

**PARSONS**  
 100 West Walnut Street  
 Pasadena, California 91124  
 (626) 440-4000

## LETTER OF TRANSMITTAL

<p>TO:          California Regional Water Quality Control Board          – Los Angeles Region          320 West 4<sup>th</sup> Street, Suite 200          Los Angeles, CA 90013</p> <p>FROM:          Mary Lucas</p>	<p>DATE: November 14, 2013</p> <p>PARSONS JOB NO.: 747576-05000</p> <p>SUBJECT: Enclosure: Third Quarter 2013 Groundwater Discharge Monitoring Report (NPDES No. CAG994004, Compliance File No. CI-7585)</p>
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WE ARE SENDING YOU THE FOLLOWING ITEMS:  ATTACHED  UNDER SEPARATE COVER VIA \_\_\_\_\_

<input checked="" type="checkbox"/> DOCUMENTS	<input type="checkbox"/> PRINTS	<input type="checkbox"/> SPECIFICATIONS
<input type="checkbox"/> COPY OF LETTER	<input type="checkbox"/> CHANGE ORDER	<input type="checkbox"/> SAMPLES
<input type="checkbox"/> OTHER	<input type="checkbox"/> PLANS	<input type="checkbox"/> DRAFT Report

COPIES	DATE	NO.	DESCRIPTION
1	November 14, 2013	1	Third Quarter 2013 Groundwater Discharge Monitoring Report

<p><b>REMARKS:</b></p> <p>Attached is a copy of the above mentioned report. Please note NPDES permit-required quarterly samples were not collected and analyzed during this reporting period as the system was off pending arsenic resin change-out and remained out of service through the end of the reporting period. Permit-required annual samples (inclusive of all analyses required for quarterly sampling) will be collected and analyzed upon system restart. Going forward, groundwater extraction system sampling will be scheduled earlier in the month in an attempt to ensure system operation and collection and analysis of permit-required samples. Please feel free to contact me if you have any questions.</p>
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SIGNATURE: \_\_\_\_\_ 

November 14, 2013

Information Technology Unit  
California Regional Water Quality Control Board, Los Angeles Region  
320 W. 4<sup>th</sup> Street, Suite 200  
Los Angeles, California 90013

**Subject: Third Quarter 2013 Groundwater Discharge Monitoring Report  
NPDES No. CAG994004; Compliance File No. CI-7585  
DFSP Norwalk Facility, 15306 Norwalk Boulevard, Norwalk, California**

In compliance with the subject NPDES Permit, Parsons is submitting this quarterly Discharge Monitoring Report (DMR) on behalf of the Defense Logistics Agency (DLA) Energy for the subject reporting period. The system is installed at the Defense Fuel Support Point Norwalk, at 15306 Norwalk Boulevard, Norwalk, California. This report describes NPDES monitoring activities during the period of July 1 through September 30, 2013.

## **SUMMARY OF REMEDIATION PROGRESS AND DISCHARGE VOLUMES**

Parsons, on behalf of DLA Energy currently operates remediation systems consisting of soil vapor extraction (SVE), groundwater extraction (GWE), and treatment of extracted soil vapors and groundwater to address the entire former tank farm, the former water tank, former truck fueling, and pump house areas.

The GWE systems consists of five vertical extraction wells of which four are 6-inch diameter wells and one is a 4-inch diameter well; three bag filter vessels; two MYCELX vessels; two ion exchange vessels; and three granular activated carbon (GAC) vessels. Four wells; GW-2, GW-13, GW-15, and GW-16; were in operation during this reporting period. The treated groundwater is discharged in accordance with the NPDES permit No. CAG994004, CI No. 7585. Overall, the GWE system operated approximately 77.4 percent of the time for the reporting period and taking into account the planned shutdowns, the GWE system operated approximately 77.5 percent of the time during the third quarter 2013.

Third Quarter 2013 DMR  
November 14, 2013

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The GWE system discharge volumes and field notes are summarized in Table 1. Periodic site visits were conducted to assess and optimize system operation and record operational data. During the third quarter of 2013; 1,568,777 gallons of groundwater were processed and discharged. Total hydrocarbons removed via groundwater treatment during the subject reporting period is 0.0046 gallons (0.033 pounds). Other than discharge of treated groundwater to the permitted NPDES outfall, no groundwater was managed off-site as an investigation-derived waste.

There were no changes in the operation of the facility that have or would change the character, location, or volume of the groundwater discharge. A summary of the operational periods with dates and groundwater volumes processed is provided in Table 1.

### **OPERATION, MAINTENANCE, AND MONITORING**

Tasks performed for OM&M of the GWE and SVE remediation systems during the reporting period included:

- Weekly maintenance and monitoring of the GWE wells and treatment systems.
- Collecting and analyzing system influent vapor and groundwater samples.
- Changing out MYCELX (MX-7 and MX-21) and bag filters (No. 1, 2, and 3).
- Groundwater compliance samples from the GWE system were collected on July 12<sup>th</sup> and August 23<sup>rd</sup>. Compliance samples were not collected during the month of September prior to GWE system shut down on September 9<sup>th</sup> pending an arsenic resin change-out.
- Vapor compliance samples from SVE system were collected on July 29<sup>th</sup>.

In addition, system vapor and effluent water samples were collected and analyzed for compliance with the SCAQMD and NPDES permits. Results for the NPDES effluent monitoring will be provided in a subsequent section.

Remediation system inspections were performed on a weekly basis. The GWE and SVE systems operated during the third quarter with the following exceptions:

- GWE system was off from:
  1. July 1<sup>st</sup> to July 3<sup>rd</sup> to evaluate faulty level sensors in the surge tank.
  2. GWE system was shut down briefly to change out the MX-7 and MX-21

Third Quarter 2013 DMR  
November 14, 2013

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filters on July 29<sup>th</sup>.

3. GWE system was shut down on September 9<sup>th</sup> and remained off-line through the end of this reporting period pending arsenic resin change-out.
- SVE system was off from:
    1. August 7<sup>th</sup> to August 13<sup>th</sup> to repair leak in GAC hoses.
    2. August 16<sup>th</sup> to September 3<sup>rd</sup> to repair split hose on GAC vessels and leaks in field conveyance lines.
    3. September 6<sup>th</sup> through the end of this reporting period to repair split hoses on the GAC vessels.

### **SUMMARY OF NON-COMPLIANCE**

Representative samples of treated groundwater were collected from the system effluent and analyzed for compounds as required by the Monitoring and Reporting Program (MRP).

The sample dates and summary of test results are provided in Table 2. A complete set of laboratory reports are provided in Attachment B. Representative sample results indicate concentrations were below detection limits or did not exceed permit required discharge levels. The GWE system was shut-down prior to quarterly sampling and remained down through the remainder of the reporting period. Therefore, tests required for quarterly sampling were not collected or analyzed. Upon system restart, tests required for annual sampling event (which is inclusive of all analyses required for quarterly sampling) will be collected and analyzed. In addition, the GWE system sampling will be scheduled earlier in the month in an attempt to prevent system operation without collection and analysis of permit-required samples.

### **VISUAL OBSERVATIONS**

Based on the periodic inspections as documented in Attachment C and referenced in Table 1, the effluent stream was consistently clear and did not contain oil sheen, debris, or other particulate material. No odor has been detected in the effluent sample. Copies of the GWE System Monitoring Logs are provided in Attachment C.

### **LABORATORY CERTIFICATION**

All analyses were conducted at a laboratory certified for such analyses by the California Department of Health Services or approved by the Executive Officer and in accordance

Third Quarter 2013 DMR  
November 14, 2013

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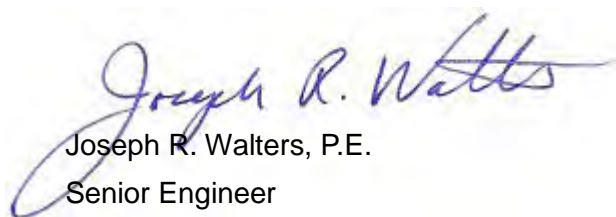
with current USEPA procedures or as specified in this Monitoring and Reporting Program. The laboratory's quality control data is attached. A copy of the laboratory certification is provided in Attachment B.

### REPORT CERTIFICATION

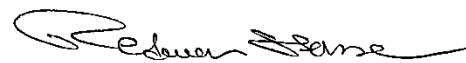
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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 a fine and imprisonment for knowing violations.

Executed on the 14<sup>th</sup> day of November 2013, at Pasadena, California.

Sincerely,



Joseph R. Walters, P.E.  
Senior Engineer



Redwan Hassan  
Project Manager

PARSONS as a duly authorized representative of the Defense Logistics Agency (DLA) Energy.

### Attachments

Attachment A	Tables
	Table 1 Groundwater Treatment System Operational Data
	Table 2 Analytical Results of Effluent Water Samples
Attachment B	Analytical Laboratory Reports and Electronic Submittal Confirmation
Attachment C	Groundwater Extraction Treatment System Monitoring Logs

# ATTACHMENT A

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*Tables*

**Table 1**  
**Groundwater Treatment System Operation Data**  
**DFSP Norwalk**  
**15306 Norwalk Boulevard, Norwalk, CA**

<b>Date</b>	<b>Outlet Totalizer (gals)</b>	<b>Monthly Flow (gals)</b>	<b>Comments</b>
07/02/13	65,975,622	12,144	System restarted after resetting float switches. System running normally.
07/05/13	66,019,565	43,943	GWTS operating normally.
07/08/13	66,092,035	72,470	GWTS operating normally.
07/09/13	66,115,335	23,300	GWTS operating normally.
07/10/13	66,136,738	21,403	GWTS operating normally.
07/12/13	66,182,030	45,292	GWTS operating normally. Monthly NPDES compliance sample collected.
07/15/13	66,255,061	73,031	GWTS operating normally.
07/16/13	66,280,636	25,575	GWTS operating normally.
07/17/13	66,299,625	18,989	GWTS operating normally.
07/19/13	66,344,490	44,865	Changed bag filters. System operating normally.
07/22/13	66,414,532	70,042	GWTS operating normally.
07/23/13	66,440,260	25,728	GWTS operating normally.
07/26/13	66,515,086	74,826	GWTS operating normally.
07/29/13	66,583,970	68,884	Changed MX-7 and MX-21 filters. System operating normally.
07/31/13	66,626,490	42,520	GWTS operating normally.
<b>Jul-13</b>	<b>663,012</b>	<b>663,012</b>	
8/2/13	66,676,021	49,531	GWTS operating normally.
8/5/13	66,745,603	69,582	GWTS operating normally.
8/6/13	66,770,055	24,452	GWTS operating normally.
8/9/13	66,842,320	72,265	GWTS operating normally.
8/12/13	66,910,900	68,580	GWTS operating normally.
8/13/13	66,933,141	22,241	GWTS operating normally.
8/16/13	67,001,292	68,151	Changed bag filters. System operating normally.
8/20/13	67,104,810	103,518	GWTS operating normally. Monthly NPDES compliance sample collected.
8/23/13	67,170,040	65,230	GWTS operating normally.
8/26/13	67,233,971	63,931	GWTS operating normally.
8/27/13	67,260,775	26,804	GWTS operating normally.
8/30/13	67,321,612	60,837	GWTS operating normally.
<b>Aug-13</b>	<b>695,122</b>	<b>695,122</b>	
09/03/13	67,395,475	73,863	GWTS operating normally.
09/04/13	67,417,392	21,917	Changed MX-7 and bag filters. System operating normally.
09/06/13	67,465,390	47,998	GWTS operating normally.
09/09/13	67,532,255	66,865	System shut down pending arsenic resin change out.
<b>Sep-13</b>	<b>210,643</b>	<b>210,643</b>	
<b>Total</b>	<b>1,568,777</b>	<b>1,568,777</b>	<b>17052 gpd Average Flow Rate for Quarter</b>

**Table 2**  
**Analytical Results of Effluent Water Samples**  
**DFSP Norwalk**  
**15306 Norwalk Boulevard, Norwalk, California**

Sampling Frequency		Monthly						Quarterly									Annually	
Analytical Method		SM4500 H+B	Field	8015B mod.	EPA8260B		EPA 6020	SM5520B	EPA 6020	SM2130B	SM4500S2-D	SM4500-CL F	SM2540D	SM2540F	SM5540 C	EPA 420.1	EPA 405.1	EPA821R 02012
Date	Sample Loc.	pH	Temp. °C	TPH µg/L	MTBE µg/L	TBA µg/L	Arsenic mg/L	Oil & Grease mg/L	Copper mg/L	Turbidity NTU	Sulfide mg/L	Residual Chlorine mg/L	Total Suspended Solids mg/L	Settleable Solid mL/L/hr	MBAS mg/L	Phenols mg/L	BOD5 20°C mg/L	96 hr Fathead Minnow Survival %
07/05/13	Effluent	---	---	---	---	---	DNQ	---	---	---	---	---	---	---	---	---	---	---
07/12/13	Effluent	7.20	---	ND(100)	ND(0.5)	ND(10)	DNQ	ND(1.0)	DNQ	ND(0.050)	---	---	---	---	---	---	---	---
07/19/13	Effluent	---	---	---	---	---	DNQ	---	---	---	---	---	---	---	---	---	---	---
08/20/13	Effluent	7.07	---	ND(100)	ND(0.5)	ND(10)	DNQ	ND(1.0)	DNQ	DNQ	---	---	---	---	---	---	---	---
08/23/13	Effluent	---	24.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
System shut down September 9th through the end of this reporting period pending arsenic resin change-out.																		
Daily Maximum		within 6.5-8.5	100°F (38°C)	100	5	12	0.01	15	0.03	150	1	0.1	75	0.3	0.5	1	30	minimum 90%
Monthly Average				--	--	--	--	10	0.015	50	--	--	50	0.1	--	--	20	--

**Notes:** Analytical method for metals analysis changed from EPA 6010B to EPA 6020 to obtain lower reporting limit.

\* TPH as Diesel result, TPH as Gasoline not detected (reporting limit 100 ug/L)

**Bold** = Exceedance of standard  
 -- = not analyzed/not applicable  
 mg/L = milligram per liter  
 µg/L = microgram per liter  
 NTU = nephelometric turbidity units  
 TPH = total petroleum hydrocarbon

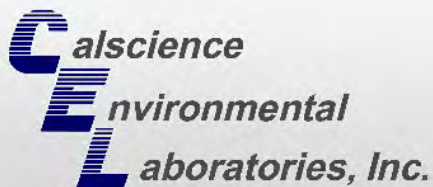
MTBE = methyl-tert-butyl ether  
 MBAS = methyl blue active substances (sufactants)  
 MDL = Method detection limit (or Reporting Limit if MDL not provided)  
 ML= Minimum Reporting Limit (µg/L)  
 DNQ = Data Not Quantified



# **ATTACHMENT B**

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*Analytical Laboratory Reports*



# CALSCIENCE

## WORK ORDER NUMBER: 13-07-0341

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

### Analytical Report For

**Client:** Parsons Government Services, Inc.

**Client Project Name:** DFSP - Norwalk

**Attention:** Mary Lucas  
100 West Walnut Street  
Pasadena, CA 91124-0002

Approved for release on 07/11/2013 by:  
Ranjit Clarke  
Project Manager

ResultLink ▶

Email your PM ▶



Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any litigation which may arise.





# Contents

Client Project Name: DFSP - Norwalk  
Work Order Number: 13-07-0341

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3	Quality Control Sample Data . . . . .	5
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4	Sample Analysis Summary . . . . .	8
5	Glossary of Terms and Qualifiers . . . . .	9
6	Chain of Custody/Sample Receipt Form . . . . .	10

**Condition Upon Receipt:**

Samples were received under Chain of Custody (COC) on 07/05/2013. They were assigned to Work Order 13-07-0341.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

**Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with an immediate holding time (HT  $\leq$  15 minutes --40CFR-136.3 Table II footnote 4), is considered a "field" test and reported samples results are not flagged unless the analysis is performed beyond 24 hours of the time of collection.

**Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

**Additional Comments:**

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

**Subcontract Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



**Analytical Report**



Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 07/05/13  
Work Order No: 13-07-0341  
Preparation: EPA 3020A Total  
Method: EPA 6020

Project: DFSP - Norwalk

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	13-07-0341-1-A	07/05/13 07:35	Aqueous	ICP/MS 03	07/05/13	07/08/13 15:34	130705L04

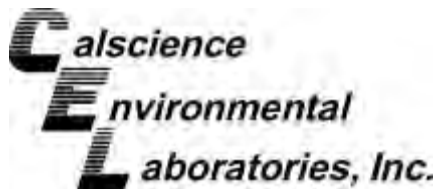
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Arsenic	0.00122	0.00100	1		mg/L

Method Blank	096-06-003-4,141	N/A	Aqueous	ICP/MS 03	07/05/13	07/05/13 17:14	130705L04
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Arsenic	ND	0.00100	1		mg/L

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



Parsons Government Services, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 07/05/13  
 Work Order No: 13-07-0341  
 Preparation: EPA 3020A Total  
 Method: EPA 6020

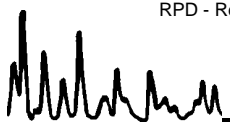
Project DFSP - Norwalk

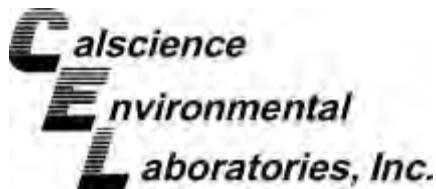
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
13-07-0292-1	Aqueous	ICP/MS 03	07/05/13	07/05/13	130705S04

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.003380	0.1000	0.1109	108	0.1128	109	80-120	2	0-20	

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RPD - Relative Percent Difference , CL - Control Limit





Quality Control - PDS / PDSD



Parsons Government Services, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received 07/05/13  
 Work Order No: 13-07-0341  
 Preparation: EPA 3020A Total  
 Method: EPA 6020

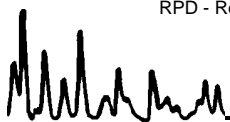
Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDS Batch Number
13-07-0292-1	Aqueous	ICP/MS 03	07/05/13	07/05/13	130705S04

Parameter	SAMPLE CONC	SPIKE ADDED	PDS CONC	PDS %REC	%REC CL	Qualifiers
Arsenic	0.003380	0.1000	0.1063	103	75-125	

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RPD - Relative Percent Difference , CL - Control Limit





**Quality Control - Laboratory Control Sample**



Parsons Government Services, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: N/A  
 Work Order No: 13-07-0341  
 Preparation: EPA 3020A Total  
 Method: EPA 6020

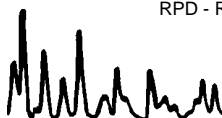
Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
096-06-003-4,141	Aqueous	ICP/MS 03	07/05/13	130705L04__100.icp	130705L04

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	0.1000	0.1003	100	80-120	

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RPD - Relative Percent Difference , CL - Control Limit





WORK ORDER #: 13-07-0341

<i>Lab Sample Number</i>	<i>Client Sample ID</i>	<i>Method</i>	<i>Extraction</i>	<i>Date/Time Analyzed</i>	<i>Chemist ID</i>	<i>Instrument</i>	<i>Analytical Location</i>
1-A	Effluent	EPA 6020	EPA 3020A T	07/8/2013 15:34	598	ICP/MS 03	1

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<i>Location</i>	<i>Description</i>
1	7440 Lincoln Way, Garden Grove, CA 92841

Work Order Number: 13-07-0341

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

For any analysis identified as a "field" test with a holding time (HT)  $\leq$  15 minutes where the sample is received outside of HT, Calscience will adhere to its internal HT of 24 hours. In cases where sample analysis does not meet Calscience's internal HT, results will be appropriately qualified.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.





