Total/NA	Water	8270C SIM	252710

QC Association Summary

Client: Envirotech Consultants, Inc.
Project/Site: RWQCD Pond Testing, 2015

TestAmerica Job ID: 440-108243-1
SDG: Oil City, Coalinga

GC VOA

Analysis Batch: 253491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108243-1	Chambers and Mouren	Total/NA	Water	8015B	
440-108243-2	Compass Lease	Total/NA	Water	8015B	
440-108243-3	Continental	Total/NA	Water	8015B	
440-108551-C-1 MS	Matrix Spike	Total/NA	Water	8015B	
440-108551-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	
LCS 440-253491/3	Lab Control Sample	Total/NA	Water	8015B	
MB 440-253491/4	Method Blank	Total/NA	Water	8015B	

GC Semi VOA

Analysis Batch: 251822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-251872/2-A	Lab Control Sample	Total/NA	Water	8015B	251872
MB 440-251872/1-A	Method Blank	Total/NA	Water	8015B	251872

Analysis Batch: 251823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 440-251872/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	251872

Prep Batch: 251872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108243-1	Chambers and Mouren	Total/NA	Water	3510C	
440-108243-2	Compass Lease	Total/NA	Water	3510C	
440-108243-3	Continental	Total/NA	Water	3510C	
LCS 440-251872/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-251872/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 440-251872/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 252074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-251872/1-A	Method Blank	Total/NA	Water	8015B	251872

Analysis Batch: 252365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108243-1	Chambers and Mouren	Total/NA	Water	8015B	251872
440-108243-2	Compass Lease	Total/NA	Water	8015B	251872
440-108243-3	Continental	Total/NA	Water	8015B	251872

HPLC/IC

Analysis Batch: 251631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108243-1	Chambers and Mouren	Total/NA	Water	300.0	
440-108243-1 MS - DL	Chambers and Mouren	Total/NA	Water	300.0	
440-108243-1 MSD - DL	Chambers and Mouren	Total/NA	Water	300.0	
440-108243-2	Compass Lease	Total/NA	Water	300.0	
440-108243-3	Continental	Total/NA	Water	300.0	
LCS 440-251631/2	Lab Control Sample	Total/NA	Water	300.0	
MB 440-251631/4	Method Blank	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 251632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108243-1	Chambers and Mouren	Total/NA	Water	300.0	
440-108243-1 - DL	Chambers and Mouren	Total/NA	Water	300.0	
440-108243-1 MS - DL	Chambers and Mouren	Total/NA	Water	300.0	
440-108243-1 MSD - DL	Chambers and Mouren	Total/NA	Water	300.0	
440-108243-2	Compass Lease	Total/NA	Water	300.0	
440-108243-2	Compass Lease	Total/NA	Water	300.0	
440-108243-3	Continental	Total/NA	Water	300.0	
440-108243-3	Continental	Total/NA	Water	300.0	
LCS 440-251632/2	Lab Control Sample	Total/NA	Water	300.0	
MB 440-251632/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 251904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108004-K-3 MS	Matrix Spike	Total/NA	Water	300.0	
440-108004-K-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
440-108243-1	Chambers and Mouren	Total/NA	Water	300.0	
440-108243-2	Compass Lease	Total/NA	Water	300.0	
LCS 440-251904/2	Lab Control Sample	Total/NA	Water	300.0	
MB 440-251904/4	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 190483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108243-1	Chambers and Mouren	Total/NA	Water	3010A	
440-108243-2	Compass Lease	Total/NA	Water	3010A	
440-108243-3	Continental	Total/NA	Water	3010A	
440-109149-S-1-B MS	Matrix Spike	Total/NA	Water	3010A	
440-109149-S-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	
LCS 160-190483/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-190483/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 191371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108243-1	Chambers and Mouren	Total/NA	Water	6020A	190483
440-108243-2	Compass Lease	Total/NA	Water	6020A	190483
440-108243-3	Continental	Total/NA	Water	6020A	190483
440-109149-S-1-B MS	Matrix Spike	Total/NA	Water	6020A	190483
440-109149-S-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6020A	190483
LCS 160-190483/2-A	Lab Control Sample	Total/NA	Water	6020A	190483
MB 160-190483/1-A	Method Blank	Total/NA	Water	6020A	190483

Prep Batch: 252444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108243-1	Chambers and Mouren	Total/NA	Water	7470A	
440-108243-2	Compass Lease	Total/NA	Water	7470A	
440-108243-3	Continental	Total/NA	Water	7470A	
440-108437-G-4-A MS	Matrix Spike	Total/NA	Water	7470A	
440-108437-G-4-B MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
LCS 440-252444/2-A	Lab Control Sample	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 252444 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-252444/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 252701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108121-N-2-B MS	Matrix Spike	Total Recoverable	Water	3005A	
440-108121-N-2-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
440-108121-N-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
440-108121-N-2-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
440-108243-1	Chambers and Mouren	Total Recoverable	Water	3005A	
440-108243-2	Compass Lease	Total Recoverable	Water	3005A	
440-108243-3	Continental	Total Recoverable	Water	3005A	
LCS 440-252701/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 440-252701/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 252722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108243-1	Chambers and Mouren	Total/NA	Water	7470A	252444
440-108243-2	Compass Lease	Total/NA	Water	7470A	252444
440-108243-3	Continental	Total/NA	Water	7470A	252444
440-108437-G-4-A MS	Matrix Spike	Total/NA	Water	7470A	252444
440-108437-G-4-B MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	252444
LCS 440-252444/2-A	Lab Control Sample	Total/NA	Water	7470A	252444
MB 440-252444/1-A	Method Blank	Total/NA	Water	7470A	252444

