

February 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

**Re: Transmittal of Fourth Quarter 2012 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 Energy for the subject reporting period.

## **NPDES DISCHARGE VOLUMES**

The groundwater treatment system (GWTS) 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 subject quarter, 1,085,836 gallons of groundwater were processed and discharged. 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.

## **DISCHARGE MONITORING RESULTS**

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 GWTS operated continuously during this reporting period with the exception of routine system maintenance and site activities specified as follows:

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- During the subject quarter and as referenced in Table 1, the GWTS was not in operation from October 8<sup>th</sup> through October 22<sup>th</sup> due to groundwater monitoring.
- GWTS was shut down October 24<sup>th</sup> following arsenic detection greater than the permitted discharge limit. Changes in influent concentration were evaluated and remedial options assessed. System maintenance was performed including arsenic ion resin replacement and GAC change-out. Laboratory reporting protocol were reviewed and modified to ensure earlier detection of arsenic in the effluent. The GWTS was restarted on November 21<sup>st</sup>.

The GWTS operated continuously during the remainder of this reporting period with the exception of system non-operation specified above.

Representative sample results indicate concentrations were below detection limits or did not exceed permit required discharge levels with the exception of arsenic. Arsenic was reportedly detected on July 26<sup>th</sup> (0.0507 mg/L), August 31<sup>st</sup> (0.0974 mg/L) and September 27<sup>th</sup> (0.0756 mg/L). The GWTS was shut down on October 24<sup>th</sup> to evaluate changes in the influent characterization and remedial options. Mr. Gensen Kai of RWQCB was notified by telephone on October 30, 2012 of the arsenic discharge exceedance in the effluent samples. The type of arsenic resin in use was re-evaluated and the ion exchange vessel was rebedded with a resin appropriate to influent characteristics. Carbon vessels were rebedded concurrently. Laboratory protocol for analysis and reporting was reviewed and modified to ensure earlier detection of arsenic in the influent.

Following GWTS maintenance and procedural modifications, the GWTS was restarted on November 21<sup>st</sup> and as required by permit representative discharge samples for arsenic were collected on an accelerated sampling schedule (weekly) until four consecutive weekly sample results for arsenic re-established system compliance. The sample dates and summary of test results are provided in Table 2. A complete set of laboratory reports are provided in Attachment B.

#### 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 GWTS Monitoring Logs are provided in Attachment C.

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#### SUMMARY OF NON-COMPLIANCE

As indicated previously, arsenic concentrations in representative samples exceeded NPDES permit no. CAG994004 daily maximum discharge limit. The GWTS was shut down between October 24<sup>th</sup> and November 21<sup>st</sup> to evaluate the changes in influent arsenic characterization and remedial options. Following system maintenance and modification, as presented in the previous section of this DMR, the GWTS was restarted and arsenic concentrations were monitored on an accelerated sampling schedule to affirm compliance with the permit requirements.

#### LABORATORY CERTIFICATION

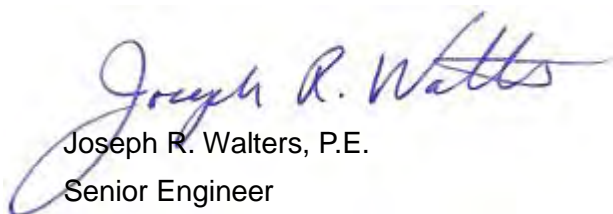
All analyses were conducted at a laboratory certified for such analyses by the Department of Health Services or approved by the Executive Officer and in accordance with current USEPA procedures or as specified in this Monitoring Program. The laboratory's quality control data is attached. A copy of the laboratory certification is provided in Attachment B.

#### REPORT CERTIFICATION

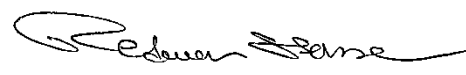
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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 February 2013, at Pasadena, California.

Sincerely,



Joseph R. Walters, P.E.  
Senior Engineer



Redwan Hassan  
Project Manager

Fourth Quarter 2012 DMR  
February 14, 2013

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

cc: Jack O'Donovan, DLA-E  
Paul Cho, RWQCB

**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 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>
10/01/12	63,539,102	83,198	GWTS operating normally. Changed MX7, MX-21 and bag filters.
10/03/12	63,583,745	44,643	GWTS operating normally. Repaired discharge hose from surge tank.
10/04/12	63,605,389	21,644	GWTS operating normally.
10/05/12	63,629,808	24,419	GWTS operating normally.
10/08/12	63,698,320	68,512	GWTS operating normally. System shut down for quarterly groundwater monitoring.
10/22/12	63,699,775	1,455	System restarted. GWTS operating normally. Repaired leak in GW-15/GW-16 discharge line.
10/23/12	63,727,165	27,390	GWTS operating normally.
10/24/12	63,748,620	21,455	GWTS operating normally. System shut down for ion exchange resin and carbon bed change out.
<b>Oct-12</b>	<b>292,716</b>	<b>292,716</b>	
11/21/12	63,752,360	3,740	Restarted system at 0915. Weekly (accelerated sampling schedule) NPDES compliance arsenic sample collected. Secondary containment sump pump malfunctioning (electrical problem). Shut down system at 1545.
11/26/12	63,760,085	7,725	Repairs completed. GWTS operating normally. Annual NPDES compliance sample collected.
11/28/12	63,804,620	44,535	GWTS operating normally.
11/30/12	63,848,138	43,518	GWTS operating normally.
<b>Nov-12</b>	<b>99,518</b>	<b>99,518</b>	
12/03/12	63,917,345	69,207	GWTS operating normally. Weekly NPDES compliance arsenic sample collected.
12/04/12	63,946,050	28,705	GWTS operating normally.
12/05/12	63,963,870	17,820	GWTS operating normally.
12/07/12	64,012,610	48,740	GWTS operating normally.
12/10/12	64,075,608	62,998	GWTS operating normally.
12/12/12	64,122,110	46,502	GWTS operating normally. Weekly NPDES arsenic compliance sample collected.
12/14/12	64,168,100	45,990	GWTS operating normally. Changed bag and MX-7 filters.
12/17/12	64,231,025	62,925	GWTS operating normally.
12/19/12	64,272,675	41,650	GWTS operating normally. Monthly NPDES compliance sample collected.
12/21/12	64,318,640	45,965	GWTS operating normally.
12/24/12	64,378,000	59,360	GWTS operating normally.
12/26/12	64,428,765	50,765	GWTS operating normally.
12/28/12	64,473,895	45,130	GWTS operating normally.
12/31/12	64,541,740	67,845	GWTS operating normally.
<b>Dec-12</b>	<b>693,602</b>	<b>693,602</b>	
<b>Total</b>	<b>1,085,836</b>	<b>1,085,836</b>	<b>11430 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			SM5520B	EPA 6010B/EPA 6020					SM2130B	SM4500S2-D	SM4500-CL F	SM2540D	SM2540F	SM5540 C	EPA 420.1	EPA 405.1	EPA821R02012
Date	Sample Loc.	pH	Temp. °C	TPH µg/L	Benzene µg/L	MTBE µg/L	TBA µg/L	Oil & Grease mg/L	Copper mg/L	Arsenic mg/L	Lead mg/L	Zinc mg/L	Selenium 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 %
GWTS was shut down from October 8th to October 22th for quarterly groundwater monitoring, GWTS shut down from October 24th through November 21st following an arsenic exceedance and pending mitigation																						
10/23/12	Effluent	---	---	---	ND<0.50	ND<0.50	7.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/21/12	Effluent	---	---	---	---	---	---	---	---	ND<0.0100	---	---	---	---	---	---	---	---	---	---	---	---
11/26/12	Effluent	6.84	21.3	ND<100	ND<0.50	ND<0.50	ND<10	ND <1.0	0.00143	ND<0.00100	ND <0.00100	0.00608	ND <0.00100	0.1	ND <0.050	ND <0.10	ND<1.0	ND<0.10	ND <0.10	ND<0.10	ND<1.0	---
12/03/12	Effluent	---	---	---	---	---	---	---	---	ND<0.0100	---	---	---	---	---	---	---	---	---	---	---	---
12/12/12	Effluent	---	---	---	---	---	---	---	---	ND<0.0100	---	---	---	---	---	---	---	---	---	---	---	---
12/19/12	Effluent	7.10	17.5	ND<100	ND<0.50	ND<0.50	ND<10	ND <1.0	0.00181	0.00240	ND <0.00100	0.00879	ND <0.00100	ND<0.050	---	---	---	---	---	---	---	---
	RL	0.01	---	100	0.50	0.50	10	1.0	0.00100	0.00100	0.00100	0.00500	0.00100	1.0	0.050	0.10	1.0	0.10	0.10	0.10	1.0	---
	MDL	---	---	---	0.14	0.31	4.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Daily Maximum	within 6.5-8.5	100°F (38°C)	100	1	5	12	15	0.02	0.01	0.106	0.158	0.008	150	1	0.1	150	0.3	0.5	1	30	minimum 90%
	Monthly Average			--	--	--	--	10	0.01	--	0.053	0.079	0.004	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

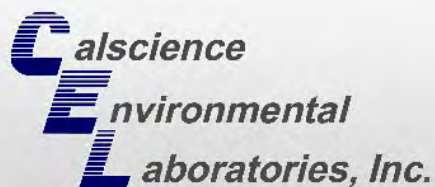
MTBE = methyl-tert-butyl ether  
 MBAS = methyl blue active substances (sufactants)  
 MDL = Method detection limit (or Reporting Limit if MDL not provided)  
 ML= Minimum Reporting Limit (µg/L)

# ATTACHMENT B

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***Analytical Laboratory Reports***





# CALSCIENCE

WORK ORDER NUMBER: 12-10-1620

*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. F. Clarke*

Approved for release on 10/26/2012 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.



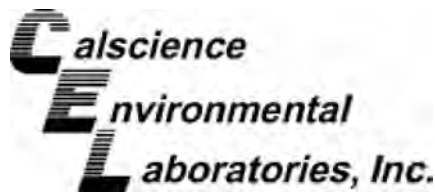


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Client Project Name: DFSP - Norwalk  
Work Order Number: 12-10-1620

1	Client Sample Data . . . . .	3
	1.1 EPA 8260B Volatile Organics (Aqueous) . . . . .	3
2	Quality Control Sample Data . . . . .	5
	2.1 MS/MSD and/or Duplicate . . . . .	5
	2.2 LCS/LCSD . . . . .	6
3	Glossary of Terms and Qualifiers . . . . .	7
4	Chain of Custody/Sample Receipt Form . . . . .	8



Analytical Report



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

Date Received: 10/23/12  
Work Order No: 12-10-1620  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/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	12-10-1620-1-A	10/23/12 13:10	Aqueous	GC/MS Q	10/24/12	10/25/12 05:02	121024L02

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

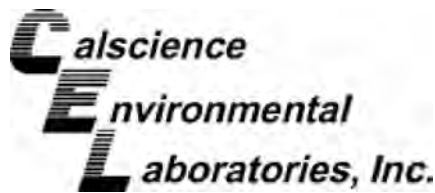
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	7.3	10	4.6	1	J
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	98	80-120		Dibromofluoromethane	107	80-126	
1,2-Dichloroethane-d4	105	80-134		Toluene-d8	100	80-120	

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



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Analytical Report



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

Date Received: 10/23/12  
Work Order No: 12-10-1620  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/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
Method Blank	099-14-001-9,158	N/A	Aqueous	GC/MS Q	10/24/12	10/25/12 04:34	121024L02

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

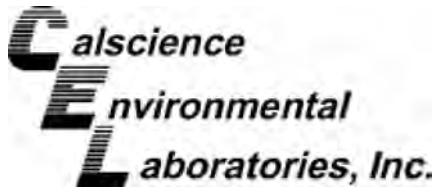
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	105	80-126	
1,2-Dichloroethane-d4	103	80-134		Toluene-d8	101	80-120	

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



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Quality Control - Spike/Spike Duplicate



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

Date Received: 10/23/12  
 Work Order No: 12-10-1620  
 Preparation: EPA 5030C  
 Method: EPA 8260B

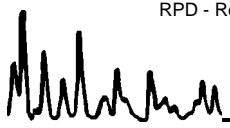
Project DFSP - Norwalk

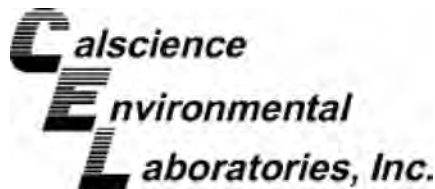
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Effluent	Aqueous	GC/MS Q	10/24/12	10/25/12	121024S02

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	50.20	100	50.31	101	78-120	0	0-20	
Carbon Tetrachloride	ND	50.00	51.33	103	52.24	104	67-139	2	0-20	
Chlorobenzene	ND	50.00	51.93	104	52.47	105	80-120	1	0-20	
1,2-Dibromoethane	ND	50.00	52.14	104	50.37	101	80-123	3	0-20	
1,2-Dichlorobenzene	ND	50.00	50.48	101	51.65	103	76-120	2	0-20	
1,2-Dichloroethane	ND	50.00	55.70	111	54.06	108	76-130	3	0-20	
1,1-Dichloroethene	ND	50.00	48.89	98	46.95	94	70-130	4	0-27	
Ethylbenzene	ND	50.00	56.21	112	55.67	111	73-127	1	0-20	
Toluene	ND	50.00	54.74	109	53.01	106	72-126	3	0-20	
Trichloroethene	ND	50.00	50.97	102	49.81	100	74-122	2	0-20	
Vinyl Chloride	ND	50.00	42.91	86	46.93	94	65-131	9	0-24	
p/m-Xylene	ND	100.0	113.2	113	109.0	109	70-130	4	0-30	
o-Xylene	ND	50.00	55.99	112	55.23	110	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	47.77	96	47.71	95	69-123	0	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	267.7	107	262.9	105	65-131	2	0-22	
Diisopropyl Ether (DIPE)	ND	50.00	51.73	103	51.56	103	68-128	0	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	52.42	105	52.11	104	69-123	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	50.05	100	50.49	101	70-124	1	0-20	
Ethanol	ND	500.0	601.5	120	497.2	99	41-155	19	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
Work Order No: 12-10-1620  
Preparation: EPA 5030C  
Method: EPA 8260B

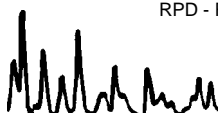
Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number					
099-14-001-9,158	Aqueous	GC/MS Q	10/24/12	10/25/12	121024L02					
Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	51.45	103	51.95	104	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	53.61	107	52.65	105	66-138	54-150	2	0-20	
Chlorobenzene	50.00	52.72	105	53.56	107	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	51.88	104	53.18	106	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	50.47	101	52.89	106	80-120	73-127	5	0-20	
1,2-Dichloroethane	50.00	55.99	112	55.45	111	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	47.81	96	47.23	94	71-131	61-141	1	0-20	
Ethylbenzene	50.00	56.41	113	56.86	114	80-123	73-130	1	0-20	
Toluene	50.00	53.63	107	56.22	112	79-121	72-128	5	0-20	
Trichloroethene	50.00	52.40	105	52.91	106	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	46.56	93	48.29	97	70-136	59-147	4	0-20	
p/m-Xylene	100.0	112.0	112	113.4	113	75-125	67-133	1	0-25	
o-Xylene	50.00	54.25	108	56.22	112	75-125	67-133	4	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	47.38	95	48.38	97	72-126	63-135	2	0-22	
Tert-Butyl Alcohol (TBA)	250.0	256.4	103	288.1	115	71-125	62-134	12	0-25	
Diisopropyl Ether (DIPE)	50.00	51.58	103	52.95	106	69-129	59-139	3	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	51.41	103	53.31	107	69-129	59-139	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	50.24	100	52.18	104	67-133	56-144	4	0-20	
Ethanol	500.0	545.3	109	623.0	125	47-155	29-173	13	0-36	

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 Limit



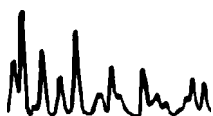


Work Order Number: 12-10-1620

<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.
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.