# Calscience Environmental Laboratories, Inc.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494  
 Other CA office locations: Concord and San Luis Obispo  
 For courier service / sample drop off information,  
 contact [sales@calscience.com](mailto:sales@calscience.com) or call us.

## CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

**13-07-0341**Date 7-5-13Page 1 of 1

LABORATORY CLIENT: <b>Parsons</b>		CLIENT PROJECT NAME / NUMBER: <b>DFSP-Norwalk</b>		P.O. NO.: <b>747577-05000</b>	
ADDRESS: <b>100 W. Walnut St</b>		PROJECT CONTACT: <b>Mary Lucas / Cindy Zicker</b>		SAMPLER(S): (PRINT) <b>Glenn Androsko</b>	
CITY: <b>Pasadena</b>	STATE: <b>CA</b>	ZIP:			

TEL: <b>626-440-6032</b>	E-MAIL: <b>Mary.Lucas@Parsons.com</b>	<b>REQUESTED ANALYSES</b>			
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TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> STANDARD					
<input type="checkbox"/> COELT EDF	GLOBAL ID	LOG CODE			

SPECIAL INSTRUCTIONS:

Please check box or fill in blank as needed.					
Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	<input type="checkbox"/> TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44
			<input type="checkbox"/> BTEX / MTBE <input type="checkbox"/> 8260	<input type="checkbox"/> VOCs (8260)	<input type="checkbox"/> Oxygenates (8260)
			<input type="checkbox"/> Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	<input type="checkbox"/> SVOCs (8270)	<input type="checkbox"/> Pesticides (8081)
			<input type="checkbox"/> PCBs (8082)	<input type="checkbox"/> PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	<input type="checkbox"/> T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X
			<input type="checkbox"/> Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	<b>Arsenic 6020</b>	

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	<input type="checkbox"/> TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	<input type="checkbox"/> BTEX / MTBE <input type="checkbox"/> 8260	<input type="checkbox"/> VOCs (8260)	<input type="checkbox"/> Oxygenates (8260)	<input type="checkbox"/> Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	<input type="checkbox"/> SVOCs (8270)	<input type="checkbox"/> Pesticides (8081)	<input type="checkbox"/> PCBs (8082)	<input type="checkbox"/> PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	<input type="checkbox"/> T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	<input type="checkbox"/> Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	Arsenic 6020	
		DATE	TIME																				
	Effluent	7-5-13	0735	GW	1		X															X	

Relinquished by: (Signature) <i>Glenn Androsko</i>	Received by: (Signature/Affiliation) <i>Aly Mungy</i> <b>CEL</b>	Date: <b>7-5-13</b>	Time: <b>1050</b>
Relinquished by: (Signature) <i>Aly Mungy</i>	Received by: (Signature/Affiliation) <i>[Signature]</i> <b>CEL</b>	Date: <b>7/5/13</b>	Time: <b>1430</b>
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

WORK ORDER #: **13-07-0341**

**SAMPLE RECEIPT FORM**

Cooler 1 of 1

CLIENT: PARSON'S

DATE: 07/15/13

**TEMPERATURE:** Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.6 °C - 0.2 °C (CF) = 2.4 °C  Blank  Sample

Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature:  Air  Filter Initial: AL

**CUSTODY SEALS INTACT:**

Cooler  \_\_\_\_\_  No (Not Intact)  Not Present  N/A Initial: AL

Sample  \_\_\_\_\_  No (Not Intact)  Not Present Initial: AL

**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:**

**Solid:**  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (\_\_\_\_)  EnCores®  TerraCores®  \_\_\_\_\_

**Water:**  VOA  VOAh  VOAna<sub>2</sub>  125AGB  125AGBh  125AGBp  1AGB  1AGBna<sub>2</sub>  1AGBs

500AGB  500AGJ  500AGJs  250AGB  250CGB  250CGBs  1PB  1PBna  500PB

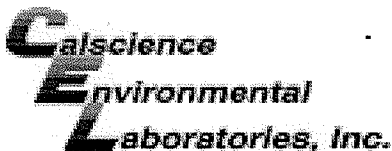
250PB  250PBnu  125PB  125PBzna  100PJ  100PJna<sub>2</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

**Air:**  Tedlar®  Canister **Other:**  \_\_\_\_\_ **Trip Blank Lot#:** \_\_\_\_\_ **Labeled/Checked by:** AL

**Container:** C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** AL

**Preservative:** h: HCL n: HNO<sub>3</sub> na<sub>2</sub>: Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> na: NaOH p: H<sub>3</sub>PO<sub>4</sub> s: H<sub>2</sub>SO<sub>4</sub> u: Ultra-pure zna: ZnAc<sub>2</sub>+NaOH f: Filtered **Scanned by:** AL

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WORK ORDER #: 13-07-0341

# SAMPLE ANOMALY FORM

## SAMPLES - CONTAINERS & LABELS:

## Comments:

- Sample(s) NOT RECEIVED but listed on COC
- Sample(s) received but NOT LISTED on COC
- Holding time expired – list sample ID(s) and test
- Insufficient quantities for analysis – list test
- Improper container(s) used – list test
- Improper preservative used – list test
- No preservative noted on COC or label – list test & notify lab
- Sample labels illegible – note test/container type
- Sample label(s) do not match COC – Note in comments
  - Sample ID
  - Date and/or Time Collected
  - Project Information
  - # of Container(s)
  - Analysis
- Sample container(s) compromised – Note in comments
  - Water present in sample container
  - Broken
- Sample container(s) not labeled
- Air sample container(s) compromised – Note in comments
  - Flat
  - Very low in volume
  - Leaking (Not transferred - duplicate bag submitted)
  - Leaking (transferred into Calscience Tedlar® Bag\*)
  - Leaking (transferred into Client's Tedlar® Bag\*)
- Other: \_\_\_\_\_

(-1) collection time per label @ 09:35

## HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

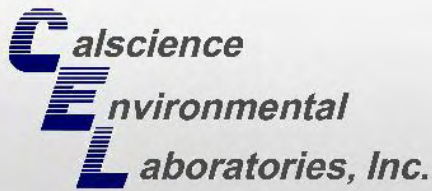
Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: \_\_\_\_\_

\*Transferred at Client's request.

Initial / Date: HH 07/15/13

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# CALSCIENCE

**WORK ORDER NUMBER: 13-07-0814**

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

### Analytical Report For

**Client:** Parsons Government Services, Inc.

**Client Project Name:** DFSP Norwalk - Monthly

**Attention:** Mary Lucas  
100 West Walnut Street  
Pasadena, CA 91124-0002

Approved for release on 07/22/2013 by:  
Ranjit Clarke  
Project Manager

ResultLink ▶

Email your PM ▶



Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



Client Project Name: DFSP Norwalk - Monthly  
 Work Order Number: 13-07-0814

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**Work Order Narrative**

Work Order: 13-07-0814

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**Condition Upon Receipt:**

Samples were received under Chain of Custody (COC) on 07/12/13. They were assigned to Work Order 13-07-0814.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

**Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with an immediate holding time (HT  $\leq$  15 minutes --40CFR-136.3 Table II footnote 4), is considered a "field" test and reported samples results are not flagged unless the analysis is performed beyond 24 hours of the time of collection.

**Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

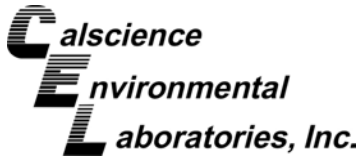
**Additional Comments:**

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

**Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.





## Analytical Report

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 07/12/13  
Work Order: 13-07-0814  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: DFSP Norwalk - Monthly

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	13-07-0814-1-I	07/12/13 08:55	Aqueous	GC 48	07/15/13	07/15/13 20:39	130715B16

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel	ND	100	1	

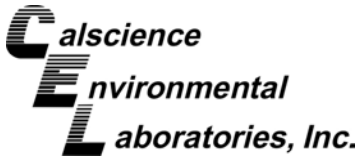
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	98	68-140	

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel	ND	100	1	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	96	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Parsons Government Services, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 07/12/13  
 Work Order: 13-07-0814  
 Preparation: EPA 5030C  
 Method: EPA 8015B (M)  
 Units: ug/L

Project: DFSP Norwalk - Monthly

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	13-07-0814-1-E	07/12/13 08:55	Aqueous	GC 42	07/15/13	07/15/13 17:41	130715B01

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	100	1	

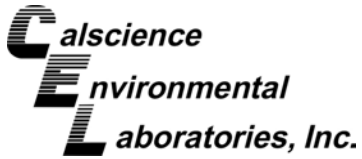
Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	79	38-134	

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	100	1	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	80	38-134	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 07/12/13  
Work Order: 13-07-0814  
Preparation: EPA 3020A Total  
Method: EPA 6020  
Units: mg/L

Project: DFSP Norwalk - Monthly

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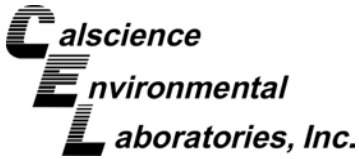
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	13-07-0814-1-G	07/12/13 08:55	Aqueous	ICP/MS 03	07/15/13	07/16/13 22:40	130715L02

Parameter	Result	RL	DF	Qualifiers
Arsenic	0.00340	0.00100	1	
Copper	0.00205	0.00100	1	
Lead	ND	0.00100	1	
Selenium	ND	0.00100	1	
Zinc	0.0107	0.00500	1	

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.00100	1	
Copper	ND	0.00100	1	
Lead	ND	0.00100	1	
Selenium	ND	0.00100	1	
Zinc	ND	0.00500	1	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 07/12/13  
Work Order: 13-07-0814  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP Norwalk - Monthly

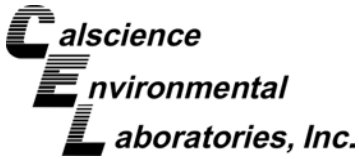
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	13-07-0814-1-C	07/12/13 08:55	Aqueous	GC/MS CC	07/16/13	07/16/13 13:41	130716L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1	
Benzene	ND	0.50	0.14	1	
Bromobenzene	ND	1.0	0.30	1	
Bromochloromethane	ND	1.0	0.48	1	
Bromodichloromethane	ND	1.0	0.21	1	
Bromoform	ND	1.0	0.50	1	
Bromomethane	ND	5.0	3.9	1	
2-Butanone	ND	10	2.2	1	
n-Butylbenzene	ND	1.0	0.23	1	
sec-Butylbenzene	ND	1.0	0.25	1	
tert-Butylbenzene	ND	1.0	0.28	1	
Carbon Disulfide	ND	10	0.41	1	
Carbon Tetrachloride	ND	0.50	0.23	1	
Chlorobenzene	ND	1.0	0.17	1	
Chloroethane	ND	5.0	2.3	1	
Chloroform	ND	1.0	0.46	1	
Chloromethane	ND	5.0	1.8	1	
2-Chlorotoluene	ND	1.0	0.24	1	
4-Chlorotoluene	ND	1.0	0.13	1	
Dibromochloromethane	ND	1.0	0.25	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1	
1,2-Dibromoethane	ND	1.0	0.36	1	
Dibromomethane	ND	1.0	0.46	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1	
Dichlorodifluoromethane	ND	1.0	0.46	1	
1,1-Dichloroethane	ND	1.0	0.28	1	
1,2-Dichloroethane	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.43	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1	
1,2-Dichloropropane	ND	1.0	0.42	1	
1,3-Dichloropropane	ND	1.0	0.30	1	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 07/12/13  
Work Order: 13-07-0814  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

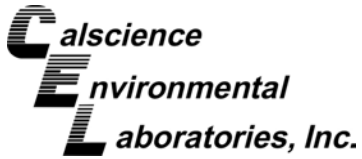
Project: DFSP Norwalk - Monthly

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	1.0	0.36	1	
1,1-Dichloropropene	ND	1.0	0.46	1	
c-1,3-Dichloropropene	ND	0.50	0.25	1	
t-1,3-Dichloropropene	ND	0.50	0.25	1	
Ethylbenzene	ND	0.50	0.14	1	
2-Hexanone	ND	10	2.1	1	
Isopropylbenzene	ND	1.0	0.58	1	
p-Isopropyltoluene	ND	1.0	0.16	1	
Methylene Chloride	ND	5.0	0.64	1	
4-Methyl-2-Pentanone	ND	10	4.4	1	
Naphthalene	ND	10	2.5	1	
n-Propylbenzene	ND	1.0	0.17	1	
Styrene	ND	1.0	0.17	1	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Tetrachloroethene	ND	1.0	0.39	1	
Toluene	ND	0.50	0.24	1	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
1,1,1-Trichloroethane	ND	1.0	0.30	1	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
1,1,2-Trichloroethane	ND	1.0	0.38	1	
Trichloroethene	ND	1.0	0.37	1	
Trichlorofluoromethane	ND	10	1.7	1	
1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
Vinyl Acetate	ND	10	2.8	1	
Vinyl Chloride	ND	0.50	0.30	1	
p/m-Xylene	ND	0.50	0.24	1	
o-Xylene	ND	0.50	0.23	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
Ethanol	ND	100	50	1	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

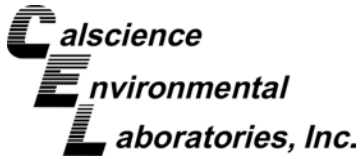
Parsons Government Services, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 07/12/13  
 Work Order: 13-07-0814  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: DFSP Norwalk - Monthly

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<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	96	80-126	
1,2-Dichloroethane-d4	101	80-134	
Toluene-d8	100	80-120	



## Analytical Report

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 07/12/13  
Work Order: 13-07-0814  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP Norwalk - Monthly

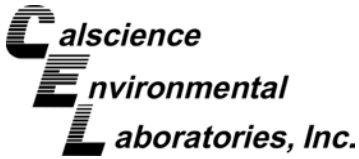
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-11422	N/A	Aqueous	GC/MS CC	07/16/13	07/16/13 13:12	130716L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1	
Benzene	ND	0.50	0.14	1	
Bromobenzene	ND	1.0	0.30	1	
Bromochloromethane	ND	1.0	0.48	1	
Bromodichloromethane	ND	1.0	0.21	1	
Bromoform	ND	1.0	0.50	1	
Bromomethane	ND	5.0	3.9	1	
2-Butanone	ND	10	2.2	1	
n-Butylbenzene	ND	1.0	0.23	1	
sec-Butylbenzene	ND	1.0	0.25	1	
tert-Butylbenzene	ND	1.0	0.28	1	
Carbon Disulfide	ND	10	0.41	1	
Carbon Tetrachloride	ND	0.50	0.23	1	
Chlorobenzene	ND	1.0	0.17	1	
Chloroethane	ND	5.0	2.3	1	
Chloroform	ND	1.0	0.46	1	
Chloromethane	ND	5.0	1.8	1	
2-Chlorotoluene	ND	1.0	0.24	1	
4-Chlorotoluene	ND	1.0	0.13	1	
Dibromochloromethane	ND	1.0	0.25	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1	
1,2-Dibromoethane	ND	1.0	0.36	1	
Dibromomethane	ND	1.0	0.46	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1	
Dichlorodifluoromethane	ND	1.0	0.46	1	
1,1-Dichloroethane	ND	1.0	0.28	1	
1,2-Dichloroethane	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.43	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1	
1,2-Dichloropropane	ND	1.0	0.42	1	
1,3-Dichloropropane	ND	1.0	0.30	1	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 07/12/13  
Work Order: 13-07-0814  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP Norwalk - Monthly

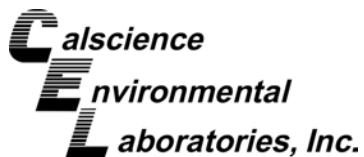
Page 5 of 6

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	1.0	0.36	1	
1,1-Dichloropropene	ND	1.0	0.46	1	
c-1,3-Dichloropropene	ND	0.50	0.25	1	
t-1,3-Dichloropropene	ND	0.50	0.25	1	
Ethylbenzene	ND	0.50	0.14	1	
2-Hexanone	ND	10	2.1	1	
Isopropylbenzene	ND	1.0	0.58	1	
p-Isopropyltoluene	ND	1.0	0.16	1	
Methylene Chloride	ND	5.0	0.64	1	
4-Methyl-2-Pentanone	ND	10	4.4	1	
Naphthalene	ND	10	2.5	1	
n-Propylbenzene	ND	1.0	0.17	1	
Styrene	ND	1.0	0.17	1	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Tetrachloroethene	ND	1.0	0.39	1	
Toluene	ND	0.50	0.24	1	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
1,1,1-Trichloroethane	ND	1.0	0.30	1	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
1,1,2-Trichloroethane	ND	1.0	0.38	1	
Trichloroethene	ND	1.0	0.37	1	
Trichlorofluoromethane	ND	10	1.7	1	
1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
Vinyl Acetate	ND	10	2.8	1	
Vinyl Chloride	ND	0.50	0.30	1	
p/m-Xylene	ND	0.50	0.24	1	
o-Xylene	ND	0.50	0.23	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
Ethanol	ND	100	50	1	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





## Analytical Report

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 07/12/13  
Work Order: 13-07-0814  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

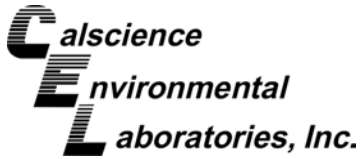
Project: DFSP Norwalk - Monthly

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<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	97	80-126	
1,2-Dichloroethane-d4	102	80-134	
Toluene-d8	100	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Parsons Government Services, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002  
 Project: DFSP Norwalk - Monthly

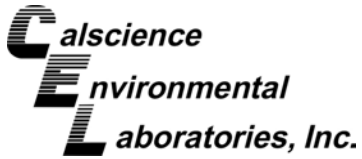
Date Received: 07/12/13  
 Work Order: 13-07-0814