Analysis Batch: 252812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108121-N-2-B MS	Matrix Spike	Total Recoverable	Water	6010B	252701
440-108121-N-2-B MS ^5	Matrix Spike	Total Recoverable	Water	6010B	252701
440-108121-N-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	252701
440-108121-N-2-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6010B	252701
440-108243-1	Chambers and Mouren	Total Recoverable	Water	6010B	252701
440-108243-1	Chambers and Mouren	Total Recoverable	Water	6010B	252701
440-108243-2	Compass Lease	Total Recoverable	Water	6010B	252701
440-108243-2	Compass Lease	Total Recoverable	Water	6010B	252701
440-108243-3	Continental	Total Recoverable	Water	6010B	252701
440-108243-3	Continental	Total Recoverable	Water	6010B	252701
LCS 440-252701/2-A	Lab Control Sample	Total Recoverable	Water	6010B	252701
MB 440-252701/1-A	Method Blank	Total Recoverable	Water	6010B	252701

Analysis Batch: 253113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108121-N-2-B MS ^5	Matrix Spike	Total Recoverable	Water	6010B	252701
440-108121-N-2-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6010B	252701
440-108243-1	Chambers and Mouren	Total Recoverable	Water	6010B	252701
440-108243-2	Compass Lease	Total Recoverable	Water	6010B	252701
440-108243-3	Continental	Total Recoverable	Water	6010B	252701
LCS 440-252701/2-A	Lab Control Sample	Total Recoverable	Water	6010B	252701
MB 440-252701/1-A	Method Blank	Total Recoverable	Water	6010B	252701

QC Association Summary

Client: Envirotech Consultants, Inc.
Project/Site: RWQCD Pond Testing, 2015

TestAmerica Job ID: 440-108243-1
SDG: Oil City, Coalinga

General Chemistry

Analysis Batch: 252350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108243-1	Chambers and Mouren	Total/NA	Water	SM 2540C	
440-108243-2	Compass Lease	Total/NA	Water	SM 2540C	
440-108243-3	Continental	Total/NA	Water	SM 2540C	
440-108265-B-6 DU	Duplicate	Total/NA	Water	SM 2540C	
LCS 440-252350/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 440-252350/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 252368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108243-1	Chambers and Mouren	Total/NA	Water	SM 2320B	
440-108243-2	Compass Lease	Total/NA	Water	SM 2320B	
440-108464-AG-1 DU	Duplicate	Total/NA	Water	SM 2320B	
LCS 440-252368/2	Lab Control Sample	Total/NA	Water	SM 2320B	
MB 440-252368/3	Method Blank	Total/NA	Water	SM 2320B	

Analysis Batch: 252632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108243-3	Continental	Total/NA	Water	SM 2320B	
440-108243-3 DU	Continental	Total/NA	Water	SM 2320B	
LCS 440-252632/1	Lab Control Sample	Total/NA	Water	SM 2320B	
MB 440-252632/2	Method Blank	Total/NA	Water	SM 2320B	

Rad

Prep Batch: 188976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108243-1	Chambers and Mouren	Total/NA	Water	PrecSep-21	
440-108243-2	Compass Lease	Total/NA	Water	PrecSep-21	
440-108243-3	Continental	Total/NA	Water	PrecSep-21	
LCS 160-188976/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-188976/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	
MB 160-188976/1-A	Method Blank	Total/NA	Water	PrecSep-21	

Prep Batch: 188977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108243-1	Chambers and Mouren	Total/NA	Water	PrecSep_0	
440-108243-2	Compass Lease	Total/NA	Water	PrecSep_0	
440-108243-3	Continental	Total/NA	Water	PrecSep_0	
LCS 160-188977/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-188977/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	
MB 160-188977/1-A	Method Blank	Total/NA	Water	PrecSep_0	

Prep Batch: 190445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-11674-A-3-C DU	Duplicate	Total/NA	Water	Evaporation	
160-11674-A-3-D MS	Matrix Spike	Total/NA	Water	Evaporation	
160-11674-A-3-E MSBT	Matrix Spike	Total/NA	Water	Evaporation	
440-108243-1	Chambers and Mouren	Total/NA	Water	Evaporation	
440-108243-2	Compass Lease	Total/NA	Water	Evaporation	
440-108243-3	Continental	Total/NA	Water	Evaporation	

Rad (Continued)