MPN - Most Probable Number





# Calscience Environmental Laboratories, Inc.

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

NorCal Service Center  
 5063 Commercial Circle, Suite H  
 Concord, CA 94520-8577  
 (925) 689-9022

## CHAIN OF CUSTODY RECORD

Date 10-23-12Page 1 of 1
 WO # / LAB USE ONLY  
 **12-10-1620** 

LABORATORY CLIENT: <b>Parsons</b>		CLIENT PROJECT NAME / NUMBER: <b>DFSP-Norwalk</b>		P.O. NO.:	
ADDRESS: <b>100 W. Walnut St</b>		PROJECT CONTACT: <b>Mary Lucas</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>
TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input checked="" type="checkbox"/> 72 HR <input type="checkbox"/> STANDARD	
<input type="checkbox"/> COELT EDF	GLOBAL ID
LOG CODE	

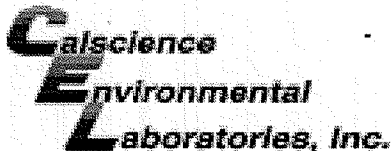
### REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (d) or DRO or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010/747X)	Cr(VI) [7196 or 7199 or 218.6]	Air - VOCs (TO-14A) or (TO-15)	Air - TPH (g) [TO-3]
		DATE	TIME																				
/	Effluent	10-23-12	1310	GW	3		X						X										

Relinquished by: (Signature) <i>Glenn Androsko</i>	Received by: (Signature/Affiliation) <i>Mary Lucas CA</i>	Date: <b>10-23-12</b>	Time: <b>1430</b>
Relinquished by: (Signature) <i>Mary Lucas</i>	Received by: (Signature/Affiliation) <i>[Signature] CA</i>	Date: <b>10-23-12</b>	Time: <b>1730</b>
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.





WORK ORDER #: 12-10-1620

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS

DATE: 10/23/12

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C - 6.0 °C, not frozen)
Temperature 3.1 °C - 0.3 °C (CF) = 2.8 °C
Received at ambient temperature, placed on ice for transport by Courier.
Ambient Temperature: Air Filter Initial: AY

CUSTODY SEALS INTACT:
Cooler No (Not Intact) Not Present N/A Initial: AM
Sample No (Not Intact) Not Present Initial: POP

SAMPLE CONDITION:
Chain-Of-Custody (COC) document(s) received with samples... Yes No N/A
COC document(s) received complete...
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...
Sample container label(s) consistent with COC...
Sample container(s) intact and good condition...
Proper containers and sufficient volume for analyses requested...
Analyses received within holding time...
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...
Proper preservation noted on COC or sample container...
Unpreserved vials received for Volatiles analysis
Volatile analysis container(s) free of headspace...
Tedlar bag(s) free of condensation...

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





# CALSCIENCE

## WORK ORDER NUMBER: 12-11-1601

*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 11/30/2012 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

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Client Project Name: DFSP - Norwalk  
Work Order Number: 12-11-1601

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2	Quality Control Sample Data . . . . .	4
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	2.2 LCS/LCSD . . . . .	5
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4	Chain of Custody/Sample Receipt Form . . . . .	7

**Analytical Report**



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

Date Received: 11/21/12  
Work Order No: 12-11-1601  
Preparation: EPA 3010A Total  
Method: EPA 6010B

Project: DFSP - Norwalk

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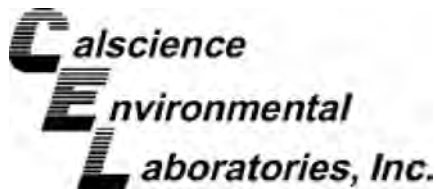
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	12-11-1601-1-A	11/21/12 13:50	Aqueous	ICP 7300	11/26/12	11/26/12 19:15	121126LA3

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Arsenic	ND	0.0100	1		mg/L

Method Blank	097-01-003-13,069	N/A	Aqueous	ICP 7300	11/26/12	11/26/12 19:08	121126LA3
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Arsenic	ND	0.0100	1		mg/L

Return to Contents



Quality Control - Spike/Spike Duplicate



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

Date Received: 11/21/12  
 Work Order No: 12-11-1601  
 Preparation: EPA 3005A Filt.  
 Method: EPA 6010B

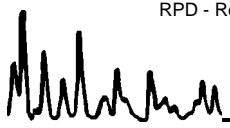
Project DFSP - Norwalk

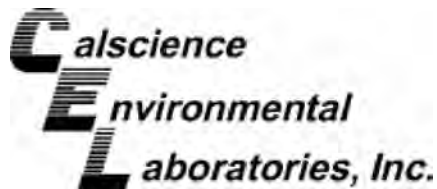
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-11-1619-25	Aqueous	ICP 7300	11/26/12	11/26/12	121126SA3

<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	ND	0.5000	0.6608	132	0.6518	130	80-140	1	0-11	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
 Work Order No: 12-11-1601  
 Preparation: EPA 3010A Total  
 Method: EPA 6010B

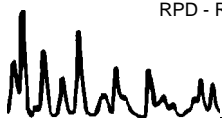
Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-13,069	Aqueous	ICP 7300	11/26/12	11/27/12	121126LA3

Parameter	<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>
Arsenic	0.5000	0.4405	88	0.4349	87	80-120	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 12-11-1601

<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.
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.

MPN - Most Probable Number







# Calscience Environmental Laboratories, Inc.

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

NorCal Service Center  
5063 Commercial Circle, Suite H  
Concord, CA 94520-8577  
(925) 689-9022

## CHAIN OF CUSTODY RECORD

Date 11-21-12

Page 1 of 1

WO # / LAB USE ONLY  
**12-11-1601**

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

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

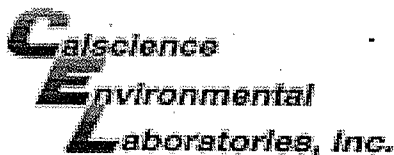
SPECIAL INSTRUCTIONS:

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (d) or DRO or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010/747X)	Cr(VI) [7196 or 7199 or 218.6]	Air - VOCs (TO-14A) or (TO-15)	Air - TPH (g) [TO-3]	<u>600 Arsenic</u>
		DATE	TIME																					
	<u>Effluent</u>	<u>11-21-12</u>	<u>1350</u>	<u>GW</u>	<u>1</u>		<u>1</u>																	<u>X</u>

Relinquished by: (Signature) <u>Glenn Androsko</u>	Received by: (Signature/Affiliation) <u>Mary Lucas</u>	Date: <u>11-21-12</u>	Time: <u>1444</u>
Relinquished by: (Signature) <u>Mary Lucas</u>	Received by: (Signature/Affiliation) <u>JJ Pak</u>	Date: <u>11/21/12</u>	Time: <u>1800</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.





WORK ORDER #: 12-11-1601

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS

DATE: 11/21/12

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C - 6.0 °C, not frozen)

Temperature 3.0 °C - 0.3 °C (CF) = 2.7 °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: AM

CUSTODY SEALS INTACT:

[ ] Cooler [ ] \_\_\_\_\_ [ ] No (Not Intact) [X] Not Present [ ] N/A

Initial: AM

[ ] Sample [ ] \_\_\_\_\_ [ ] No (Not Intact) [X] Not Present

Initial: MS

SAMPLE CONDITION:

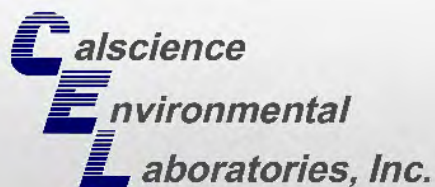
Table with 4 columns: Description, Yes, No, N/A. Rows include Chain-Of-Custody (COC) document(s) received with samples, COC document(s) received complete, Sampler's name indicated on COC, Sample container label(s) consistent with COC, etc.

CONTAINER TYPE:

Solid: [ ] 4ozCGJ [ ] 8ozCGJ [ ] 16ozCGJ [ ] Sleeve (\_\_\_\_) [ ] EnCores® [ ] TerraCores® [ ] \_\_\_\_\_
Water: [ ] VOA [ ] VOA h [ ] VOA na2 [ ] 125AGB [ ] 125AGB h [ ] 125AGB p [ ] 1AGB [ ] 1AGB na2 [ ] 1AGB s
[ ] 500AGB [ ] 500AGJ [ ] 500AGJ s [ ] 250AGB [ ] 250CGB [ ] 250CGB s [ ] 1PB [ ] 1PB na [ ] 500PB
[ ] 250PB [X] 250PB n [ ] 125PB [ ] 125PB z n n a [ ] 100PJ [ ] 100PJ na2 [ ] \_\_\_\_\_ [ ] \_\_\_\_\_ [ ] \_\_\_\_\_

Air: [ ] Tedlar® [ ] Canister Other: [ ] \_\_\_\_\_ Trip Blank Lot#: \_\_\_\_\_ Labeled/Checked by: MS
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: BL
Preservative: h: HCL n: HNO3 na2: Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 u: Ultra-pure z n n a: ZnAc2+NaOH f: Filtered Scanned by: BL





# CALSCIENCE

## WORK ORDER NUMBER: 12-11-1689

*The difference is service*



AIR · SOIL · WATER · MARINE CHEMISTRY

### Analytical Report For

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

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

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

*Ranjit K. F. Clarke*

Approved for release on 12/10/2012 by:  
Ranjit Clarke  
Project Manager

ResultLink ▶

Email your PM ▶



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Work Order Number: 12-11-1689

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**Analytical Report**



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

Date Received: 11/26/12  
Work Order No: 12-11-1689  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: DFSP Norwalk - Annual

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	12-11-1689-1-M	11/26/12 13:30	Aqueous	GC 47	11/26/12	11/27/12 17:08	121126B26

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Diesel	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	77	68-140			

Method Blank	099-15-282-61	N/A	Aqueous	GC 47	11/26/12	11/29/12 05:53	121126B26
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Diesel	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	75	68-140			

Return to Contents

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

**Analytical Report**



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

Date Received: 11/26/12  
 Work Order No: 12-11-1689  
 Preparation: EPA 5030C  
 Method: EPA 8015B (M)

Project: DFSP Norwalk - Annual

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	12-11-1689-1-C	11/26/12 13:30	Aqueous	GC 4	11/27/12	11/27/12 17:43	121127B03

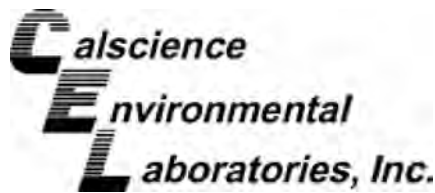
Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	105	38-134			

Method Blank	099-15-704-123	N/A	Aqueous	GC 4	11/27/12	11/27/12 13:04	121127B03
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	105	38-134			

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



Analytical Report



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

Date Received: 11/26/12  
Work Order No: 12-11-1689  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP Norwalk - Annual

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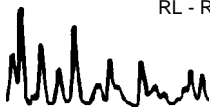
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	12-11-1689-1-D	11/26/12 13:30	Aqueous	GC/MS JJ	11/27/12	11/28/12 07:59	121127L02

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

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

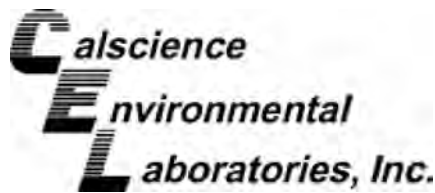
Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	98	80-120		Dibromofluoromethane	104	80-126	
1,2-Dichloroethane-d4	110	80-134		Toluene-d8	100	80-120	

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



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Analytical Report



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

Date Received: 11/26/12  
Work Order No: 12-11-1689  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP Norwalk - Annual

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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	099-14-001-9,455	N/A	Aqueous	GC/MS JJ	11/27/12	11/28/12 00:16	121127L02

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

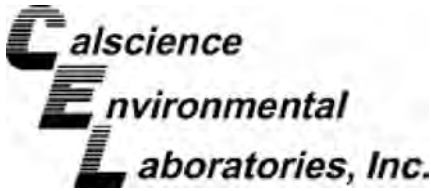
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	80-120		Dibromofluoromethane	102	80-126	
1,2-Dichloroethane-d4	99	80-134		Toluene-d8	97	80-120	

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



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Analytical Report



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

Date Received: 11/26/12  
 Work Order No: 12-11-1689  
 Preparation: EPA 3020A Total  
 Method: EPA 6020  
 Units: mg/L

Project: DFSP Norwalk - Annual

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Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	12-11-1689-1-N	11/26/12 13:30	Aqueous	ICP/MS 04	11/27/12	11/29/12 02:38	121127L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.00100	1		Selenium	ND	0.00100	1	
Copper	0.00143	0.00100	1		Zinc	0.00608	0.00500	1	
Lead	ND	0.00100	1						

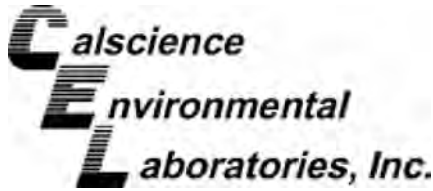
Method Blank	096-06-003-3,976	N/A	Aqueous	ICP/MS 04	11/27/12	11/29/12 01:48	121127L03
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.00100	1		Selenium	ND	0.00100	1	
Copper	ND	0.00100	1		Zinc	ND	0.00500	1	
Lead	ND	0.00100	1						

Return to Contents

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





Analytical Report



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

Date Received: 11/26/12  
Work Order No: 12-11-1689

Project: DFSP Norwalk - Annual

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Client Sample Number	Lab Sample Number	Date Collected	Matrix
Effluent	12-11-1689-1	11/26/12	Aqueous

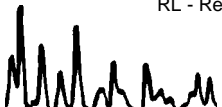
Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	ND	0.10	1		mg/L	11/30/12	11/30/12	EPA 420.1
Turbidity	0.10	0.050	1		NTU	N/A	11/26/12	SM 2130 B
Solids, Total Suspended	ND	1.0	1		mg/L	11/28/12	11/28/12	SM 2540 D
Solids, Settleable	ND	0.10	1		mL/L/hr	11/27/12	11/27/12	SM 2540 F
pH	7.08	0.01	1		pH units	N/A	11/26/12	SM 4500 H+ B
Sulfide, Total	ND	0.050	1		mg/L	11/29/12	11/29/12	SM 4500 S2 - D
Chlorine, Total Residual	ND	0.10	1		mg/L	N/A	11/26/12	SM 4500-CI F
Biochemical Oxygen Demand	ND	1.0	1		mg/L	11/27/12	12/02/12	SM 5210 B
Oil and Grease	ND	1.0	1		mg/L	11/28/12	11/28/12	SM 5520 B
MBAS	ND	0.10	1		mg/L	11/27/12	11/27/12	SM 5540C

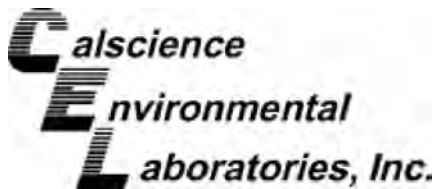
<b>Method Blank</b>					N/A			Aqueous
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Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	ND	0.10	1		mg/L	11/30/12	11/30/12	EPA 420.1
Solids, Total Suspended	ND	1.0	1		mg/L	11/28/12	11/28/12	SM 2540 D
Sulfide, Total	ND	0.050	1		mg/L	11/29/12	11/29/12	SM 4500 S2 - D
Chlorine, Total Residual	ND	0.10	1		mg/L	N/A	11/26/12	SM 4500-CI F
Biochemical Oxygen Demand	ND	1.0	1		mg/L	11/27/12	12/02/12	SM 5210 B
Oil and Grease	ND	1.0	1		mg/L	11/28/12	11/28/12	SM 5520 B
MBAS	ND	0.10	1		mg/L	11/27/12	11/27/12	SM 5540C

Return to Contents

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: 11/26/12  
 Work Order No: 12-11-1689  
 Preparation: EPA 3005A Filt.  
 Method: EPA 6020

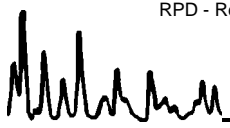
Project DFSP Norwalk - Annual

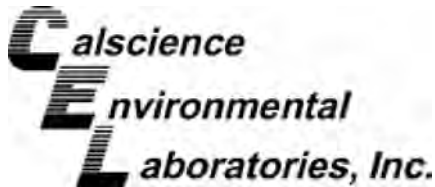
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-11-1543-4	Aqueous	ICP/MS 04	11/27/12	11/28/12	121127S03

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	ND	0.1000	0.09734	97	0.09600	96	73-127	1	0-11	
Copper	0.03585	0.1000	0.1289	93	0.1237	88	72-108	4	0-10	
Lead	ND	0.1000	0.1100	110	0.1086	109	79-121	1	0-10	
Selenium	ND	0.1000	0.09458	95	0.09229	92	59-125	2	0-12	
Zinc	0.05113	0.1000	0.1302	79	0.1434	92	43-145	10	0-39	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - PDS / PSD



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

Date Received 11/26/12  
 Work Order No: 12-11-1689  
 Preparation: EPA 3005A Filt.  
 Method: EPA 6020

Project DFSP Norwalk - Annual

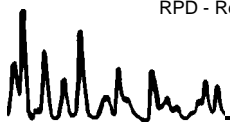
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PSD Batch Number
12-11-1543-4	Aqueous	ICP/MS 04	01/01/95	11/28/12	121127S03

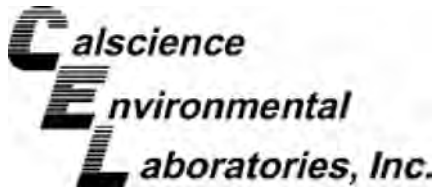
Analysis Comment: \* - Analyzed 11/29/2012 2:09:46 AM

Parameter	SAMPLE CONC	SPIKE ADDED	PDS CONC	PDS %REC	%REC CL	Qualifiers
Arsenic	ND	0.5000	0.4850	97	75-125	
Copper	0.03585	0.5000	0.5110	95	75-125	
Lead	ND	0.5000	0.5895	118	75-125	
Selenium	ND	1.000	1.056	106	75-125	
Zinc	0.05113	0.5000	0.4617	82	75-125	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



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

Date Received: 11/26/12  
 Work Order No: 12-11-1689  
 Preparation: N/A  
 Method: SM 5540C

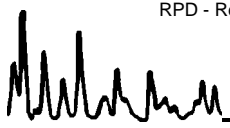
Project DFSP Norwalk - Annual

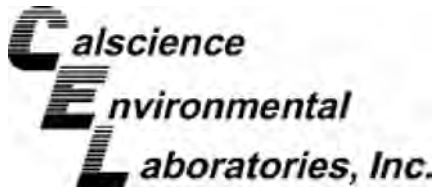
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-11-1663-1	Aqueous	UV 8	11/27/12	11/27/12	C1127SURS1

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
MBAS	ND	1.0	0.96	96	0.93	93	70-130	3	0-25	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



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

Date Received: 11/26/12  
 Work Order No: 12-11-1689  
 Preparation: EPA 5030C  
 Method: EPA 8015B (M)

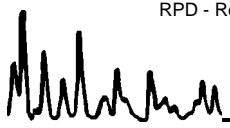
Project DFSP Norwalk - Annual

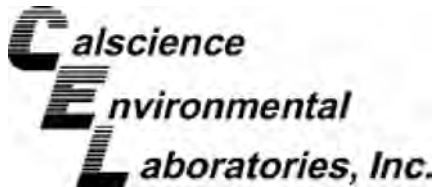
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-11-1719-1	Aqueous	GC 4	11/27/12	11/27/12	121127S01

Parameter	<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	166.2	2000	2167	100	2130	98	68-122	2	0-18	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



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

Date Received: 11/26/12  
 Work Order No: 12-11-1689  
 Preparation: EPA 5030C  
 Method: EPA 8260B

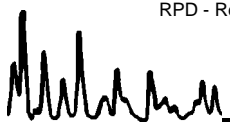
Project DFSP Norwalk - Annual

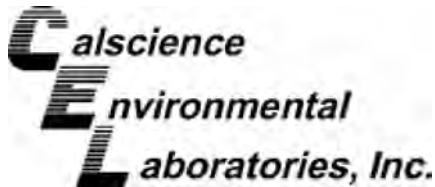
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-11-1691-1	Aqueous	GC/MS JJ	11/27/12	11/28/12	121127S02

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	1.219	50.00	47.46	92	47.79	93	78-120	1	0-20	
Carbon Tetrachloride	ND	50.00	52.97	106	53.29	107	67-139	1	0-20	
Chlorobenzene	ND	50.00	46.07	92	48.18	96	80-120	4	0-20	
1,2-Dibromoethane	ND	50.00	50.30	101	52.27	105	80-123	4	0-20	
1,2-Dichlorobenzene	ND	50.00	42.85	86	45.64	91	76-120	6	0-20	
1,2-Dichloroethane	ND	50.00	54.48	109	53.27	107	76-130	2	0-20	
1,1-Dichloroethene	ND	50.00	42.06	84	44.34	89	70-130	5	0-27	
Ethylbenzene	ND	50.00	45.35	91	47.32	95	73-127	4	0-20	
Toluene	ND	50.00	49.09	98	49.81	100	72-126	1	0-20	
Trichloroethene	7.734	50.00	56.51	98	57.14	99	74-122	1	0-20	
Vinyl Chloride	13.70	50.00	55.80	84	58.90	90	65-131	5	0-24	
p/m-Xylene	ND	100.0	91.63	92	96.03	96	70-130	5	0-30	
o-Xylene	ND	50.00	45.50	91	47.19	94	70-130	4	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	47.14	94	47.36	95	69-123	0	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	208.5	83	204.0	82	65-131	2	0-22	
Diisopropyl Ether (DIPE)	ND	50.00	42.38	85	42.97	86	68-128	1	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	44.94	90	45.93	92	69-123	2	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	48.99	98	47.75	95	70-124	3	0-20	
Ethanol	ND	500.0	445.8	89	497.2	99	41-155	11	0-35	

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RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Duplicate



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

Date Received: N/A  
 Work Order No: 12-11-1689

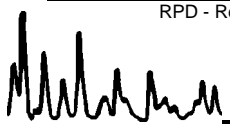
Project: DFSP Norwalk - Annual

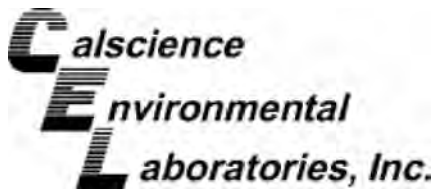
Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>QC Sample ID</u>	<u>Date Analyzed</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chlorine, Total Residual	SM 4500-Cl F	12-11-1663-4	11/26/12	ND	ND	NA	0-25	
Turbidity	SM 2130 B	12-11-1662-1	11/26/12	0.32	0.33	3	0-25	
pH	SM 4500 H+ B	Effluent	11/26/12	7.08	7.09	0	0-25	
Sulfide, Total	SM 4500 S2 - D	Effluent	11/29/12	ND	ND	NA	0-25	
Biochemical Oxygen Demand	SM 5210 B	Effluent	12/02/12	ND	ND	NA	0-25	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
 Work Order No: 12-11-1689  
 Preparation: EPA 3020A Total  
 Method: EPA 6020

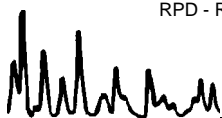
Project: DFSP Norwalk - Annual

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-06-003-3,976	Aqueous	ICP/MS 04	11/27/12	11/29/12	121127L03

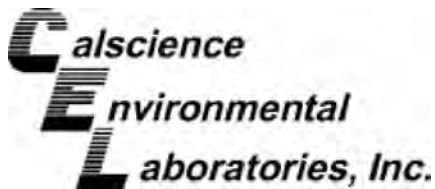
Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	0.1019	102	0.1090	109	80-120	7	0-20	
Copper	0.1000	0.1146	115	0.1149	115	80-120	0	0-20	
Lead	0.1000	0.1030	103	0.1038	104	80-120	1	0-20	
Selenium	0.1000	0.1016	102	0.09896	99	80-120	3	0-20	
Zinc	0.1000	0.1066	107	0.1105	111	80-120	4	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit







Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
 Work Order No: 12-11-1689  
 Preparation: N/A  
 Method: EPA 420.1

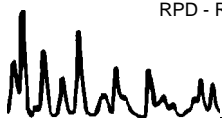
Project: DFSP Norwalk - Annual

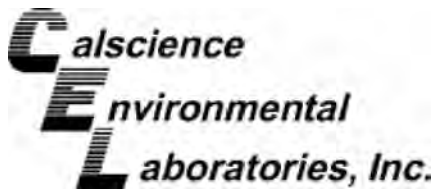
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-085-2,603	Aqueous	UV 2	11/30/12	11/30/12	C1130PHEL1

Parameter	<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>
Phenolics, Total	0.50	0.47	94	0.46	91	80-120	3	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
 Work Order No: 12-11-1689  
 Preparation: N/A  
 Method: SM 5540C

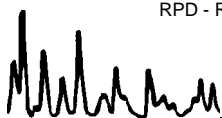
Project: DFSP Norwalk - Annual

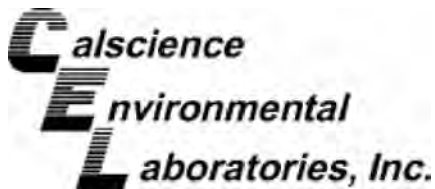
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-093-2,435	Aqueous	UV 8	11/27/12	11/27/12	C1127SURL1

Parameter	<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>
MBAS	1.0	0.96	96	0.95	95	80-120	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
 Work Order No: 12-11-1689  
 Preparation: N/A  
 Method: SM 5520 B

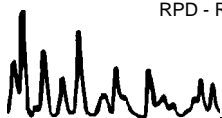
Project: DFSP Norwalk - Annual

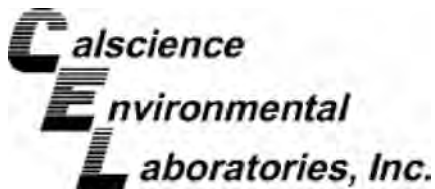
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-081-2,875	Aqueous	N/A	11/28/12	11/28/12	C1128OGL1

Parameter	<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	40.0	38.8	97	37.7	94	80-120	3	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
 Work Order No: 12-11-1689  
 Preparation: N/A  
 Method: SM 2540 D

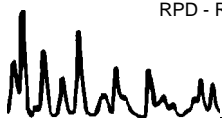
Project: DFSP Norwalk - Annual

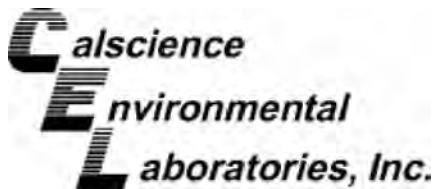
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-010-6,035	Aqueous	N/A	11/28/12	11/28/12	C1128TSSL1

Parameter	<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>
Solids, Total Suspended	100	94	94	91	91	80-120	3	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
 Work Order No: 12-11-1689  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

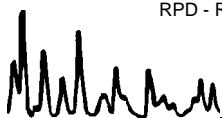
Project: DFSP Norwalk - Annual

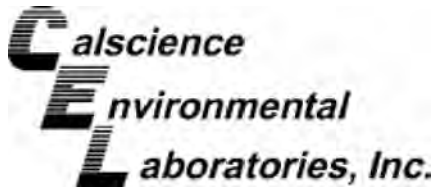
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-282-61	Aqueous	GC 47	11/26/12	11/29/12	121126B26

Parameter	<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	3687	92	4097	102	75-117	11	0-13	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
 Work Order No: 12-11-1689  
 Preparation: EPA 5030C  
 Method: EPA 8015B (M)

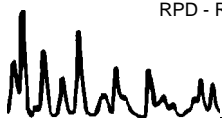
Project: DFSP Norwalk - Annual

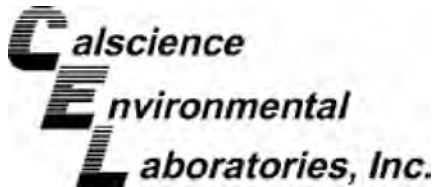
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-704-123	Aqueous	GC 4	11/27/12	11/27/12	121127B03

Parameter	<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 Gasoline	2000	2125	106	2196	110	78-120	3	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
 Work Order No: 12-11-1689  
 Preparation: EPA 5030C  
 Method: EPA 8260B

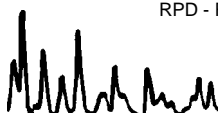
Project: DFSP Norwalk - Annual

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number					
099-14-001-9,455	Aqueous	GC/MS JJ	11/27/12	11/27/12	121127L02					
Parameter	<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>ME CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	50.00	48.87	98	46.57	93	80-120	73-127	5	0-20	
Carbon Tetrachloride	50.00	53.53	107	52.29	105	66-138	54-150	2	0-20	
Chlorobenzene	50.00	49.36	99	48.16	96	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	54.33	109	50.78	102	80-120	73-127	7	0-20	
1,2-Dichlorobenzene	50.00	47.61	95	44.95	90	80-120	73-127	6	0-20	
1,2-Dichloroethane	50.00	55.42	111	51.18	102	80-129	72-137	8	0-20	
1,1-Dichloroethene	50.00	44.08	88	42.34	85	71-131	61-141	4	0-20	
Ethylbenzene	50.00	48.90	98	46.95	94	80-123	73-130	4	0-20	
Toluene	50.00	52.16	104	48.90	98	79-121	72-128	6	0-20	
Trichloroethene	50.00	53.03	106	49.42	99	80-120	73-127	7	0-20	
Vinyl Chloride	50.00	46.76	94	46.01	92	70-136	59-147	2	0-20	
p/m-Xylene	100.0	99.26	99	93.94	94	75-125	67-133	6	0-25	
o-Xylene	50.00	49.17	98	47.32	95	75-125	67-133	4	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	48.95	98	46.34	93	72-126	63-135	5	0-22	
Tert-Butyl Alcohol (TBA)	250.0	243.9	98	242.4	97	71-125	62-134	1	0-25	
Diisopropyl Ether (DIPE)	50.00	44.73	89	42.81	86	69-129	59-139	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	47.28	95	44.77	90	69-129	59-139	5	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	51.18	102	47.58	95	67-133	56-144	7	0-20	
Ethanol	500.0	522.8	105	454.8	91	47-155	29-173	14	0-36	

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 Limit

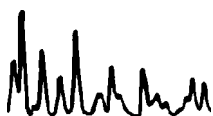


Work Order Number: 12-11-1689

<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.
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.

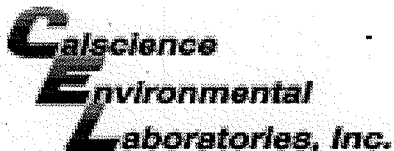
Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

MPN - Most Probable Number





LABORATORY CLIENT: <b>Parsons, Inc.</b>						CLIENT PROJECT NAME / NUMBER: <b>DFSP Norwalk - Annual</b>											P.O. NO.:																																	
100 W. Walnut Street						PROJECT CONTACT: <i>Mary Lucas / Cindy Zicker</i>											QUOTE NO.:																																	
CITY: Paasadena, CA 91124						SAMPLER(S): (SIGNATURE) <i>Glenn Anderson</i>											LAB USE ONLY <b>12-11-1689</b>																																	
TEL: <i>626-440-6032</i>		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 ___/___/___						<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Turbidity (SM 2130B) / BOD (SM 5210B)</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Oil &amp; Grease (SM 5520B)</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">pH (SM 4500 H+B) / MBAS (AM 5540C)</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH gas / TPH diesel (EPA 8015B(M))</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">VOCs + Oxys (EPA 8260B)</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Metals (EPA 6020: As,Cu,Se,Pb,Zn)</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Suspended Solids (SM 2540D)</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Settleable Solids (SM 2540F)</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Sulfides (SM 4500 S-2)</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Phenolics (EPA 420.1)</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Residual Chlorine (SM 4500 Cl F)</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">96hr Acute Tox (Fathead Minnows)</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Comments</th> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td> </tr> </table>															Turbidity (SM 2130B) / BOD (SM 5210B)	Oil & Grease (SM 5520B)	pH (SM 4500 H+B) / MBAS (AM 5540C)	TPH gas / TPH diesel (EPA 8015B(M))	VOCs + Oxys (EPA 8260B)	Metals (EPA 6020: As,Cu,Se,Pb,Zn)	Total Suspended Solids (SM 2540D)	Settleable Solids (SM 2540F)	Total Sulfides (SM 4500 S-2)	Phenolics (EPA 420.1)	Residual Chlorine (SM 4500 Cl F)	96hr Acute Tox (Fathead Minnows)	Comments	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Turbidity (SM 2130B) / BOD (SM 5210B)	Oil & Grease (SM 5520B)	pH (SM 4500 H+B) / MBAS (AM 5540C)	TPH gas / TPH diesel (EPA 8015B(M))	VOCs + Oxys (EPA 8260B)	Metals (EPA 6020: As,Cu,Se,Pb,Zn)																Total Suspended Solids (SM 2540D)	Settleable Solids (SM 2540F)	Total Sulfides (SM 4500 S-2)	Phenolics (EPA 420.1)	Residual Chlorine (SM 4500 Cl F)	96hr Acute Tox (Fathead Minnows)	Comments																							
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																																			
SPECIAL INSTRUCTIONS																																																		
LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING		MAT-RIX	NO. OF CONT.																																												
			DATE	TIME																																														
1	Effluent		11-26-12	1330	W	16	X	X	X	X	X	X	X	X	X	X	X	X	X	X																														
Relinquished by: (Signature) <i>Glenn Anderson</i>						Received by: (Signature) <i>[Signature]</i> <b>CEL</b>						Date: <i>11-26-12</i>		Time: <i>17:45</i>																																				
Relinquished by: (Signature) <i>[Signature]</i>						Received by: (Signature) <i>[Signature]</i> <b>CEL</b>						Date: <i>11/26/12</i>		Time: <i>18:24</i>																																				
Relinquished by: (Signature) <i>[Signature]</i>						Received by: (Signature)						Date:		Time:																																				



WORK ORDER #: 12-11-1689

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS

DATE: 11/26/12

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0°C - 6.0°C, not frozen except sediment/tissue)

Temperature 2.6 °C - 0.3°C (CF) = 2.3 °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.

[X] 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:

Table with 4 columns: Item, Yes, No, N/A. Rows include Chain-Of-Custody (COC) document(s) received with samples, COC document(s) received complete, Sampler's name indicated on COC, Sample container label(s) consistent with COC, etc.

CONTAINER TYPE:

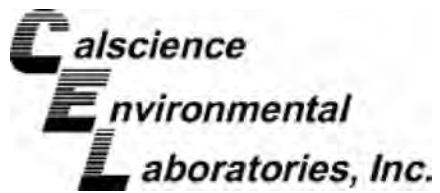
Solid: [ ] 4ozCGJ [ ] 8ozCGJ [ ] 16ozCGJ [ ] Sleeve ( ) [ ] EnCores® [ ] TerraCores® [ ] \_\_\_\_\_
Water: [ ] VOA [X] VOAh [ ] VOAna2 [ ] 125AGB [ ] 125AGBh [ ] 125AGBp [ ] 1AGB [ ] 1AGBna2 [X] 1AGBs
[ ] 500AGB [X] 500AGJ [X] 500AGJs [ ] 250AGB [ ] 250CGB [ ] 250CGBs [X] 1PB [ ] 1PBna [ ] 500PB
[ ] 250PB [X] 250PBna [ ] 125PB [X] 125PBzanna [ ] 100PJ [ ] 100PJna2 [X] 1 GAL, USE [ ] \_\_\_\_\_

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]





**Subcontractor Analysis Report**



**Work Order # 12-11-1689**

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One or more samples in this Work Order have tests that were subcontracted. The subcontract report(s) follows.

For subcontracted tests, please reference the laboratory information noted below.

- 1 Aquatic Bioassay & Consulting - Ventura, CA CA ELAP 1907  
Aquatic Bioassay



December 7, 2012

Mr. Ranjit Clarke  
Calscience Environmental  
7440 Lincoln Way  
Garden Grove, CA 92841-1432

Dear Mr. Clarke:

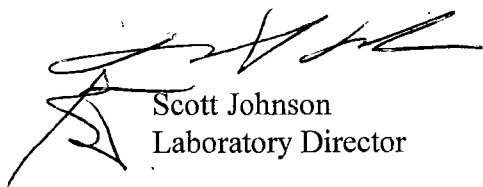
We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, EPA-821-R-02-012*. "All acceptability criteria were met and the concentration-response was normal. This is a valid test." Results were as follows:

CLIENT:	Calscience Environmental
SAMPLE I.D.:	Effluent (12-11-1689)
DATE RECEIVED:	27 Nov - 2012
ABC LAB. NO.:	CSE1112.311

#### 96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 =	100 % Survival in 100 % Sample
TU(a) =	0.00

Yours very truly,



Scott Johnson  
Laboratory Director

## CETIS Summary Report

 Report Date: 06 Dec-12 15:58 (p 1 of 1)  
 Test Code: CSE1112.311 | 10-3099-5992

## Fathead Minnow 96-h Acute Survival Test

Aquatic Bioassay &amp; Consulting Labs, Inc.

<b>Batch ID:</b> 03-9092-4885	<b>Test Type:</b> Survival (96h)	<b>Analyst:</b>
<b>Start Date:</b> 27 Nov-12 17:20	<b>Protocol:</b> EPA/821/R-02-012 (2002)	<b>Diluent:</b> Laboratory Water
<b>Ending Date:</b> 01 Dec-12 15:35	<b>Species:</b> Pimephales promelas	<b>Brine:</b> Not Applicable
<b>Duration:</b> 94h	<b>Source:</b> Aquatic Biosystems, CO	<b>Age:</b>
<b>Sample ID:</b> 17-6114-0149	<b>Code:</b> CSE1112.311	<b>Client:</b> Calscience Environmental Laboratorie
<b>Sample Date:</b> 26 Nov-12 13:30	<b>Material:</b> Sample Water	<b>Project:</b> 12-11-1689
<b>Receive Date:</b> 27 Nov-12 14:30	<b>Source:</b> Bioassay Report	
<b>Sample Age:</b> 28h	<b>Station:</b> Effluent	

## Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
10-3914-2242	96h Survival Rate	100	>100	NA	NA	1	Wilcoxon Rank Sum Two-Sample Test

## Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
15-7233-7128	96h Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	

## Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
10-3914-2242	96h Survival Rate	Control Resp	1	0.9 - NL	Yes	Passes Acceptability Criteria
15-7233-7128	96h Survival Rate	Control Resp	1	0.9 - NL	Yes	Passes Acceptability Criteria

## 96h Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	1	1	1	1	1	0	0	0.0%	0.0%
100		4	1	1	1	1	1	0	0	0.0%	0.0%

## 96h Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
100		1	1	1	1

## 96h Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	10/10	10/10	10/10	10/10
100		10/10	10/10	10/10	10/10

## CETIS Analytical Report

 Report Date: 06 Dec-12 15:58 (p 1 of 2)  
 Test Code: CSE1112.311 | 10-3099-5992

## Fathead Minnow 96-h Acute Survival Test

Aquatic Bioassay &amp; Consulting Labs, Inc.

<b>Analysis ID:</b> 10-3914-2242	<b>Endpoint:</b> 96h Survival Rate	<b>CETIS Version:</b> CETISv1.8.6
<b>Analyzed:</b> 06 Dec-12 15:58	<b>Analysis:</b> Nonparametric-Two Sample	<b>Official Results:</b> Yes
<b>Batch ID:</b> 03-9092-4885	<b>Test Type:</b> Survival (96h)	<b>Analyst:</b>
<b>Start Date:</b> 27 Nov-12 17:20	<b>Protocol:</b> EPA/821/R-02-012 (2002)	<b>Diluent:</b> Laboratory Water
<b>Ending Date:</b> 01 Dec-12 15:35	<b>Species:</b> Pimephales promelas	<b>Brine:</b> Not Applicable
<b>Duration:</b> 94h	<b>Source:</b> Aquatic Biosystems, CO	<b>Age:</b>
<b>Sample ID:</b> 17-6114-0149	<b>Code:</b> CSE1112.311	<b>Client:</b> Calscience Environmental Laboratorie
<b>Sample Date:</b> 26 Nov-12 13:30	<b>Material:</b> Sample Water	<b>Project:</b> 12-11-1689
<b>Receive Date:</b> 27 Nov-12 14:30	<b>Source:</b> Bioassay Report	
<b>Sample Age:</b> 28h	<b>Station:</b> Effluent	

Data Transform	Zeta	Alt Hyp	Trials	Seed	Test Result
Angular (Corrected)	NA	C > T	NA	NA	Passes 96h survival rate

## Wilcoxon Rank Sum Two-Sample Test

Control	vs C-%	Test Stat	Critical	Ties	DF	P-Value	P-Type	Decision( $\alpha$ :5%)
Negative Control	100	18	NA	1	6	1.0000	Exact	Non-Significant Effect

## Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.9 - NL	Yes	Passes Acceptability Criteria

## ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision( $\alpha$ :5%)
Between	0	0	1	65540	<0.0001	Significant Effect
Error	0	0	6			
Total	0		7			

## 96h Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	4	1	1	1	1	1	1	0	0.0%	0.0%
100		4	1	1	1	1	1	1	0	0.0%	0.0%

## Angular (Corrected) Transformed Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Contr	4	1.412	1.412	1.412	1.412	1.412	1.412	0	0.0%	0.0%
100		4	1.412	1.412	1.412	1.412	1.412	1.412	0	0.0%	0.0%

## 96h Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
100		1	1	1	1

## Angular (Corrected) Transformed Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.412	1.412	1.412	1.412
100		1.412	1.412	1.412	1.412

## 96h Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	10/10	10/10	10/10	10/10
100		10/10	10/10	10/10	10/10



## CETIS Analytical Report

 Report Date: 06 Dec-12 15:58 (p 1 of 2)  
 Test Code: CSE1112.311 | 10-3099-5992

## Fathead Minnow 96-h Acute Survival Test

Aquatic Bioassay &amp; Consulting Labs, Inc.

<b>Analysis ID:</b> 15-7233-7128	<b>Endpoint:</b> 96h Survival Rate	<b>CETIS Version:</b> CETISv1.8.6
<b>Analyzed:</b> 06 Dec-12 15:58	<b>Analysis:</b> Linear Interpolation (ICPIN)	<b>Official Results:</b> Yes
<b>Batch ID:</b> 03-9092-4885	<b>Test Type:</b> Survival (96h)	<b>Analyst:</b>
<b>Start Date:</b> 27 Nov-12 17:20	<b>Protocol:</b> EPA/821/R-02-012 (2002)	<b>Diluent:</b> Laboratory Water
<b>Ending Date:</b> 01 Dec-12 15:35	<b>Species:</b> Pimephales promelas	<b>Brine:</b> Not Applicable
<b>Duration:</b> 94h	<b>Source:</b> Aquatic Biosystems, CO	<b>Age:</b>
<b>Sample ID:</b> 17-6114-0149	<b>Code:</b> CSE1112.311	<b>Client:</b> Calscience Environmental Laboratorie
<b>Sample Date:</b> 26 Nov-12 13:30	<b>Material:</b> Sample Water	<b>Project:</b> 12-11-1689
<b>Receive Date:</b> 27 Nov-12 14:30	<b>Source:</b> Bioassay Report	
<b>Sample Age:</b> 28h	<b>Station:</b> Effluent	

## Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	280	Yes	Two-Point Interpolation

## Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.9 - NL	Yes	Passes Acceptability Criteria

## Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	NA	NA
EC10	>100	N/A	N/A	<1	NA	NA
EC15	>100	N/A	N/A	<1	NA	NA
EC20	>100	N/A	N/A	<1	NA	NA
EC25	>100	N/A	N/A	<1	NA	NA
EC40	>100	N/A	N/A	<1	NA	NA
EC50	>100	N/A	N/A	<1	NA	NA

## 96h Survival Rate Summary

## Calculated Variate(A/B)

C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	4	1	1	1	0	0	0.0%	0.0%	40	40
100		4	1	1	1	0	0	0.0%	0.0%	40	40

## 96h Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
100		1	1	1	1

## 96h Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	10/10	10/10	10/10	10/10
100		10/10	10/10	10/10	10/10



# CETIS Analytical Report

Report Date: 06 Dec-12 15:58 (p 2 of 2)  
Test Code: CSE1112.311 | 10-3099-5992

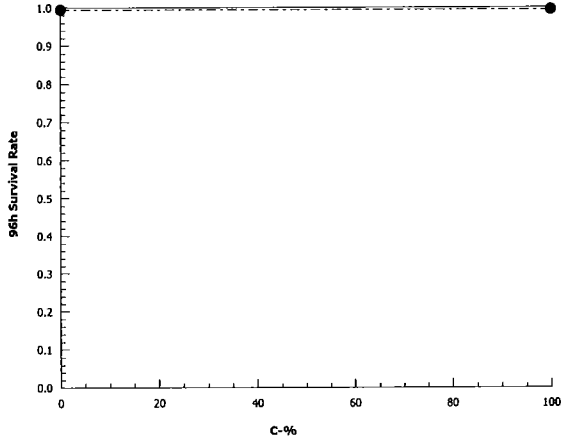
Fathead Minnow 96-h Acute Survival Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 15-7233-7128      Endpoint: 96h Survival Rate  
Analyzed: 06 Dec-12 15:58      Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.8.6  
Official Results: Yes

## Graphics



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## CETIS Measurement Report

Report Date: 06 Dec-12 15:58 (p 2 of 2)

Test Code: CSE1112.311 | 10-3099-5992

## Fathead Minnow 96-h Acute Survival Test

Aquatic Bioassay &amp; Consulting Labs, Inc.

Alkalinity (CaCO<sub>3</sub>)-mg/L

C-%	Control Type	1	2	3
0	Negative Contr	61	61	61
100		578	578	578

## Conductivity-µmhos

C-%	Control Type	1	2	3
0	Negative Contr	372	333	342
100		2539	2526	2528

## Dissolved Oxygen-mg/L

C-%	Control Type	1	2	3
0	Negative Contr	8.2	7.9	6.1
100		6.5	8.2	5.8

Hardness (CaCO<sub>3</sub>)-mg/L

C-%	Control Type	1	2	3
0	Negative Contr	95	93	93
100		698	698	698

## pH-Units

C-%	Control Type	1	2	3
0	Negative Contr	7.9	7.8	7.9
100		7.5	7.9	7.8

## Temperature-°C

C-%	Control Type	1	2	3
0	Negative Contr	24	24	24
100		25	25	24

TO: ABC Labs

**CHAIN OF CUSTODY RECORD**

DATE: 11/27/12

PAGE: 1 OF 1

LABORATORY CLIENT: <b>Calscience Environmental Laboratories, Inc.</b>		CLIENT PROJECT NAME / NUMBER: <b>12-11-1689</b>		P.O. NO.:	
ADDRESS: <b>7440 Lincoln Way</b>		PROJECT CONTACT: <b>Ranjit Clarke</b>		QUOTE NO.:	
CITY: <b>Garden Grove, CA 92841-1427</b>		SAMPLER(S): (PRINT)		LAB USE ONLY	
TEL: <b>(714) 895-5494</b>	E-MAIL: <b>rclarke@calscience.com</b>				

TURNAROUND TIME <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input checked="" type="checkbox"/> Normal	<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	SAMPLING		Matrix	#Cont	EPA 821/R-02/012	(Acute Toxicity - % Survival Fathead Minnows)																	
		DATE	TIME																					
	Effluent	11/26/12	13:30	W	1	X																		

Relinquished by: (Signature)	Received by / Affiliation: (Signature)	Date: <u>11/27/12</u>	Time: <u>1430</u>
Relinquished by: (Signature)	Received by / Affiliation: (Signature) <i>initial temp = 25°C</i>	Date:	Time:
Relinquished by: (Signature)	Received by / Affiliation: (Signature) <i>closure 0</i>	Date:	Time:
Relinquished by: (Signature)	Received by / Affiliation: (Signature) <i>ND3 = 1</i>	Date:	Time:



# CALSCIENCE

## WORK ORDER NUMBER: 12-12-0064

*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 12/10/2012 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: 12-12-0064

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2	Quality Control Sample Data . . . . .	4
2.1	MS/MSD and/or Duplicate . . . . .	4
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**Analytical Report**



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

Date Received: 12/03/12  
 Work Order No: 12-12-0064  
 Preparation: EPA 3010A Total  
 Method: EPA 6010B

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	12-12-0064-1-A	12/03/12 08:30	Aqueous	ICP 7300	12/04/12	12/05/12 12:35	121204LA5

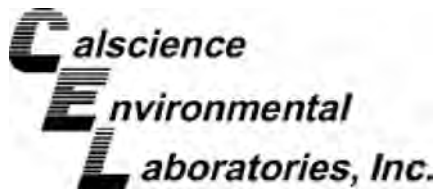
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Arsenic	ND	0.0100	1		mg/L

Method Blank	097-01-003-13,085	N/A	Aqueous	ICP 7300	12/04/12	12/04/12 20:20	121204LA5
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Arsenic	ND	0.0100	1		mg/L

Return to Contents

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: 12/03/12  
 Work Order No: 12-12-0064  
 Preparation: EPA 3010A Total  
 Method: EPA 6010B

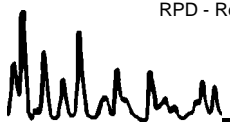
Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0089-2	Aqueous	ICP 7300	12/04/12	12/05/12	121204SA5

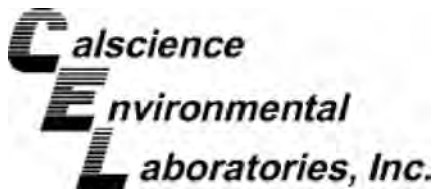
<u>Parameter</u>	<u>SAMPLE CONC</u>	<u>SPIKE ADDED</u>	<u>MS CONC</u>	<u>MS %REC</u>	<u>MSD CONC</u>	<u>MSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Arsenic	ND	0.5000	0.5119	102	0.5045	101	80-140	1	0-11	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit







Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
 Work Order No: 12-12-0064  
 Preparation: EPA 3010A Total  
 Method: EPA 6010B

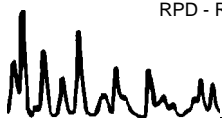
Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-13,085	Aqueous	ICP 7300	12/04/12	12/04/12	121204LA5

Parameter	<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>
Arsenic	0.5000	0.5046	101	0.5114	102	80-120	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 12-12-0064

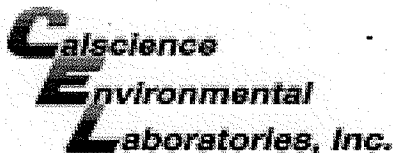
<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate 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.
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.

MPN - Most Probable Number







WORK ORDER #: 12-12-0064

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS

DATE: 12/03/12

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C - 6.0 °C, not frozen except sediment/tissue)

Temperature 3.3 °C - 0.3 °C (CF) = 3.0 °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: OEE

CUSTODY SEALS INTACT:

[ ] Cooler [ ] \_\_\_\_\_ [ ] No (Not Intact) [X] Not Present [ ] N/A

Initial: OEE

[ ] Sample [ ] \_\_\_\_\_ [ ] No (Not Intact) [X] Not Present

Initial: MS

SAMPLE CONDITION:

Table with 4 columns: Item, Yes, No, N/A. Rows include Chain-Of-Custody (COC) document(s) received with samples, COC document(s) received complete, 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, Sample container label(s) consistent with COC, Sample container(s) intact and good condition, Proper containers and sufficient volume for analyses requested, Analyses received within holding time, pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours, Proper preservation noted on COC or sample container, Unpreserved vials received for Volatiles analysis, Volatile analysis container(s) free of headspace, Tedlar bag(s) free of condensation.

CONTAINER TYPE:

Solid: [ ] 4ozCGJ [ ] 8ozCGJ [ ] 16ozCGJ [ ] Sleeve ( ) [ ] EnCores® [ ] TerraCores® [ ] \_\_\_\_\_
Water: [ ] VOA [ ] VOA h [ ] VOAna2 [ ] 125AGB [ ] 125AGBh [ ] 125AGBp [ ] 1AGB [ ] 1AGBna2 [ ] 1AGBs
[ ] 500AGB [ ] 500AGJ [ ] 500AGJs [ ] 250AGB [ ] 250CGB [ ] 250CGBs [ ] 1PB [ ] 1PBna [ ] 500PB
[ ] 250PB [X] 250PBn [ ] 125PB [ ] 125PBzanna [ ] 100PJ [ ] 100PJna2 [ ] \_\_\_\_\_ [ ] \_\_\_\_\_ [ ] \_\_\_\_\_

Air: [ ] Tedlar® [ ] Canister Other: [ ] \_\_\_\_\_ Trip Blank Lot#: \_\_\_\_\_ Labeled/Checked by: MS
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: PR
Preservative: h: HCL n: HNO3 na2: Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 u: Ultra-pure zanna: ZnAc2+NaOH f: Filtered Scanned by: PR





# CALSCIENCE

WORK ORDER NUMBER: 12-12-0782

*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 12/19/2012 by:  
Ranjit Clarke  
Project Manager

ResultLink ▶

Email your PM ▶



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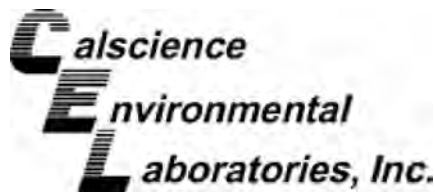


# Contents

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Client Project Name: DFSP - Norwalk  
Work Order Number: 12-12-0782

1	Client Sample Data . . . . .	3
	1.1 EPA 6010B ICP Metals (Aqueous) . . . . .	3
2	Quality Control Sample Data . . . . .	4
	2.1 MS/MSD and/or Duplicate . . . . .	4
	2.2 LCS/LCSD . . . . .	5
3	Glossary of Terms and Qualifiers . . . . .	6
4	Chain of Custody/Sample Receipt Form . . . . .	7



Analytical Report



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

Date Received: 12/12/12  
Work Order No: 12-12-0782  
Preparation: EPA 3010A Total  
Method: EPA 6010B

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	12-12-0782-1-D	12/12/12 00:00	Aqueous	ICP 7300	12/13/12	12/14/12 14:33	121213LA2

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

Parameter	Result	RL	MDL	DF	Qual	Units
Arsenic	ND	0.0100	0.00438	1		mg/L

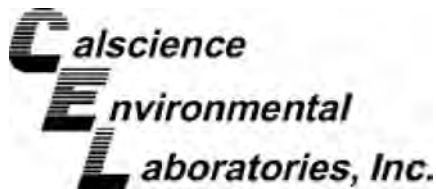
Method Blank	097-01-003-13,111	N/A	Aqueous	ICP 7300	12/13/12	12/17/12 12:13	121213LA2
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Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Arsenic	ND	0.0100	0.00438	1		mg/L

Return to Contents

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: 12/12/12  
 Work Order No: 12-12-0782  
 Preparation: EPA 3010A Total  
 Method: EPA 6010B

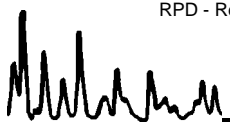
Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0807-1	Aqueous	ICP 7300	12/13/12	12/14/12	121213SA2

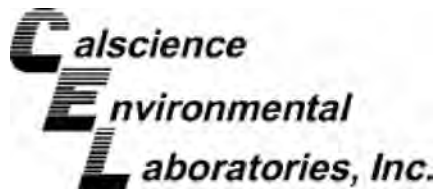
Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	ND	0.5000	0.4625	93	0.4776	96	80-140	3	0-11	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit







Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
 Work Order No: 12-12-0782  
 Preparation: EPA 3010A Total  
 Method: EPA 6010B

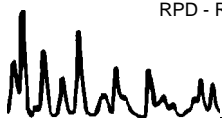
Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-13,111	Aqueous	ICP 7300	12/13/12	12/14/12	121213LA2

Parameter	<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>
Arsenic	0.5000	0.5150	103	0.5267	105	80-120	2	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 12-12-0782

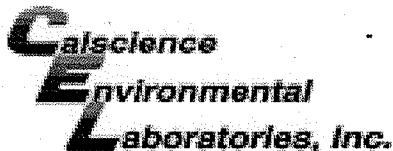
<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate 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.
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.

MPN - Most Probable Number







WORK ORDER #: 12-12-0782

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Parsons

DATE: 12/12/12

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0°C - 6.0°C, not frozen except sediment/tissue)
Temperature 2.8°C - 0.3°C (CF) = 2.5°C
Blank [checked] 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 [ ] Sample [ ]
No (Not Intact) [ ] No (Not Intact) [ ]
Not Present [checked] Not Present [checked]
N/A [ ] Initial: [signature]

SAMPLE CONDITION:
Chain-Of-Custody (COC) document(s) received with samples... [checked]
COC document(s) received complete... [checked]
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... [checked]
Sample container label(s) consistent with COC... [checked]
Sample container(s) intact and good condition... [checked]
Proper containers and sufficient volume for analyses requested... [checked]
Analyses received within holding time... [checked]
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours... [ ]
Proper preservation noted on COC or sample container... [checked]
Unpreserved vials received for Volatiles analysis [ ]
Volatile analysis container(s) free of headspace... [ ]
Tedlar bag(s) free of condensation... [ ]

CONTAINER TYPE:
Solid: 4ozCGJ [ ] 8ozCGJ [ ] 16ozCGJ [ ] Sleeve ( ) [ ] EnCores® [ ] TerraCores® [ ]
Water: VOA [ ] VOAh [ ] VOAna2 [ ] 125AGB [ ] 125AGBh [ ] 125AGBp [ ] 1AGB [ ] 1AGBna2 [ ] 1AGBs [ ]
500AGB [ ] 500AGJ [ ] 500AGJs [ ] 250AGB [ ] 250CGB [ ] 250CGBs [ ] 1PB [ ] 1PBna [ ] 500PB [ ]
250PB [checked] 250PBn [ ] 125PB [ ] 125PBzanna [ ] 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 zanna: ZnAc2+NaOH f: Filtered Scanned by: [signature]





# CALSCIENCE

## WORK ORDER NUMBER: 12-12-1240

*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 12/28/2012 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

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Client Project Name: DFSP Norwalk - Monthly

Work Order Number: 12-12-1240

1	Client Sample Data . . . . .	3
	1.1 EPA 8015B (M) TPH Diesel (Aqueous) . . . . .	3
	1.2 EPA 8015B (M) TPH Gasoline (Aqueous) . . . . .	4
	1.3 EPA 8260B Volatile Organics (Aqueous) . . . . .	5
	1.4 EPA 6020 ICP/MS Metals (Aqueous) . . . . .	7
	1.5 Combined Inorganic Tests . . . . .	8
2	Quality Control Sample Data . . . . .	9
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	2.2 LCS/LCSD . . . . .	14
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4	Chain of Custody/Sample Receipt Form . . . . .	20



**Analytical Report**



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

Date Received: 12/19/12  
Work Order No: 12-12-1240  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

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	12-12-1240-1-H	12/19/12 08:45	Aqueous	GC 47	12/20/12	12/21/12 04:01	121220B03

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	102	68-140			

Method Blank	099-15-282-67	N/A	Aqueous	GC 47	12/20/12	12/21/12 12:16	121220B03
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Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
n-Octacosane	84	68-140			

Return to Contents

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

**Analytical Report**



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

Date Received: 12/19/12  
Work Order No: 12-12-1240  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

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	12-12-1240-1-E	12/19/12 08:45	Aqueous	GC 25	12/20/12	12/21/12 11:02	121220B02

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	67	38-134			

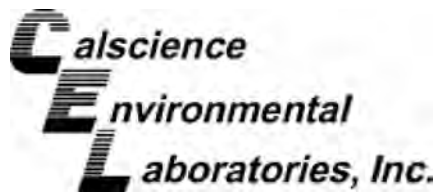
Method Blank	099-15-704-166	N/A	Aqueous	GC 25	12/20/12	12/21/12 09:22	121220B02
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	66	38-134			

Return to Contents

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





Analytical Report



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

Date Received: 12/19/12  
Work Order No: 12-12-1240  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP Norwalk - Monthly

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	12-12-1240-1-A	12/19/12 08:45	Aqueous	GC/MS BB	12/20/12	12/20/12 16:29	121220L01

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

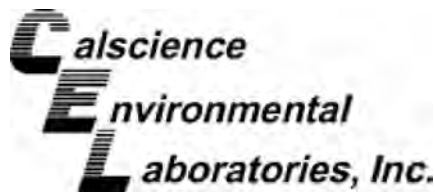
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	109	80-126	
1,2-Dichloroethane-d4	109	80-134		Toluene-d8	102	80-120	

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



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Analytical Report



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

Date Received: 12/19/12  
Work Order No: 12-12-1240  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP Norwalk - Monthly

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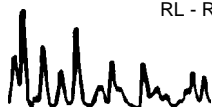
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-9,696	N/A	Aqueous	GC/MS BB	12/20/12	12/20/12 13:44	121220L01

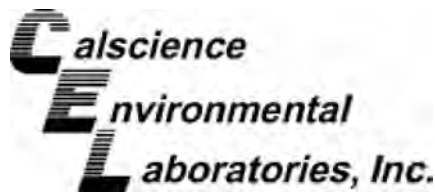
Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	103	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	102	80-120	

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





Analytical Report



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

Date Received: 12/19/12  
 Work Order No: 12-12-1240  
 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	12-12-1240-1-G	12/19/12 08:45	Aqueous	ICP/MS 04	12/20/12	12/21/12 22:49	121220L03

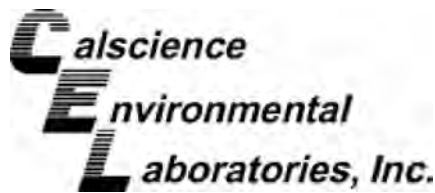
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.00240	0.00100	1		Selenium	ND	0.00100	1	
Copper	0.00181	0.00100	1		Zinc	0.00879	0.00500	1	
Lead	ND	0.00100	1						

Method Blank	096-06-003-3,995	N/A	Aqueous	ICP/MS 04	12/20/12	12/21/12 13:06	121220L03
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.00100	1		Selenium	ND	0.00100	1	
Copper	ND	0.00100	1		Zinc	ND	0.00500	1	
Lead	ND	0.00100	1						

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



Analytical Report



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

Date Received: 12/19/12  
 Work Order No: 12-12-1240

Project: DFSP Norwalk - Monthly

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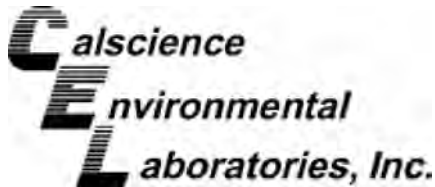
Client Sample Number	Lab Sample Number	Date Collected	Matrix
Effluent	12-12-1240-1	12/19/12	Aqueous

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Turbidity	ND	0.050	1		NTU	N/A	12/19/12	SM 2130 B
pH	7.27	0.01	1		pH units	N/A	12/19/12	SM 4500 H+ B
Oil and Grease	ND	1.0	1		mg/L	12/27/12	12/27/12	SM 5520 B
<b>Method Blank</b>					<b>N/A</b>	<b>Aqueous</b>		

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Oil and Grease	ND	1.0	1		mg/L	12/27/12	12/27/12	SM 5520 B

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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: 12/19/12  
 Work Order No: 12-12-1240  
 Preparation: EPA 3005A Filt.  
 Method: EPA 6020

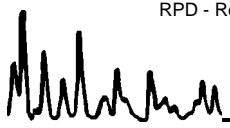
Project DFSP Norwalk - Monthly

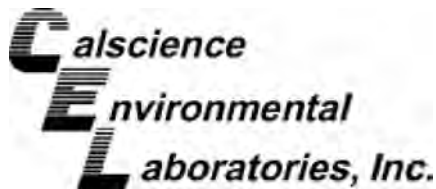
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-1086-11	Aqueous	ICP/MS 04	12/20/12	12/20/12	121220S03

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	ND	0.1000	0.1061	106	0.1023	102	73-127	4	0-11	
Copper	ND	0.1000	0.1050	105	0.1036	104	72-108	1	0-10	
Lead	ND	0.1000	0.1038	104	0.1017	102	79-121	2	0-10	
Selenium	ND	0.1000	0.09870	99	0.09658	97	59-125	2	0-12	
Zinc	0.01792	0.1000	0.1451	127	0.1174	99	43-145	21	0-39	

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RPD - Relative Percent Difference , CL - Control Limit





Quality Control - PDS / PDSO



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

Date Received 12/19/12  
 Work Order No: 12-12-1240  
 Preparation: EPA 3005A Filt.  
 Method: EPA 6020

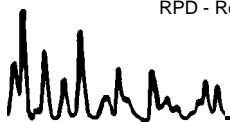
Project DFSP Norwalk - Monthly

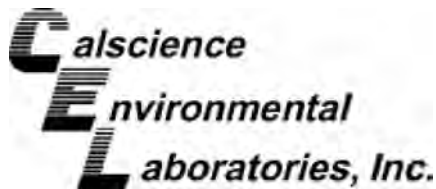
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSO Batch Number
12-12-1086-11	Aqueous	ICP/MS 04	12/20/12	12/20/12	121220S03

Parameter	SAMPLE CONC	SPIKE ADDED	PDS CONC	PDS %REC	%REC CL	Qualifiers
Arsenic	ND	0.1000	0.09526	95	75-125	
Copper	ND	0.1000	0.09729	97	75-125	
Lead	ND	0.1000	0.09785	98	75-125	
Selenium	ND	0.1000	0.08739	87	75-125	
Zinc	0.01792	0.1000	0.1138	96	75-125	

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RPD - Relative Percent Difference , CL - Control Limit





**Quality Control - Spike/Spike Duplicate**



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

Date Received: 12/19/12  
 Work Order No: 12-12-1240  
 Preparation: EPA 5030C  
 Method: EPA 8015B (M)

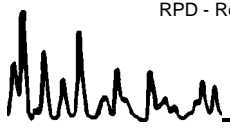
Project DFSP Norwalk - Monthly

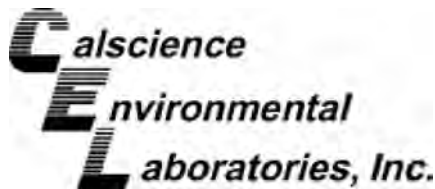
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Effluent	Aqueous	GC 25	12/20/12	12/21/12	121220S02

<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	1857	93	1887	94	68-122	2	0-18	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



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

Date Received: 12/19/12  
 Work Order No: 12-12-1240  
 Preparation: EPA 5030C  
 Method: EPA 8260B

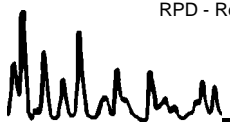
Project DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-1309-2	Aqueous	GC/MS BB	12/20/12	12/20/12	121220S01

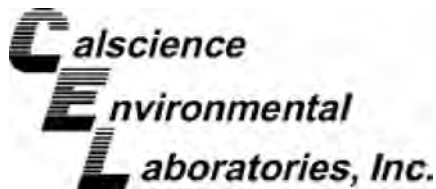
Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	51.04	102	51.21	102	78-120	0	0-20	
Carbon Tetrachloride	ND	50.00	58.15	116	56.87	114	67-139	2	0-20	
Chlorobenzene	ND	50.00	47.87	96	48.03	96	80-120	0	0-20	
1,2-Dibromoethane	ND	50.00	50.18	100	51.35	103	80-123	2	0-20	
1,2-Dichlorobenzene	ND	50.00	47.88	96	48.87	98	76-120	2	0-20	
1,2-Dichloroethane	ND	50.00	51.72	103	51.32	103	76-130	1	0-20	
1,1-Dichloroethene	ND	50.00	43.34	87	43.14	86	70-130	0	0-27	
Ethylbenzene	ND	50.00	50.91	102	50.10	100	73-127	2	0-20	
Toluene	ND	50.00	53.75	107	54.06	108	72-126	1	0-20	
Trichloroethene	ND	50.00	51.59	103	51.02	102	74-122	1	0-20	
Vinyl Chloride	ND	50.00	50.03	100	57.66	115	65-131	14	0-24	
p/m-Xylene	ND	100.0	101.9	102	100.7	101	70-130	1	0-30	
o-Xylene	ND	50.00	54.06	108	53.48	107	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	52.44	105	52.95	106	69-123	1	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	273.8	110	281.6	113	65-131	3	0-22	
Diisopropyl Ether (DIPE)	ND	50.00	55.56	111	55.57	111	68-128	0	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	57.83	116	58.47	117	69-123	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	54.14	108	54.65	109	70-124	1	0-20	
Ethanol	ND	500.0	465.9	93	520.2	104	41-155	11	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit







Quality Control - Duplicate



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

Date Received: N/A  
 Work Order No: 12-12-1240

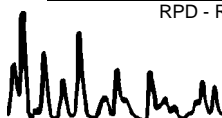
Project: DFSP Norwalk - Monthly

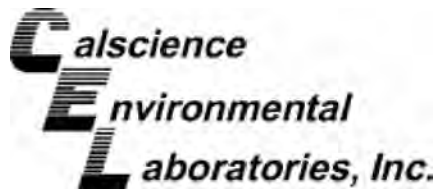
Matrix: Aqueous or Solid

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Turbidity	SM 2130 B	Effluent	12/19/12	ND	ND	NA	0-25	
pH	SM 4500 H+ B	12-12-1216-1	12/19/12	7.42	7.46	1	0-25	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
 Work Order No: 12-12-1240  
 Preparation: EPA 3020A Total  
 Method: EPA 6020

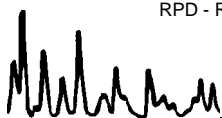
Project: DFSP Norwalk - Monthly

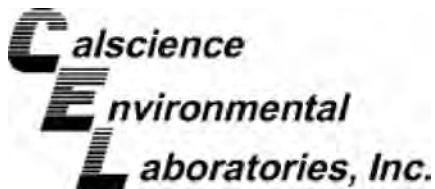
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-06-003-3,995	Aqueous	ICP/MS 04	12/20/12	12/21/12	121220L03

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	0.09982	100	0.09947	99	80-120	0	0-20	
Copper	0.1000	0.1057	106	0.1058	106	80-120	0	0-20	
Lead	0.1000	0.09950	99	0.09532	95	80-120	4	0-20	
Selenium	0.1000	0.09626	96	0.09668	97	80-120	0	0-20	
Zinc	0.1000	0.1065	106	0.1053	105	80-120	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
 Work Order No: 12-12-1240  
 Preparation: N/A  
 Method: SM 5520 B

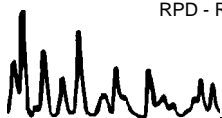
Project: DFSP Norwalk - Monthly

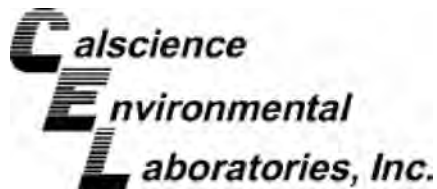
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-081-2,881	Aqueous	N/A	12/27/12	12/27/12	C1227OGL1

Parameter	<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	40.0	38.5	96	39.5	99	80-120	3	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
 Work Order No: 12-12-1240  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

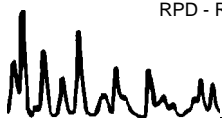
Project: DFSP Norwalk - Monthly

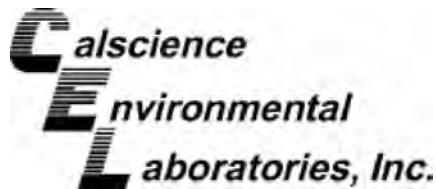
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-282-67	Aqueous	GC 47	12/20/12	12/21/12	121220B03

Parameter	<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	3359	84	3196	80	75-117	5	0-13	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
 Work Order No: 12-12-1240  
 Preparation: EPA 5030C  
 Method: EPA 8015B (M)

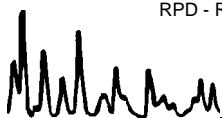
Project: DFSP Norwalk - Monthly

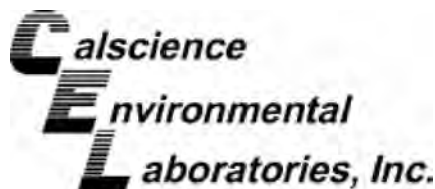
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-704-166	Aqueous	GC 25	12/20/12	12/21/12	121220B02

Parameter	<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 Gasoline	2000	1854	93	1849	92	78-120	0	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





## Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
Work Order No: 12-12-1240  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number					
099-14-001-9,696	Aqueous	GC/MS BB	12/20/12	12/20/12	121220L01					
Parameter	<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>ME CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	50.00	51.70	103	50.44	101	80-120	73-127	2	0-20	
Carbon Tetrachloride	50.00	57.31	115	55.80	112	66-138	54-150	3	0-20	
Chlorobenzene	50.00	48.45	97	47.54	95	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	51.02	102	50.04	100	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	48.63	97	48.38	97	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	50.90	102	49.88	100	80-129	72-137	2	0-20	
1,1-Dichloroethene	50.00	44.29	89	41.69	83	71-131	61-141	6	0-20	
Ethylbenzene	50.00	50.35	101	49.42	99	80-123	73-130	2	0-20	
Toluene	50.00	54.34	109	53.35	107	79-121	72-128	2	0-20	
Trichloroethene	50.00	50.44	101	49.25	98	80-120	73-127	2	0-20	
Vinyl Chloride	50.00	58.43	117	54.94	110	70-136	59-147	6	0-20	
p/m-Xylene	100.0	104.0	104	101.4	101	75-125	67-133	3	0-25	
o-Xylene	50.00	54.78	110	54.28	109	75-125	67-133	1	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	52.18	104	52.05	104	72-126	63-135	0	0-22	
Tert-Butyl Alcohol (TBA)	250.0	248.7	99	238.1	95	71-125	62-134	4	0-25	
Diisopropyl Ether (DIPE)	50.00	55.57	111	54.67	109	69-129	59-139	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	58.03	116	57.60	115	69-129	59-139	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	54.16	108	53.88	108	67-133	56-144	1	0-20	
Ethanol	500.0	473.6	95	441.5	88	47-155	29-173	7	0-36	

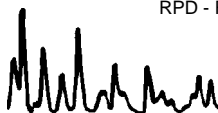
Total number of LCS compounds : 19

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

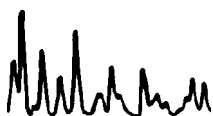


Work Order Number: 12-12-1240

<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.
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.

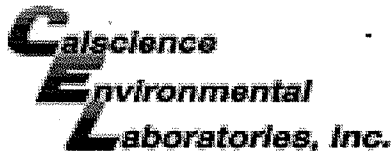
Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

MPN - Most Probable Number









WORK ORDER #: 12-12-1240

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS

DATE: 12/19/12

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C - 6.0 °C, not frozen except sediment/tissue)
Temperature 2.6 °C - 0.3 °C (CF) = 2.3 °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: [Signature]

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

SAMPLE CONDITION:
Chain-Of-Custody (COC) document(s) received with samples...
COC document(s) received complete...
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...
Sample container label(s) consistent with COC...
Sample container(s) intact and good condition...
Proper containers and sufficient volume for analyses requested...
Analyses received within holding time...
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...
Proper preservation noted on COC or sample container...
Unpreserved vials received for Volatiles analysis
Volatile analysis container(s) free of headspace...
Tedlar bag(s) free of condensation...

CONTAINER TYPE:
Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve ( ) EnCores TerraCores
Water: VOA VOA h VOAna2 125AGB 125AGBh 125AGBp 1AGB 1AGBna2 1AGBs
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB
250PB 250PBna 125PB 125PBz nna 100PJ 100PJna
Air: Tedlar Canister Other: Trip Blank Lot#: Labeled/Checked by: [Signature]
Reviewed by: [Signature]
Scanned by: [Signature]

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# ATTACHMENT C

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## ***Groundwater Treatment System Monitoring Logs***

DATE: 10-12 M. TIME: 1054 WEATHER: SUNNY (extreme heat 100°)

OPERATOR NAME: Milton L. Gradillas REVD 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 <u>43</u>	P3 <u>41</u>	P2-P3 <u>0</u>		filters change
BF2 (Center)	P4 <u>42</u>	P5 <u>43</u>	P4-P5 <u>0</u>		" ↓ "
BF3 (West)	P6 <u>44</u>	P7 <u>45</u>	P6-P7 <u>0</u>		
If > 15 psig; change filter					
<b>MYCELX</b>					
MX-7 (small)	P8 <u>43</u>	P9 <u>26</u>	P8-P9 <u>0</u>		" filters change " ↓
MX-21 (large)	P9 <u>26</u>	P10 <u>35</u>	P9-P10 <u>0</u>		
If > 10 psig; notify.					
<b>GAC FILTERS</b>					
GAC - 1	P10 <u>35</u>	P11 <u>29</u>	P10-P11 <u>0</u>		
GAC - 2	P11 <u>29</u>	P12 <u>24.5</u>	P11-P12 <u>0</u>		
GAC - 3	P12 <u>24.5</u>	P13 <u>24</u>	P12-P13 <u>0</u>		
Ion Exchange	P13 <u>24</u>	P14 <u>12</u>	P13-P14 <u>0</u>		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells: GW-2	<u>5.3</u>	<u>323849.5</u>	<u>294839.5</u>	-
Wells: GW-13	<u>5.0</u>	<u>197044.5</u>	<u>174145.2</u>	-
Wells: GW-2/13	<u>10</u>	<u>11435072.3</u>	<u>11385645.0</u>	-
Wells: GW-15	<u>4.3</u>	<u>190341.9</u>	<u>171485.2</u>	-
Wells: GW-16	<u>4.5</u>	<u>4239061.0</u>	<u>4216878.8</u>	-
Wells: GW-15/16	<u>10.1</u>	<u>492446.0</u>	<u>446232.2</u>	-
NPDES Discharge	<u>35</u>	<u>63539102</u>	<u>63455904</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**

System shutdown for filter change at 1100. BF1, BF2, BF3, MX-7 AND MX-21 filters changed. System restarted at 1430.



DATE: W 10-3-12 TIME: 0955 WEATHER: Sunny 78°

OPERATOR NAME: G. Androsko REVD BY: \_\_\_\_\_

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	38	P3	37	P2-P3	0		
BF2 (Center)	P4	37	P5	37	P4-P5	0		
BF3 (West)	P6	40	P7	40	P6-P7	0		
							If > 15 psig; change filter	
<b>MYCELX</b>								
MX-7 (small)	P8	42	P9	28	P8-P9	0		
MX-21 (large)	P9	28	P10	36	P9-P10	0		
							If > 10 psig; notify.	
<b>GAC FILTERS</b>								
GAC - 1	P10	36	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	P13	25	P14	8	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
9 Wells: GW-2	5.7	337470.5	323849.5	-
7 Wells: GW-13	4.9	209740.0	197044.5	-
2 Wells: GW-2/13	9.8	11460684.9	11435072.3	-
3 Wells: GW-15	4.2	200874.0	190341.9	-
6 Wells: GW-16	4.9	4260387.0	4239061.0	-
0 Wells: GW-15/16	9.4	517512.5	492446.0	-
35 NPDES Discharge	35	63583745	63539102	-

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 1215 to 1345 to repair discharge hose from surge tank.

DATE: 10/4/2012 TIME: 9:40 WEATHER: Sunny, warm

OPERATOR NAME: Cindy Zicker REV'D BY: \_\_\_\_\_

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 31	P12/P3 38	P2-P3 0		
BF2 (Center)	P4 39	P5 40	P4-P5 0		
BF3 (West)	P6 42	P7 42	P6-P7 0		
<b>MYCELX</b>					If > 15 psig; change filter
MX-7 (small)	P8 44	P9 27	P8-P9 0		
MX-21 (large)	P9 27	P10 38	P9-P10 0		
<b>GAC FILTERS</b>					If > 10 psig; notify.
GAC - 1	P10 38	P11 32	P10-P11 0		
GAC - 2	P11 32	P12 27	P11-P12 0		
GAC - 3	P12 27	P13 28	P12-P13 0		
Ion Exchange	P13 28	P14 9	P13-P14 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells: GW-2	5.4	3458006.6	337470.5	-
Wells: GW-13	5.6	216473.7	209740.0	-
Wells: GW-2/13	11.8	11473767.0	11460684.9	-
Wells: GW-15	4.2	206428.0	200874.0	-
Wells: GW-16	4.4	4256379.8	4250387.0	-
Wells: GW-15/16	9.4	530293.0	517512.5	-
NPDES Discharge	36	63605389	6358374.5	-

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**

Hose repair in tact - no leaks observed from this location



DATE: F 10-5-12 TIME: 1000 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	40	P3	36	P2-P3	0	
BF2 (Center)	P4	39	P5	39	P4-P5	0	
BF3 (West)	P6	41	P7	41	P6-P7	0	
<b>MYCELX</b>							If > 15 psig; change filter
MX-7 (small)	P8	43	P9	28	P8-P9	0	
MX-21 (large)	P9	28	P10	37	P9-P10	0	
<b>GAC FILTERS</b>							If > 10 psig; notify.
GAC - 1	P10	37	P11	36	P10-P11	0	
GAC - 2	P11	36	P12	27	P11-P12	0	
GAC - 3	P12	27	P13	26	P12-P13	0	
Ion Exchange	P13	26	P14	8	P13-P14	0	

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
2 Wells: GW-2	5.7	352753.5	345006.6	-
0 Wells: GW-13	4.8	223081.7	216473.7	-
3 Wells: GW-2/13	9.8	11487875.8	11473767.0	-
2 Wells: GW-15	4.0	212083.0	206428.0	-
9 Wells: GW-16	4.4	4262630.0	4256379.8	-
4 Wells: GW-15/16	9.8	544266.5	530293.0	-
95 NPDES Discharge	37	63629808	63605389	-

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: M 10-8-12 TIME: 0945 WEATHER: Cloudy 70°

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	29	P3	39	P2-P3	0	
BF2 (Center)	P4	40	P5	40	P4-P5	0	
BF3 (West)	P6	43	P7	43	P6-P7	0	
<b>MYCELX</b>							If > 15 psig; change filter
MX-7 (small)	P8	44	P9	28	P8-P9	0	
MX-21 (large)	P9	28	P10	38	P9-P10	0	
<b>GAC FILTERS</b>							If > 10 psig; notify.
GAC - 1	P10	38	P11	32	P10-P11	0	
GAC - 2	P11	32	P12	27	P11-P12	0	
GAC - 3	P12	27	P13	27	P12-P13	0	
Ion Exchange	P13	27	P14	8	P13-P14	0	

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
5 Wells: GW-2	5.8	377666.5	352753.5	-
9 Wells: GW-13	4.3	242560.0	223081.7	-
1 Wells: GW-2/13	9.9	11529823.5	11487875.8	-
8 Wells: GW-15	4.0	229069.0	212083.0	-
7 Wells: GW-16	4.4	4281819.0	4262630.0	-
2 Wells: GW-15/16	8.8	583804.6	544266.5	-
10 NPDES Discharge	37	63698320	63629808	-

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**

Shut down system @ 0945 for quarterly GW sampling event



DFSP Norwalk  
GWTS Environmental Compliance / Operation Maintenance Worksheets

DATE: 10-22-12 TIME: 0845 WEATHER: 70° Partly cloudy

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

PRESSURE READINGS							Filter Change Guide	COMMENTS
EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)		Delta P (psig)			
<b>BAG FILTERS (BF)</b>							If > 25 psig; change filter	
BF1 (East)	P2	40	P3	36	P2-P3	0		
BF2 (Center)	P4	39	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	42	P9	34	P8-P9	0		
MX-21 (large)	P9	34	P10	36	P9-P10	0		
<b>GAC FILTERS</b>							If > 10 psig; notify.	
GAC - 1	P10	36	P11	31	P10-P11	0		
GAC - 2	P11	31	P12	24	P11-P12	0		
GAC - 3	P12	24	P13	26	P12-P13	0		
Ion Exchange	P13	26	P14	8	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells: GW-2	5.4	378232.0	377666.5	-
Wells: GW-13	5.3	243072.5	242560.0	-
Wells: GW-2/13	10.1	11530178.7	11529823.5	-
Wells: GW-15	4.5	229369.0	229069.0	-
Wells: GW-16	4.6	4282117.5	4281819.0	-
Wells: GW-15/16	10.3	583866.3	583804.6	-
NPDES Discharge	35	63699775	63698320	-

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 system @ 0830. Leak on GW-15/16 discharge line shut off from 0845-1045 during repairs (15/16 only)



DATE: 10-23-12 TIME: 1310 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	40	P3	37	P2-P3	0	
BF2 (Center)	P4	38	P5	37	P4-P5	0	
BF3 (West)	P6	41	P7	40	P6-P7	0	
<b>MYCELX</b>						If > 15 psig; change filter	
MX-7 (small)	P8	43	P9	35	P8-P9	0	
MX-21 (large)	P9	35	P10	35	P9-P10	0	
<b>GAC FILTERS</b>						If > 10 psig; notify.	
GAC - 1	P10	35	P11	30	P10-P11	0	
GAC - 2	P11	30	P12	25	P11-P12	0	
GAC - 3	P12	25	P13	25.5	P12-P13	0	
Ion Exchange	P13	25.5	P14	9.4	P13-P14	0	

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells: GW-2	5.4	38773.20	378232.0	-
Wells: GW-13	5.1	251830.5	243092.5	-
Wells: GW-2/13	9.8	11547158.8	11530178.7	-
Wells: GW-15	4.2	235920.5	229369.0	-
Wells: GW-16	4.5	4289278.1	4282117.5	-
Wells: GW-15/16	9.8	599492.5	583866.3	-
NPDES Discharge	36	63727165	63699775	-

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: 10-24-12 TIME: 1043 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 41	P3 37	P2-P3 0		
BF2 (Center)	P4 40	P5 39	P4-P5 0		
BF3 (West)	P6 42	P7 42	P6-P7 0		
<b>MYCELX</b> <span style="float: right;">If &gt; 15 psig; change filter</span>					
MX-7 (small)	P8 43	P9 35	P8-P9 0		
MX-21 (large)	P9 35	P10 37	P9-P10 0		
<b>GAC FILTERS</b> <span style="float: right;">If &gt; 10 psig; notify.</span>					
GAC - 1	P10 37	P11 31	P10-P11 0		
GAC - 2	P11 31	P12 26	P11-P12 0		
GAC - 3	P12 26	P13 26	P12-P13 0		
Ion Exchange	P13 26	P14 9	P13-P14 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
1 Wells: GW-2	4.6	394212.0	387732.0	-
2 Wells: GW-13	5.1	257633.5	251836.5	-
6 Wells: GW-2/13	9.9	11560069.5	11547158.8	-
8 Wells: GW-15	4.1	240889.0	235920.5	-
1 Wells: GW-16	4.5	429492.3	428927.8	-
7 Wells: GW-15/16	9.9	611809.5	599492.5	-
10 NPDES Discharge	35	63748620	63727165	-

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**

Shut down system @ 1045 for ion exchange change out



DATE: W 11-21-12 TIME: 1350 WEATHER: Sunny 71°

OPERATOR NAME: G. Andrusko 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 17	P3 34	P2-P3 0		
BF2 (Center)	P4 37	P5 36	P4-P5 0		
BF3 (West)	P6 39	P7 38	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 31	P9-P10 0		
<b>GAC FILTERS</b>					If > 10 psig; notify.
GAC - 1	P10 31	P11 27	P10-P11 0		
GAC - 2	P11 27	P12 25	P11-P12 0		
GAC - 3	P12 25	P13 24	P12-P13 0		
Ion Exchange	P13 24	P14 18	P13-P14 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
1 Wells: GW-2	5.5	395302.3	394212.0	-
4 Wells: GW-13	5.1	258625.7	257633.5	-
8 Wells: GW-2/13	10.3	11562060.5	11560069.5	-
1 Wells: GW-15	3.6	241631.7	240889.0	-
7 Wells: GW-16	4.7	4295828.2	4294902.3	-
8 Wells: GW-15/16	9.3	613660.0	611809.5	-
50 NPDES Discharge	41	63752360	6374860	-

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 As resin. Restarted system @ 0915  
 1300 Vent/drain valve on carbon beds left open. Secondary containment flooded. Sump pump not working. Using a portable pump to pump water to surge tank for treatment  
 1350 Sampled effluent for As  
 1545 Shut down GW-pumps.

DATE: 11-26-12 TIME: 1348 WEATHER: Sunny

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 <u>16</u>	P3 <u>34</u>	P2-P3 <u>0</u>		
BF2 (Center)	P4 <u>35</u>	P5 <u>34</u>	P4-P5 <u>0</u>		
BF3 (West)	P6 <u>38</u>	P7 <u>37</u>	P6-P7 <u>0</u>		
<b>MYCELX</b>					If > 15 psig; change filter
MX-7 (small)	P8 <u>39</u>	P9 <u>29</u>	P8-P9 <u>0</u>		
MX-21 (large)	P9 <u>29</u>	P10 <u>30</u>	P9-P10 <u>0</u>		
<b>GAC FILTERS</b>					If > 10 psig; notify.
GAC - 1	P10 <u>30</u>	P11 <u>25</u>	P10-P11 <u>0</u>		
GAC - 2	P11 <u>25</u>	P12 <u>22.5</u>	P11-P12 <u>0</u>		
GAC - 3	P12 <u>22.5</u>	P13 <u>21.5</u>	P12-P13 <u>0</u>		
Ion Exchange	P13 <u>21.5</u>	P14 <u>13</u>	P13-P14 <u>0</u>		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells: GW-2	<u>5.5</u>	<u>3980290</u>	<u>395302.3</u>	-
Wells: GW-13	<u>5.4</u>	<u>261205.5</u>	<u>258625.7</u>	-
Wells: GW-2/13	<u>10.6</u>	<u>11566574.8</u>	<u>11562060.5</u>	-
Wells: GW-15	<u>3.6</u>	<u>243401.5</u>	<u>241631.7</u>	-
Wells: GW-16	<u>4.7</u>	<u>4298027.5</u>	<u>4295828.2</u>	-
Wells: GW-15/16	<u>9.4</u>	<u>617777.0</u>	<u>613660.0</u>	-
NPDES Discharge	<u>45</u>	<u>63760085</u>	<u>63752360</u>	-

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

TEMP 21.3 (degrees, C) pH 6.84 Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

**NOTES / DAILY TASK SUMMARY**

System back on @ 0950

Collected effluent sample @ 1330



DATE: W 11-28-12 TIME: 1240 WEATHER: Partly cloudy 69°

OPERATOR NAME: G. Androsko REVD 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	—	P3	34	P2-P3	0	
BF2 (Center)	P4	36	P5	36	P4-P5	0	
BF3 (West)	P6	40	P7	39	P6-P7	0	
<b>MYCELX</b>						If > 15 psig; change filter	
MX-7 (small)	P8	40	P9	31	P8-P9	0	
MX-21 (large)	P9	31	P10	31	P9-P10	0	
<b>GAC FILTERS</b>						If > 10 psig; notify.	
GAC - 1	P10	31	P11	27	P10-P11	0	
GAC - 2	P11	27	P12	24	P11-P12	0	
GAC - 3	P12	24	P13	24	P12-P13	0	
Ion Exchange	P13	24	P14	15	P13-P14	0	

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
3 Wells: GW-2	5.5	412644.2	3980290	-
0 Wells: GW-13	5.3	275322.5	261205.5	-
1 Wells: GW-2/13	10.0	11593933.0	11566574.8	-
0 Wells: GW-15	<del>2.5</del> 3.5	252800.8	243401.5	-
1 Wells: GW-16	4.7	4310722.2	4298027.5	-
0 Wells: GW-15/16	8.7	642023.5	617777.0	-
10 NPDES Discharge	43	63804620	63760085	-

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 11-30-12 TIME: 0835 WEATHER: Cloudy 65

OPERATOR NAME: G. Androsko REVD 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 18*	P3 35	P2-P3 0		
BF2 (Center)	P4 37	P5 24	P4-P5 0		
BF3 (West)	P6 41	P7 39	P6-P7 0		
<b>MYCELX</b> <span style="float: right;">If &gt; 15 psig; change filter</span>					
MX-7 (small)	P8 38	P9 30	P8-P9 0		
MX-21 (large)	P9 30	P10 31	P9-P10 0		
<b>GAC FILTERS</b> <span style="float: right;">If &gt; 10 psig; notify.</span>					
GAC - 1	P10 31	P11 27	P10-P11 0		
GAC - 2	P11 27	P12 24	P11-P12 0		
GAC - 3	P12 24	P13 24	P12-P13 0		
Ion Exchange	P13 24	P14 14	P13-P14 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
8 Wells: GW-2	5.7	427440.0	412644.2	-
8 Wells: GW-13	5.0	288720.0	275322.5	-
0 Wells: GW-2/13	9.9	11620242.5	11593933.0	-
6 Wells: GW-15	3.3	261455.8	252800.8	-
6 Wells: GW-16	4.8	4322996.0	4310722.2	-
5 Wells: GW-15/16	8.4	664817.5	642023.5	-
25 NPDES Discharge	42	638481038	63804620	-

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: M 12-3-12 TIME: 0830 WEATHER: Lt. rain 60°

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 32	P2-P3 0		
BF2 (Center)	P4 38	P5 33	P4-P5 0		
BF3 (West)	P6 42	P7 36	P6-P7 0		
<b>MYCELX</b>					If > 15 psig, change filter
MX-7 (small)	P8 34	P9 25	P8-P9 0		
MX-21 (large)	P9 25	P10 27	P9-P10 0		
<b>GAC FILTERS</b>					If > 10 psig, notify.
GAC - 1	P10 27	P11 23	P10-P11 0		
GAC - 2	P11 23	P12 20	P11-P12 0		
GAC - 3	P12 20	P13 20	P12-P13 0		
Ion Exchange	P13 20	P14 11	P13-P14 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
2 Wells: GW-2	4.9	452303.2	427440.0	-
3 Wells: GW-13	4.8	309725.0	288720.0	-
2 Wells: GW-2/13	10.0	11643184.2	11620242.5	-
2 Wells: GW-15	3.2	274853.2	261455.8	-
8 Wells: GW-16	4.4	4342849.5	4322996.0	-
7 Wells: GW-15/16	8.9	702289.0	664817.5	-
35 NPDES Discharge	38	63917345	63848138	-

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**

Sampled Effluent, after GAC-3 + Surge Tank for 6010 As

DFSP Norwalk

GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION  
MAINTENANCE LOGSHEET

DATE: 12-04-12 TIME: 1341 WEATHER: Cloudy 68°

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 37	P3 30	P2-P3 0		
BF2 (Center)	P4 37	P5 32	P4-P5 0		
BF3 (West)	P6 40	P7 34	P6-P7 0		
<b>MYCELX</b>					If > 15 psig; change filter
MX-7 (small)	P8 35	P9 24	P8-P9 0		
MX-21 (large)	P9 24	P10 25	P9-P10 0		
<b>GAC FILTERS</b>					If > 10 psig; notify.
GAC - 1	P10 25	P11 21	P10-P11 0		
GAC - 2	P11 21	P12 18	P11-P12 0		
GAC - 3	P12 18	P13 18	P12-P13 0		
Ion Exchange	P13 18	P14 12	P13-P14 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells: GW-2	6.0	462821.5	452303.2	-
Wells: GW-13	4.7	318285.0	309725.0	-
Wells: GW-2/13	10.2	11680592.8	11663184.2	-
Wells: GW-15	3.2	280105.0	274853.2	-
Wells: GW-16	4.7	4350815.5	4342849.5	-
Wells: GW-15/16	8.6	717652.0	702289.0	-
NPDES Discharge	38	63946050	63917345	-

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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DFSP Norwalk

GWTS Environmental Compliance / Operation Maintenance Worksheets

DATE: W 12-5-12 TIME: 1015 WEATHER: Cloudy 60°

OPERATOR NAME: G. Androsko REVD 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 38	P3 34	P2-P3 0		
BF2 (Center)	P4 39	P5 35	P4-P5 0		
BF3 (West)	P6 42	P7 38	P6-P7 0		
				If > 15 psig; change filter	
<b>MYCELX</b>					
MX-7 (small)	P8 38	P9 26	P8-P9 0		
MX-21 (large)	P9 26	P10 28	P9-P10 0		
				If > 10 psig; notify.	
<b>GAC FILTERS</b>					
GAC - 1	P10 28	P11 24	P10-P11 0		
GAC - 2	P11 24	P12 22	P11-P12 0		
GAC - 3	P12 22	P13 22	P12-P13 0		
Ion Exchange	P13 22	P14 13	P13-P14 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
3 Wells: GW-2	6.0	469694.4	462821.5	-
8 Wells: GW-13	4.7	323830.5	318285.0	-
7 Wells: GW-2/13	10.0	11692760.0	11680592.8	-
8 Wells: GW-15	3.0	283719.0	280106.0	-
3 Wells: GW-16	4.6	4356424.0	4350815.5	-
0 Wells: GW-15/16	8.0	727627.0	717658.0	-
60 NPDES Discharge	38	63963870	63946050	-

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 12-7-12 TIME: 1325

WEATHER: Sunny 68°

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	38	P5	34	P4-P5	0	
BF3 (West)	P6	41	P7	36	P6-P7	0	
<b>MYCELX</b>						If > 15 psig; change filter	
MX-7 (small)	P8	38	P9	25	P8-P9	0	
MX-21 (large)	P9	25	P10	25	P9-P10	0	
<b>GAC FILTERS</b>						If > 10 psig; notify.	
GAC - 1	P10	25	P11	21	P10-P11	0	
GAC - 2	P11	21	P12	20	P11-P12	0	
GAC - 3	P12	20	P13	19	P12-P13	0	
Ion Exchange	P13	19	P14	8	P13-P14	0	

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
1 Wells: GW-2	6.1	488002.5	469694.4	-
9 Wells: GW-13	5.3	338009.5 <sup>90</sup>	323830.5 <sup>29</sup>	-
0 Wells: GW-2/13	10.0	11723292.0	11692760.0	-
0 Wells: GW-15	2.8	292602.5	283719.0	-
7 Wells: GW-16	4.5	4370568.0	4356439.0	-
0 Wells: GW-15/16	7.9	752173.0	727627.0	-
0 NPDES Discharge	38	640124.0	6386387.0	-

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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DFSP Norwalk

GWTS Environmental Compliance / Operation Maintenance Worksheets

DATE: 12-10-12 TIME: 0821 WEATHER: (CLEAR) SUNNY

OPERATOR NAME: Milton L. Gradillas REVD 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 30	P2-P3 0		
BF2 (Center)	P4 39	P5 31	P4-P5 0		
BF3 (West)	P6 42	P7 34	P6-P7 0		
<b>MYCELX</b>					If > 15 psig; change filter
MX-7 (small)	P8 35	P9 19	P8-P9 0		
MX-21 (large)	P9 19	P10 22	P9-P10 0		
<b>GAC FILTERS</b>					If > 10 psig; notify.
GAC - 1	P10 22	P11 18	P10-P11 0		
GAC - 2	P11 18	P12 15.5	P11-P12 0		
GAC - 3	P12 15.5	P13 16	P12-P13 0		
Ion Exchange	P13 16	P14 7.5	P13-P14 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells: GW-2	6.1	511841.5	488002.5	-
Wells: GW-13	4.8	357249.8	338090.5	-
Wells: GW-2/13	10.1	11763014.5	11723292.0	-
Wells: GW-15	2.8	303649.9	292602.5	-
Wells: GW-16	4.0	4388661.0	4370568.0	-
Wells: GW-15/16	7.5	783100.5	752173.0	-
NPDES Discharge	35	6407560.8	6401261.0	-

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 12-12-12 TIME: 1210 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
				If > 25 psig; change filter	
<b>BAG FILTERS (BF)</b>					
BF1 (East)	P2 40	P3 30	P2-P3 0		
BF2 (Center)	P4 40	P5 31	P4-P5 0		
BF3 (West)	P6 43	P7 36	P6-P7 0		
				If > 15 psig; change filter	
<b>MYCELX</b>					
MX-7 (small)	P8 35	P9 18	P8-P9 0		
MX-21 (large)	P9 18	P10 19	P9-P10 0		
				If > 10 psig; notify.	
<b>GAC FILTERS</b>					
GAC - 1	P10 19	P11 15	P10-P11 0		
GAC - 2	P11 15	P12 14	P11-P12 0		
GAC - 3	P12 14	P13 13	P12-P13 0		
Ion Exchange	P13 13	P14 7	P13-P14 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
0 Wells: GW-2	6.1	530321.2	511841.5	-
4 Wells: GW-13	4.3	370905.2	357249.8	-
0 Wells: GW-2/13	9.9	11793693.5	11763014.5	-
5 Wells: GW-15	2.5	311576.0	303649.9	-
2 Wells: GW-16	4.5	440268.8	4388661.0	-
5 Wells: GW-15/16	7.9	807047.5	783100.5	-
0 NPDES Discharge	33	64122110	64075600.8	-

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 sample for Arsenic



DATE: F 12-14-12 TIME: \_\_\_\_\_ WEATHER: Cloudy 60°

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 35	P3 35	P2-P3 0		
BF2 (Center)	P4 36	P5 36	P4-P5 0		
BF3 (West)	P6 39	P7 39	P6-P7 0		
<b>MYCELX</b> If > 15 psig; change filter					
MX-7 (small)	P8 40	P9 33	P8-P9 0		
MX-21 (large)	P9 33	P10 33	P9-P10 0		
<b>GAC FILTERS</b> If > 10 psig; notify.					
GAC - 1	P10 33	P11 28	P10-P11 0		
GAC - 2	P11 28	P12 24	P11-P12 0		
GAC - 3	P12 24	P13 24	P12-P13 0		
Ion Exchange	P13 24	P14 13	P13-P14 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
7 Wells: GW-2	6.3	548838.5	530321.2	-
5 Wells: GW-13	4.4	383636.2	370905.2	-
7 Wells: GW-2/13	10.0	11823000.0	11793693.5	-
0 Wells: GW-15	2.4	319061.0	311576.0	-
2 Wells: GW-16	4.5	4416173.0	4402652.8	-
8 Wells: GW-15/16	7.7	829970.0	807047.5	-
90 NPDES Discharge	48	64168100	64122110	-

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 BF-1,2,3 and MX-7 filters

DATE: M 12-17-12 TIME: 10:10 WEATHER: Partly Cloudy 62°

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	
<b>BAG FILTERS (BF)</b>					
BF1 (East)	P2 35	P3 34	P2-P3 0		
BF2 (Center)	P4 36	P5 35	P4-P5 0		
BF3 (West)	P6 38	P7 38	P6-P7 0		
				If > 15 psig; change filter	
<b>MYCELX</b>					
MX-7 (small)	P8 40	P9 33	P8-P9 0		
MX-21 (large)	P9 33	P10 33	P9-P10 0		
				If > 10 psig; notify.	
<b>GAC FILTERS</b>					
GAC - 1	P10 33	P11 28	P10-P11 0		
GAC - 2	P11 28	P12 25	P11-P12 0		
GAC - 3	P12 25	P13 24	P12-P13 0		
Ion Exchange	P13 24	P14 14	P13-P14 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
6 Wells: GW-2	6.5	574717.5	548838.5	-
4 Wells: GW-13	4.2	400645.8	383636.2	-
4 Wells: GW-2/13	10.1	11864076.0	11823000.0	-
1.5 Wells: GW-15	2.3	328372.0	319061.0	-
3 Wells: GW-16	4.5	4434474.5	4416173.0	-
8 Wells: GW-15/16	7.5	860980.0	829970.0	-
85 NPDES Discharge	45	6423695 <sup>1025</sup>	64168100	-

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 12-19-12 TIME: 0845 WEATHER: Clear, sunny 40°

OPERATOR NAME: G. Andraso 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 35	P3 35	P2-P3 0		
BF2 (Center)	P4 36	P5 35	P4-P5 0		
BF3 (West)	P6 40	P7 40	P6-P7 0		
<b>MYCELX</b>					If > 15 psig, change filter
MX-7 (small)	P8 40	P9 33	P8-P9 0		
MX-21 (large)	P9 33	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 26	P11-P12 0		
GAC - 3	P12 26	P13 26	P12-P13 0		
Ion Exchange	P13 26	P14 14	P13-P14 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
2 Wells: GW-2	6.5	592703.8	574717.5	-
6 Wells: GW-13	4.1	412027.2	400645.8	-
8 Wells: GW-2/13	10.1	11891841.0	11864076.0	-
9 Wells: GW-15	2.2	334367.5	328372.0	-
3 Wells: GW-16	4.6	4446984.3	4434474.5	-
0 Wells: GW-15/16	7.5	881552.0	860980.0	-
65 NPDES Discharge	44	64272675	64231025	-

NPDES Sample Collection (circle one) MONTHLY, QUARTERLY, ANNUAL, OTHER (specify) \_\_\_\_\_ [If collecting NPDES samples today, record effluent temperature (deg. C) and pH]  
 TEMP 17.5 (degrees, C) pH 7.10 Data collection instrument used (check one):  Horiba U-10 or  Other (please specify) \_\_\_\_\_

**NOTES / DAILY TASK SUMMARY**  
Collected effluent sample @ 0845

DATE: F 12-21-12 TIME: 1330 WEATHER: Sunny 65°

OPERATOR NAME: G. Androsko REVD 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 36	P3 35	P2-P3 0		
BF2 (Center)	P4 35	P5 35	P4-P5 0		
BF3 (West)	P6 38	P7 38	P6-P7 0		
				If > 15 psig; change filter	
<b>MYCELX</b>					
MX-7 (small)	P8 41	P9 34	P8-P9 0		
MX-21 (large)	P9 34	P10 33	P9-P10 0		
				If > 10 psig; notify.	
<b>GAC FILTERS</b>					
GAC - 1	P10 33	P11 29	P10-P11 0		
GAC - 2	P11 29	P12 26	P11-P12 0		
GAC - 3	P12 26	P13 25	P12-P13 0		
Ion Exchange	P13 25	P14 17	P13-P14 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
5 Wells: GW-2	6.5	612976.3	592703.8	-
5 Wells: GW-13	3.9	424345.7	412027.2	-
1 Wells: GW-2/13	9.9	11923293.4	11891841.0	-
2 Wells: GW-15	2.0	340562.5	334367.5	-
4 Wells: GW-16	4.7	4460975.2	4446984.3	-
2 Wells: GW-15/16	7.5	904335.0	881552.0	-
25 NPDES Discharge	44	64318640	64272675	-

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: 12-24-12 TIME: 1015 WEATHER: cloudy (wet) RAIN PREVIOUS NIGHT

OPERATOR NAME: Milton L. GRADILLAS 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 38	P3 36	P2-P3 0		
BF2 (Center)	P4 36	P5 38	P4-P5 0		
BF3 (West)	P6 41	P7 40	P6-P7 0		
If > 15 psig; change filter					
<b>MYCELX</b>					
MX-7 (small)	P8 41	P9 34	P8-P9 0		
MX-21 (large)	P9 34	P10 35	P9-P10 0		
If > 10 psig; notify.					
<b>GAC FILTERS</b>					
GAC - 1	P10 35	P11 30	P10-P11 0		
GAC - 2	P11 30	P12 27	P11-P12 0		
GAC - 3	P12 27	P13 27	P12-P13 0		
Ion Exchange	P13 27	P14 17	P13-P14 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2	6.3	640160.0	612976.3	-	
Wells: GW-13	4.3	440472.0	424345.7	-	
Wells: GW-2/13	9.9	11964125.5	11923293.4	-	
Wells: GW-15	1.9	347997.0	340562.5	-	ADJUSTED OUTLET VALVE 4.0 GPM
Wells: GW-16	4.5	4479256.2	4460975.2	-	
Wells: GW-15/16	7.0	933438.4	904335.0	-	
NPDES Discharge	43	6437800.0	6431864.0	-	

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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Wed. DATE: 12-20-12 TIME: 1130 WEATHER: SUNNY  
 OPERATOR NAME: Milton C Gradillas 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 41	P3 31	P2-P3 0		
BF2 (Center)	P4 41	P5 32	P4-P5 0		
BF3 (West)	P6 45	P7 35	P6-P7 0		
If > 15 psig; change filter					
<b>MYCELX</b>					
MX-7 (small)	P8 37	P9 19	P8-P9 0		
MX-21 (large)	P9 19	P10 19	P9-P10 0		
If > 10 psig; notify.					
<b>GAC FILTERS</b>					
GAC - 1	P10 19	P11 17	P10-P11 0		
GAC - 2	P11 17	P12 13	P11-P12 0		
GAC - 3	P12 13	P13 12.5	P12-P13 0		
Ion Exchange	P13 12.5	P14 7	P13-P14 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells: GW-2	6.5	658910.9	640160.0	-
Wells: GW-13	4.1	452983.5	440472.0	-
Wells: GW-2/13	10.1	11993619.2	11964125.5	-
Wells: GW-15	3.4	358241.9	347997.0	-
Wells: GW-16	4.5	4492253.5	4479256.2	-
Wells: GW-15/16	8.9	960053.0	933438.4	-
NPDES Discharge	17	64428765	6437800.0	-

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: 12-28-12 TIME: 1026 WEATHER: SUNNY

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	38	P3	32	P2-P3	0	
BF2 (Center)	P4	37	P5	35	P4-P5	0	
BF3 (West)	P6	42	P7	36	P6-P7	0	
<b>MYCELX</b>						If > 15 psig; change filter	
MX-7 (small)	P8	37	P9	21	P8-P9	0	
MX-21 (large)	P9	21	P10	21	P9-P10	0	
<b>GAC FILTERS</b>						If > 10 psig; notify.	
GAC - 1	P10	21	P11	17	P10-P11	0	
GAC - 2	P11	17	P12	15	P11-P12	0	
GAC - 3	P12	15	P13	14	P12-P13	0	
Ion Exchange	P13	14	P14	8	P13-P14	0	

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells: GW-2	6.5	676754.0	658910.9	-
Wells: GW-13	4.4	464935.2	452983.5	-
Wells: GW-2/13	10	12021211.8	11993619.2	-
Wells: GW-15	3.6	368243.5	358241.9	-
Wells: GW-16	4.4	4504755.5	4492253.5	-
Wells: GW-15/16	9.3	985668.0	960053.0	-
NPDES Discharge	32	64473895	64428765	-

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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DFSP Norwalk

GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION  
MAINTENANCE LOGSHEET

M DATE: 12.31.12 TIME: 0952 WEATHER: SUNNY 62°

OPERATOR NAME: MITAU L GRADILLAS 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 37	P3 34	P2-P3 0		
BF2 (Center)	P4 39	P5 34	P4-P5 0		
BF3 (West)	P6 41	P7 38	P6-P7 0		
If > 15 psig; change filter					
<b>MYCELX</b>					
MX-7 (small)	P8 38	P9 24	P8-P9 0		
MX-21 (large)	P9 24	P10 25	P9-P10 0		
If > 10 psig; notify.					
<b>GAC FILTERS</b>					
GAC - 1	P10 25	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	P13 17	P14 8	P13-P14 0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)
Wells: GW-2	6.4	704138.0	676754.0	-
Wells: GW-13	4.3	481920.0	464935.2	-
Wells: GW-2/13	9.9	12063006.6	12021211.8	-
Wells: GW-15	3.5	382744.2	368243.5	-
Wells: GW-16	4.4	4523303.7	4504755.5	-
Wells: GW-15/16	9.1	1024172.2	985668.0	-
NPDES Discharge	38	64541740	64473895	-

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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