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Client Sample Number	Lab Sample Number				Date/Time Collected		Matrix	
<b>Effluent</b>	<b>13-07-0814-1</b>				<b>07/12/13 08:55</b>		<b>Aqueous</b>	
<u>Parameter</u>	<u>Results</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method</u>
Turbidity	ND	0.050	1		NTU	N/A	07/12/13	SM 2130 B
pH	7.20	0.01	1		pH units	N/A	07/12/13	SM 4500 H+ B
Oil and Grease	ND	1.0	1		mg/L	07/17/13	07/17/13	SM 5520 B
<u>Parameter</u>	<u>Results</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method</u>
Oil and Grease	ND	1.0	1		mg/L	07/17/13	07/17/13	SM 5520 B

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Quality Control - Spike/Spike Duplicate

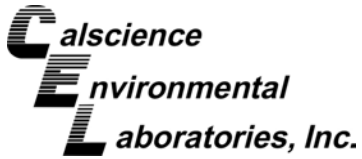
Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 07/12/13  
Work Order: 13-07-0814  
Preparation: N/A  
Method: SM 5520 B

Project: DFSP Norwalk - Monthly

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Quality Control Sample ID	Matrix		Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
<b>13-07-0466-4</b>	<b>Aqueous</b>		<b>N/A</b>	<b>07/17/13</b>	<b>07/17/13 18:00</b>	<b>D0717OGS1</b>				
<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Oil and Grease	51.20	40.00	90.10	97	90.60	98	80-120	1	0-25	



## Quality Control - Spike/Spike Duplicate

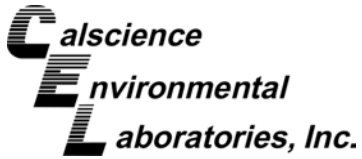
Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 07/12/13  
Work Order: 13-07-0814  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: DFSP Norwalk - Monthly

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Quality Control Sample ID	Matrix		Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
<b>13-07-0810-1</b>	<b>Aqueous</b>		<b>GC 42</b>	<b>07/15/13</b>	<b>07/15/13 13:36</b>	<b>130715S01</b>				
Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	661.0	2000	2435	89	2320	83	68-122	5	0-18	



## Quality Control - Spike/Spike Duplicate

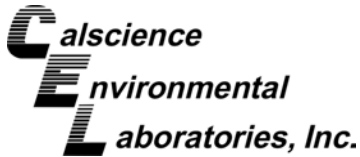
Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 07/12/13  
Work Order: 13-07-0814  
Preparation: EPA 3005A Filt.  
Method: EPA 6020

Project: DFSP Norwalk - Monthly

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Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number					
<b>13-07-0497-1</b>	<b>Aqueous</b>	<b>ICP/MS 03</b>	<b>07/15/13</b>	<b>07/16/13 15:34</b>	<b>130715S02</b>					
Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	ND	0.1000	0.1127	113	0.1160	116	73-127	3	0-11	
Copper	ND	0.1000	0.1020	102	0.1064	106	72-108	4	0-10	
Lead	ND	0.1000	0.1013	101	0.1052	105	79-121	4	0-10	
Selenium	ND	0.1000	0.1056	106	0.1080	108	59-125	2	0-12	
Zinc	ND	0.1000	0.1041	104	0.1167	117	43-145	11	0-39	



## Quality Control - Spike/Spike Duplicate

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 07/12/13  
Work Order: 13-07-0814  
Preparation: EPA 5030C  
Method: EPA 8260B

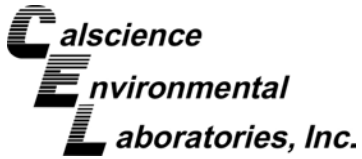
Project: DFSP Norwalk - Monthly

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Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number					
Effluent	Aqueous	GC/MS CC	07/16/13	07/16/13 14:41	130716S01					
Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	57.98	116	51.99	104	78-120	11	0-20	
Carbon Tetrachloride	ND	50.00	54.27	109	48.86	98	67-139	10	0-20	
Chlorobenzene	ND	50.00	58.67	117	53.51	107	80-120	9	0-20	
1,2-Dibromoethane	ND	50.00	58.16	116	53.17	106	80-123	9	0-20	
1,2-Dichlorobenzene	ND	50.00	59.49	119	53.26	107	76-120	11	0-20	
1,2-Dichloroethane	ND	50.00	62.77	126	57.41	115	76-130	9	0-20	
1,1-Dichloroethene	ND	50.00	51.91	104	46.46	93	70-130	11	0-27	
Ethylbenzene	ND	50.00	58.43	117	52.78	106	73-127	10	0-20	
Toluene	ND	50.00	57.07	114	52.10	104	72-126	9	0-20	
Trichloroethene	ND	50.00	57.46	115	51.30	103	74-122	11	0-20	
Vinyl Chloride	ND	50.00	54.63	109	48.38	97	65-131	12	0-24	
p/m-Xylene	ND	100.0	116.9	117	106.6	107	70-130	9	0-30	
o-Xylene	ND	50.00	58.40	117	53.26	107	70-130	9	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	52.14	104	47.43	95	69-123	9	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	344.4	138	329.6	132	65-131	4	0-22	3
Diisopropyl Ether (DIPE)	ND	50.00	56.11	112	50.18	100	68-128	11	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	54.92	110	52.74	105	69-123	4	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	55.25	110	50.81	102	70-124	8	0-20	
Ethanol	ND	500.0	629.3	126	580.3	116	41-155	8	0-35	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



## Quality Control - PDS/PDSD

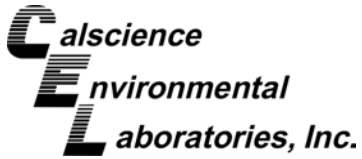
Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 07/12/13  
Work Order: 13-07-0814  
Preparation: EPA 3005A Filt.  
Method: EPA 6020

Project: DFSP Norwalk - Monthly

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Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number	
<b>13-07-0497-1</b>	<b>Aqueous</b>	<b>ICP/MS 03</b>	<b>07/15/13 00:00</b>	<b>07/16/13 15:39</b>	<b>130715S02</b>	
<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>PDS Conc.</u>	<u>PDS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Arsenic	ND	0.1000	0.1107	111	75-125	
Copper	ND	0.1000	0.1003	100	75-125	
Lead	ND	0.1000	0.1009	101	75-125	
Selenium	ND	0.1000	0.1038	104	75-125	
Zinc	ND	0.1000	0.09726	97	75-125	



## Quality Control - Sample Duplicate

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

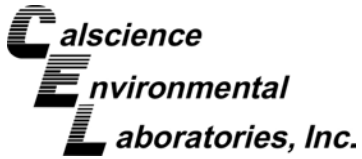
Date Received: 07/12/13  
Work Order: 13-07-0814  
Preparation: N/A  
Method: SM 2130 B

Project: DFSP Norwalk - Monthly

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Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
<b>13-07-0752-1</b>	<b>Aqueous</b>	<b>TUR 3</b>	<b>N/A</b>	<b>07/12/13 17:16</b>	<b>D0712TURD1</b>
<u>Parameter</u>	<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Turbidity	0.6200	0.6400	3	0-25	





## Quality Control - Sample Duplicate

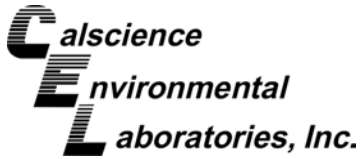
Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 07/12/13  
Work Order: 13-07-0814  
Preparation: N/A  
Method: SM 4500 H+ B

Project: DFSP Norwalk - Monthly

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Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
<b>13-07-0752-1</b>	<b>Aqueous</b>	<b>PH 1</b>	<b>N/A</b>	<b>07/12/13 14:49</b>	<b>D0712PHD1</b>
<u>Parameter</u>	<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
pH	6.920	6.940	0	0-25	



## Quality Control - LCS/LCSD

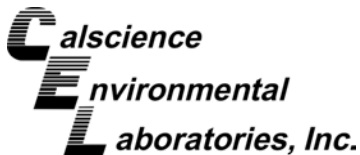
Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 07/12/13  
Work Order: 13-07-0814  
Preparation: N/A  
Method: SM 5520 B

Project: DFSP Norwalk - Monthly

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Quality Control Sample ID		Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
<b>099-05-081-2915</b>		<b>Aqueous</b>	<b>N/A</b>	<b>07/17/13</b>	<b>07/17/13 18:00</b>	<b>D0717OGL1</b>			
<u>Parameter</u>	<u>Spike Added</u>	<u>LCS Conc.</u>	<u>LCS %Rec.</u>	<u>LCSD Conc.</u>	<u>LCSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Oil and Grease	40.00	38.80	97	38.10	95	80-120	2	0-20	



Quality Control - LCS/LCSD

Parsons Government Services, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 07/12/13  
 Work Order: 13-07-0814  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

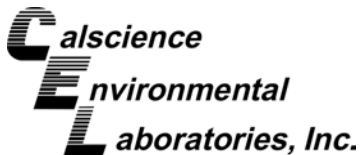
Project: DFSP Norwalk - Monthly

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Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
<b>099-15-282-115</b>	<b>Aqueous</b>	<b>GC 48</b>	<b>07/15/13</b>	<b>07/15/13 19:51</b>	<b>130715B16</b>				
<u>Parameter</u>	<u>Spike Added</u>	<u>LCS Conc.</u>	<u>LCS %Rec.</u>	<u>LCSD Conc.</u>	<u>LCSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Diesel	4000	4067	102	4030	101	75-117	1	0-13	

Return to Contents 

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - LCS

Parsons Government Services, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 07/12/13  
 Work Order: 13-07-0814  
 Preparation: EPA 5030C  
 Method: EPA 8015B (M)

Project: DFSP Norwalk - Monthly

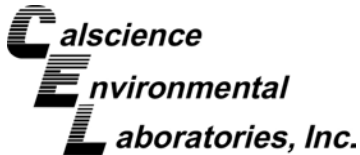
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Quality Control Sample ID	Matrix	Instrument	Date Analyzed	LCS Batch Number
<b>099-15-704-454</b>	<b>Aqueous</b>	<b>GC 42</b>	<b>07/15/13 12:26</b>	<b>130715B01</b>

<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Gasoline	2000	2212	111	78-120	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - LCS

Parsons Government Services, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 07/12/13  
 Work Order: 13-07-0814  
 Preparation: EPA 3020A Total  
 Method: EPA 6020

Project: DFSP Norwalk - Monthly

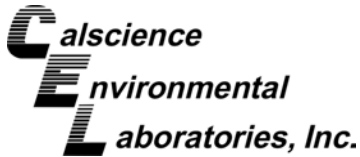
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Quality Control Sample ID	Matrix	Instrument	Date Analyzed	LCS Batch Number
<b>096-06-003-4151</b>	<b>Aqueous</b>	<b>ICP/MS 03</b>	<b>07/16/13 21:31</b>	<b>130715L02</b>

<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Arsenic	0.1000	0.1022	102	80-120	
Copper	0.1000	0.1081	108	80-120	
Lead	0.1000	0.1034	103	80-120	
Selenium	0.1000	0.1038	104	80-120	
Zinc	0.1000	0.1087	109	80-120	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



## Quality Control - LCS

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 07/12/13  
Work Order: 13-07-0814  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: DFSP Norwalk - Monthly

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Quality Control Sample ID	Matrix	Instrument	Date Analyzed	LCS Batch Number		
<b>099-14-001-11422</b>	<b>Aqueous</b>	<b>GC/MS CC</b>	<b>07/16/13 11:40</b>	<b>130716L01</b>		
Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	58.33	117	80-120	73-127	
Carbon Tetrachloride	50.00	55.00	110	66-138	54-150	
Chlorobenzene	50.00	59.95	120	80-120	73-127	
1,2-Dibromoethane	50.00	57.49	115	80-120	73-127	
1,2-Dichlorobenzene	50.00	61.29	123	80-120	73-127	ME
1,2-Dichloroethane	50.00	62.36	125	80-129	72-137	
1,1-Dichloroethene	50.00	52.44	105	71-131	61-141	
Ethylbenzene	50.00	59.38	119	80-123	73-130	
Toluene	50.00	58.20	116	79-121	72-128	
Trichloroethene	50.00	58.92	118	80-120	73-127	
Vinyl Chloride	50.00	51.38	103	70-136	59-147	
p/m-Xylene	100.0	120.2	120	75-125	67-133	
o-Xylene	50.00	59.36	119	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)	50.00	50.91	102	72-126	63-135	
Tert-Butyl Alcohol (TBA)	250.0	311.0	124	71-125	62-134	
Diisopropyl Ether (DIPE)	50.00	55.16	110	69-129	59-139	
Ethyl-t-Butyl Ether (ETBE)	50.00	58.77	118	69-129	59-139	
Tert-Amyl-Methyl Ether (TAME)	50.00	55.92	112	67-133	56-144	
Ethanol	500.0	595.2	119	47-155	29-173	

Total number of LCS compounds: 19

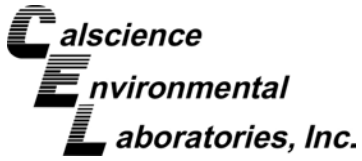
Total number of ME compounds: 1

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits



## Sample Analysis Summary Report

Work Order: 13-07-0814

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 6020	EPA 3020A Total	598	ICP/MS 03	1
EPA 8015B (M)	EPA 3510C	847	GC 48	1
EPA 8015B (M)	EPA 5030C	797	GC 42	2
EPA 8260B	EPA 5030C	867	GC/MS CC	2
SM 2130 B	N/A	688	TUR 3	1
SM 4500 H+ B	N/A	688	PH 1	1
SM 5520 B	N/A	691	N/A	1

  
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Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

Location 2: 7445 Lampson Avenue, Garden Grove, CA 92841

## Glossary of Terms and Qualifiers

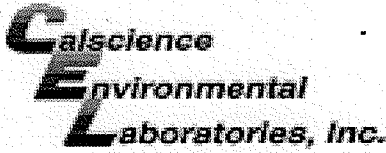
Work Order: 13-07-0814

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	For any analysis identified as a "field" test with a holding time (HT) <= 15 minutes where the sample is received outside of HT, Calscience will adhere to its internal HT of 24 hours. In cases where sample analysis does not meet Calscience's internal HT, results will be appropriately qualified.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



LABORATORY CLIENT: <b>Parsons, Inc.</b>						CLIENT PROJECT NAME / NUMBER: <b>DFSP Norwalk - Monthly</b>						P.O. NO.:					
100 W. Walnut Street						PROJECT CONTACT: <i>Mary Lucas / Cindy Zicker</i>						QUOTE NO.:					
CITY: <b>Paasadena, CA 91124</b>						SAMPLER(S): (SIGNATURE) <i>Glenn Anderson</i>						LAB USE ONLY <b>13-07-0814</b> <input type="checkbox"/>					
TEL:		FAX:		E-MAIL:													
TURNAROUND TIME <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS						<b>REQUESTED ANALYSIS</b>											
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL ___ / ___ / ___																	
SPECIAL INSTRUCTIONS																	
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		MAT- RIX	NO. OF CONT.	Turbidity (SM 2130B)	Oil & Grease (SM 5520B)	pH (SM 4500 H+B)	TPH-Diesel/Gas (EPA 8015B(M))	VOCs + Oxys (EPA 8260B)	Metals (EPA 6020: As,Cu,Se,Pb,Zn)					Comments
			DATE	TIME													
1	<i>Effluent</i>		<i>7-12-13</i>	<i>0855</i>	<i>W</i>	<i>10</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>					<i>(72 hr TAT for EPA 6020 only)</i>
Relinquished by: (Signature) <i>Glenn Anderson</i>						Received by: (Signature) <i>Aly Mary</i>						Date: <i>7-12-13</i>		Time: <i>10:15</i>			
Relinquished by: (Signature) <i>Aly Mary</i>						Received by: (Signature) <i>J.P. Park</i>						Date: <i>7/12/13</i>		Time: <i>1415</i>			
Relinquished by: (Signature)						Received by: (Signature)						Date:		Time:			



WORK ORDER #: 13-07-0814

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSON'S

DATE: 07/12/13

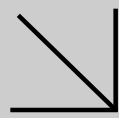
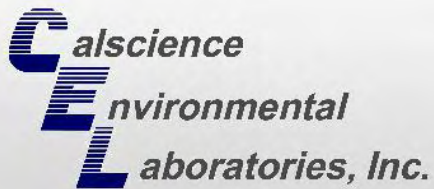
TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0°C - 6.0°C, not frozen except sediment/tissue)
Temperature 2.6°C - 0.2°C (CF) = 2.4°C
[ ] Blank [ ] Sample
[ ] Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_).
[ ] Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.
[ ] Received at ambient temperature, placed on ice for transport by Courier.
Ambient Temperature: [ ] Air [ ] Filter Initial: AM

CUSTODY SEALS INTACT:
[ ] Cooler [ ] \_\_\_\_\_ [ ] No (Not Intact) [ ] Not Present [ ] N/A Initial: AM
[ ] Sample [ ] \_\_\_\_\_ [ ] No (Not Intact) [ ] Not Present Initial: JM

SAMPLE CONDITION:
Chain-Of-Custody (COC) document(s) received with samples... [x] Yes [ ] No [ ] N/A
COC document(s) received complete... [x] Yes [ ] No [ ] N/A
[ ] Collection date/time, matrix, and/or # of containers logged in based on sample labels.
[ ] No analysis requested. [ ] Not relinquished. [ ] No date/time relinquished.
Sampler's name indicated on COC... [x] Yes [ ] No [ ] N/A
Sample container label(s) consistent with COC... [x] Yes [ ] No [ ] N/A
Sample container(s) intact and good condition... [x] Yes [ ] No [ ] N/A
Proper containers and sufficient volume for analyses requested... [x] Yes [ ] No [ ] N/A
Analyses received within holding time... [x] Yes [ ] No [ ] N/A
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours... [x] Yes [ ] No [ ] N/A
Proper preservation noted on COC or sample container... [x] Yes [ ] No [ ] N/A
[ ] Unpreserved vials received for Volatiles analysis
Volatile analysis container(s) free of headspace... [x] Yes [ ] No [ ] N/A
Tedlar bag(s) free of condensation... [ ] Yes [ ] No [x] N/A

CONTAINER TYPE:
Solid: [ ] 4ozCGJ [ ] 8ozCGJ [ ] 16ozCGJ [ ] Sleeve (\_\_\_\_) [ ] EnCores® [ ] TerraCores® [ ] \_\_\_\_\_
Water: [ ] VOA [x] VOA<sup>(6)</sup>h [ ] VOAna<sub>2</sub> [ ] 125AGB [ ] 125AGBh [ ] 125AGBp [ ] 1AGB [ ] 1AGBna<sub>2</sub> [x] 1AGBs
[ ] 500AGB [x] 500AGJ [ ] 500AGJs [ ] 250AGB [ ] 250CGB [ ] 250CGBs [ ] 1PB [ ] 1PBna [x] 500PB
[ ] 250PB [x] 250PBni [ ] 125PB [ ] 125PBz<sub>na</sub> [ ] 100PJ [ ] 100PJna<sub>2</sub> [ ] \_\_\_\_\_ [ ] \_\_\_\_\_ [ ] \_\_\_\_\_
Air: [ ] Tedlar® [ ] Canister Other: [ ] \_\_\_\_\_ Trip Blank Lot#: \_\_\_\_\_ Labeled/Checked by: JM
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: JM
Preservative: h: HCL n: HNO<sub>3</sub> na<sub>2</sub>:Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> na: NaOH p: H<sub>3</sub>PO<sub>4</sub> s: H<sub>2</sub>SO<sub>4</sub> u: Ultra-pure z<sub>na</sub>: ZnAc<sub>2</sub>+NaOH f: Filtered Scanned by: JM

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# CALSCIENCE

## WORK ORDER NUMBER: 13-07-1313

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

### Analytical Report For

**Client:** Parsons Government Services, Inc.

**Client Project Name:** DFSP - Norwalk

**Attention:** Mary Lucas  
100 West Walnut Street  
Pasadena, CA 91124-0002

*Ranjit K. Clarke*

Approved for release on 07/25/2013 by:  
Ranjit Clarke  
Project Manager

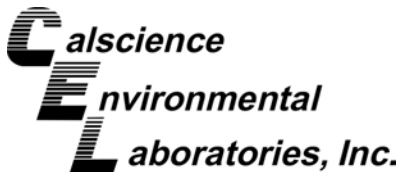
ResultLink ▶

Email your PM ▶



Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.





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Client Project Name: DFSP - Norwalk  
Work Order Number: 13-07-1313

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	3.3 LCS/LCSD. . . . .	7
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**Work Order Narrative**

Work Order: 13-07-1313

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**Condition Upon Receipt:**

Samples were received under Chain of Custody (COC) on 07/19/13. They were assigned to Work Order 13-07-1313.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

**Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**Quality Control:**

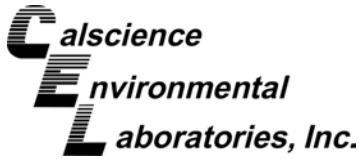
All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

**Additional Comments:**

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

**Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



## Analytical Report

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 07/19/13  
Work Order: 13-07-1313  
Preparation: EPA 3020A Total  
Method: EPA 6020  
Units: mg/L

Project: DFSP - Norwalk

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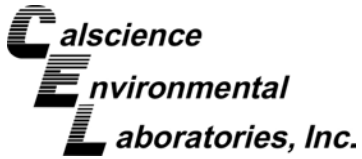
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	13-07-1313-1-A	07/19/13 12:20	Aqueous	ICP/MS 03	07/22/13	07/22/13 23:49	130722L04

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Arsenic	0.00193	0.00100	1	

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Arsenic	ND	0.00100	1	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Quality Control - Spike/Spike Duplicate

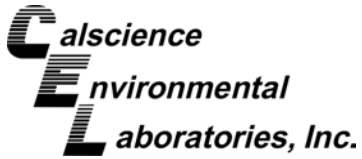
Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 07/19/13  
Work Order: 13-07-1313  
Preparation: EPA 3020A Total  
Method: EPA 6020

Project: DFSP - Norwalk

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Quality Control Sample ID	Matrix		Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
<b>13-07-1338-2</b>	<b>Aqueous</b>		<b>ICP/MS 03</b>	<b>07/22/13</b>	<b>07/22/13 22:35</b>	<b>130722S04</b>				
<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Arsenic	0.1361	0.1000	0.2374	101	0.2331	97	73-127	2	0-11	



## Quality Control - PDS/PDSD

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

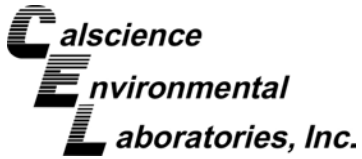
Date Received: 07/19/13  
Work Order: 13-07-1313  
Preparation: EPA 3020A Total  
Method: EPA 6020

Project: DFSP - Norwalk

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Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number	
<b>13-07-1338-2</b>	<b>Aqueous</b>	<b>ICP/MS 03</b>	<b>07/22/13 00:00</b>	<b>07/22/13 22:47</b>	<b>130722S04</b>	
<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>PDS Conc.</u>	<u>PDS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Arsenic	0.1361	0.1000	0.2224	86	75-125	





## Quality Control - LCS

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 07/19/13  
Work Order: 13-07-1313  
Preparation: EPA 3020A Total  
Method: EPA 6020

Project: DFSP - Norwalk

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Quality Control Sample ID	Matrix	Instrument	Date Analyzed	LCS Batch Number	
<b>096-06-003-4157</b>	<b>Aqueous</b>	<b>ICP/MS 03</b>	<b>07/22/13 22:32</b>	<b>130722L04</b>	
<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Arsenic	0.1000	0.09484	95	80-120	

## Glossary of Terms and Qualifiers

Work Order: 13-07-1313

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq$  15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



# Calscience Environmental Laboratories, Inc.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494

Other CA office locations: Concord and San Luis Obispo

For courier service / sample drop off information, contact [sales@calscience.com](mailto:sales@calscience.com) or call us.

## CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

# 13-07-1313

Date 7-19-13

Page 1 of 1

LABORATORY CLIENT: Parsons

ADDRESS: 100 W. Walnut St

CITY: Pasadena STATE: CA ZIP: 91124

CLIENT PROJECT NAME / NUMBER: DFSP- Noiwalk

P.O. NO.: 747577-05000

PROJECT CONTACT: Mary Lucas / Cindy Zicker

SAMPLER(S): (PRINT) Glenn Androsko

TEL: 626-440-6032 E-MAIL: Mary.Lucas@Parsons.com

TURNAROUND TIME:  
 SAME DAY  24 HR  48 HR  72 HR  STANDARD

COELT EDF GLOBAL ID LOG CODE

### REQUESTED ANALYSES

Please check box or fill in blank as needed.

<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	<input type="checkbox"/> TPH C6-C36 <input type="checkbox"/> C6-C44	<input type="checkbox"/> TPH	<input type="checkbox"/> BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	<input type="checkbox"/> VOCs (8260)	<input type="checkbox"/> Oxygenates (8260)	<input type="checkbox"/> Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	<input type="checkbox"/> SVOCs (8270)	<input type="checkbox"/> Pesticides (8081)	<input type="checkbox"/> PCBs (8082)	<input type="checkbox"/> PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	<input type="checkbox"/> T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	<input type="checkbox"/> Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	<u>6020 Arsenic</u>
--	--	---	------------------------------	---	--------------------------------------	--	---	---------------------------------------	--	--------------------------------------	---	---	--	---------------------

SPECIAL INSTRUCTIONS:

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	REQUESTED ANALYSES																
		DATE	TIME						<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	<input type="checkbox"/> TPH C6-C36 <input type="checkbox"/> C6-C44	<input type="checkbox"/> TPH	<input type="checkbox"/> BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	<input type="checkbox"/> VOCs (8260)	<input type="checkbox"/> Oxygenates (8260)	<input type="checkbox"/> Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	<input type="checkbox"/> SVOCs (8270)	<input type="checkbox"/> Pesticides (8081)	<input type="checkbox"/> PCBs (8082)	<input type="checkbox"/> PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	<input type="checkbox"/> T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	<input type="checkbox"/> Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	<u>6020 Arsenic</u>		
	<u>Effluent</u>	<u>7-19-13</u>	<u>1220</u>	<u>GW</u>	<u>1</u>		<input checked="" type="checkbox"/>																		<input checked="" type="checkbox"/>

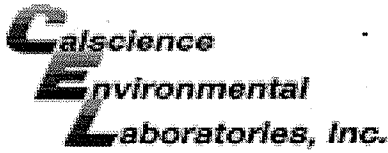
Relinquished by: (Signature) <u>Glenn Androsko</u>	Received by: (Signature/Affiliation) <u>Mary Lucas CZE</u>	Date: <u>7-19-13</u>	Time: <u>1345</u>
Relinquished by: (Signature) <u>Andy Lucas</u>	Received by: (Signature/Affiliation) <u>Home CZE</u>	Date: <u>7/19/13</u>	Time: <u>1300</u>
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.

Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

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11/01/12 Revision



WORK ORDER #: 13-07-0303

**SAMPLE RECEIPT FORM**

Cooler 1 of 1

CLIENT: PARSON'S

DATE: 07/19/13

**TEMPERATURE:** Thermometer ID: SC3 (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Temperature 2.6 °C - 0.2°C (CF) = 2.4 °C  Blank  Sample

Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature:  Air  Filter Initial: AC

**CUSTODY SEALS INTACT:**

Cooler  \_\_\_\_\_  No (Not Intact)  Not Present  N/A Initial: AC

Sample  \_\_\_\_\_  No (Not Intact)  Not Present Initial: JH

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:**

Solid:  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (\_\_\_\_)  EnCores®  TerraCores®  \_\_\_\_\_

Water:  VOA  VOA<sub>h</sub>  VOA<sub>na2</sub>  125AGB  125AGB<sub>h</sub>  125AGB<sub>p</sub>  1AGB  1AGB<sub>na2</sub>  1AGB<sub>s</sub>

500AGB  500AGJ  500AGJ<sub>s</sub>  250AGB  250CGB  250CGB<sub>s</sub>  1PB  1PB<sub>na</sub>  500PB

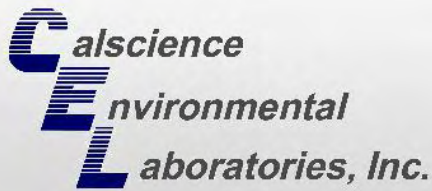
250PB  250PB<sub>na</sub>  125PB  125PB<sub>z<sub>na</sub></sub>  100PJ  100PJ<sub>na2</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

Air:  Tedlar®  Canister Other:  \_\_\_\_\_ Trip Blank Lot#: \_\_\_\_\_ Labeled/Checked by: JH

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: JH

Preservative: h: HCL n: HNO<sub>3</sub> na<sub>2</sub>:Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> na: NaOH p: H<sub>3</sub>PO<sub>4</sub> s: H<sub>2</sub>SO<sub>4</sub> u: Ultra-pure z<sub>na</sub>: ZnAc<sub>2</sub>+NaOH f: Filtered Scanned by: JH

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# CALSCIENCE

## WORK ORDER NUMBER: 13-08-1376

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

### Analytical Report For

**Client:** Parsons Government Services, Inc.

**Client Project Name:** DFSP Norwalk - Monthly

**Attention:** Mary Lucas  
100 West Walnut Street  
Pasadena, CA 91124-0002

Approved for release on 08/28/2013 by:  
Ranjit Clarke  
Project Manager

ResultLink ▶

Email your PM ▶



Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



Client Project Name: DFSP Norwalk - Monthly  
Work Order Number: 13-08-1376

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**Work Order Narrative**

Work Order: 13-08-1376

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**Condition Upon Receipt:**

Samples were received under Chain of Custody (COC) on 08/20/13. They were assigned to Work Order 13-08-1376.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

**Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**Quality Control:**

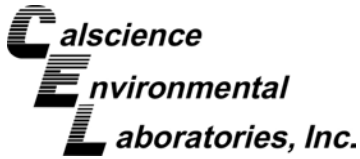
All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

**Additional Comments:**

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

**Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



## Analytical Report

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 08/20/13  
Work Order: 13-08-1376  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: DFSP Norwalk - Monthly

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	13-08-1376-1-H	08/20/13 11:00	Aqueous	GC 48	08/22/13	08/23/13 07:56	130822B07

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel	ND	100	1	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	102	68-140	

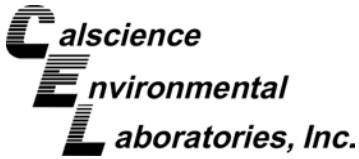
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel	ND	100	1	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	96	68-140	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





## Analytical Report

Parsons Government Services, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 08/20/13  
 Work Order: 13-08-1376  
 Preparation: EPA 5030C  
 Method: EPA 8015B (M)  
 Units: ug/L

Project: DFSP Norwalk - Monthly

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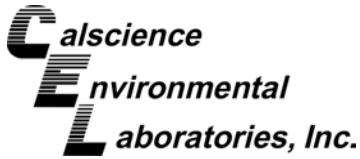
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	13-08-1376-1-F	08/20/13 11:00	Aqueous	GC 22	08/21/13	08/22/13 07:13	130821B04

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	100	1	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
1,4-Bromofluorobenzene	78	38-134		

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	100	1	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
1,4-Bromofluorobenzene	79	38-134		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 08/20/13  
Work Order: 13-08-1376  
Preparation: EPA 3020A Total  
Method: EPA 6020  
Units: mg/L

Project: DFSP Norwalk - Monthly

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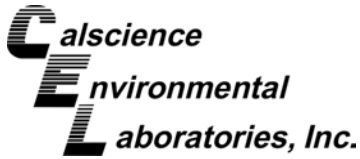
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	13-08-1376-1-J	08/20/13 11:00	Aqueous	ICP/MS 03	08/20/13	08/20/13 20:48	130820L03

Parameter	Result	RL	DF	Qualifiers
Arsenic	0.00520	0.00100	1	
Copper	0.00176	0.00100	1	
Lead	ND	0.00100	1	
Selenium	ND	0.00100	1	
Zinc	ND	0.00500	1	

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.00100	1	
Copper	ND	0.00100	1	
Lead	ND	0.00100	1	
Selenium	ND	0.00100	1	
Zinc	ND	0.00500	1	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 08/20/13  
Work Order: 13-08-1376  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP Norwalk - Monthly

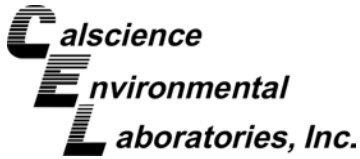
Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	13-08-1376-1-D	08/20/13 11:00	Aqueous	GC/MS OO	08/21/13	08/21/13 23:45	130821L02

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1	
Benzene	ND	0.50	0.14	1	
Bromobenzene	ND	1.0	0.30	1	
Bromochloromethane	ND	1.0	0.48	1	
Bromodichloromethane	ND	1.0	0.21	1	
Bromoform	ND	1.0	0.50	1	
Bromomethane	ND	5.0	3.9	1	
2-Butanone	ND	10	2.2	1	
n-Butylbenzene	ND	1.0	0.23	1	
sec-Butylbenzene	ND	1.0	0.25	1	
tert-Butylbenzene	ND	1.0	0.28	1	
Carbon Disulfide	2.0	10	0.41	1	J
Carbon Tetrachloride	ND	0.50	0.23	1	
Chlorobenzene	ND	1.0	0.17	1	
Chloroethane	ND	5.0	2.3	1	
Chloroform	ND	1.0	0.46	1	
Chloromethane	ND	5.0	1.8	1	
2-Chlorotoluene	ND	1.0	0.24	1	
4-Chlorotoluene	ND	1.0	0.13	1	
Dibromochloromethane	ND	1.0	0.25	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1	
1,2-Dibromoethane	ND	1.0	0.36	1	
Dibromomethane	ND	1.0	0.46	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1	
Dichlorodifluoromethane	ND	1.0	0.46	1	
1,1-Dichloroethane	ND	1.0	0.28	1	
1,2-Dichloroethane	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.43	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1	
1,2-Dichloropropane	ND	1.0	0.42	1	
1,3-Dichloropropane	ND	1.0	0.30	1	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 08/20/13  
Work Order: 13-08-1376  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

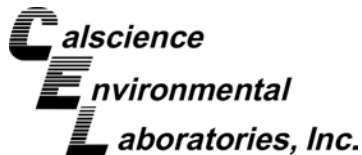
Project: DFSP Norwalk - Monthly

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	1.0	0.36	1	
1,1-Dichloropropene	ND	1.0	0.46	1	
c-1,3-Dichloropropene	ND	0.50	0.25	1	
t-1,3-Dichloropropene	ND	0.50	0.25	1	
Ethylbenzene	ND	0.50	0.14	1	
2-Hexanone	ND	10	2.1	1	
Isopropylbenzene	ND	1.0	0.58	1	
p-Isopropyltoluene	ND	1.0	0.16	1	
Methylene Chloride	ND	5.0	0.64	1	
4-Methyl-2-Pentanone	ND	10	4.4	1	
Naphthalene	ND	10	2.5	1	
n-Propylbenzene	ND	1.0	0.17	1	
Styrene	ND	1.0	0.17	1	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Tetrachloroethene	ND	1.0	0.39	1	
Toluene	ND	0.50	0.24	1	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
1,1,1-Trichloroethane	ND	1.0	0.30	1	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
1,1,2-Trichloroethane	ND	1.0	0.38	1	
Trichloroethene	ND	1.0	0.37	1	
Trichlorofluoromethane	ND	10	1.7	1	
1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
Vinyl Acetate	ND	10	2.8	1	
Vinyl Chloride	ND	0.50	0.30	1	
p/m-Xylene	ND	0.50	0.24	1	
o-Xylene	ND	0.50	0.23	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
Ethanol	ND	100	50	1	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Parsons Government Services, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 08/20/13  
 Work Order: 13-08-1376  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

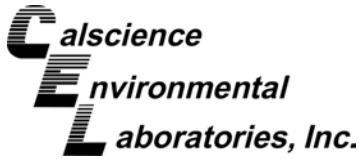
Project: DFSP Norwalk - Monthly

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<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	89	80-120	
Dibromofluoromethane	99	80-126	
1,2-Dichloroethane-d4	86	80-134	
Toluene-d8	97	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 08/20/13  
Work Order: 13-08-1376  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP Norwalk - Monthly

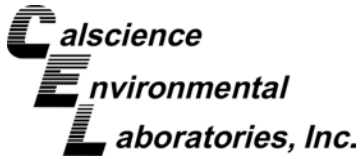
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-11722	N/A	Aqueous	GC/MS OO	08/21/13	08/21/13 23:18	130821L02

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1	
Benzene	ND	0.50	0.14	1	
Bromobenzene	ND	1.0	0.30	1	
Bromochloromethane	ND	1.0	0.48	1	
Bromodichloromethane	ND	1.0	0.21	1	
Bromoform	ND	1.0	0.50	1	
Bromomethane	ND	5.0	3.9	1	
2-Butanone	ND	10	2.2	1	
n-Butylbenzene	ND	1.0	0.23	1	
sec-Butylbenzene	ND	1.0	0.25	1	
tert-Butylbenzene	ND	1.0	0.28	1	
Carbon Disulfide	ND	10	0.41	1	
Carbon Tetrachloride	ND	0.50	0.23	1	
Chlorobenzene	ND	1.0	0.17	1	
Chloroethane	ND	5.0	2.3	1	
Chloroform	ND	1.0	0.46	1	
Chloromethane	ND	5.0	1.8	1	
2-Chlorotoluene	ND	1.0	0.24	1	
4-Chlorotoluene	ND	1.0	0.13	1	
Dibromochloromethane	ND	1.0	0.25	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1	
1,2-Dibromoethane	ND	1.0	0.36	1	
Dibromomethane	ND	1.0	0.46	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1	
Dichlorodifluoromethane	ND	1.0	0.46	1	
1,1-Dichloroethane	ND	1.0	0.28	1	
1,2-Dichloroethane	ND	0.50	0.24	1	
1,1-Dichloroethene	ND	1.0	0.43	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1	
1,2-Dichloropropane	ND	1.0	0.42	1	
1,3-Dichloropropane	ND	1.0	0.30	1	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 08/20/13  
Work Order: 13-08-1376  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

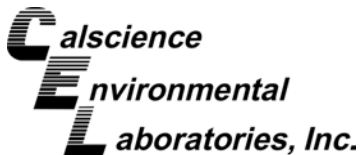
Project: DFSP Norwalk - Monthly

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	1.0	0.36	1	
1,1-Dichloropropene	ND	1.0	0.46	1	
c-1,3-Dichloropropene	ND	0.50	0.25	1	
t-1,3-Dichloropropene	ND	0.50	0.25	1	
Ethylbenzene	ND	0.50	0.14	1	
2-Hexanone	ND	10	2.1	1	
Isopropylbenzene	ND	1.0	0.58	1	
p-Isopropyltoluene	ND	1.0	0.16	1	
Methylene Chloride	ND	5.0	0.64	1	
4-Methyl-2-Pentanone	ND	10	4.4	1	
Naphthalene	ND	10	2.5	1	
n-Propylbenzene	ND	1.0	0.17	1	
Styrene	ND	1.0	0.17	1	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Tetrachloroethene	ND	1.0	0.39	1	
Toluene	ND	0.50	0.24	1	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
1,1,1-Trichloroethane	ND	1.0	0.30	1	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
1,1,2-Trichloroethane	ND	1.0	0.38	1	
Trichloroethene	ND	1.0	0.37	1	
Trichlorofluoromethane	ND	10	1.7	1	
1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
Vinyl Acetate	ND	10	2.8	1	
Vinyl Chloride	ND	0.50	0.30	1	
p/m-Xylene	ND	0.50	0.24	1	
o-Xylene	ND	0.50	0.23	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
Ethanol	ND	100	50	1	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Parsons Government Services, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 08/20/13  
 Work Order: 13-08-1376  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: DFSP Norwalk - Monthly

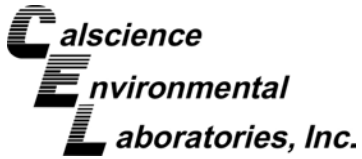
Page 6 of 6

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	86	80-120	
Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	86	80-134	
Toluene-d8	97	80-120	



RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





## Analytical Report

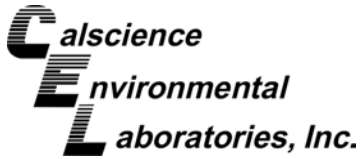
Parsons Government Services, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002  
 Project: DFSP Norwalk - Monthly

Date Received: 08/20/13  
 Work Order: 13-08-1376

Page 1 of 1

Client Sample Number	Lab Sample Number				Date/Time Collected		Matrix	
<b>Effluent</b>	<b>13-08-1376-1</b>				<b>08/20/13 11:00</b>		<b>Aqueous</b>	
<u>Parameter</u>	<u>Results</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method</u>
Turbidity	20	1.0	1		NTU	N/A	08/20/13	SM 2130 B
pH	7.07	0.01	1	BV,BU	pH units	N/A	08/20/13	SM 4500 H+ B
Oil and Grease	ND	1.0	1		mg/L	08/22/13	08/22/13	SM 5520 B
<u>Parameter</u>	<u>Results</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method</u>
Oil and Grease	ND	1.0	1		mg/L	08/22/13	08/22/13	SM 5520 B

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Quality Control - Spike/Spike Duplicate

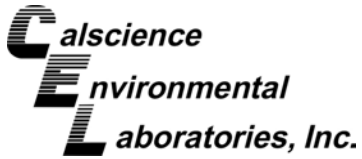
Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 08/20/13  
Work Order: 13-08-1376  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: DFSP Norwalk - Monthly

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Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number					
<b>Effluent</b>	<b>Aqueous</b>	<b>GC 22</b>	<b>08/21/13</b>	<b>08/22/13 07:46</b>	<b>130821S03</b>					
<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	ND	2000	1892	95	1880	94	68-122	1	0-18	



## Quality Control - Spike/Spike Duplicate

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 08/20/13  
Work Order: 13-08-1376  
Preparation: EPA 3020A Total  
Method: EPA 6020

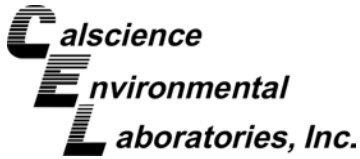
Project: DFSP Norwalk - Monthly

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Quality Control Sample ID	Matrix		Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
<b>13-07-1754-2</b>	<b>Aqueous</b>		<b>ICP/MS 03</b>	<b>08/20/13</b>	<b>08/20/13 19:16</b>	<b>130820S03</b>				
Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	0.001131	0.1000	0.1053	104	0.09303	92	73-127	12	0-11	4
Copper	0.007752	0.1000	0.09618	88	0.08889	81	72-108	8	0-10	
Lead	ND	0.1000	0.1159	116	0.1134	113	79-121	2	0-10	
Selenium	0.01042	0.1000	0.1772	167	0.1456	135	59-125	20	0-12	3,4
Zinc	0.008483	0.1000	0.07956	71	0.07836	70	43-145	2	0-39	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



## Quality Control - Spike/Spike Duplicate

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 08/20/13  
Work Order: 13-08-1376  
Preparation: EPA 5030C  
Method: EPA 8260B

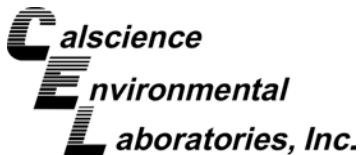
Project: DFSP Norwalk - Monthly

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Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number					
Effluent	Aqueous	GC/MS OO	08/21/13	08/22/13 00:11	130821S02					
Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	46.69	93	46.03	92	78-120	1	0-20	
Carbon Tetrachloride	ND	50.00	44.25	88	43.05	86	67-139	3	0-20	
Chlorobenzene	ND	50.00	43.53	87	43.05	86	80-120	1	0-20	
1,2-Dibromoethane	ND	50.00	46.46	93	46.39	93	80-123	0	0-20	
1,2-Dichlorobenzene	ND	50.00	45.47	91	44.42	89	76-120	2	0-20	
1,2-Dichloroethane	ND	50.00	43.05	86	40.78	82	76-130	5	0-20	
1,1-Dichloroethene	ND	50.00	36.87	74	36.08	72	70-130	2	0-27	
Ethylbenzene	ND	50.00	44.73	89	44.62	89	73-127	0	0-20	
Toluene	ND	50.00	47.93	96	46.69	93	72-126	3	0-20	
Trichloroethene	ND	50.00	46.22	92	44.94	90	74-122	3	0-20	
Vinyl Chloride	ND	50.00	36.48	73	35.32	71	65-131	3	0-24	
p/m-Xylene	ND	100.0	86.70	87	86.12	86	70-130	1	0-30	
o-Xylene	ND	50.00	43.22	86	42.71	85	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	41.20	82	40.91	82	69-123	1	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	315.7	126	327.8	131	65-131	4	0-22	
Diisopropyl Ether (DIPE)	ND	50.00	40.42	81	39.59	79	68-128	2	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	36.17	72	35.28	71	69-123	2	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	41.72	83	40.78	82	70-124	2	0-20	
Ethanol	ND	500.0	528.3	106	517.8	104	41-155	2	0-35	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - PDS/PDSD

Parsons Government Services, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 08/20/13  
 Work Order: 13-08-1376  
 Preparation: EPA 3020A Total  
 Method: EPA 6020

Project: DFSP Norwalk - Monthly

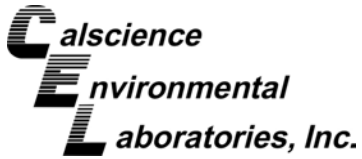
Page 1 of 1

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
<b>13-07-1754-2</b>	<b>Aqueous</b>	<b>ICP/MS 03</b>	<b>08/20/13 00:00</b>	<b>08/20/13 19:22</b>	<b>130820S03</b>

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	0.001131	0.1000	0.08858	87	75-125	
Copper	0.007752	0.1000	0.09058	83	75-125	
Lead	ND	0.1000	0.1126	113	75-125	
Selenium	0.01042	0.1000	0.1389	128	75-125	5
Zinc	0.008483	0.1000	0.08031	72	75-125	5

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



## Quality Control - Sample Duplicate

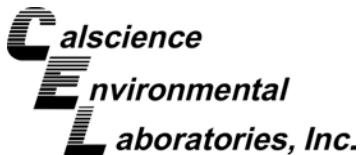
Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 08/20/13  
Work Order: 13-08-1376  
Preparation: N/A  
Method: SM 2130 B

Project: DFSP Norwalk - Monthly

Page 1 of 2

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
<b>Effluent</b>	<b>Aqueous</b>	<b>TUR 3</b>	<b>N/A</b>	<b>08/20/13 19:48</b>	<b>D0820TURD1</b>
<u>Parameter</u>	<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Turbidity	19.50	19.60	1	0-25	



**Quality Control - Sample Duplicate**

Parsons Government Services, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 08/20/13  
 Work Order: 13-08-1376  
 Preparation: N/A  
 Method: SM 4500 H+ B

Project: DFSP Norwalk - Monthly

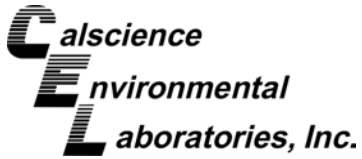
Page 2 of 2

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
<b>Effluent</b>	<b>Aqueous</b>	<b>PH 1</b>	<b>N/A</b>	<b>08/20/13 19:46</b>	<b>D0820PHD1</b>

<u>Parameter</u>	<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
pH	7.070	7.110	1	0-25	

Return to Contents 

RPD: Relative Percent Difference. CL: Control Limits



## Quality Control - LCS/LCSD

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

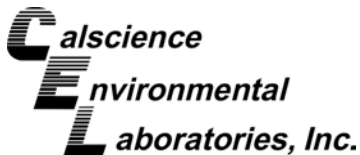
Date Received: 08/20/13  
Work Order: 13-08-1376  
Preparation: N/A  
Method: SM 5520 B

Project: DFSP Norwalk - Monthly

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Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
<b>099-05-081-2921</b>	<b>Aqueous</b>	<b>N/A</b>	<b>08/22/13</b>	<b>08/22/13 13:00</b>	<b>D0822OGL1</b>				
<u>Parameter</u>	<u>Spike Added</u>	<u>LCS Conc.</u>	<u>LCS %Rec.</u>	<u>LCSD Conc.</u>	<u>LCSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Oil and Grease	40.00	38.60	96	38.30	96	80-120	1	0-20	





Quality Control - LCS/LCSD

Parsons Government Services, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 08/20/13  
 Work Order: 13-08-1376  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

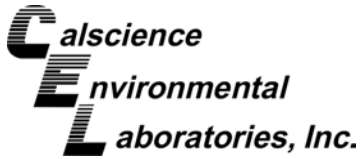
Project: DFSP Norwalk - Monthly

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Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
<b>099-15-282-124</b>	<b>Aqueous</b>	<b>GC 48</b>	<b>08/22/13</b>	<b>08/23/13 06:53</b>	<b>130822B07</b>				
<u>Parameter</u>	<u>Spike Added</u>	<u>LCS Conc.</u>	<u>LCS %Rec.</u>	<u>LCSD Conc.</u>	<u>LCSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Diesel	4000	3409	85	3497	87	75-117	3	0-13	

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RPD: Relative Percent Difference. CL: Control Limits



## Quality Control - LCS

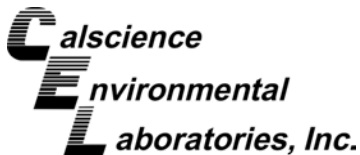
Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 08/20/13  
Work Order: 13-08-1376  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: DFSP Norwalk - Monthly

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Quality Control Sample ID	Matrix	Instrument	Date Analyzed	LCS Batch Number	
<b>099-15-704-484</b>	<b>Aqueous</b>	<b>GC 22</b>	<b>08/22/13 06:40</b>	<b>130821B04</b>	
<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Gasoline	2000	1914	96	78-120	



Quality Control - LCS

Parsons Government Services, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 08/20/13  
 Work Order: 13-08-1376  
 Preparation: EPA 3020A Total  
 Method: EPA 6020

Project: DFSP Norwalk - Monthly

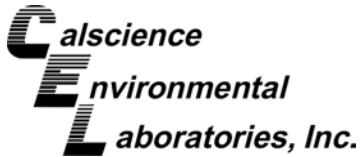
Page 4 of 5

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	LCS Batch Number
<b>096-06-003-4181</b>	<b>Aqueous</b>	<b>ICP/MS 03</b>	<b>08/20/13 19:13</b>	<b>130820L03</b>

<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Arsenic	0.1000	0.09333	93	80-120	
Copper	0.1000	0.1026	103	80-120	
Lead	0.1000	0.09641	96	80-120	
Selenium	0.1000	0.09232	92	80-120	
Zinc	0.1000	0.1029	103	80-120	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



## Quality Control - LCS

Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 08/20/13  
Work Order: 13-08-1376  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: DFSP Norwalk - Monthly

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Quality Control Sample ID	Matrix	Instrument	Date Analyzed	LCS Batch Number		
<b>099-14-001-11722</b>	<b>Aqueous</b>	<b>GC/MS OO</b>	<b>08/21/13 22:26</b>	<b>130821L02</b>		
Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	48.09	96	80-120	73-127	
Carbon Tetrachloride	50.00	46.17	92	66-138	54-150	
Chlorobenzene	50.00	45.27	91	80-120	73-127	
1,2-Dibromoethane	50.00	49.47	99	80-120	73-127	
1,2-Dichlorobenzene	50.00	48.05	96	80-120	73-127	
1,2-Dichloroethane	50.00	43.66	87	80-129	72-137	
1,1-Dichloroethene	50.00	38.85	78	71-131	61-141	
Ethylbenzene	50.00	46.78	94	80-123	73-130	
Toluene	50.00	49.69	99	79-121	72-128	
Trichloroethene	50.00	48.66	97	80-120	73-127	
Vinyl Chloride	50.00	38.79	78	70-136	59-147	
p/m-Xylene	100.0	91.09	91	75-125	67-133	
o-Xylene	50.00	45.24	90	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)	50.00	44.06	88	72-126	63-135	
Tert-Butyl Alcohol (TBA)	250.0	246.7	99	71-125	62-134	
Diisopropyl Ether (DIPE)	50.00	42.23	84	69-129	59-139	
Ethyl-t-Butyl Ether (ETBE)	50.00	38.78	78	69-129	59-139	
Tert-Amyl-Methyl Ether (TAME)	50.00	44.59	89	67-133	56-144	
Ethanol	500.0	522.7	105	47-155	29-173	

Total number of LCS compounds: 19

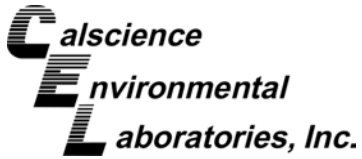
Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



## Sample Analysis Summary Report

Work Order: 13-08-1376

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<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 6020	EPA 3020A Total	598	ICP/MS 03	1
EPA 8015B (M)	EPA 3510C	847	GC 48	1
EPA 8015B (M)	EPA 5030C	834	GC 22	2
EPA 8260B	EPA 5030C	486	GC/MS OO	2
SM 2130 B	N/A	688	TUR 3	1
SM 4500 H+ B	N/A	688	PH 1	1
SM 5520 B	N/A	691	N/A	1

  
Return to Contents

Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

Location 2: 7445 Lampson Avenue, Garden Grove, CA 92841

## Glossary of Terms and Qualifiers

Work Order: 13-08-1376

Page 1 of 1

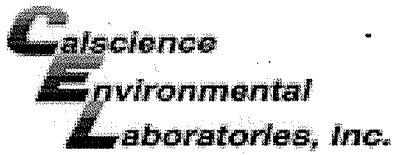
<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq$  15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

LABORATORY CLIENT: <b>Parsons, Inc.</b>						CLIENT PROJECT NAME / NUMBER: <b>DFSP Norwalk - Monthly</b>						P.O. NO.:							
100 W. Walnut Street						PROJECT CONTACT: <i>MARY WEA</i>						QUOTE NO.:							
CITY: <b>Paasadena, CA 91124</b>						SAMPLER(S): (SIGNATURE) <i>Milton J. ...</i>						LAB USE ONLY <b>13-08-1376</b>							
TEL:		FAX:		E-MAIL:															
TURNAROUND TIME <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS							<b>REQUESTED ANALYSIS</b>												
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL ___ / ___ / ___																			
SPECIAL INSTRUCTIONS																			
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		MAT-RIX	NO. OF CONT.	Turbidity (SM 2130B)	Oil & Grease (SM 5520B)	pH (SM 4500 H+B)	TPH-Diesel/Gas (EPA 8015B(M))	VOCs + Oxys (EPA 8260B)	Metals (EPA 6020: As,Cu,Se,Pb,Zn)	Comments						
			DATE	TIME															
/	EPAWENT	GWT'S	8-20-13	1100	W	10	X	X	X	X	X	X							
Relinquished by: (Signature) <i>Milton J. ...</i>						Received by: (Signature) <i>Alv. ...</i>						Date: <u>8/20/13</u>		Time: <u>1215</u>					
Relinquished by: (Signature) <i>Alv. ...</i>						Received by: (Signature) <i>...</i>						Date: <u>8/20/13</u>		Time: <u>1250</u>					
Relinquished by: (Signature)						Received by: (Signature)						Date:		Time:					



WORK ORDER #: 13-08-1376

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSON'S

DATE: 08/20/13

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0°C - 6.0°C, not frozen except sediment/tissue)
Temperature 2.6 °C - 0.2°C (CF) = 2.4 °C [X] Blank [ ] Sample
[ ] Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_).
[ ] Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.
[ ] Received at ambient temperature, placed on ice for transport by Courier.
Ambient Temperature: [ ] Air [ ] Filter Initial: [Signature]

CUSTODY SEALS INTACT:
[ ] Cooler [ ] \_\_\_\_\_ [ ] No (Not Intact) [X] Not Present [ ] N/A Initial: [Signature]
[ ] Sample [ ] \_\_\_\_\_ [ ] No (Not Intact) [X] Not Present Initial: [Signature]

SAMPLE CONDITION:
Chain-Of-Custody (COC) document(s) received with samples..... [X] Yes [ ] No [ ] N/A
COC document(s) received complete..... [X] Yes [ ] No [ ] N/A
[ ] Collection date/time, matrix, and/or # of containers logged in based on sample labels.
[ ] No analysis requested. [ ] Not relinquished. [ ] No date/time relinquished.
Sampler's name indicated on COC..... [X] Yes [ ] No [ ] N/A
Sample container label(s) consistent with COC..... [X] Yes [ ] No [ ] N/A
Sample container(s) intact and good condition..... [X] Yes [ ] No [ ] N/A
Proper containers and sufficient volume for analyses requested..... [X] Yes [ ] No [ ] N/A
Analyses received within holding time..... [X] Yes [ ] No [ ] N/A
Aqueous samples received within 15-minute holding time
[X] pH [ ] Residual Chlorine [ ] Dissolved Sulfides [ ] Dissolved Oxygen..... [X] Yes [ ] No [ ] N/A
Proper preservation noted on COC or sample container..... [X] Yes [ ] No [ ] N/A
[ ] Unpreserved vials received for Volatiles analysis
Volatile analysis container(s) free of headspace..... [ ] Yes [ ] No [X] N/A
Tedlar bag(s) free of condensation..... [ ] Yes [ ] No [X] N/A

CONTAINER TYPE:
Solid: [ ] 4ozCGJ [ ] 8ozCGJ [ ] 16ozCGJ [ ] Sleeve (\_\_\_\_) [ ] EnCores® [ ] TerraCores® [ ] \_\_\_\_\_
Aqueous: [ ] VOA [X] VOAh [ ] VOAna2 [ ] 125AGB [ ] 125AGBh [ ] 125AGBp [ ] 1AGB [ ] 1AGBna2 [X] 1AGBs
[ ] 500AGB [X] 500AGJ [ ] 500AGJs [ ] 250AGB [ ] 250CGB [ ] 250CGBs [X] 1PB [ ] 1PBna [X] 500PB
[ ] 250PB [X] 250PBna [ ] 125PB [ ] 125PBzna [ ] 100PJ [ ] 100PJna2 [ ] \_\_\_\_\_ [ ] \_\_\_\_\_
Air: [ ] Tedlar® [ ] Canister Other: [ ] \_\_\_\_\_ Trip Blank Lot#: \_\_\_\_\_ Labeled/Checked by: [Signature]
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: [Signature]
Preservative: h: HCL n: HNO3 na2:Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 u: Ultra-pure zna: ZnAc2+NaOH f: Filtered Scanned by: [Signature]

Return to Contents



# **ATTACHMENT C**

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***Groundwater Extraction Treatment System***

***Monitoring Logs***

DATE: W 7-2-13 TIME: 1420 WEATHER: Sunny 83°

OPERATOR NAME: G. Androsko REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b>					If > 25 psig; change filter
BF1 (East)	P2 40	P3 37	P2-P3 0		
BF2 (Center)	P4 39	P5 36	P4-P5 0		
BF3 (West)	P6 42	P7 40	P6-P7 0		
<b>MYCELX</b>					If > 15 psig; change filter
MX-7 (small)	P8 38	P9 36	P8-P9 0		
MX-21 (large)	P9 36	P10 32	P9-P10 0		
<b>GAC FILTERS</b>					If > 10 psig; notify.
GAC - 1	P10 32	P11 30	P10-P11 0		
GAC - 2	P11 30	P12 26	P11-P12 0		
GAC - 3	P12 26	P13 25	P12-P13 0		
Ion Exchange (Bed 1)	P13 25	P14 13	P13-P14 0		
Ion Exchange (Bed 2)	P14 13	P15 5	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
6 Wells: GW-2	5.5	1277577.2	1273410.0	-
6 Wells: GW-13	5.5	871737.4	867886.2	-
4 Wells: GW-2/13	9.7	12923146.3	12916118.3	-
3 Wells: GW-15	4.7	717613.5	714237.8	-
6 Wells: GW-16	4.2	4914617.0	4913607.2	-
5 Wells: GW-15/16	9.4	1846137.2	1839521.5	-
15 NPDES Discharge	31	65975622	65963478	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [If collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees. C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

**NOTES / DAILY TASK SUMMARY**

Checked all level switches, relays and float switches in surge tank. No problems found.  
Restarted system @ 1145

DATE: F 7-5-13 TIME: 0930 WEATHER: Sunny 74°

OPERATOR NAME: G. Androsko REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b> If > 25 psig, change filter					
BF1 (East)	P2 39	P3 35	P2-P3 0		
BF2 (Center)	P4 37	P5 34	P4-P5 0		
BF3 (West)	P6 41	P7 40	P6-P7 0		
<b>MYCELX</b> If > 15 psig, change filter					
MX-7 (small)	P8 38	P9 34	P8-P9 0		
MX-21 (large)	P9 34	P10 30	P9-P10 0		
<b>GAC FILTERS</b> If > 10 psig, notify.					
GAC - 1	P10 30	P11 29	P10-P11 0		
GAC - 2	P11 29	P12 25	P11-P12 0		
GAC - 3	P12 25	P13 25	P12-P13 0		
Ion Exchange (Bed 1)	P13 25	P14 12	P13-P14 0		
Ion Exchange (Bed 2)	P14 12	P15 5	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
5 Wells: GW-2	5.5	1292000.0	1277572.2	-
9 Wells: GW-13	5.4	885760.0	871737.4	-
7 Wells: GW-2/13	9.9	12948420.3	12923146.3	-
2 Wells: GW-15	4.5	729273.0	717613.5	-
8 Wells: GW-16	4.3	4927449.1	4916617.0	-
4 Wells: GW-15/16	9.0	1869956.2	1846137.2	-
40 NPDES Discharge	30	66019565	65975622	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ (If collecting NPDES samples today, record effluent temperature (deg. C) and pH)

TEMP \_\_\_\_\_ (degrees. C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

NOTES / DAILY TASK SUMMARY

Collected Effluent, After Bed 1 and Surge Tank samples for Arsenic

Field test kit results: Effluent = ~~0.02~~ < 2ppb After Bed 1 = 7ppb Surge Tank = 25ppb

@24.1°C

DATE: M 7-8-13 TIME: 1230 WEATHER: Sunny 80°

OPERATOR NAME: G. Androsko REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b>					If > 25 psig; change filter
BF1 (East)	P2 40	P3 34	P2-P3 0		
BF2 (Center)	P4 38	P5 32	P4-P5 0		
BF3 (West)	P6 41	P7 36	P6-P7 0		
<b>MYCELX</b>					If > 15 psig; change filter
MX-7 (small)	P8 34	P9 32	P8-P9 0		
MX-21 (large)	P9 32	P10 27	P9-P10 0		
<b>GAC FILTERS</b>					If > 10 psig; notify.
GAC - 1	P10 27	P11 25	P10-P11 0		
GAC - 2	P11 25	P12 22	P11-P12 0		
GAC - 3	P12 22	P13 21	P12-P13 0		
Ion Exchange (Bed 1)	P13 21	P14 9	P13-P14 0		
Ion Exchange (Bed 2)	P14 9	P15 4	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
8 Wells: GW-2	6.0	1317309.2	1292000.0	-
0 Wells: GW-13	5.2	908891.3	885760.0	-
2 Wells: GW-2/13	9.9	12991884.7	12948420.3	-
1 Wells: GW-15	4.2	748062.1	729273.0	-
6 Wells: GW-16	4.2	4946327.0	4927449.1	-
0 Wells: GW-15/16	8.7	1909112.5	1869956.2	-
25 NPDES Discharge	28	66092035	66019565	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [if collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees, C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

NOTES / DAILY TASK SUMMARY

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DATE: 7-9-13 TIME: 1304 WEATHER: Sunny

OPERATOR NAME: M. Gradillas REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b>					If > 25 psig; change filter
BF1 (East)	P2 40	P3 35	P2-P3 0		
BF2 (Center)	P4 38	P5 33	P4-P5 0		
BF3 (West)	P6 41	P7 31	P6-P7 0		
<b>MYCELX</b>					If > 15 psig; change filter
MX-7 (small)	P8 36	P9 33	P8-P9 0		
MX-21 (large)	P9 33	P10 28	P9-P10 0		
<b>GAC FILTERS</b>					If > 10 psig; notify.
GAC - 1	P10 28	P11 25	P10-P11 0		
GAC - 2	P11 25	P12 22	P11-P12 0		
GAC - 3	P12 22	P13 22.5	P12-P13 0		
Ion Exchange (Bed 1)	P13 22.5	P14 10	P13-P14 0		
Ion Exchange (Bed 2)	P14 10	P15 4.5	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells: GW-2	5.8	1326160.0	1317309.2	-
Wells: GW-13	5.4	916348.3	908891.3	-
Wells: GW-2/13	10.0	1300615.0	12991884.7	-
Wells: GW-15	6.0	753990.2	748062.1	-
Wells: GW-16	4.3	4952571.0	4946327.0	-
Wells: GW-15/16	8.0	1921876.0	1909112.5	-
NPDES Discharge	29.0	66115335	66092035	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [if collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees, C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

NOTES / DAILY TASK SUMMARY

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DATE: W 7-10-13 TIME: 1210 WEATHER: Cloudy 80°

OPERATOR NAME: G. Androsko REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b>				If > 25 psig, change filter	
BF1 (East)	P2 41	P3 36	P2-P3 0		
BF2 (Center)	P4 40	P5 33	P4-P5 0		
BF3 (West)	P6 43	P7 38	P6-P7 0		
<b>MYCELX</b>				If > 15 psig, change filter	
MX-7 (small)	P8 36	P9 32	P8-P9 0		
MX-21 (large)	P9 32	P10 28	P9-P10 0		
<b>GAC FILTERS</b>				If > 10 psig, notify.	
GAC - 1	P10 28	P11 26	P10-P11 0		
GAC - 2	P11 26	P12 23	P11-P12 0		
GAC - 3	P12 23	P13 22	P12-P13 0		
Ion Exchange (Bed 1)	P13 22	P14 11	P13-P14 0		
Ion Exchange (Bed 2)	P14 11	P15 4	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
7 Wells: GW-2	5.7	1333928.2	132660.0	-
6 Wells: GW-13	4.9	923156.0	916348.3	-
5 Wells: GW-2/13	9.7	13019478.1	13006115.0	-
0 Wells: GW-15	4.4	759871.0	753990.2	-
9 Wells: GW-16	4.0	4958259.8	4952571.0	-
2 Wells: GW-15/16	9.0	1934184.2	1921876.0	-
30 NPDES Discharge	28	66136738	66115335	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [if collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees. C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

NOTES / DAILY TASK SUMMARY

Replaced soak case socks in surge tank

DATE: F 7-12-13 TIME: 0900 WEATHER: Cloudy 77°

OPERATOR NAME: G. Androsko REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b>					If > 25 psig; change filter
BF1 (East)	P2 40	P3 37	P2-P3 0		
BF2 (Center)	P4 38	P5 36	P4-P5 0		
BF3 (West)	P6 42	P7 37	P6-P7 0		
<b>MYCELX</b>					If > 15 psig; change filter
MX-7 (small)	P8 35	P9 30	P8-P9 0		
MX-21 (large)	P9 30	P10 27	P9-P10 0		
<b>GAC FILTERS</b>					If > 10 psig; notify
GAC - 1	P10 27	P11 25	P10-P11 0		
GAC - 2	P11 25	P12 22	P11-P12 0		
GAC - 3	P12 22	P13 22	P12-P13 0		
Ion Exchange (Bed 1)	P13 22	P14 11	P13-P14 0		
Ion Exchange (Bed 2)	P14 11	P15 4	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
9 Wells: GW-2	6.0	1350080.0	1333928.2	-
7 Wells: GW-13	4.9	936528.2	923156.0	-
3 Wells: GW-2/13	9.9	13045456.7	13019478.1	-
8 Wells: GW-15	4.4	771379.1	759871.0	-
4 Wells: GW-16	4.2	4969325.0	4958259.8	-
4 Wells: GW-15/16	9.1	1958366.5	1934184.2	-
25 NPDES Discharge	26	66182300	66136738	-

NPDES Sample Collection (circle one) MONTHLY QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [If collecting NPDES samples today, record effluent temperature (deg. C) and pH]  
TEMP 22.9 (degrees. C) pH 7.24 Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

**NOTES / DAILY TASK SUMMARY**  
Collected Effluent sample for monthly NPDES requirements. Collected samples for Arsenic after Bed -1 and after GAC-3  
Field test results: Effluent = ND (<2ppb) Arsenic. After Bed -1 = 9ppb After GAC-3 = 9ppb

DATE: 07-15-13 TIME: 1230 WEATHER: SUNNY

OPERATOR NAME: M. Gradillas REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b>					If > 25 psig; change filter
BF1 (East)	P2 <u>41</u>	P3 <u>31</u>	P2-P3 <u>0</u>		
BF2 (Center)	P4 <u>40</u>	P5 <u>29</u>	P4-P5 <u>0</u>		
BF3 (West)	P6 <u>42</u>	P7 <u>34</u>	P6-P7 <u>0</u>		
<b>MYCELX</b>					If > 15 psig; change filter
MX-7 (small)	P8 <u>32</u>	P9 <u>28</u>	P8-P9 <u>0</u>		
MX-21 (large)	P9 <u>28</u>	P10 <u>22</u>	P9-P10 <u>0</u>		
<b>GAC FILTERS</b>					If > 10 psig; notify.
GAC - 1	P10 <u>22</u>	P11 <u>21</u>	P10-P11 <u>0</u>		
GAC - 2	P11 <u>21</u>	P12 <u>17.5</u>	P11-P12 <u>0</u>		
GAC - 3	P12 <u>17.5</u>	P13 <u>17.5</u>	P12-P13 <u>0</u>		
Ion Exchange (Bed 1)	P13 <u>17.5</u>	P14 <u>7</u>	P13-P14 <u>0</u>		
Ion Exchange (Bed 2)	P14 <u>7</u>	P15 <u>3.5</u>	P14-P15 <u>0</u>		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells: GW-2	<u>6.3</u>	<u>1378163.5</u>	<u>1350080.0</u>	-
Wells: GW-13	<u>4.3</u>	<u>957465.0</u>	<u>936528.2</u>	-
Wells: GW-2/13	<u>10</u>	<u>13089125.4</u>	<u>13045456.7</u>	-
Wells: GW-15	<u>4.3</u>	<u>790651.0</u>	<u>771379.1</u>	-
Wells: GW-16	<u>4.2</u>	<u>4988117.0</u>	<u>4969325.0</u>	-
Wells: GW-15/16	<u>9.1</u>	<u>1999027.5</u>	<u>1958366.5</u>	-
NPDES Discharge	<u>24</u>	<u>66255061</u>	<u>66182030</u>	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [If collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees. C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

NOTES / DAILY TASK SUMMARY

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DATE: 7-16-13 TIME: 1522 WEATHER: Sunny  
 OPERATOR NAME: M. GRADILLAS REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b>					If > 25 psig; change filter
BF1 (East)	P2 42	P3 30	P2-P3 0		
BF2 (Center)	P4 40	P5 29	P4-P5 0		
BF3 (West)	P6 43	P7 33	P6-P7 0		
<b>MYCELX</b>					If > 15 psig; change filter
MX-7 (small)	P8 32	P9 27	P8-P9 0		
MX-21 (large)	P9 27	P10 22	P9-P10 0		
<b>GAC FILTERS</b>					If > 10 psig; notify.
GAC - 1	P10 22	P11 20	P10-P11 0		
GAC - 2	P11 20	P12 17.5	P11-P12 0		
GAC - 3	P12 17.5	P13 17	P12-P13 0		
Ion Exchange (Bed 1)	P13 17	P14 7	P13-P14 0		
Ion Exchange (Bed 2)	P14 7	P15 4	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells: GW-2	6.3	1388488.0	1378163.5	-
Wells: GW-13	4.2	964406.0	957465.0	-
Wells: GW-2/13	10	1310480.1	13089125.4	-
Wells: GW-15	4.1	797410.0	790651.0	-
Wells: GW-16	4.2	4994747.0	4988117.0	-
Wells: GW-15/16	9.1	2013649.0	1999027.5	-
NPDES Discharge	24	6628063.6	6625506.1	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [if collecting NPDES samples today, record effluent temperature (deg. C) and pH]  
 TEMP \_\_\_\_\_ (degrees. C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

NOTES / DAILY TASK SUMMARY

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DATE: W 7-17-13 TIME: 1015 WEATHER: Sunny 78°

OPERATOR NAME: G. Androsko REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b>					If > 25 psig; change filter
BF1 (East)	P2 42	P3 29	P2-P3 0		
BF2 (Center)	P4 40	P5 28	P4-P5 0		
BF3 (West)	P6 44	P7 33	P6-P7 0		
<b>MYCELX</b>					If > 15 psig; change filter
MX-7 (small)	P8 32	P9 26	P8-P9 0		
MX-21 (large)	P9 26	P10 21	P9-P10 0		
<b>GAC FILTERS</b>					If > 10 psig; notify.
GAC - 1	P10 21	P11 20	P10-P11 0		
GAC - 2	P11 20	P12 16	P11-P12 0		
GAC - 3	P12 16	P13 16	P12-P13 0		
Ion Exchange (Bed 1)	P13 16	P14 7	P13-P14 0		
Ion Exchange (Bed 2)	P14 7	P15 5	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
36 Wells: GW-2	6.5	1395868.5	1388488.0	-
8 Wells: GW-13	4.2	969229.0	964406.0	-
3 Wells: GW-2/13	9.8	13115726.0	13104800.1	-
3 Wells: GW-15	4.3	802224.0	797410.0	-
9 Wells: GW-16	4.2	4999450.0	4994747.0	-
9 Wells: GW-15/16	9.1	2023751.5	2013649.0	-
20 NPDES Discharge	21	66299625	66280636	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [if collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees, C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

**NOTES / DAILY TASK SUMMARY**

Arsenic field test Kit results: EPAluent = 3ppb After B-1 = 8ppb

DATE: F 7-19-13 TIME: 0920 WEATHER: Sunny 75°

OPERATOR NAME: G. Androsko REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b>					If > 25 psig; change filter
BF1 (East)	P2 43	P3 27	P2-P3 0		
BF2 (Center)	P4 42	P5 25	P4-P5 0		
BF3 (West)	P6 46	P7 30	P6-P7 0		
<b>MYCELX</b>					If > 15 psig; change filter
MX-7 (small)	P8 28	P9 23	P8-P9 0		
MX-21 (large)	P9 23	P10 18	P9-P10 0		
<b>GAC FILTERS</b>					If > 10 psig; notify.
GAC - 1	P10 18	P11 18	P10-P11 0		
GAC - 2	P11 18	P12 14	P11-P12 0		
GAC - 3	P12 14	P13 14	P12-P13 0		
Ion Exchange (Bed 1)	P13 14	P14 7	P13-P14 0		
Ion Exchange (Bed 2)	P14 7	P15 3	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
5 Wells: GW-2	6.5	1413936.4	1395868.5	-
0 Wells: GW-13	4.1	980661.0	969229.0	-
1 Wells: GW-2/13	9.1	1314296.4	13115726.0	-
0 Wells: GW-15	4.2	813730.0	802224.0	-
4 Wells: GW-16	4.2	5010815.3	4999450.0	-
0 Wells: GW-15/16	9.1	2048991.7	2023751.5	-
85 NPDES Discharge	19	66344490	66299625	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [If collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees, C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

**NOTES / DAILY TASK SUMMARY**

System off from 0945 to 1015 to change bag filters + repair leak @ GW-16

Collected effluent sample for Arsenic

Arsenic field test kit results = 3 ppb @ 24.7C

DATE: M 7-22-13 TIME: 0805

WEATHER: Sunny 72°

OPERATOR NAME: G. Androsko

REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b> <span style="float: right;">If &gt; 25 psig; change filter</span>					
BF1 (East)	P2 42	P3 40	P2-P3 0		
BF2 (Center)	P4 40	P5 38	P4-P5 0		
BF3 (West)	P6 45	P7 44	P6-P7 0		
<b>MYCELX</b> <span style="float: right;">If &gt; 15 psig; change filter</span>					
MX-7 (small)	P8 42	P9 35	P8-P9 0		
MX-21 (large)	P9 35	P10 28	P9-P10 0		
<b>GAC FILTERS</b> <span style="float: right;">If &gt; 10 psig; notify.</span>					
GAC - 1	P10 28	P11 26	P10-P11 0		
GAC - 2	P11 26	P12 22	P11-P12 0		
GAC - 3	P12 22	P13 22	P12-P13 0		
Ion Exchange (Bed 1)	P13 22	P14 10	P13-P14 0		
Ion Exchange (Bed 2)	P14 10	P15 4	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
5 Wells: GW-2	6.3	1440417.0	1413936.4	-
2 Wells: GW-13	4.5	1000103.2	980661.0	-
8 Wells: GW-2/13	9.7	13183481.2	13142964.4	-
2 Wells: GW-15	4.2	831393.0	813730.0	+
5 Wells: GW-16	4.6	5030386.0	5010815.3	-
2 Wells: GW-15/16	9.3	2088024.2	2048991.7	-
25 NPDES Discharge	26	66414532	66344490	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [If collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees, C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

NOTES / DAILY TASK SUMMARY

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DATE: 07-23-13 TIME: 1218 WEATHER: Sunny 80° Sunny  
 OPERATOR NAME: M. Graille S REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b> If > 25 psig; change filter					
BF1 (East)	P2 <u>41</u>	P3 <u>39</u>	P2-P3 <u>0</u>		
BF2 (Center)	P4 <u>40</u>	P5 <u>38</u>	P4-P5 <u>0</u>		
BF3 (West)	P6 <u>43</u>	P7 <u>43</u>	P6-P7 <u>0</u>		
<b>MYCELX</b> If > 15 psig; change filter					
MX-7 (small)	P8 <u>40</u>	P9 <u>34</u>	P8-P9 <u>0</u>		
MX-21 (large)	P9 <u>34</u>	P10 <u>23</u>	P9-P10 <u>0</u>		
<b>GAC FILTERS</b> If > 10 psig; notify.					
GAC - 1	P10 <u>23</u>	P11 <u>21</u>	P10-P11 <u>0</u>		
GAC - 2	P11 <u>21</u>	P12 <u>17</u>	P11-P12 <u>0</u>		
GAC - 3	P12 <u>17</u>	P13 <u>17</u>	P12-P13 <u>0</u>		
Ion Exchange (Bed 1)	P13 <u>17</u>	P14 <u>10</u>	P13-P14 <u>0</u>		
Ion Exchange (Bed 2)	P14 <u>10</u>	P15 <u>4</u>	P14-P15 <u>0</u>		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells: GW-2	<u>6.4</u>	<u>14505625</u>	<u>1440417.0</u>	-
Wells: GW-13	<u>4.7</u>	<u>10073140</u>	<u>1000103.2</u>	-
Wells: GW-2/13	<u>9.8</u>	<u>131983323</u>	<u>13183481.2</u>	-
Wells: GW-15	<u>4.6</u>	<u>837945.0</u>	<u>831393.0</u>	-
Wells: GW-16	<u>4.7</u>	<u>5037541.0</u>	<u>5030386.0</u>	-
Wells: GW-15/16	<u>9.4</u>	<u>2102316.5</u>	<u>2088024.2</u>	-
NPDES Discharge	<u>27</u>	<u>66440260</u>	<u>66414532</u>	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [if collecting NPDES samples today, record effluent temperature (deg. C) and pH]  
 TEMP \_\_\_\_\_ (degrees, C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

NOTES / DAILY TASK SUMMARY

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DATE: F 7-26-13 TIME: 1415 WEATHER: Sunny 87°

OPERATOR NAME: G. Androsko REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b>					If > 25 psig; change filter
BF1 (East)	P2 41	P3 39	P2-P3 0		
BF2 (Center)	P4 40	P5 38	P4-P5 0		
BF3 (West)	P6 43	P7 42	P6-P7 0		
<b>MYCELX</b>					If > 15 psig; change filter
MX-7 (small)	P8 40	P9 32	P8-P9 0		
MX-21 (large)	P9 32	P10 19	P9-P10 0		
<b>GAC FILTERS</b>					If > 10 psig; notify.
GAC - 1	P10 19	P11 16	P10-P11 0		
GAC - 2	P11 16	P12 13	P11-P12 0		
GAC - 3	P12 13	P13 13	P12-P13 0		
Ion Exchange (Bed 1)	P13 13	P14 7	P13-P14 0		
Ion Exchange (Bed 2)	P14 7	P15 4	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
7 Wells: GW-2	6.8	1479178.2	1450562.5	-
1 Wells: GW-13	4.3	1026582.5	1007318.0	-
2 Wells: GW-2/13	9.8	13241274.7	13198332.3	-
9 Wells: GW-15	4.2	856100.0	837945.0	-
6 Wells: GW-16	4.5	5052387.1	5037541.0	-
2 Wells: GW-15/16	9.0	2142484.2	2102316.5	-
80 NPDES Discharge	24	66515086	66440260	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [if collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees, C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

NOTES / DAILY TASK SUMMARY

Arsenic field test kit - Effluent = <2ppb.

DATE: M 7-29-13 TIME: 1235

WEATHER: Sunny 84°

OPERATOR NAME: G. Androsko

REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
If > 25 psig; change filter					
BF1 (East)	P2 43	P3 40	P2-P3 0		
BF2 (Center)	P4 42	P5 39	P4-P5 0		
BF3 (West)	P6 45	P7 44	P6-P7 0		
MYCELX If > 15 psig; change filter					
MX-7 (small)	P8 42	P9 30	P8-P9 0		
MX-21 (large)	P9 30	P10 16	P9-P10 0	14	
GAC FILTERS If > 10 psig; notify.					
GAC - 1	P10 16	P11 14	P10-P11 0		
GAC - 2	P11 14	P12 11	P11-P12 0		
GAC - 3	P12 11	P13 11	P12-P13 0		
Ion Exchange (Bed 1)	P13 11	P14 5	P13-P14 0		
Ion Exchange (Bed 2)	P14 5	P15 4	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
2 Wells: GW-2	6.8	1507583.5	1479178.2	-
0 Wells: GW-13	4.3	1043961.2	1026582.5	-
8 Wells: GW-2/13	9.4	13282350.8	13241274.7	-
3 Wells: GW-15	4.1	873274.3	856100.0	-
6 Wells: GW-16	4.2	5076097.3	5057387.1	-
3 Wells: GW-15/16	8.8	2179875.0	2142484.2	-
65 NPDES Discharge	20	66583970	66515086	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [if collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees, C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

NOTES / DAILY TASK SUMMARY

Changed mx-7 and mx-21 filters

DATE: W 7:31-13 TIME: 0830

WEATHER: Cloudy 65

OPERATOR NAME: G. Androsko

REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b> If > 25 psig, change filter					
BF1 (East)	P2 39	P3 34	P2-P3 0		
BF2 (Center)	P4 38	P5 35	P4-P5 0		
BF3 (West)	P6 42	P7 41	P6-P7 0		
<b>MYCELX</b> If > 15 psig, change filter					
MX-7 (small)	P8 38	P9 35	P8-P9 0		
MX-21 (large)	P9 35	P10 32	P9-P10 0		
<b>GAC FILTERS</b> If > 10 psig, notify.					
GAC - 1	P10 32	P11 32	P10-P11 0		
GAC - 2	P11 32	P12 28	P11-P12 0		
GAC - 3	P12 28	P13 28	P12-P13 0		
Ion Exchange (Bed 1)	P13 28	P14 16	P13-P14 0		
Ion Exchange (Bed 2)	P14 16	P15 6	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
9 Wells: GW-2	6.8	1524620.0	1507583.5	-
9 Wells: GW-13	4.1	1054750.0	1043961.2	-
5 Wells: GW-2/13	9.7	13307468.5	13282350.8	-
8 Wells: GW-15	4.1	883739.2	873274.3	-
2 Wells: GW-16	4.6	5087473.1	5076097.3	-
6 Wells: GW-15/16	8.8	2202398.0	2179875.0	-
80 NPDES Discharge	39	66626490	66583970	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [if collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees. C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

NOTES / DAILY TASK SUMMARY

Changed socks in surge tank.



DATE: F8-2-13 TIME: 1040 WEATHER: Sunny 80°

OPERATOR NAME: G. Androsko REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b>				If > 25 psig; change filter	
BF1 (East)	P2 39	P3 36	P2-P3 0		
BF2 (Center)	P4 37	P5 34	P4-P5 0		
BF3 (West)	P6 41	P7 39	P6-P7 0		
<b>MYCELX</b>				If > 15 psig; change filter	
MX-7 (small)	P8 37	P9 34	P8-P9 0		
MX-21 (large)	P9 34	P10 30	P9-P10 0		
<b>GAC FILTERS</b>				If > 10 psig; notify.	
GAC - 1	P10 30	P11 30	P10-P11 0		
GAC - 2	P11 30	P12 <del>30</del> 26	P11-P12 0		
GAC - 3	P12 26	P13 24	P12-P13 0		
Ion Exchange (Bed 1)	P13 24	P14 14	P13-P14 0		
Ion Exchange (Bed 2)	P14 14	P15 5	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
0 Wells: GW-2	6.8	1545141.0		-
3 Wells: GW-13	4.0	1067294.0		-
3 Wells: GW-2/13	9.7	13336886.1		-
7 Wells: GW-15	4.1	895908.1		-
1 Wells: GW-16	4.6	5100822.0		-
1 Wells: GW-15/16	8.8	2228702.5		-
10 NPDES Discharge	40	66676021		-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [if collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees, C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

NOTES / DAILY TASK SUMMARY

Arsenic field test Kit Effluent = < 2 ppb.

DATE: M 8-5-13 TIME: 0810 WEATHER: 64° Cloudy

OPERATOR NAME: G. Androsko REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b>				If > 25 psig, change filter	
BF1 (East)	P2 38	P3 33	P2-P3 0		
BF2 (Center)	P4 36	P5 31	P4-P5 0		
BF3 (West)	P6 40	P7 38	P6-P7 0		
<b>MYCELX</b>				If > 15 psig, change filter	
MX-7 (small)	P8 35	P9 31	P8-P9 0		
MX-21 (large)	P9 31	P10 33	P9-P10 0		
<b>GAC FILTERS</b>				If > 10 psig, notify.	
GAC - 1	P10 33	P11 30	P10-P11 0		
GAC - 2	P11 30	P12 30	P11-P12 0		
GAC - 3	P12 30	P13 25	P12-P13 0		
Ion Exchange (Bed 1)	P13 25	P14 14	P13-P14 0		
Ion Exchange (Bed 2)	P14 14	P15 4	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
9 Wells: GW-2	6.8	1572760.5	1545141.0	-
8 Wells: GW-13	4.2	1084680.0	1067294.0	-
5 Wells: GW-2/13	9.9	13377038.0	13336886.1	-
3 Wells: GW-15	4.0	912564.2	898908.1	-
0 Wells: GW-16	4.6	5119181.0	5100822.0	-
3 Wells: GW-15/16	8.4	2264465.5	2228702.5	-
91 NPDES Discharge	38	66745603	66676021	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [If collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees, C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

**NOTES / DAILY TASK SUMMARY**

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DATE: 08-06-13 TIME: 1000 WEATHER: SUNNY 79°

OPERATOR NAME: M. Gradillas REV'D BY: \_\_\_\_\_

PRESSURE READINGS							
EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)		Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b>						If > 25 psig; change filter	
BF1 (East)	P2	<u>40</u>	P3	<u>34</u>	P2-P3	<u>0</u>	
BF2 (Center)	P4	<u>38</u>	P5	<u>32</u>	P4-P5	<u>0</u>	
BF3 (West)	P6	<u>42</u>	P7	<u>38</u>	P6-P7	<u>0</u>	
<b>MYCELX</b>						If > 15 psig; change filter	
MX-7 (small)	P8	<u>35</u>	P9	<u>32</u>	P8-P9	<u>0</u>	
MX-21 (large)	P9	<u>32</u>	P10	<u>33</u>	P9-P10	<u>0</u>	
<b>GAC FILTERS</b>						If > 10 psig; notify.	
GAC - 1	P10	<u>33</u>	P11	<u>30</u>	P10-P11	<u>0</u>	
GAC - 2	P11	<u>30</u>	P12	<u>24</u>	P11-P12	<u>0</u>	
GAC - 3	P12	<u>24</u>	P13	<u>23</u>	P12-P13	<u>0</u>	
Ion Exchange (Bed 1)	P13	<u>23</u>	P14	<u>14</u>	P13-P14	<u>0</u>	
Ion Exchange (Bed 2)	P14	<u>14</u>	P15	<u>6</u>	P14-P15	<u>0</u>	

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells: GW-2	<u>6.9</u>	<u>15836250</u>	<u>1572760.5</u>	-
Wells: GW-13	<u>4.4</u>	<u>1091231.5</u>	<u>1084680.0</u>	-
Wells: GW-2/13	<u>9.7</u>	<u>13392730.8</u>	<u>13377038.0</u>	-
Wells: GW-15	<u>4.3</u>	<u>918888.0</u>	<u>912564.2</u>	-
Wells: GW-16	<u>4.4</u>	<u>5126172.5</u>	<u>5119181.0</u>	-
Wells: GW-15/16	<u>9.0</u>	<u>22781340</u>	<u>2264465.5</u>	-
NPDES Discharge	<u>35</u>	<u>66770055</u>	<u>66745603</u>	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [If collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees. C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

NOTES / DAILY TASK SUMMARY

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DATE: F 8-9-13 TIME: 1305 WEATHER: Sunny 80°

OPERATOR NAME: G. Androsko REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
				If > 25 psig; change filter	
BF1 (East)	P2 40	P3 32	P2-P3 0		
BF2 (Center)	P4 39	P5 30	P4-P5 0		
BF3 (West)	P6 42	P7 35	P6-P7 0		
				If > 15 psig; change filter	
MYCELX					
MX-7 (small)	P8 33	P9 29	P8-P9 0		
MX-21 (large)	P9 29	P10 29	P9-P10 0		
				If > 10 psig; notify.	
<b>GAC FILTERS</b>					
GAC - 1	P10 29	P11 26	P10-P11 0		
GAC - 2	P11 26	P12 26	P11-P12 0		
GAC - 3	P12 26	P13 21	P12-P13 0		
Ion Exchange (Bed 1)	P13 21	P14 12	P13-P14 0		
Ion Exchange (Bed 2)	P14 12	P15 5	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
7 Wells: GW-2	6.8	1613369.0	1583625.0	-
8 Wells: GW-13	4.0	1109320.0	1091231.5	-
0 Wells: GW-2/13	9.7	13435173.0	13392930.8	-
8 Wells: GW-15	4.0	936669.5	918888.0	-
7 Wells: GW-16	4.3	5145528.2	5126172.5	-
54 Wells: GW-15/16	8.7	2315827.2	2278134.0	-
10 NPDES Discharge	34	66842320	66770055	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [If collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees, C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

NOTES / DAILY TASK SUMMARY

Arsenic field test kit results: Effluent = ND (<2ppb) After Bed-1 = 5ppb

DATE: 08-12-13 TIME: 0957 WEATHER: Sunny  
 OPERATOR NAME: M. Gradilla S REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
				If > 25 psig; change filter	
<b>BAG FILTERS (BF)</b>					
BF1 (East)	P2 40	P3 28	P2-P3 0		
BF2 (Center)	P4 38	P5 27	P4-P5 0		
BF3 (West)	P6 42	P7 32	P6-P7 0		
				If > 15 psig; change filter	
<b>MYCELX</b>					
MX-7 (small)	P8 30	P9 25	P8-P9 0		
MX-21 (large)	P9 25	P10 26	P9-P10 0		
				If > 10 psig; notify.	
<b>GAC FILTERS</b>					
GAC - 1	P10 26	P11 24	P10-P11 0		
GAC - 2	P11 24	P12 19	P11-P12 0		
GAC - 3	P12 19	P13 17.5	P12-P13 0		
Ion Exchange (Bed 1)	P13 17.5	P14 10	P13-P14 0		
Ion Exchange (Bed 2)	P14 10	P15 4	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells: GW-2	7.0	1642045.5	1613369.0	-
Wells: GW-13	4.4	1125682.2	1109320.0	-
Wells: GW-2/13	10	13475069.4	13435173.0	-
Wells: GW-15	4.0	953130.5	9093669.5	-
Wells: GW-16	4.5	5163351.5	5145528.2	-
Wells: GW-15/16	8.7	2349974.5	2315827.2	-
NPDES Discharge	30	669109.00	66842320	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [if collecting NPDES samples today, record effluent temperature (deg. C) and pH]  
 TEMP \_\_\_\_\_ (degrees. C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

NOTES / DAILY TASK SUMMARY

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Tues DATE: 08-13-13 TIME: 1000 WEATHER: Sunny 79°  
 OPERATOR NAME: M. Gradiukas REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b>					If > 25 psig; change filter
BF1 (East)	P2 40	P3 29	P2-P3 0		
BF2 (Center)	P4 39	P5 27	P4-P5 0		
BF3 (West)	P6 43	P7 32	P6-P7 0		
<b>MYCELX</b>					If > 15 psig; change filter
MX-7 (small)	P8 31	P9 24	P8-P9 0		
MX-21 (large)	P9 24	P10 26	P9-P10 0		
<b>GAC FILTERS</b>					If > 10 psig; notify.
GAC - 1	P10 26	P11 23	P10-P11 0		
GAC - 2	P11 23	P12 19	P11-P12 0		
GAC - 3	P12 19	P13 17.5	P12-P13 0		
Ion Exchange (Bed 1)	P13 17.5	P14 10	P13-P14 0		
Ion Exchange (Bed 2)	P14 10	P15 4	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells GW-2	7.0	1651628.0	1642045.5	-
Wells GW-13	4	1131461.5	1125682.2	-
Wells GW-2/13	10	13488859.6	13475069.4	-
Wells GW-15	40/	958029.0	953130.5	-
Wells GW-16	4.1/ 54	51695650	5163331.5	-
Wells GW-15/16	8.6	2361371.5	2349974.5	-
NPDES Discharge	30	66933141	66910900	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [if collecting NPDES samples today, record effluent temperature (deg. C) and pH]  
 TEMP \_\_\_\_\_ (degrees, C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

NOTES / DAILY TASK SUMMARY  
 INCREASED Flow AT Gw-16.

DATE: F 8-16-13 TIME: 0810 WEATHER: Sunny 80°

OPERATOR NAME: G. Androsko REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b> If > 25 psig; change filter					
BF1 (East)	P2 42	P3 30	P2-P3 0		
BF2 (Center)	P4 40	P5 28	P4-P5 0		
BF3 (West)	P6 45	P7 34	P6-P7 0		
<b>MYCELX</b> If > 15 psig; change filter					
MX-7 (small)	P8 32	P9 25	P8-P9 0		
MX-21 (large)	P9 25	P10 22	P9-P10 0		
<b>GAC FILTERS</b> If > 10 psig; notify.					
GAC - 1	P10 22	P11 24	P10-P11 0		
GAC - 2	P11 24	P12 20	P11-P12 0		
GAC - 3	P12 20	P13 21	P12-P13 0		
Ion Exchange (Bed 1)	P13 21	P14 12	P13-P14 0		
Ion Exchange (Bed 2)	P14 12	P15 4	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
1 Wells: GW-2	6.9	1680172.1	1651628.0	-
1 Wells: GW-13	4.0	1147592.3	1131461.5	-
2 Wells: GW-2/13	9.8	1352906.4	13488059.6	-
Wells: GW-15	*	974651.4*	958029.0	-
0 Wells: GW-16	4.8	5189121.0	5169565.0	-
5 Wells: GW-15/16	8.9	2399007.5	236137.65	-
85 NPDES Discharge	27	67001292	66933141	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [If collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees. C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify)

**NOTES / DAILY TASK SUMMARY**

Changed bag filters

\* Gauge stopped. New gauge ordered

Arsenic field test kit results: Effluent = ND (<2ppb) After Bed-1 = 8ppb

Tues. DATE: 08-20-13 TIME: 1330 WEATHER: Sunny

OPERATOR NAME: Milton L. Graoilla S

REV'D BY:

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b>					If > 25 psig; change filter
BF1 (East)	P2 39	P3 37	P2-P3 0		
BF2 (Center)	P4 37	P5 36	P4-P5 0		
BF3 (West)	P6 40	P7 40	P6-P7 0		
<b>MYCELX</b>					If > 15 psig; change filter
MX-7 (small)	P8 38	P9 31	P8-P9 0		
MX-21 (large)	P9 31	P10 32	P9-P10 0		
<b>GAC FILTERS</b>					If > 10 psig; notify.
GAC - 1	P10 32	P11 26	P10-P11 0		
GAC - 2	P11 26	P12 22.5	P11-P12 0		
GAC - 3	P12 22.5	P13 22	P12-P13 0		
Ion Exchange (Bed 1)	P13 22	P14 13	P13-P14 0		
Ion Exchange (Bed 2)	P14 13	P15 5	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells GW-2	7.1	1722910.6	1680172.1	-
Wells GW-13	4.0	1171350.2	1147592.3	-
Wells GW-2/13	9.8	13587781.4	13529061.4	-
Wells GW-15	4.0	974842.0	974651.4	-
Wells GW-16	4.6	5218043.0	5189121.0	-
Wells GW-15/16	8.9	2452547.0	2399007.5	-
NPDES Discharge	33	6710481.0	6700129.2	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [If collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees, C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

NOTES / DAILY TASK SUMMARY

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Fri.

DATE: 08-23-13 TIME: \_\_\_\_\_ WEATHER: SUNNY  
OPERATOR NAME: Milton L. Gradilla S REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b>					If > 25 psig; change filter
BF1 (East)	P2 <u>41</u>	P3 <u>39</u>	P2-P3 <u>0</u>		
BF2 (Center)	P4 <u>39</u>	P5 <u>37</u>	P4-P5 <u>0</u>		
BF3 (West)	P6 <u>43</u>	P7 <u>43</u>	P6-P7 <u>0</u>		
<b>MYCELX</b>					If > 15 psig; change filter
MX-7 (small)	P8 <u>41</u>	P9 <u>32</u>	P8-P9 <u>0</u>		
MX-21 (large)	P9 <u>32</u>	P10 <u>33</u>	P9-P10 <u>0</u>		
<b>GAC FILTERS</b>					If > 10 psig; notify.
GAC - 1	P10 <u>33</u>	P11 <u>28</u>	P10-P11 <u>0</u>		
GAC - 2	P11 <u>28</u>	P12 <u>22.5</u>	P11-P12 <u>0</u>		
GAC - 3	P12 <u>22.5</u>	P13 <u>22.5</u>	P12-P13 <u>0</u>		
Ion Exchange (Bed 1)	P13 <u>22.5</u>	P14 <u>12</u>	P13-P14 <u>0</u>		
Ion Exchange (Bed 2)	P14 <u>12</u>	P15 <u>22.5</u>	P14-P15 <u>0</u>		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells: GW-2	<u>6.9</u>	<u>1750571.0</u>	<u>1722910.0</u>	-
Wells: GW-13	<u>4.0</u>	<u>1186534.5</u>	<u>1171350.2</u>	-
Wells: GW-2/13	<u>9.8</u>	<u>13626468.2</u>	<u>13587781.4</u>	-
Wells: GW-15	<u>3.9</u>	<u>9904740</u>	<u>974842.0</u>	-
Wells: GW-16	<u>4.5</u>	<u>5236255.5</u>	<u>5218043.0</u>	-
Wells: GW-15/16	<u>8.7</u>	<u>2487031.5</u>	<u>2452547.0</u>	-
NPDES Discharge	<u>32</u>	<u>67170040</u>	<u>67104810</u>	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [if collecting NPDES samples today, record effluent temperature (deg. C) and pH]  
TEMP: 24.7 (degrees. C) pH: 6.94 Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

NOTES / DAILY TASK SUMMARY

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DATE: 08-26-13 TIME: 1107 WEATHER: Sunny (90°)

OPERATOR NAME: Milton L. Godilla S REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b>					If > 25 psig; change filter
BF1 (East)	P2 <u>42</u>	P3 <u>39</u>	P2-P3 <u>0</u>		
BF2 (Center)	P4 <u>40</u>	P5 <u>38</u>	P4-P5 <u>0</u>		
BF3 (West)	P6 <u>43</u>	P7 <u>42</u>	P6-P7 <u>0</u>		
<b>MYCELX</b>					If > 15 psig; change filter
MX-7 (small)	P8 <u>40</u>	P9 <u>30</u>	P8-P9 <u>0</u>		
MX-21 (large)	P9 <u>30</u>	P10 <u>31</u>	P9-P10 <u>0</u>		
<b>GAC FILTERS</b>					If > 10 psig; notify.
GAC - 1	P10 <u>31</u>	P11 <u>25</u>	P10-P11 <u>0</u>		
GAC - 2	P11 <u>25</u>	P12 <u>20.5</u>	P11-P12 <u>0</u>		
GAC - 3	P12 <u>20.5</u>	P13 <u>19.5</u>	P12-P13 <u>0</u>		
Ion Exchange (Bed 1)	P13 <u>19.5</u>	P14 <u>10</u>	P13-P14 <u>0</u>		
Ion Exchange (Bed 2)	P14 <u>10</u>	P15 <u>4</u>	P14-P15 <u>0</u>		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells: GW-2	<u>6.8</u>	<u>17776945</u>	<u>1750571.0</u>	-
Wells: GW-13	<u>3.7</u>	<u>1201421.5</u>	<u>1186534.5</u>	-
Wells: GW-2/13	<u>9.4</u>	<u>136643446</u>	<u>13626468.2</u>	-
Wells: GW-15	<u>4.5</u>	<u>10059040</u>	<u>990474.0</u>	-
Wells: GW-16	<u>4.8</u>	<u>525424705</u>	<u>5236255.5</u>	-
Wells: GW-15/16	<u>9.4</u>	<u>2520660</u>	<u>2487031.5</u>	-
NPDES Discharge	<u>31</u>	<u>67233971</u>	<u>67170040</u>	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [if collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees, C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

NOTES / DAILY TASK SUMMARY

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DATE: 08 27 13 TIME: 1330

WEATHER: cloudy 89°

OPERATOR NAME: M. GRADILLAS

REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b>					If > 25 psig, change filter
BF1 (East)	P2 41	P3 38	P2-P3 0		
BF2 (Center)	P4 39	P5 37	P4-P5 0		
BF3 (West)	P6 42	P7 41	P6-P7 0		
<b>MYCELX</b>					If > 15 psig, change filter
MX-7 (small)	P8 40	P9 29	P8-P9 0		
MX-21 (large)	P9 29	P10 29	P9-P10 0		
<b>GAC FILTERS</b>					If > 10 psig, notify.
GAC - 1	P10 29	P11 22	P10-P11 0		
GAC - 2	P11 22	P12 18.5	P11-P12 0		
GAC - 3	P12 18.5	P13 17.5	P12-P13 0		
Ion Exchange (Bed 1)	P13 17.5	P14 10	P13-P14 0		
Ion Exchange (Bed 2)	P14 10	P15 4	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells: GW-2	7.1	17883670	177694.5	-
Wells: GW-13	3.6	12070470	1201421.5	-
Wells: GW-2/13	9.5	136788385	13664344.6	-
Wells: GW-15	0	1012199.0	1005904.0	1012199.0 METER NOT OPERATIVE
Wells: GW-16	4.5	5261341.5	52542470	-
Wells: GW-15/16	8.6	2534342.5	25206660	-
NPDES Discharge	30	67260775	67233971	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [if collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees, C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

NOTES / DAILY TASK SUMMARY

UPON ARRIVAL TO GW-15 METER WAS NOT READING. NEED TO REPAIR OR REPLACE METER.

DATE: F8-30-14 TIME: 1315 WEATHER: Sunny 95

OPERATOR NAME: G. Androsko REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b> <span style="float: right;">If &gt; 25 psig; change filter</span>					
BF1 (East)	P2 42	P3 39	P2-P3 0		
BF2 (Center)	P4 40	P5 37	P4-P5 0		
BF3 (West)	P6 43	P7 42	P6-P7 0		
<b>MYCELX</b> <span style="float: right;">If &gt; 15 psig; change filter</span>					
MX-7 (small)	P8 40	P9 28	P8-P9 0		
MX-21 (large)	P9 28	P10 28	P9-P10 0		
<b>GAC FILTERS</b> <span style="float: right;">If &gt; 10 psig; notify.</span>					
GAC - 1	P10 28	P11 20	P10-P11 0		
GAC - 2	P11 20	P12 16	P11-P12 0		
GAC - 3	P12 16	P13 15	P12-P13 0		
Ion Exchange (Bed 1)	P13 15	P14 9	P13-P14 0		
Ion Exchange (Bed 2)	P14 9	P15 4	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
4 Wells: GW-2	6.9	1818335.2	1788367.0	-
0 Wells: GW-13	3.5	1221851.0	1267047.0	-
4 Wells: GW-2/13	9.5	13719706.5	13678838.5	-
Wells: GW-15	0*	1017873.7	1012199.0	-
5 Wells: GW-16	4.4	5280806.2	5261341.5	-
9 Wells: GW-15/16	4.4	2559190.0	2534342.5	-
5 NPDES Discharge	28	67321612	67260775	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [if collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees. C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

**NOTES / DAILY TASK SUMMARY**

GW-15 off pending repair

Arsenic field test kit results: Effluent = 5ppb After bed 1 = 8ppb

DATE: T 9-3-13 TIME: 1445 WEATHER: Sunny 95°

OPERATOR NAME: G. Androskiw REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b>				If > 25 psig; change filter	
BF1 (East)	P2 44	P3 40	P2-P3 0		
BF2 (Center)	P4 42	P5 39	P4-P5 0		
BF3 (West)	P6 45	P7 42	P6-P7 0		
<b>MYCELX</b>				If > 15 psig; change filter	
MX-7 (small)	P8 41	P9 24	P8-P9 0		
MX-21 (large)	P9 24	P10 23	P9-P10 0		
<b>GAC FILTERS</b>				If > 10 psig; notify.	
GAC - 1	P10 23	P11 15	P10-P11 0		
GAC - 2	P11 15	P12 13	P11-P12 0		
GAC - 3	P12 13	P13 12	P12-P13 0		
Ion Exchange (Bed 1)	P13 12	P14 7	P13-P14 0		
Ion Exchange (Bed 2)	P14 7	P15 3	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells: GW-2	6.8	<del>1778</del> 1858841.0	1818335.2	-
Wells: GW-13	4.0	1239730.0	1221851.0	-
5 Wells: GW-2/13	9.4	13774767.9	13719706.5	-
6 Wells: GW-15	4.8	217.2	1017873.7	-
1 Wells: GW-16	4.4	5306922.0	5280806.2	-
2 Wells: GW-15/16	9.1	2584574.2	2559190.0	-
70 NPDES Discharge	21	67395475	67321612	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [if collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees. C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

**NOTES / DAILY TASK SUMMARY**

Restarted GW-15 @ 1400. New meter in place. Initial rdg 50.1 gal

Arsenic test kit results: Effluent = 5ppb After Bed 1 = 8ppb

Installed new totalizer on GW-15

DATE: W9-4-13 TIME: \_\_\_\_\_ WEATHER: Sunny 90°

OPERATOR NAME: G. Androsko REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b>					If > 25 psig; change filter
BF1 (East)	P2 40	P3 39	P2-P3 0		
BF2 (Center)	P4 40	P5 38	P4-P5 0		
BF3 (West)	P6 42	P7 41	P6-P7 0		
<b>MYCELX</b>					If > 15 psig; change filter
MX-7 (small)	P8 41	P9 39	P8-P9 0		
MX-21 (large)	P9 39	P10 37	P9-P10 0		
<b>GAC FILTERS</b>					If > 10 psig; notify.
GAC - 1	P10 37	P11 27	P10-P11 0		
GAC - 2	P11 27	P12 23	P11-P12 0		
GAC - 3	P12 23	P13 21	P12-P13 0		
Ion Exchange (Bed 1)	P13 21	P14 13	P13-P14 0		
Ion Exchange (Bed 2)	P14 13	P15 5	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
6 Wells: GW-2	6.8	1867817.5	1858841.0	-
7 Wells: GW-13	3.9	1244878.3	1239730.0	-
7 Wells: GW-2/13	9.5	13785920.2	13774767.9	-
2 Wells: GW-15	3.5	5682.8	217.2	- Increased flow to 4.7
6 Wells: GW-16	4.5	5312397.0	5306922.0	-
6 Wells: GW-15/16	8.0	2595018.0	2584574.2	-
85 NPDES Discharge	31	67417392	67395475	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [if collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees. C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

**NOTES / DAILY TASK SUMMARY**

Changed the MX-7 and BF-1,2+3 filters

Changed the socks in the surge tank.

DATE: F 9-6-13 TIME: \_\_\_\_\_ WEATHER: Sunny 90°

OPERATOR NAME: G Androsko REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b>					If > 25 psig, change filter
BF1 (East)	P2 40	P3 39	P2-P3 0		
BF2 (Center)	P4 38	P5 37	P4-P5 0		
BF3 (West)	P6 41	P7 41	P6-P7 0		
<b>MYCELX</b>					If > 15 psig, change filter
MX-7 (small)	P8 40	P9 38	P8-P9 0		
MX-21 (large)	P9 38	P10 37	P9-P10 0		
<b>GAC FILTERS</b>					If > 10 psig, notify.
GAC - 1	P10 37	P11 27	P10-P11 0		
GAC - 2	P11 27	P12 22	P11-P12 0		
GAC - 3	P12 22	P13 21	P12-P13 0		
Ion Exchange (Bed 1)	P13 21	P14 12	P13-P14 0		
Ion Exchange (Bed 2)	P14 12	P15 5	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
5 Wells: GW-2	2.0	1887646.5	1867817.5	-
9 Wells: GW-13	3.7	1254620.0	1244878.3	-
3 Wells: GW-2/13	<del>4.9</del> 7.0 9.5	13812635.8	13785920.2	-
2 Wells: GW-15	4.2	17872.8	5682.8	-
0 Wells: GW-16	4.7	5325020.8	5312397.0	-
3 Wells: GW-15/16	9.1	2620435.5	2595018.0	-
80 NPDES Discharge	31	67465390	67417392	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [If collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees. C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

**NOTES / DAILY TASK SUMMARY**

Arsenic field test kit results: After bed 1 = 8ppb Effluent = 5ppb

DATE: 9-9-13 TIME: 0740 WEATHER: 70 Cloudy

OPERATOR NAME: Milton L. Gradillas REV'D BY: \_\_\_\_\_

**PRESSURE READINGS**

EQUIPMENT	Inlet Pressure (psig)	Outlet Pressure (psig)	Delta P (psig)	Filter Change Guide	COMMENTS
<b>BAG FILTERS (BF)</b> If > 25 psig; change filter					
BF1 (East)	P2 42	P3 40	P2-P3 0		
BF2 (Center)	P4 40	P5 39	P4-P5 0		
BF3 (West)	P6 45	P7 45	P6-P7 0		
<b>MYCELX</b> If > 15 psig; change filter					
MX-7 (small)	P8 43	P9 39	P8-P9 0		
MX-21 (large)	P9 39	P10 39	P9-P10 0		
<b>GAC FILTERS</b> If > 10 psig; notify					
GAC - 1	P10 39	P11 27	P10-P11 0		
GAC - 2	P11 27	P12 23	P11-P12 0		
GAC - 3	P12 23	P13 23.5	P12-P13 0		
Ion Exchange (Bed 1)	P13 23.5	P14 14	P13-P14 0		
Ion Exchange (Bed 2)	P14 14	P15 4	P14-P15 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells: GW-2	7.3	191717.00	1887646.5	-
Wells: GW-13	3.3	1268357.0	1254620.0	-
Wells: GW-2/13	9.5	13851451.0	13812635.8	-
Wells: GW-15	4.0	34822.2	17872.8	-
Wells: GW-16	4.5	5343179.2	5326020.8	-
Wells: GW-15/16	8.9	2656878.5	2620435.5	-
NPDES Discharge	31	67532255	67465390	-

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [If collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP \_\_\_\_\_ (degrees, C) pH \_\_\_\_\_ Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

**NOTES / DAILY TASK SUMMARY**

Arsenic field test kit results: After bed 1 = 8ppb, Effluent = 5ppb  
Shut system off @ 1330 pending Arsenic resin change out.