Prep Batch: 190445 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-190445/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-190445/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
MB 160-190445/1-A	Method Blank	Total/NA	Water	Evaporation	

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
*	ISTD response or retention time outside acceptable limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.
X	Carrier is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Envirotech Consultants, Inc.
Project/Site: RWQCD Pond Testing, 2015

TestAmerica Job ID: 440-108243-1
SDG: Oil City, Coalinga

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-15
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
Nevada	State Program	9	CA015312007A	07-31-15
New Mexico	State Program	6	N/A	01-29-15 *
Northern Mariana Islands	State Program	9	MP0002	01-29-15 *
Oregon	NELAP	10	4005	01-29-16
USDA	Federal		P330-09-00080	06-06-15

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-15 *
California	ELAP	9	2886	03-31-16
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-15 *
Illinois	NELAP	5	200023	11-30-15
Iowa	State Program	7	373	12-01-16
Kansas	NELAP	7	E-10236	10-31-15
Kentucky (DW)	State Program	4	90125	12-31-15
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	04080	06-30-15 *
Louisiana (DW)	NELAP	6	LA150017	12-31-16
Maryland	State Program	3	310	09-30-15
Missouri	State Program	7	780	06-30-15 *
Nevada	State Program	9	MO000542013-1	07-31-15 *
New Jersey	NELAP	2	MO002	06-30-15 *
New Mexico	State Program	6		06-30-10 *
New York	NELAP	2	11616	03-31-16
North Dakota	State Program	8	R207	06-30-15 *
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-15
Pennsylvania	NELAP	3	68-00540	02-28-16
South Carolina	State Program	4	85002001	06-30-15 *
Texas	NELAP	6	T104704193-13-6	07-31-15 *
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542013-5	07-31-15
Virginia	NELAP	3	460230	06-14-15 *
Washington	State Program	10	C592	08-30-15
West Virginia DEP	State Program	3	381	08-31-15

* Certification renewal pending - certification considered valid.

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: **RWQCB Orders**

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Jane McNaboe	Site Contact: Jane McNaboe	Date: 4/28/15	COC No:
EnviroTech Consultants, Inc.	Tel/Fax: 661-377-0073 X 11	Lab Contact: Janice Hsu	Carrier:	_____ of _____ COCs
5400 Rosedale Highway	Analysis Turnaround Time			Sampler:
Bakersfield, CA 93308	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(661) 377-0073 Phone	TAT if different from Below _____			Walk-in Client:
(661) 377-0074 FAX	☐ 2 weeks			Lab Sampling:
Project Name: RWQCB Pond Testing, 2015	☐ 1 week			
Site:Oil City, Coalinga	☐ 2 days			Job / SDG No.:
PO#: BAK100	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	SM 2540C TDS	6010B CAM Metals	7470A Mercury (CVAA)	8260B BTEX	8015B C13-C22/C23-C40 Crude	PAH List 8270C SIM SVOC	300.0 Chloride, Bromide, Sulfate	300.0 Nitrate NO3	SM 2320B Alkalinity all forms ioni	9310 Gross Alpha	9315 Rad226	9320 Rad 228	6020A Uranium	Ra226_RA228	Travel Blank(1) 8260			Sample Specific Notes: See Attached
Chambers & Mouren	4/28/15	1015		Water	18 ~~17~~	N		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Compass Lease	4/28/15	1145		Water	18	N		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Continental	4/28/15	1315		Water	17	N		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			low VOA sample volume

440-108243 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please analyze the samples to meet the RWQCB requirements on the attached sheet. Please identify the 8015B resutls as crude oil.

18/53
22/55
05/57
12-74

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
M Jane Ellis McNaboe	EnviroTech	4/28/15 1713	[signature]	DCS	4/28/15 1713
[signature]	DCS	4/28/15 1955			
			Received in Laboratory by: [signature]	TAI	04/28/15 19:55

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Envirotech Consultants, Inc.

Job Number: 440-108243-1
SDG Number: Oil City, Coalinga

Login Number: 108243
List Number: 1
Creator: Kim, Guerry

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Tracer/Carrier Summary

Client: Envirotech Consultants, Inc.
Project/Site: RWQCD Pond Testing, 2015

TestAmerica Job ID: 440-108243-1
SDG: Oil City, Coalinga

Method: 9315 - Radium-226 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**Ba (40-110)**							
440-108243-1	Chambers and Mouren	128 X							
440-108243-2	Compass Lease	78.8							
440-108243-3	Continental	104							
LCS 160-188976/2-A	Lab Control Sample	110							
LCSD 160-188976/3-A	Lab Control Sample Dup	109							
MB 160-188976/1-A	Method Blank	108							

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**Ba (40-110)**	**Y (40-110)**						
440-108243-1	Chambers and Mouren	128 X	91.2						
440-108243-2	Compass Lease	78.8	90.8						
440-108243-3	Continental	104	90.1						
LCS 160-188977/2-A	Lab Control Sample	110	92.0						
LCSD 160-188977/3-A	Lab Control Sample Dup	109	89.7						
MB 160-188977/1-A	Method Blank	108	90.8						

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier