PARSONS

100 West Walnut Street • Pasadena, California 91124 • (626) 440-2000 • Fax (626) 440-6200 • www.parsons.com

July 31, 2012

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

Re: Transmittal of Second 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, 1,620,296 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 a 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 sample dates and summary of test results are provided in Table 2. A complete set of laboratory reports are provided in Attachment B.

Please note that the GWTS operated continuously during this reporting period with the exception of routine system maintenance and site activities specified as follows. The GWTS was shut down April 9th through April 23rd for groundwater monitoring. The system was shut down approximately one week prior to and during the quarterly groundwater monitoring event conducted in January. Representative samples of treated groundwater were collected from the system effluent and analyzed for compounds as required by the Monitoring and Reporting Program (MRP). The sample dates and summary of test results are provided in Table 2. A complete set of laboratory reports are provided in Attachment B.

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.

SUMMARY OF NON-COMPLIANCE

There were no instances of non-compliance during the period covered by this report.

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 31st day of July 2012, at Pasadena, California.

Sincerely,

Joseph R. Walters, P.E.
Senior Engineer

Redwan Hassan
Project Manager

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

cc: Chris Berthaume, DLA-VA Document Depository
Matthew Young, 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

Tables

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

Date	Outlet Totalizer (gals)	Monthly Flow (gals)	Comments
04/02/12	60,128,625	3,070	GWTS operating normally.GW-2/13 discharge line broken. Repairs pending.
04/04/12	60,156,160	27,535	GWTS operating normally.GW-2/13 back on line at 1400.
04/05/12	60,172,700	16,540	GWTS operating normally. Process sample collected.
04/09/12	60,256,155	83,455	GWTS operating normally with GW-2 pump off (pump malfunctioning). System shut down for quarterly groundwater monitoring.
04/24/12	60,279,335	23,180	GWTS restarted April 23rd. GWTS operating normally with GW-2 pump offline. Replacement pump on order.
04/25/12	60,295,960	16,625	GWTS operating normally. GW-2 pump offline. Replacment on order. Bag filters replaced
04/27/12	60,339,985	44,025	GWTS operating normally. Monthly NPDES compliance sample collected.
04/30/12	60,401,671	61,686	GWTS operating normally. Bag filters replaced.
Apr'12	***276,116***	***276,116***	
05/02/12	60,439,550	37,879	GWTS operating normally. Bag filters replaced. New pump installed in GW-2.
05/04/12	60,479,039	39,489	GWTS operating normally.
05/08/12	60,541,856	62,817	GWTS operating normally. Bag filters replaced.
05/14/12	60,681,290	139,434	GWTS operating normally.
05/16/12	60,725,925	44,635	GWTS operating normally.
05/18/12	60,770,490	44,565	GWTS operating normally. Process sample collected.
05/21/12	60,838,980	68,490	GWTS operating normally.
05/23/12	60,884,785	45,805	GWTS operating normally.
05/24/12	60,913,590	28,805	GWTS operating normally. MX-7 filters replaced.
05/29/12	61,030,700	117,110	GWTS operating normally.
05/31/12	61,076,650	45,950	GWTS operating normally. Quarterly NPDES compliance sample collected.
May'12	***674,979***	***637,100***	
06/01/12	61,104,445	27,795	GWTS operating normally.
06/04/12	61,171,060	66,615	GWTS operating normally.
06/06/12	61,223,628	52,568	GWTS operating normally.
06/07/12	61,242,560	18,932	GWTS operating normally.
06/11/12	61,339,850	97,290	GWTS operating normally.
06/12/12	61,364,111	24,261	GWTS operating normally.
06/15/12	61,435,982	71,871	GWTS operating normally. Process samples collected. Bag filters replaced.
06/18/12	61,508,465	72,483	GWTS operating normally.
06/19/12	61,532,860	24,395	GWTS operating normally.
06/21/12	61,582,450	49,590	GWTS operating normally.
06/22/12	61,606,035	23,585	GWTS operating normally.
06/25/12	61,676,575	70,540	GWTS operating normally.
06/28/12	61,745,851	69,276	GWTS operating normally. Monthly NPDES compliance sample collected.
Jun '12	***669,201***	***669,201***	
Total	**1,620,296**	**1,620,296**	**17612 gpd Average Flow Rate for Quarter**

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 %
04/05/12	Effluent	---	---	---	ND<0.50	ND<0.50	ND<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/27/12	Effluent	7.12	21.1	ND<100	ND<0.50	ND<0.50	ND<10	ND <1.0	0.00119	0.0140	ND <0.00100	ND <0.00500	ND <0.00100	ND <0.050	---	---	---	---	---	---	---	---
05/18/12	Effluent	---	---	---	ND<0.50	ND<0.50	6.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/31/12	Effluent	7.19	23.3	ND<100	ND<0.50	ND<0.50	ND<10	ND <1.0	ND <0.00100	0.0150	ND <0.00100	ND <0.00500	ND <0.00100	0.10	ND <0.050	ND <0.10	ND <1.0	ND <0.10	ND <0.10	ND <0.10	---	---
06/15/12	Effluent	---	---	---	ND<0.50	ND<0.50	ND<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/28/12	Effluent	7.11	23.6	ND<100	ND<0.50	ND<0.50	6.2	ND <1.0	ND <0.00100	0.0275	ND <0.00100	ND <0.00500	ND <0.00100	6.8	---	---	---	---	---	---	---	---
RL		0.01	---	100	0.50	0.50	10	1.0	0.00100	0.00100	0.00100	0.00500	0.00100	0.050	0.050	0.10	1.0	0.10	0.10	0.10	1.0	---
MDL		0.01	---	86	0.26	0.26	5.4	0.77	1.34	3.08			2.95	0.044	0.042	0.04	0.95	0.10	0.089	0.060	0.58	--
Daily Maximum		within 6.5-8.5	100°F (38°C)	100	1	5	12	15	0.02	0.05	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 6010 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

Analytical Laboratory Reports

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-04-0312

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons, Inc.

Client Project Name: DFSP - Norwalk

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

Ranjit K. K. Clarke

Approved for release on 04/12/2012 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

nelac

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

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: DFSP - Norwalk
Work Order Number: 12-04-0312

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 04/05/12
Work Order No: 12-04-0312
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-04-0312-1-A**	**04/05/12 09:35**	**Aqueous**	**GC/MS CC**	**04/06/12**	**04/06/12 15:00**	**120406L01**

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	100	80-126	
1,2-Dichloroethane-d4	92	80-134		Toluene-d8	99	80-120	

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

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 04/05/12
Work Order No: 12-04-0312
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-7,461**	**N/A**	**Aqueous**	**GC/MS CC**	**04/06/12**	**04/06/12 14:04**	**120406L01**

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	98	80-126	
1,2-Dichloroethane-d4	93	80-134		Toluene-d8	98	80-120	

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

Return to Contents

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 04/05/12
Work Order No: 12-04-0312
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 CC**	**04/06/12**	**04/06/12**	**120406S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	109	107	78-120	2	0-20	
Carbon Tetrachloride	50.00	96	96	67-139	0	0-20	
Chlorobenzene	50.00	98	96	80-120	3	0-20	
1,2-Dibromoethane	50.00	96	97	80-123	1	0-20	
1,2-Dichlorobenzene	50.00	99	99	76-120	1	0-20	
1,2-Dichloroethane	50.00	95	94	76-130	1	0-20	
1,1-Dichloroethene	50.00	105	102	70-130	3	0-27	
Ethylbenzene	50.00	104	101	73-127	2	0-20	
Toluene	50.00	104	102	72-126	3	0-20	
Trichloroethene	50.00	101	100	74-122	1	0-20	
Vinyl Chloride	50.00	79	84	65-131	6	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	90	89	69-123	0	0-20	
Tert-Butyl Alcohol (TBA)	250.0	112	105	65-131	6	0-22	
Diisopropyl Ether (DIPE)	50.00	109	109	68-128	0	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	93	95	69-123	2	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	85	88	70-124	4	0-20	
Ethanol	500.0	127	109	41-155	15	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Accredited in accordance with nelac

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

Date Received: N/A
Work Order No: 12-04-0312
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-7,461	**Aqueous**	**GC/MS CC**	**04/06/12**	**04/06/12**	**120406L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	109	111	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	99	101	66-138	54-150	1	0-20	
Chlorobenzene	50.00	97	99	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	97	101	80-120	73-127	4	0-20	
1,2-Dichlorobenzene	50.00	98	98	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	99	98	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	106	108	71-131	61-141	2	0-20	
Ethylbenzene	50.00	104	105	80-123	73-130	1	0-20	
Toluene	50.00	105	104	79-121	72-128	0	0-20	
Trichloroethene	50.00	102	101	80-120	73-127	0	0-20	
Vinyl Chloride	50.00	95	97	70-136	59-147	1	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	90	99	72-126	63-135	10	0-22	
Tert-Butyl Alcohol (TBA)	250.0	99	100	71-125	62-134	1	0-25	
Diisopropyl Ether (DIPE)	50.00	104	108	69-129	59-139	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	99	102	69-129	59-139	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	97	98	67-133	56-144	1	0-20	
Ethanol	500.0	93	89	47-155	29-173	5	0-36	

Total number of LCS compounds : 17
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

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-04-0312

Qualifier	Definition
*	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

Return to Contents

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

☒ 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

WO # / LAB USE ONLY: **12-04-0312**

Date: 4-5-12

Page: 1 of 1

LABORATORY CLIENT: Parsons

ADDRESS: 100 W. Walnut St

CITY: Pasadena STATE: CA ZIP:

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

CLIENT PROJECT NAME / NUMBER: DFSP-Norwalk

P.O. NO.:

PROJECT CONTACT: Mary Lucas / Cindy Zickar

SAMPLER(S): (PRINT) Glenn Andreska

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

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	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]			
1	Effluent	4-5-12	0935	GW	3		3						X													

Relinquished by: (Signature) Glenn Andreska	Received by: (Signature/Affiliation) CEC	Date: 4-5-12 Time: 1115
Relinquished by: (Signature)	Received by: (Signature/Affiliation) CEC	Date: 4/5/12 Time: 12:44
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.

06/01/10 Revision

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-04-0312

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS DATE: 04/5/12

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.4 °C - 0.3 °C (CF) = 2.1 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

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

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

Ambient Temperature: ☐ Air ☐ Filter Initial: AM

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: AM

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: WLC

SAMPLE CONDITION:	Yes	No	N/A
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** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** WLC

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

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:**

Return to Contents

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-04-1733

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons, Inc.

Client Project Name: DFSP Norwalk - Monthly

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

Ranjit K. K. Clarke

Approved for release on 05/4/2012 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

nelac

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: DFSP Norwalk - Monthly
Work Order Number: 12-04-1733

Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons, Inc.	Date Received: 04/27/12
100 West Walnut Street	Work Order No: 12-04-1733
Pasadena, CA 91124-0002	Preparation: EPA 3510C
	Method: EPA 8015B (M)

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-04-1733-1-I**	**04/27/12 09:00**	**Aqueous**	**GC 46**	**04/30/12**	**04/30/12 23:37**	**120430B04**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	105	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-249-969**	**N/A**	**Aqueous**	**GC 46**	**04/30/12**	**04/30/12 22:21**	**120430B04**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	103	68-140	

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons, Inc.		Date Received:	04/27/12
100 West Walnut Street		Work Order No:	12-04-1733
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-04-1733-1-E**	**04/27/12 09:00**	**Aqueous**	**GC 25**	**04/28/12**	**04/28/12 22:51**	**120428B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	66	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-247-5,858**	**N/A**	**Aqueous**	**GC 25**	**04/28/12**	**04/28/12 10:01**	**120428B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	68	38-134	

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 04/27/12
Work Order No: 12-04-1733
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-04-1733-1-A**	**04/27/12 09:00**	**Aqueous**	**GC/MS FFF**	**04/28/12**	**04/28/12 12:17**	**120428L01**

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	85	80-126	
1,2-Dichloroethane-d4	86	80-134		Toluene-d8	98	80-120	

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

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 04/27/12
Work Order No: 12-04-1733
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-7,662**	**N/A**	**Aqueous**	**GC/MS FFF**	**04/28/12**	**04/28/12 11:36**	**120428L01**

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	99	80-120		Dibromofluoromethane	85	80-126	
1,2-Dichloroethane-d4	88	80-134		Toluene-d8	98	80-120	

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

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received:	04/27/12
Work Order No:	12-04-1733
Preparation:	EPA 3020A Total
Method:	EPA 6020
Units:	mg/L

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-04-1733-1-J**	**04/27/12 09:00**	**Aqueous**	**ICP/MS 04**	**04/30/12**	**05/01/12 23:49**	**120430L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.0140	0.00100	1		Selenium	ND	0.00100	1	
Copper	0.00119	0.00100	1		Zinc	ND	0.00500	1	
Lead	ND	0.00100	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-06-003-3,752**	**N/A**	**Aqueous**	**ICP/MS 04**	**04/30/12**	**05/01/12 22:18**	**120430L03**

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 04/27/12
Work Order No: 12-04-1733

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Effluent	**12-04-1733-1**	**04/27/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Turbidity	ND	0.050	1		NTU	N/A	04/27/12	SM 2130 B
pH	7.12	0.01	1		pH units	N/A	04/27/12	SM 4500 H+ B
Oil and Grease	ND	1.0	1		mg/L	05/01/12	05/01/12	SM 5520 B

Method Blank					**N/A**	**Aqueous**		
Parameter	**Results**	**RL**	**DF**	**Qual**	**Units**	**Date Prepared**	**Date Analyzed**	**Method**
Oil and Grease	ND	1.0	1		mg/L	05/01/12	05/01/12	SM 5520 B

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 04/27/12
Work Order No: 12-04-1733
Preparation: EPA 3020A Total
Method: EPA 6020

Project DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-04-1741-1	**Aqueous**	**ICP/MS 04**	**04/30/12**	**05/01/12**	**120430S03**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	4X	4X	73-127	4X	0-11	Q
Copper	0.1000	99	97	72-108	2	0-10	
Lead	0.1000	91	92	79-121	1	0-10	
Selenium	0.1000	74	73	59-125	1	0-12	
Zinc	0.1000	80	80	43-145	0	0-39	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received 04/27/12
Work Order No: 12-04-1733
Preparation: EPA 3020A Total
Method: EPA 6020

Project: DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
12-04-1741-1	**Aqueous**	**ICP/MS 04**	**04/30/12**	**05/01/12**	**120430S03**

Parameter	SPIKE ADDED	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	4X	4X	75-125	4X	0-11	Q
Copper	0.1000	96	95	75-125	1	0-10	
Lead	0.1000	90	90	75-125	0	0-10	
Selenium	0.1000	77	80	75-125	3	0-12	
Zinc	0.1000	85	85	75-125	0	0-39	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons, Inc.		Date Received:	04/27/12
100 West Walnut Street		Work Order No:	12-04-1733
Pasadena, CA 91124-0002		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
12-04-1679-2	**Aqueous**	**GC 25**	**04/28/12**	**04/28/12**	**120428S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2000	85	92	68-122	7	0-18	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 04/27/12
Work Order No: 12-04-1733
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Effluent	**Aqueous**	**GC/MS FFF**	**04/28/12**	**04/28/12**	**120428S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	93	93	78-120	0	0-20	
Carbon Tetrachloride	50.00	87	91	67-139	5	0-20	
Chlorobenzene	50.00	92	92	80-120	0	0-20	
1,2-Dibromoethane	50.00	95	96	80-123	2	0-20	
1,2-Dichlorobenzene	50.00	89	91	76-120	2	0-20	
1,2-Dichloroethane	50.00	91	92	76-130	1	0-20	
1,1-Dichloroethene	50.00	81	81	70-130	0	0-27	
Ethylbenzene	50.00	99	99	73-127	0	0-20	
Toluene	50.00	94	93	72-126	0	0-20	
Trichloroethene	50.00	95	95	74-122	0	0-20	
Vinyl Chloride	50.00	75	75	65-131	1	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	78	78	69-123	0	0-20	
Tert-Butyl Alcohol (TBA)	250.0	135	129	65-131	4	0-22	3
Diisopropyl Ether (DIPE)	50.00	82	82	68-128	0	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	85	86	69-123	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	92	94	70-124	2	0-20	
Ethanol	500.0	88	93	41-155	6	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-04-1733

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	12-04-1711-1	04/27/12	3.0	3.0	2	0-25	
pH	SM 4500 H+ B	12-04-1668-1	04/27/12	3.71	3.74	1	0-25	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-04-1733
Pasadena, CA 91124-0002		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
096-06-003-3,752	**Aqueous**	**ICP/MS 04**	**04/30/12**	**05/01/12**	**120430L03**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	103	103	80-120	0	0-20	
Copper	0.1000	107	108	80-120	1	0-20	
Lead	0.1000	106	106	80-120	0	0-20	
Selenium	0.1000	109	105	80-120	4	0-20	
Zinc	0.1000	107	104	80-120	2	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-04-1733
Pasadena, CA 91124-0002		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
099-12-249-969	**Aqueous**	**GC 46**	**04/30/12**	**04/30/12**	**120430B04**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	4000	107	107	75-117	0	0-13	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-04-1733
Pasadena, CA 91124-0002		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
099-12-247-5,858	**Aqueous**	**GC 25**	**04/28/12**	**04/28/12**	**120428B01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2000	95	96	78-120	1	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-04-1733
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project: DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-7,662	**Aqueous**	**GC/MS FFF**	**04/28/12**	**04/28/12**	**120428L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	97	94	80-120	73-127	4	0-20	
Carbon Tetrachloride	50.00	93	91	66-138	54-150	1	0-20	
Chlorobenzene	50.00	95	93	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	96	96	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	50.00	92	91	80-120	73-127	0	0-20	
1,2-Dichloroethane	50.00	92	91	80-129	72-137	2	0-20	
1,1-Dichloroethene	50.00	98	81	71-131	61-141	19	0-20	
Ethylbenzene	50.00	105	101	80-123	73-130	3	0-20	
Toluene	50.00	99	95	79-121	72-128	4	0-20	
Trichloroethene	50.00	102	97	80-120	73-127	4	0-20	
Vinyl Chloride	50.00	78	74	70-136	59-147	6	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	78	81	72-126	63-135	3	0-22	
Tert-Butyl Alcohol (TBA)	250.0	98	97	71-125	62-134	1	0-25	
Diisopropyl Ether (DIPE)	50.00	83	80	69-129	59-139	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	87	85	69-129	59-139	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	94	93	67-133	56-144	1	0-20	
Ethanol	500.0	71	89	47-155	29-173	22	0-36	

Total number of LCS compounds : 17
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

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-04-1733

Project: DFSP Norwalk - Monthly

Matrix: Aqueous or Solid

Parameter	Method	Quality Control Sample ID	Date Extracted	Date Analyzed	LCS % REC	LCSD % REC	%REC CL	RPD	RPD CL	Qual
Oil and Grease	SM 5520 B	099-05-081-2,845	05/01/12	05/01/12	96	95	80-120	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 12-04-1733

Qualifier	Definition
*	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

Return to Contents

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: F 4-27-12

PAGE: 1 OF 1

LABORATORY CLIENT: Parsons, Inc.

100 W. Walnut Street

CITY: Paasadena, CA 91124

TEL: | FAX: | E-MAIL

CLIENT PROJECT NAME / NUMBER: DFSP Norwalk - Monthly

PROJECT CONTACT: Mary Lucas / Cindy Zicker

SAMPLER(S): (SIGNATURE) Glenn Andrusko

P.O. NO.:

QUOTE NO.:

LAB USE ONLY 12-04-1733

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☒ 5 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT.	Turbidity (SM 2130B)	Oil & Grease (SM 5520B)	pH (SM 4500 H+B)	TPH-Diesel/Gas (EPA 8015B(M))	VOCs + Oxys (EPA 8260B)	Metals (EPA 6020: As,Cu,Se,Pb,Zn)						Comments
1	Effluent		4-27-12	0900	W	10	X	X	X	X	X	X						

Relinquished by: (Signature) Glenn Andrusko	Received by: (Signature) Arthur Young	Date: 4-27-12	Time: 11:25
Relinquished by: (Signature)	Received by: (Signature) Penny A. Ng	Date: 4/27/12	Time: 16:22
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Revised: 08/28/08

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-04-1733

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: DFSP NORWALK - PARSONS INC. DATE: 04/27/12

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.4 °C - 0.3 °C (CF) = 2.1 °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: AY

CUSTODY SEALS INTACT:

☐ Cooler	☐_____	☐ No (Not Intact)	☑ Not Present	☐ N/A	Initial: AY
☐ Sample	☐_____	☐ No (Not Intact)	☑ Not Present		Initial:

SAMPLE CONDITION:	Yes	No	N/A
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** (6) ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☑1AGB**s**

☐500AGB ☑500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☑500PB

☐250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:**

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

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:**

Return to Contents

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-05-1382

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. K. Clarke

Approved for release on 05/24/2012 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

nelac

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

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: DFSP - Norwalk
Work Order Number: 12-05-1382

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 05/18/12
Work Order No: 12-05-1382
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-05-1382-1-B**	**05/18/12 09:50**	**Aqueous**	**GC/MS Q**	**05/23/12**	**05/23/12 18:25**	**120523L01**

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)	6.9	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	99	80-120		Dibromofluoromethane	107	80-126	
1,2-Dichloroethane-d4	106	80-134		Toluene-d8	100	80-120	

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

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 05/18/12
Work Order No: 12-05-1382
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-7,864**	**N/A**	**Aqueous**	**GC/MS Q**	**05/23/12**	**05/23/12 14:11**	**120523L01**

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	105	80-126	
1,2-Dichloroethane-d4	104	80-134		Toluene-d8	100	80-120	

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

Return to Contents

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 05/18/12
Work Order No: 12-05-1382
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-05-1359-1	**Aqueous**	**GC/MS Q**	**05/23/12**	**05/23/12**	**120523S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	109	109	78-120	0	0-20	
Carbon Tetrachloride	50.00	108	109	67-139	1	0-20	
Chlorobenzene	50.00	102	103	80-120	1	0-20	
1,2-Dibromoethane	50.00	102	104	80-123	2	0-20	
1,2-Dichlorobenzene	50.00	97	100	76-120	2	0-20	
1,2-Dichloroethane	50.00	112	111	76-130	2	0-20	
1,1-Dichloroethene	50.00	93	95	70-130	2	0-27	
Ethylbenzene	50.00	105	105	73-127	0	0-20	
Toluene	50.00	111	111	72-126	1	0-20	
Trichloroethene	50.00	108	106	74-122	2	0-20	
Vinyl Chloride	50.00	111	112	65-131	0	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	101	103	69-123	2	0-20	
Tert-Butyl Alcohol (TBA)	250.0	98	94	65-131	4	0-22	
Diisopropyl Ether (DIPE)	50.00	105	106	68-128	1	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	109	110	69-123	0	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	106	109	70-124	3	0-20	
Ethanol	500.0	81	84	41-155	3	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-05-1382
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-7,864	**Aqueous**	**GC/MS Q**	**05/23/12**	**05/23/12**	**120523L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	108	108	80-120	73-127	0	0-20	
Carbon Tetrachloride	50.00	110	108	66-138	54-150	2	0-20	
Chlorobenzene	50.00	103	101	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	102	102	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	98	100	80-120	73-127	2	0-20	
1,2-Dichloroethane	50.00	109	109	80-129	72-137	0	0-20	
1,1-Dichloroethene	50.00	95	93	71-131	61-141	2	0-20	
Ethylbenzene	50.00	105	103	80-123	73-130	2	0-20	
Toluene	50.00	110	110	79-121	72-128	1	0-20	
Trichloroethene	50.00	107	105	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	114	113	70-136	59-147	1	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	102	103	72-126	63-135	0	0-22	
Tert-Butyl Alcohol (TBA)	250.0	96	97	71-125	62-134	1	0-25	
Diisopropyl Ether (DIPE)	50.00	107	105	69-129	59-139	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	111	111	69-129	59-139	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	106	109	67-133	56-144	2	0-20	
Ethanol	500.0	88	93	47-155	29-173	6	0-36	

Total number of LCS compounds : 17
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

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 12-05-1382

Qualifier	Definition
*	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

Return to Contents

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

☒ 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

WO # / LAB USE ONLY
12-05-1382

Date 5-18-12

Page 1 of 1

LABORATORY CLIENT: Parsons

ADDRESS: 100 W. Walnut St

CITY: Pasadena STATE: CA ZIP:

TEL: E-MAIL:

CLIENT PROJECT NAME / NUMBER: DFSP- Norwalk

P.O. NO.:

PROJECT CONTACT: Mary Lucas/Cindy Zicker

SAMPLER(S): (PRINT) Glenn Androsko

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

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	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]
1	Effluent	5-18-12	0950	GW	3		3						X										

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature/Affiliation) CEL	Date: 5-18-12	Time: 1150
Relinquished by: (Signature)	Received by: (Signature/Affiliation) CEL	Date: 5/18/12	Time: 13:24
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.

06/01/10 Revision

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-05-1 3 8 2

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Parsons DATE: 05/18/12

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.5 °C - 0.3 °C (CF) = 2.2 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

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

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

Ambient Temperature: ☐ Air ☐ Filter Initial: AM

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: AM

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: WS

SAMPLE CONDITION:	Yes	No	N/A
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 ☑VOAh ☐VOA**na$_2$** ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** WS

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

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** JL

Return to Contents

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-05-2080

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons Government Services, Inc.

Client Project Name: DFSP Norwalk - Quarterly

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

Ranjit K. K. Clarke

Approved for release on 06/7/2012 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 defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: DFSP Norwalk - Quarterly
Work Order Number: 12-05-2080

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received:	05/31/12
Work Order No:	12-05-2080
Preparation:	EPA 3510C
Method:	EPA 8015B (M)

Project: DFSP Norwalk - Quarterly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-05-2080-1-J**	**05/31/12 10:20**	**Aqueous**	**GC 46**	**06/01/12**	**06/01/12 16:39**	**120601B05**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
n-Octacosane	96	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-249-981**	**N/A**	**Aqueous**	**GC 46**	**06/01/12**	**06/01/12 15:54**	**120601B05**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
n-Octacosane	94	68-140	

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.	Date Received: 05/31/12
100 West Walnut Street	Work Order No: 12-05-2080
Pasadena, CA 91124-0002	Preparation: EPA 5030C
	Method: EPA 8015B (M)

Project: DFSP Norwalk - Quarterly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-05-2080-1-E**	**05/31/12 10:20**	**Aqueous**	**GC 22**	**06/01/12**	**06/02/12 02:39**	**120601B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	80	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-247-5,934**	**N/A**	**Aqueous**	**GC 22**	**06/01/12**	**06/01/12 12:36**	**120601B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	83	38-134	

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 05/31/12
Work Order No: 12-05-2080
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP Norwalk - Quarterly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-05-2080-1-A**	**05/31/12 10:20**	**Aqueous**	**GC/MS Q**	**06/01/12**	**06/02/12 05:15**	**120601L03**

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	0.76	5.0	0.64	1	B,J
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	99	80-120		Dibromofluoromethane	112	80-126	
1,2-Dichloroethane-d4	105	80-134		Toluene-d8	102	80-120	

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

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 05/31/12
Work Order No: 12-05-2080
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP Norwalk - Quarterly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-7,946**	**N/A**	**Aqueous**	**GC/MS Q**	**06/01/12**	**06/02/12 02:27**	**120601L03**

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	3.0	5.0	0.64	1	J
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	99	80-120		Dibromofluoromethane	113	80-126	
1,2-Dichloroethane-d4	107	80-134		Toluene-d8	102	80-120	

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

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 05/31/12
Work Order No: 12-05-2080
Preparation: EPA 3020A Total
Method: EPA 6020
Units: mg/L

Project: DFSP Norwalk - Quarterly

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-05-2080-1-H**	**05/31/12 10:20**	**Aqueous**	**ICP/MS 05**	**06/01/12**	**06/01/12 19:51**	**120601L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.0150	0.00100	1		Selenium	ND	0.00100	1	
Copper	ND	0.00100	1		Zinc	ND	0.00500	1	
Lead	ND	0.00100	1						

Method Blank	**096-06-003-3,783**	**N/A**	**Aqueous**	**ICP/MS 05**	**06/01/12**	**06/01/12 20:00**	**120601L03**

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 05/31/12
Work Order No: 12-05-2080

Project: DFSP Norwalk - Quarterly

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Effluent	**12-05-2080-1**	**05/31/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	ND	0.10	1		mg/L	06/01/12	06/01/12	EPA 420.1
Turbidity	0.10	0.050	1		NTU	N/A	05/31/12	SM 2130 B
Solids, Total Suspended	ND	1.0	1		mg/L	05/31/12	05/31/12	SM 2540 D
Solids, Settleable	ND	0.10	1		mL/L/hr	06/01/12	06/01/12	SM 2540 F
pH	7.19	0.01	1		pH units	N/A	05/31/12	SM 4500 H+ B
Sulfide, Total	ND	0.050	1		mg/L	05/31/12	05/31/12	SM 4500 S2 - D
Chlorine, Total Residual	ND	0.10	1		mg/L	N/A	05/31/12	SM 4500-Cl F
Oil and Grease	ND	1.0	1		mg/L	06/01/12	06/01/12	SM 5520 B
MBAS	ND	0.10	1		mg/L	05/31/12	05/31/12	SM 5540C

Method Blank					**N/A**	**Aqueous**		

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	ND	0.10	1		mg/L	06/01/12	06/01/12	EPA 420.1
Solids, Total Suspended	ND	1.0	1		mg/L	05/31/12	05/31/12	SM 2540 D
Sulfide, Total	ND	0.050	1		mg/L	05/31/12	05/31/12	SM 4500 S2 - D
Chlorine, Total Residual	ND	0.10	1		mg/L	N/A	05/31/12	SM 4500-Cl F
Oil and Grease	ND	1.0	1		mg/L	06/01/12	06/01/12	SM 5520 B
MBAS	ND	0.10	1		mg/L	05/31/12	05/31/12	SM 5540C

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 05/31/12
Work Order No: 12-05-2080
Preparation: EPA 3005A Filt.
Method: EPA 6020

Project DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-05-2056-1	**Aqueous**	**ICP/MS 05**	**06/01/12**	**06/01/12**	**120601S03**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	ND	0.1000	0.09934	99	0.09327	93	73-127	6	0-11	
Copper	0.001042	0.1000	0.1049	104	0.1054	104	72-108	0	0-10	
Lead	ND	0.1000	0.1074	107	0.1089	109	79-121	1	0-10	
Selenium	0.001449	0.1000	0.09587	94	0.08589	84	59-125	11	0-12	
Zinc	0.01849	0.1000	0.09545	77	0.1035	85	43-145	8	0-39	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received	05/31/12
100 West Walnut Street		Work Order No:	12-05-2080
Pasadena, CA 91124-0002		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
12-05-2056-1	**Aqueous**	**ICP/MS 05**	**06/01/12**	**06/01/12**	**120601S03**

Parameter	SAMPLE CONC	SPIKE ADDED	PDS CONC	PDS %REC	PDSD CONC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	ND	0.1000	0.09682	97	0.09847	98	75-125	2	0-11	
Copper	0.001042	0.1000	0.1085	107	0.1053	104	75-125	3	0-10	
Lead	ND	0.1000	0.1074	107	0.1064	106	75-125	1	0-10	
Selenium	0.001449	0.1000	0.09567	94	0.09555	94	75-125	0	0-12	
Zinc	0.01849	0.1000	0.1115	93	0.1073	89	75-125	4	0-39	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 05/31/12
Work Order No: 12-05-2080
Preparation: N/A
Method: SM 5540C

Project DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-05-2010-1	**Aqueous**	**UV 8**	**05/31/12**	**05/31/12**	**C0531SURS1**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
MBAS	ND	1.0	0.94	94	0.95	95	70-130	1	0-25	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 05/31/12
Work Order No: 12-05-2080
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-05-1931-1	**Aqueous**	**GC 22**	**06/01/12**	**06/01/12**	**120601S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	2000	1495	75	1667	83	68-122	11	0-18	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 05/31/12
Work Order No: 12-05-2080
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-05-2101-2	**Aqueous**	**GC/MS Q**	**06/01/12**	**06/02/12**	**120601S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	52.16	104	52.88	106	78-120	1	0-20	
Carbon Tetrachloride	ND	50.00	59.56	119	61.54	123	67-139	3	0-20	
Chlorobenzene	ND	50.00	55.91	112	57.09	114	80-120	2	0-20	
1,2-Dibromoethane	ND	50.00	53.84	108	53.43	107	80-123	1	0-20	
1,2-Dichlorobenzene	ND	50.00	50.88	102	50.92	102	76-120	0	0-20	
1,2-Dichloroethane	ND	50.00	55.15	110	55.28	111	76-130	0	0-20	
1,1-Dichloroethene	ND	50.00	44.06	88	44.57	89	70-130	1	0-27	
Ethylbenzene	ND	50.00	55.35	111	55.45	111	73-127	0	0-20	
Toluene	ND	50.00	58.15	116	58.40	117	72-126	0	0-20	
Trichloroethene	ND	50.00	55.15	110	56.39	113	74-122	2	0-20	
Vinyl Chloride	ND	50.00	52.00	104	53.25	107	65-131	2	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	50.38	101	50.13	100	69-123	1	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	304.7	122	302.1	121	65-131	1	0-22	
Diisopropyl Ether (DIPE)	ND	50.00	48.42	97	49.12	98	68-128	1	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	53.19	106	54.12	108	69-123	2	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	52.46	105	52.79	106	70-124	1	0-20	
Ethanol	ND	500.0	461.6	92	457.1	91	41-155	1	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-05-2080

Project: DFSP Norwalk - Quarterly

Matrix: Aqueous or Solid

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Chlorine, Total Residual	SM 4500-Cl F	12-05-2071-1	05/31/12	ND	ND	NA	0-25	
Turbidity	SM 2130 B	12-05-2003-1	05/31/12	0.60	0.61	2	0-25	
pH	SM 4500 H+ B	12-05-2043-11	05/31/12	9.41	9.41	0	0-25	
Sulfide, Total	SM 4500 S2 - D	12-05-2010-1	05/31/12	ND	ND	NA	0-25	
Solids, Total Suspended	SM 2540 D	12-05-2085-1	05/31/12	261	243	7	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-05-2080
Pasadena, CA 91124-0002		Preparation:	EPA 3020A Total
		Method:	EPA 6020

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-06-003-3,783	**Aqueous**	**ICP/MS 05**	**06/01/12**	**06/01/12**	**120601L03**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	0.09506	95	0.09422	94	80-120	1	0-20	
Copper	0.1000	0.09912	99	0.1005	101	80-120	1	0-20	
Lead	0.1000	0.09728	97	0.09782	98	80-120	1	0-20	
Selenium	0.1000	0.09445	94	0.09516	95	80-120	1	0-20	
Zinc	0.1000	0.09403	94	0.09328	93	80-120	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-05-2080
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	EPA 420.1

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-085-2,529	**Aqueous**	**UV 2**	**06/01/12**	**06/01/12**	**C0601PHEL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenolics, Total	0.50	0.48	96	0.48	96	80-120	0	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-05-2080
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	SM 5540C

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-093-2,362	**Aqueous**	**UV 8**	**05/31/12**	**05/31/12**	**C0531SURL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
MBAS	1.0	0.96	96	0.95	95	80-120	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-05-2080
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	SM 5520 B

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-081-2,850	**Aqueous**	**N/A**	**06/01/12**	**06/01/12**	**C0601OGL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Oil and Grease	40.0	38.2	96	38.4	96	80-120	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-05-2080
Pasadena, CA 91124-0002		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-249-981	**Aqueous**	**GC 46**	**06/01/12**	**06/01/12**	**120601B05**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	4000	4343	109	3828	96	75-117	13	0-13	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-05-2080
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-12-247-5,934	**Aqueous**	**GC 22**	**06/01/12**	**12060104**	**120601B01**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
TPH as Gasoline	2000	1620	81	78-120	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-05-2080
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-7,946	**Aqueous**	**GC/MS Q**	**06/01/12**	**06/02/12**	**120601L03**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	51.57	103	52.29	105	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	58.52	117	60.49	121	66-138	54-150	3	0-20	
Chlorobenzene	50.00	55.79	112	56.66	113	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	53.69	107	54.17	108	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	50.69	101	51.15	102	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	54.30	109	54.12	108	80-129	72-137	0	0-20	
1,1-Dichloroethene	50.00	44.15	88	44.54	89	71-131	61-141	1	0-20	
Ethylbenzene	50.00	54.82	110	55.70	111	80-123	73-130	2	0-20	
Toluene	50.00	57.89	116	58.27	117	79-121	72-128	1	0-20	
Trichloroethene	50.00	54.96	110	56.53	113	80-120	73-127	3	0-20	
Vinyl Chloride	50.00	52.73	105	53.02	106	70-136	59-147	1	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	49.75	100	50.75	101	72-126	63-135	2	0-22	
Tert-Butyl Alcohol (TBA)	250.0	263.4	105	249.5	100	71-125	62-134	5	0-25	
Diisopropyl Ether (DIPE)	50.00	48.03	96	49.26	99	69-129	59-139	3	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	53.83	108	54.74	109	69-129	59-139	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	52.57	105	52.79	106	67-133	56-144	0	0-20	
Ethanol	500.0	469.2	94	461.3	92	47-155	29-173	2	0-36	

Total number of LCS compounds : 17
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

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 12-05-2080

Qualifier	Definition
*	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

Return to Contents

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 5-31-12

PAGE: 1 OF 1

LABORATORY CLIENT: Parsons, Inc.

100 W. Walnut Street

CITY: Paasadena, CA 91124

TEL: FAX: E-MAIL:

CLIENT PROJECT NAME / NUMBER: DFSP Norwalk - Quarterly

PROJECT CONTACT: Mary Lucas / Cindy Zicker

SAMPLER(S): (SIGNATURE) Glenn Andrusko [signature]

P.O. NO.:

QUOTE NO.:

LAB USE ONLY: 12-05-2080

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☒ 5 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT.	Turbidity (SM 2130B)	Oil & Grease (SM 5520B)	pH (SM 4500 H+B)	TPH-Diesel/Gas (EPA 8015B(M))	VOCs + Oxys(EPA 8260B)	Metals (EPA 6020: As,Cu,Se,Pb,Zn)	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)	MBAS (SM 5540C)	Comments
1	Effluent		5-31-12	1020	W	14	X	X	X	X	X	X	X	X	X	X	X	X	

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Glenn Andrusko [signature]	[signature] CEL	5-31-12	1310
[signature]	[signature] CEL	5/31/12	14:10

Revised: 08/28/08

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-05-2080

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS DATE: 05/31/12

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.3 °C - 0.3 °C (CF) = 2.0 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

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

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

Ambient Temperature: ☐ Air ☐ Filter Initial: AM

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: AM

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: TS

SAMPLE CONDITION:	Yes	No	N/A
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 ☑6 VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☑1AGB**s**

☐500AGB ☑500AGJ ☑500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☑3 1PB ☐1PB**na** ☐500PB

☐250PB ☑250PB**n** ☐125PB ☑125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** TS

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

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** DC

Return to Contents

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-06-1099

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. K. Clarke

Approved for release on 06/22/2012 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

nelac

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

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: DFSP - Norwalk
Work Order Number: 12-06-1099

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 06/15/12
Work Order No: 12-06-1099
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-06-1099-1-A**	**06/15/12 09:05**	**Aqueous**	**GC/MS LL**	**06/18/12**	**06/18/12 23:40**	**120618L01**

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	87	80-120		Dibromofluoromethane	104	80-126	
1,2-Dichloroethane-d4	103	80-134		Toluene-d8	99	80-120	

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

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 06/15/12
Work Order No: 12-06-1099
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-8,079**	**N/A**	**Aqueous**	**GC/MS LL**	**06/18/12**	**06/18/12 15:51**	**120618L01**

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	91	80-120		Dibromofluoromethane	101	80-126	
1,2-Dichloroethane-d4	98	80-134		Toluene-d8	97	80-120	

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

Return to Contents

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 06/15/12
Work Order No: 12-06-1099
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-06-1226-1	**Aqueous**	**GC/MS LL**	**06/18/12**	**06/18/12**	**120618S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	49.45	99	49.94	100	78-120	1	0-20	
Carbon Tetrachloride	ND	50.00	51.83	104	51.25	103	67-139	1	0-20	
Chlorobenzene	ND	50.00	52.86	106	51.78	104	80-120	2	0-20	
1,2-Dibromoethane	ND	50.00	48.25	97	46.23	92	80-123	4	0-20	
1,2-Dichlorobenzene	ND	50.00	49.03	98	49.86	100	76-120	2	0-20	
1,2-Dichloroethane	ND	50.00	49.01	98	48.43	97	76-130	1	0-20	
1,1-Dichloroethene	ND	50.00	43.03	86	42.17	84	70-130	2	0-27	
Ethylbenzene	ND	50.00	55.74	111	53.97	108	73-127	3	0-20	
Toluene	ND	50.00	51.13	102	50.65	101	72-126	1	0-20	
Trichloroethene	ND	50.00	49.94	100	50.73	101	74-122	2	0-20	
Vinyl Chloride	ND	50.00	49.97	100	50.37	101	65-131	1	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	42.70	85	43.01	86	69-123	1	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	275.7	110	272.1	109	65-131	1	0-22	
Diisopropyl Ether (DIPE)	ND	50.00	47.02	94	46.80	94	68-128	0	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	47.43	95	48.03	96	69-123	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	48.63	97	50.64	101	70-124	4	0-20	
Ethanol	ND	500.0	447.5	90	519.1	104	41-155	15	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-06-1099
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-8,079	**Aqueous**	**GC/MS LL**	**06/18/12**	**06/18/12**	**120618L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	49.32	99	47.28	95	80-120	73-127	4	0-20	
Carbon Tetrachloride	50.00	51.78	104	49.28	99	66-138	54-150	5	0-20	
Chlorobenzene	50.00	52.70	105	49.94	100	80-120	73-127	5	0-20	
1,2-Dibromoethane	50.00	48.68	97	45.50	91	80-120	73-127	7	0-20	
1,2-Dichlorobenzene	50.00	50.02	100	47.61	95	80-120	73-127	5	0-20	
1,2-Dichloroethane	50.00	47.16	94	45.55	91	80-129	72-137	3	0-20	
1,1-Dichloroethene	50.00	42.53	85	41.48	83	71-131	61-141	2	0-20	
Ethylbenzene	50.00	56.90	114	52.46	105	80-123	73-130	8	0-20	
Toluene	50.00	50.45	101	48.48	97	79-121	72-128	4	0-20	
Trichloroethene	50.00	49.83	100	48.72	97	80-120	73-127	2	0-20	
Vinyl Chloride	50.00	50.70	101	49.02	98	70-136	59-147	3	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	42.70	85	41.46	83	72-126	63-135	3	0-22	
Tert-Butyl Alcohol (TBA)	250.0	288.3	115	276.9	111	71-125	62-134	4	0-25	
Diisopropyl Ether (DIPE)	50.00	47.28	95	45.32	91	69-129	59-139	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	47.99	96	46.95	94	69-129	59-139	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	51.43	103	48.19	96	67-133	56-144	7	0-20	
Ethanol	500.0	455.9	91	488.0	98	47-155	29-173	7	0-36	

Total number of LCS compounds : 17
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

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 12-06-1099

Qualifier	Definition
*	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

Return to Contents

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

☒ 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

WO # / LAB USE ONLY: **12-06-1099**

Date 6-15-12

Page 1 of 1

LABORATORY CLIENT: Parsons

ADDRESS: 100 W. Walnut St

CITY: Pasadena STATE: CA ZIP:

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

CLIENT PROJECT NAME / NUMBER: DFSP-Norwalk

P.O. NO.:

PROJECT CONTACT: Mary Lucas / Cindy Zicker

SAMPLER(S): (PRINT) Glenn Androsko

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

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	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]			
1	Effluent	6-15-12	0905	GW	3		3						X													

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature/Affiliation) CEL	Date: 6-15-12 Time: 11:45 AM
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 6/15/12 Time: 1208
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.

06/01/10 Revision

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-06-1 0 9 9

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS

DATE: 06/15/12

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.3 °C - 0.3 °C (CF) = 2.0 °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: DCE

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: DCE

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: RS

SAMPLE CONDITION:	Yes	No	N/A
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** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** N

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

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:**

Return to Contents

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-06-1917

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

Ranjit K. K. Clarke

Approved for release on 07/6/2012 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

nelac

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

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: DFSP Norwalk - Monthly
Work Order Number: 12-06-1917

Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.		Date Received:	06/28/12
100 West Walnut Street		Work Order No:	12-06-1917
Pasadena, CA 91124-0002		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-06-1917-1-G**	**06/28/12 09:55**	**Aqueous**	**GC 45**	**07/02/12**	**07/03/12 01:51**	**120702B03**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
n-Octacosane	85	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-282-13**	**N/A**	**Aqueous**	**GC 45**	**07/02/12**	**07/03/12 00:50**	**120702B03**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
n-Octacosane	85	68-140	

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.		Date Received:	06/28/12
100 West Walnut Street		Work Order No:	12-06-1917
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-06-1917-1-C**	**06/28/12 09:55**	**Aqueous**	**GC 25**	**06/28/12**	**06/28/12 19:29**	**120628B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	85	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-247-6,008**	**N/A**	**Aqueous**	**GC 25**	**06/28/12**	**06/28/12 12:36**	**120628B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	90	38-134	

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 06/28/12
Work Order No: 12-06-1917
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-06-1917-1-D**	**06/28/12 09:55**	**Aqueous**	**GC/MS W**	**06/28/12**	**06/29/12 01:29**	**120628L02**

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)	6.2	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	110	80-126	
1,2-Dichloroethane-d4	112	80-134		Toluene-d8	102	80-120	

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

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 06/28/12
Work Order No: 12-06-1917
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-8,177**	**N/A**	**Aqueous**	**GC/MS W**	**06/28/12**	**06/29/12 00:32**	**120628L02**

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	111	80-134		Toluene-d8	102	80-120	

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

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 06/28/12
Work Order No: 12-06-1917
Preparation: EPA 3020A Total
Method: EPA 6020
Units: mg/L

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-06-1917-1-H**	**06/28/12 09:55**	**Aqueous**	**ICP/MS 05**	**06/29/12**	**06/29/12 18:01**	**120629L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.0275	0.00100	1		Selenium	ND	0.00100	1	
Copper	ND	0.00100	1		Zinc	ND	0.00500	1	
Lead	ND	0.00100	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-06-003-3,814**	**N/A**	**Aqueous**	**ICP/MS 05**	**06/29/12**	**06/29/12 17:02**	**120629L02**

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 06/28/12
Work Order No: 12-06-1917

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Effluent	**12-06-1917-1**	**06/28/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Turbidity	6.8	0.10	1		NTU	N/A	06/28/12	SM 2130 B
pH	7.11	0.01	1		pH units	N/A	06/28/12	SM 4500 H+ B
Oil and Grease	ND	1.0	1		mg/L	07/05/12	07/05/12	SM 5520 B

Method Blank					**N/A**	**Aqueous**		
Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Oil and Grease	ND	1.0	1		mg/L	07/05/12	07/05/12	SM 5520 B

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 06/28/12
Work Order No: 12-06-1917
Preparation: EPA 3020A Total
Method: EPA 6020

Project DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-06-1948-1	**Aqueous**	**ICP/MS 05**	**06/29/12**	**06/29/12**	**120629S02**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.002327	0.1000	0.1014	99	0.1028	100	73-127	1	0-11	
Copper	0.05327	0.1000	0.1253	72	0.1228	69	72-108	2	0-10	3
Lead	0.004551	0.1000	0.1189	114	0.1170	112	79-121	2	0-10	
Selenium	0.004106	0.1000	0.09590	92	0.09782	94	59-125	2	0-12	
Zinc	0.07098	0.1000	0.1604	89	0.1623	91	43-145	1	0-39	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received	06/28/12
100 West Walnut Street		Work Order No:	12-06-1917
Pasadena, CA 91124-0002		Preparation:	EPA 3020A Total
		Method:	EPA 6020

Project DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
12-06-1948-1	**Aqueous**	**ICP/MS 05**	**06/29/12**	**06/29/12**	**120629S02**

Parameter	SAMPLE_CONC	SPIKE_ADDED	PDS_CONC	PDS %REC	%REC CL	Qualifiers
Arsenic	0.002327	0.1000	0.09480	92	75-125	
Copper	0.05327	0.1000	0.1562	103	75-125	
Lead	0.004551	0.1000	0.1166	112	75-125	
Selenium	0.004106	0.1000	0.08744	83	75-125	
Zinc	0.07098	0.1000	0.1511	80	75-125	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.	Date Received: 06/28/12
100 West Walnut Street	Work Order No: 12-06-1917
Pasadena, CA 91124-0002	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
12-06-1840-1	**Aqueous**	**GC 25**	**06/28/12**	**06/28/12**	**120628S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	2000	1822	91	1973	99	68-122	8	0-18	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 06/28/12
Work Order No: 12-06-1917
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Effluent	**Aqueous**	**GC/MS W**	**06/28/12**	**06/29/12**	**120628S02**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	57.45	115	56.44	113	78-120	2	0-20	
Carbon Tetrachloride	ND	50.00	50.23	100	51.59	103	67-139	3	0-20	
Chlorobenzene	ND	50.00	56.01	112	55.59	111	80-120	1	0-20	
1,2-Dibromoethane	ND	50.00	55.00	110	55.48	111	80-123	1	0-20	
1,2-Dichlorobenzene	ND	50.00	56.85	114	56.49	113	76-120	1	0-20	
1,2-Dichloroethane	ND	50.00	57.85	116	57.29	115	76-130	1	0-20	
1,1-Dichloroethene	ND	50.00	57.52	115	57.75	116	70-130	0	0-27	
Ethylbenzene	ND	50.00	56.69	113	56.22	112	73-127	1	0-20	
Toluene	ND	50.00	57.04	114	56.12	112	72-126	2	0-20	
Trichloroethene	ND	50.00	55.32	111	53.98	108	74-122	2	0-20	
Vinyl Chloride	ND	50.00	55.83	112	55.27	111	65-131	1	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	47.76	96	48.39	97	69-123	1	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	220.3	88	206.3	83	65-131	7	0-22	
Diisopropyl Ether (DIPE)	ND	50.00	53.82	108	54.24	108	68-128	1	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	51.07	102	51.37	103	69-123	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	49.10	98	49.13	98	70-124	0	0-20	
Ethanol	ND	500.0	748.8	150	718.6	144	41-155	4	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-06-1917

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	06/28/12	6.8	6.8	0	0-25	
pH	SM 4500 H+ B	12-06-1892-1	06/28/12	6.27	6.24	0	0-25	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-06-1917
Pasadena, CA 91124-0002		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
096-06-003-3,814	**Aqueous**	**ICP/MS 05**	**06/29/12**	**06/29/12**	**120629L02**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	0.1014	101	0.1006	101	80-120	1	0-20	
Copper	0.1000	0.1073	107	0.1080	108	80-120	1	0-20	
Lead	0.1000	0.09771	98	0.1006	101	80-120	3	0-20	
Selenium	0.1000	0.1001	100	0.09950	100	80-120	1	0-20	
Zinc	0.1000	0.1032	103	0.1049	105	80-120	2	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-06-1917
Pasadena, CA 91124-0002		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
099-05-081-2,855	**Aqueous**	**N/A**	**07/05/12**	**07/05/12**	**C0705OGL3**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Oil and Grease	40.0	38.2	96	37.9	95	80-120	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-06-1917
Pasadena, CA 91124-0002		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
099-15-282-13	**Aqueous**	**GC 45**	**07/02/12**	**07/03/12**	**120702B03**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	4000	3743	94	3630	91	75-117	3	0-13	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-06-1917
Pasadena, CA 91124-0002		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
099-12-247-6,008	**Aqueous**	**GC 25**	**06/28/12**	**06/28/12**	**120628B01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2000	2070	103	2115	106	78-120	2	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-06-1917
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project: DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-8,177	**Aqueous**	**GC/MS W**	**06/28/12**	**06/28/12**	**120628L02**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	55.39	111	56.50	113	80-120	73-127	2	0-20	
Carbon Tetrachloride	50.00	49.45	99	52.10	104	66-138	54-150	5	0-20	
Chlorobenzene	50.00	54.91	110	55.86	112	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	54.92	110	55.73	111	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	55.88	112	56.46	113	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	56.28	113	56.95	114	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	56.02	112	58.24	116	71-131	61-141	4	0-20	
Ethylbenzene	50.00	55.74	111	56.77	114	80-123	73-130	2	0-20	
Toluene	50.00	55.52	111	56.66	113	79-121	72-128	2	0-20	
Trichloroethene	50.00	54.39	109	54.83	110	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	54.38	109	55.00	110	70-136	59-147	1	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	47.28	95	48.55	97	72-126	63-135	3	0-22	
Tert-Butyl Alcohol (TBA)	250.0	233.3	93	230.8	92	71-125	62-134	1	0-25	
Diisopropyl Ether (DIPE)	50.00	52.57	105	53.71	107	69-129	59-139	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	50.38	101	51.46	103	69-129	59-139	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	49.31	99	49.77	100	67-133	56-144	1	0-20	
Ethanol	500.0	690.2	138	669.8	134	47-155	29-173	3	0-36	

Total number of LCS compounds : 17
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

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 12-06-1917

Qualifier	Definition
*	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

Return to Contents

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 6-28-12

PAGE: 1 OF 1

LABORATORY CLIENT: Parsons, Inc.
100 W. Walnut Street
CITY: Paasadena, CA 91124
TEL: | FAX: | E-MAIL

CLIENT PROJECT NAME / NUMBER: DFSP Norwalk - Monthly
PROJECT CONTACT: Mary Lucas / Cindy Zicker
SAMPLER(S): (SIGNATURE) Glenn Androsko

P.O. NO.:
QUOTE NO.:
LAB USE ONLY 12-06-1917

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☒ 5 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ____/____/____

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT.	Turbidity (SM 2130B)	Oil & Grease (SM 5520B)	pH (SM 4500 H+B)	TPH-Diesel/Gas (EPA 8015B(M))	VOCs + Oxys (EPA 8260B)	Metals (EPA 6020: As,Cu,Se,Pb,Zn)						Comments
1	Effluent		6-28-12	0955	W	10	X	X	X	X	X	X						

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature)	Date: 6-28-12	Time: 1945
Relinquished by: (Signature)	Received by: (Signature)	Date: 6/28/12	Time: 13:45
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Revised: 08/28/08

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-06-1917

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS DATE: 06/28/12

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.5 °C - 0.3 °C (CF) = 2.2 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

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

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

Ambient Temperature: ☐ Air ☐ Filter **Initial:** AM

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** AM

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** SH

SAMPLE CONDITION:	Yes	No	N/A
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 ☑VOAh (3+3) ☐VOA**na**$_2$ ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na**$_2$ ☑1AGB**s**

☐500AGB ☑500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☑500PB

☐250PB ☑250PB**nu** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na**$_2$ ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** SH

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

Preservative: **h:** HCL **n:** HNO_3 **na**$_2$:$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:**_____

Return to Contents

ATTACHMENT C

Groundwater Treatment System Monitoring Logs

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: 04-02-12 TIME: 1430 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
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	32	P3	27	P2-P3	0		
BF2 (Center)	P4	31	P5	29	P4-P5	0		
BF3 (West)	P6	33	P7	32	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	29	P9	31	P8-P9	0		
MX-21 (large)	P9	31	P10	26	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	26	P11	23	P10-P11	0		
GAC - 2	P11	23	P12	22	P11-P12	0		
GAC - 3	P12	22	P13	20	P12-P13	0		
Ion Exchange	P13	20	P14	6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	Ø	9528444.1	9528444.1	-	NOT OPERABLE
Wells: GW-15	5.5	5749775	5746554	-	
Wells: GW-16	4.2	3327245.0	3324905.0	-	
NPDES Discharge	36	60128625	60122380	-	

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

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

GW-2 & GW-13 NOT OPERABLE (UNDER REPAIR)

DFSP Norwalk

GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: W 4-4-12 TIME: 1420 WEATHER: Sun 73°

OPERATOR NAME: G. Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT		Inlet Pressure (psig)		Outlet Pressure (psig)		Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	33	P3	26	P2-P3	0		
BF2 (Center)	P4	32	P5	27	P4-P5	0		
BF3 (West)	P6	34	P7	30	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	29	P9	28	P8-P9	0		
MX-21 (large)	P9	28	P10	24	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	24	P11	22	P10-P11	0		
GAC - 2	P11	22	P12	20	P11-P12	0		
GAC - 3	P12	20	P13	19	P12-P13	0		
Ion Exchange	P13	19	P14	6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	6.4	9528592.0	9528444.1	-	
Wells: GW-15	5.5	5765678	5749775	-	
Wells: GW-16	4.3	3339145.0	3327245.0	-	
NPDES Discharge	36	60156160	60128625	-	

50
28
4

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

1400 GW-2/13 back on line

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: Th 4-5-12 TIME: 0940 WEATHER: Cloudy 63°

OPERATOR NAME: G. Andrusko REV'D BY:

PRESSURE READINGS

EQUIPMENT		Inlet Pressure (psig)		Outlet Pressure (psig)		Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	34	P3	30	P2-P3	0		
BF2 (Center)	P4	34	P5	30	P4-P5	0		
BF3 (West)	P6	36	P7	32	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	32	P9	32	P8-P9	0		
MX-21 (large)	P9	32	P10	28	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	28	P11	24	P10-P11	0		
GAC - 2	P11	24	P12	22	P11-P12	0		
GAC - 3	P12	22	P13	21	P12-P13	0		
Ion Exchange	P13	21	P14	6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	6.3	9535817.0	9528592.0	-	
Wells: GW-15	5.5	5771810	5765678	-	
Wells: GW-16	4.4	3343865.5	3339145.0	-	
95 6 NPDES Discharge	36	60172700	60156160	-	

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 @ 0935

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: M 4-9-12 TIME: 0825 WEATHER: Sun 50°

OPERATOR NAME: G.Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT		Inlet Pressure (psig)		Outlet Pressure (psig)		Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	43	P3	19	P2-P3	0		
BF2 (Center)	P4	42	P5	20	P4-P5	0		
BF3 (West)	P6	45	P7	21	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	21	P9	20	P8-P9	0		
MX-21 (large)	P9	20	P10	15	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	15	P11	14	P10-P11	0		
GAC - 2	P11	14	P12	12	P11-P12	0		
GAC - 3	P12	12	P13	13	P12-P13	0		
Ion Exchange	P13	13	P14	5	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	5.8	9569926.5	9535817.0	-	
Wells: GW-15	5.2	5801630	5771810	-	
Wells: GW-16	4.3	3367515.5	3343865.5	-	
NPDES Discharge	22	60256155	60172700	-	

28
50
4

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

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify)_____

NOTES / DAILY TASK SUMMARY

GW-2 ~~is~~ is not pumping
Shut down system @ 0845 for quarterly sampling

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: T 4-24-12 TIME: 1124 WEATHER: Sun 73°

OPERATOR NAME: G. Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	42	P3	15	P2-P3	0		
BF2 (Center)	P4	40	P5	15	P4-P5	0		
BF3 (West)	P6	43	P7	18	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	15	P9	15	P8-P9	0		
MX-21 (large)	P9	16	P10	11	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	11	P11	11	P10-P11	0		
GAC - 2	P11	11	P12	10	P11-P12	0		
GAC - 3	P12	10	P13	9	P12-P13	0		
Ion Exchange	P13	9	P14	3	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	① 6.0	9578567.5	9569926.5	-	
Wells: GW-15	5.5	5808833	5801630	-	
Wells: GW-16	4.4	3373023.5	3367515.5	-	
NPDES Discharge	20	60279335	60256155	-	

BB
30
6

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 restarted 4/23/12 @ 1230 Replaced bag filters
① GW-2 not working.

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: W 4-25-12 TIME: 0900 WEATHER: 68° Cloudy

OPERATOR NAME: G. Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	38	P3	38	P2-P3	0		
BF2 (Center)	P4	38	P5	37	P4-P5	0		
BF3 (West)	P6	40	P7	39	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	39	P9	37	P8-P9	0		
MX-21 (large)	P9	37	P10	32	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	32	P11	28	P10-P11	0		
GAC - 2	P11	28	P12	26	P11-P12	0		
GAC - 3	P12	26	P13	25	P12-P13	0		
Ion Exchange	P13	25	P14	10	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	① 6.1	9586078.0	9578567.5	-	
Wells: GW-15	6.5	5815875	5808833	-	
Wells: GW-16	4.3	3378606.5	3373023.5	-	
NPDES Discharge	38	60295960	60279335	-	

28 8 7

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 filters in BF-1,2+3 System off from 0730 - 0830
① GW-2 offline, replacement pump on order

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: F 4.27.12 TIME: 0845 WEATHER: Sun 68°

OPERATOR NAME: G. Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	40	P3	29	P2-P3	0		
BF2 (Center)	P4	38	P5	30	P4-P5	0		
BF3 (West)	P6	41	P7	31	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	31	P9	28	P8-P9	0		
MX-21 (large)	P9	28	P10	22	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	22	P11	20	P10-P11	0		
GAC - 2	P11	20	P12	19	P11-P12	0		
GAC - 3	P12	19	P13	18	P12-P13	0		
Ion Exchange	P13	18	P14	5	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	6.3	9603542.0	9586078.0	-	
Wells: GW-15	6.0	5830870	5815875	-	
Wells: GW-16	4.3	3390848.0	3378606.5	-	
NPDES Discharge	32	60339985	60295960	-	

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

TEMP 21.1 (degrees, C) pH 7.25 Data collection instrument used (check one): ☐ Horiba U-10 or ☒ Other (please specify) BTS - YSI 556

NOTES / DAILY TASK SUMMARY

Collected Effluent sample @ 0900

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: 04/30/2012 TIME: 1319 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
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	37	P3	35	P2-P3	0		
BF2 (Center)	P4	35	P5	36	P4-P5	0		
BF3 (West)	P6	38	P7	39	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	40	P9	26	P8-P9	0		
MX-21 (large)	P9	26	P10	22	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	22	P11	20	P10-P11	0		
GAC - 2	P11	20	P12	19	P11-P12	0		
GAC - 3	P12	19	P13	17.5	P12-P13	0		
Ion Exchange	P13	17.5	P14	7	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	6.0	96278186	4603542.0	-	
Wells: GW-15	5.5	5852170	5830870	-	
Wells: GW-16	4.2	34087276	3390848.0	-	
NPDES Discharge	32	60401671	60339985	-	

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

SHUTDOWN SYSTEM for filter change AT 1322. SYSTEM RESTARTED AT 1445.

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: W 5-2-12 TIME: 0840 / 1330 WEATHER: Cloudy 63°

OPERATOR NAME: G. Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	47 / 40	P3	20 / 40	P2-P3	0		
BF2 (Center)	P4	45 / 40	P5	20 / 39	P4-P5	0		
BF3 (West)	P6	48 / 41	P7	23 / 41	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	22 / 40	P9	14 / 31	P8-P9	0		
MX-21 (large)	P9	14 / 31	P10	10 / 26	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	26	P11	23	P10-P11	0		
GAC - 2	P11	23	P12	21	P11-P12	0		
GAC - 3	P12	21	P13	20	P12-P13	0		
Ion Exchange	P13	20	P14	8	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	7.0	9642882.0	9627818.6	-	
Wells: GW-15	6.5	5865383	5852170	-	
Wells: GW-16	4.3	34199765	34087276	-	
NPDES Discharge	34	60439550	60401671	-	

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 1045-1320 to change bag filters and install new pump in GW-2

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: 05-04-12 TIME: 0756 WEATHER: Cloudy

OPERATOR NAME: Milton L. Gradillas REV'D BY: _____

PRESSURE READINGS

EQUIPMENT		Inlet Pressure (psig)		Outlet Pressure (psig)		Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	27	P3	26	P2-P3	0		
BF2 (Center)	P4	41	P5	26	P4-P5	0		
BF3 (West)	P6	44	P7	28	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	28	P9	23	P8-P9	0		
MX-21 (large)	P9	23	P10	18	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	18	P11	17	P10-P11	0		
GAC - 2	P11	17	P12	15	P11-P12	0		
GAC - 3	P12	15	P13	15	P12-P13	0		
Ion Exchange	P13	15	P14	7	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	6.4	9660004.3	9642882.0	-	
Wells: GW-15	4.9	5877925	5865383	-	
Wells: GW-16	4.3	34307765	3419976.5	-	
NPDES Discharge	25	60479039	60439550	-	

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

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: 05-08-2012 TIME: 0807/1030 WEATHER: Cloudy

OPERATOR NAME: Milton L. Gradillas REV'D BY: _____

PRESSURE READINGS

EQUIPMENT		Inlet Pressure (psig)		Outlet Pressure (psig)		Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	41/38	P3	12/37	P2-P3	0		before/AFTER filter Change
BF2 (Center)	P4	40/37	P5	13/38	P4-P5	0		↓
BF3 (West)	P6	42/39	P7	15/40	P6-P7	0		↓
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	15/38	P9	13/33	P8-P9	0		↓
MX-21 (large)	P9	13/33	P10	9/29	P9-P10	0		↓
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	8/29	P11	8/26	P10-P11	0		↓
GAC - 2	P11	8/26	P12	7/23	P11-P12	0		↓
GAC - 3	P12	7/23	P13	8/22.5	P12-P13	0		↓
Ion Exchange	P13	8/22.5	P14	7.5/10	P13-P14	0		↓

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	7.2/72	9687857.5	96000043	-	↓
Wells: GW-15	5.0/50	5898519	5877925	-	↓
Wells: GW-16	4.2/4.2	3448078.0	34307765	-	↓
NPDES Discharge	6/35	60541856	60479039	-	↓

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

Shutdown System at 0852 for filter change. Restarted system at 1030.

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: M 5-14-12 TIME: 1315 WEATHER: Sunny 80°

OPERATOR NAME: G. Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	38	P3	32	P2-P3	0		
BF2 (Center)	P4	36	P5	33	P4-P5	0		
BF3 (West)	P6	39	P7	37	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	33	P9	29	P8-P9	0		
MX-21 (large)	P9	29	P10	24	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	24	P11	21	P10-P11	0		
GAC - 2	P11	21	P12	20	P11-P12	0		
GAC - 3	P12	20	P13	18	P12-P13	0		
Ion Exchange	P13	18	P14	6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	7.7	9752142.0	9708093.0	-	
Wells: GW-15	4.8	5940460	5912390	-	
Wells: GW-16	4.2	3485955.0	34602045	-	
NPDES Discharge	34	60681290	60587020	-	

7X 4 58

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

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: W5-16-12 TIME: 1045 WEATHER: Sunny 75°

OPERATOR NAME: GAndrosko REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	37	P3	34	P2-P3	0		
BF2 (Center)	P4	36	P5	35	P4-P5	0		
BF3 (West)	P6	39	P7	38	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	35	P9	28	P8-P9	0		
MX-21 (large)	P9	28	P10	24	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	24	P11	22	P10-P11	0		
GAC - 2	P11	22	P12	19	P11-P12	0		
GAC - 3	P12	19	P13	17	P12-P13	0		
Ion Exchange	P13	17	P14	6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	8.0	9773012.0	9752142.0	-	
Wells: GW-15	4.5	5952775	5940460	-	
Wells: GW-16	4.5	3497722.0	3485955.0	-	
NPDES Discharge	33	60725925	60681290	-	

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

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: F 5-18-12 TIME: 1000 WEATHER: Partly 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
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	39	P3	36	P2-P3	0		
BF2 (Center)	P4	38	P5	38	P4-P5	0		
BF3 (West)	P6	40	P7	40	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	39	P9	30	P8-P9	0		
MX-21 (large)	P9	30	P10	25	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	25	P11	22	P10-P11	0		
GAC - 2	P11	22	P12	20	P11-P12	0		
GAC - 3	P12	20	P13	18	P12-P13	0		
Ion Exchange	P13	18	P14	6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	8.1	9795533.0	9773012.0	-	
Wells: GW-15	4.5	5965180	5952775	-	
Wells: GW-16	4.3	3510038.0	3497722.0	-	
NPDES Discharge	33	60770490	60725925	-	

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

Effluent sample collected for VOC's @ 0950

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: M 5-21-12 TIME: 0835 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
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	39	P3	37	P2-P3	0		
BF2 (Center)	P4	38	P5	37	P4-P5	0		
BF3 (West)	P6	41	P7	40	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	38	P9	29	P8-P9	0		
MX-21 (large)	P9	29	P10	24	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	24	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	6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	8.5	9830548.0	9795533.0	-	
Wells: GW-15	4.5	5983607	5965180	-	
Wells: GW-16	4.5	3528191.0	3510038.0	-	
NPDES Discharge	31	60838980	60770490	-	

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

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: W 5-23-12 TIME: 0810 WEATHER: Sunny 67°

OPERATOR NAME: GAndrosko REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	41	P3	37	P2-P3	0		
BF2 (Center)	P4	39	P5	37	P4-P5	0		
BF3 (West)	P6	42	P7	40	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	39	P9	28	P8-P9	0		
MX-21 (large)	P9	28	P10	22	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	22	P11	20	P10-P11	0		
GAC - 2	P11	20	P12	18	P11-P12	0		
GAC - 3	P12	18	P13	17	P12-P13	0		
Ion Exchange	P13	17	P14	6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	8.8	9855217.0	9830548.0	-	
Wells: GW-15	5.0	5996372	5983607	-	
75 Wells: GW-16	4.3	3540538.5	3528191.0	-	
4 79 NPDES Discharge	30	60884785	60838980	-	

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

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: Th 5-24-12 TIME: 1310 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
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	40	P3	35	P2-P3	0		
BF2 (Center)	P4	39	P5	34	P4-P5	0		
BF3 (West)	P6	42	P7	39	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	37	P9	25	P8-P9	0		
MX-21 (large)	P9	25	P10	20	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	20	P11	19	P10-P11	0		
GAC - 2	P11	19	P12	16	P11-P12	0		
GAC - 3	P12	16	P13	15	P12-P13	0		
Ion Exchange	P13	15	P14	5	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	8.8	9870350.9	9855217.0	-	
Wells: GW-15	4.5	6003944	5996372	-	
Wells: GW-16	4.4	3547862.5	3540538.5	-	
NPDES Discharge	29	60913590	60884785	-	

8
43
80

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

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify)_____

NOTES / DAILY TASK SUMMARY

Changed MX-7 filters. Old filters were black w slight HC & musty odor

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: T 5-29-12 TIME: 1105 WEATHER: Sun 72°

OPERATOR NAME: G. Androsko REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	38	P3	28	P2-P3	0		
BF2 (Center)	P4	36	P5	29	P4-P5	0		
BF3 (West)	P6	39	P7	32	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	29	P9	29	P8-P9	0		
MX-21 (large)	P9	29	P10	25	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	25	P11	23	P10-P11	0		
GAC - 2	P11	23	P12	20	P11-P12	0		
GAC - 3	P12	20	P13	18	P12-P13	0		
Ion Exchange	P13	18	P14	6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.1	9934634.6	9870350.9	-	
Wells: GW-15	4.5	6035070	6003944	-	
Wells: GW-16	4.4	3578484.3	3547862.5	-	
NPDES Discharge	35	61030700	60913590	-	

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

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: Th 5-31-12 TIME: 1005 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
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	39	P3	27	P2-P3	0		
BF2 (Center)	P4	37	P5	28	P4-P5	0		
BF3 (West)	P6	40	P7	31	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	30	P9	30	P8-P9	0		
MX-21 (large)	P9	30	P10	24	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	24	P11	22	P10-P11	0		
GAC - 2	P11	22	P12	19	P11-P12	0		
GAC - 3	P12	19	P13	18	P12-P13	0		
Ion Exchange	P13	18	P14	6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.2	9960533.0	9934634.6	-	
52 Wells: GW-15	4.5	6046952	6035070	-	
4 Wells: GW-16	4.3	3590215.4	3578484.3	-	
40 NPDES Discharge	34	61076650	61030700	-	

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

TEMP 23.3 (degrees, C) pH 7.23 Data collection instrument used (check one): ☒ Horiba U-10 or ☐ Other (please specify)_____

NOTES / DAILY TASK SUMMARY

Collected quarterly effluent sample @ 1020

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: F 6-1-12 TIME: 1230 WEATHER: Sunny 80°

OPERATOR NAME: G. Androsko REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	36	P3	25	P2-P3	0		
BF2 (Center)	P4	36	P5	26	P4-P5	0		
BF3 (West)	P6	39	P7	29	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	27	P9	29	P8-P9	0		
MX-21 (large)	P9	29	P10	23	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	23	P11	21	P10-P11	0		
GAC - 2	P11	21	P12	18	P11-P12	0		
GAC - 3	P12	18	P13	17	P12-P13	0		
Ion Exchange	P13	17	P14	6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.2	9975152.0	9960533.0	-	
Wells: GW-15	4.5	6053914	6046952	-	
Wells: GW-16	4.2	3597078.2	3590215.4	-	
NPDES Discharge	33	61104445	61076650	-	

25
0
7

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

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: M 6-4-12 TIME: 0840 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
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	40	P3	28	P2-P3	0		
BF2 (Center)	P4	39	P5	28	P4-P5	0		
BF3 (West)	P6	42	P7	31	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	30	P9	30	P8-P9	0		
MX-21 (large)	P9	30	P10	25	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	25	P11	22	P10-P11	0		
GAC - 2	P11	22	P12	20	P11-P12	0		
GAC - 3	P12	20	P13	19	P12-P13	0		
Ion Exchange	P13	19	P14	6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.1	10012714.0	9975152.0	-	
Wells: GW-15	4.0	6071323	6053914	-	
~~Wells:~~ GW-16	4.3	3614463.2	3597078.2	-	
SW 2 NPDES Discharge	33	61171060	61104445	-	

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

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: W 6-6-12 TIME: 1115 WEATHER: Sunny 78

OPERATOR NAME: G. Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT		Inlet Pressure (psig)		Outlet Pressure (psig)		Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	38	P3	24	P2-P3	0		
BF2 (Center)	P4	37	P5	24	P4-P5	0		
BF3 (West)	P6	39	P7	28	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	26	P9	26	P8-P9	0		
MX-21 (large)	P9	26	P10	20	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	20	P11	19	P10-P11	0		
GAC - 2	P11	19	P12	17	P11-P12	0		
GAC - 3	P12	17	P13	14	P12-P13	0		
Ion Exchange	P13	14	P14	6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.2	10040862.0	10012714.0	-	
Wells: GW-15	4.5	6084282	6071323	-	
Wells: GW-16	4.3	3627505.0	3614463.2	-	
NPDES Discharge	30	61223628	61171060	-	

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

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: Th 6.7-12 TIME: 0755 WEATHER: Sun 65°

OPERATOR NAME: GAndrosko REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	41	P3	24	P2-P3	0		
BF2 (Center)	P4	40	P5	27	P4-P5	0		
BF3 (West)	P6	43	P7	29	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	29	P9	29	P8-P9	0		
MX-21 (large)	P9	29	P10	22	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	22	P11	20	P10-P11	0		
GAC - 2	P11	20	P12	18	P11-P12	0		
GAC - 3	P12	18	P13	18	P12-P13	0		
Ion Exchange	P13	18	P14	6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.1	10052233.0	10040862.0	-	
Wells: GW-15	4.5	6089355	6084282	-	
Wells: GW-16	4.3	3632646.2	3627505.0	-	
NPDES Discharge	30	61242560	61223628	-	

50
1

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

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

DFSP Norwalk

GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: M 6-11-12 TIME: 0930 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
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	42	P3	24	P2-P3	0		
BF2 (Center)	P4	41	P5	24	P4-P5	0		
BF3 (West)	P6	43	P7	27	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	26	P9	26	P8-P9	0		
MX-21 (large)	P9	26	P10	19	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	19	P11	18	P10-P11	0		
GAC - 2	P11	18	P12	16	P11-P12	0		
GAC - 3	P12	16	P13	15	P12-P13	0		
Ion Exchange	P13	15	P14	5	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.1	10106417.5	10052233.0	-	
~~40~~ 45 Wells: GW-15	4.5	6113846	6089355	-	
Wells: GW-16	4.5	3657548.3	3632646.2	-	
NPDES Discharge	26	61339850	61242560	-	

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

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: 06/12/2012 TIME: 757 WEATHER: Cloudy

OPERATOR NAME: Milton L. Gradillas REV'D BY: _____

PRESSURE READINGS

EQUIPMENT		Inlet Pressure (psig)		Outlet Pressure (psig)		Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	42	P3	22	P2-P3	0		
BF2 (Center)	P4	40	P5	23	P4-P5	0		
BF3 (West)	P6	43	P7	25	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	24	P9	24	P8-P9	0		
MX-21 (large)	P9	24	P10	17	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	17	P11	16	P10-P11	0		
GAC - 2	P11	16	P12	14	P11-P12	0		
GAC - 3	P12	14	P13	14.5	P12-P13	0		
Ion Exchange	P13	14.5	P14	5	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.4	101189 26.6	101064 17.5	-	
Wells: GW-15	4.0	6119360	6113846	-	
Wells: GW-16	4.4	3663268.0	3657548.3	-	
NPDES Discharge	23	6136411	6133985	-	

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

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: F 6-15-12 TIME: 0900/1025 WEATHER: Cloudy 68°

OPERATOR NAME: G. Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT		Inlet Pressure (psig)		Outlet Pressure (psig)		Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	45/39	P3	19/39	P2-P3	0		
BF2 (Center)	P4	43/39	P5	19/38	P4-P5	0		
BF3 (West)	P6	46/41	P7	21/41	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	21/40	P9	19/36	P8-P9	0		
MX-21 (large)	P9	19/36	P10	12/28	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	12/28	P11	12/25	P10-P11	0		
GAC - 2	P11	12/25	P12	10/23	P11-P12	0		
GAC - 3	P12	10/23	P13	10/22	P12-P13	0		
Ion Exchange	P13	10/22	P14	4/8	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.5	10160540.5	10118926.6	-	
Wells: GW-15	4.0	6136674	6119360	-	
Wells: GW-16	4.3	3681841.0	36632680	-	
NPDES Discharge	16/34	61435982	61364111	-	

74
30
45

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 @ 0905
Collected surge tank sample @ 0910
System off from 0920 – 1020 to change BF-1, 2 + 3 filters

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: M 6-18-12 TIME: 1010 WEATHER: Cloudy 67°

OPERATOR NAME: GAndrosko REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							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	40	P7	39	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	38	P9	35	P8-P9	0		
MX-21 (large)	P9	35	P10	27	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	27	P11	25	P10-P11	0		
GAC - 2	P11	25	P12	22	P11-P12	0		
GAC - 3	P12	22	P13	21	P12-P13	0		
Ion Exchange	P13	21	P14	7	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.5	10201584.0	10160540.5	-	
Wells: GW-15	4.0	6153881	6136676	-	
Wells: GW-16	4.3	3700293.5	3681841.0	-	
NPDES Discharge	35	61508465	61435982	-	

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

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: 06-19-2012 TIME: 1202 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
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	39	P3	37	P2-P3	0		
BF2 (Center)	P4	37	P5	37	P4-P5	0		
BF3 (West)	P6	39	P7	40	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	39	P9	34	P8-P9	0		
MX-21 (large)	P9	34	P10	26	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	26	P11	24	P10-P11	0		
GAC - 2	P11	24	P12	22	P11-P12	0		
GAC - 3	P12	22	P13	20	P12-P13	0		
Ion Exchange	P13	20	P14	7	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.4	10216161.9	10201584.0	-	
Wells: GW-15	4.0	6600551	6153881	-	
Wells: GW-16	4.2	3707012.4	3700293.5	-	
NPDES Discharge	36	61532860	61508465	-	

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

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: Th 6-21-12 TIME: 1430 WEATHER: Sunny >6°

OPERATOR NAME: G. Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	39	P3	37	P2-P3	0		
BF2 (Center)	P4	37	P5	37	P4-P5	0		
BF3 (West)	P6	40	P7	40	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	38	P9	34	P8-P9	0		
MX-21 (large)	P9	34	P10	26	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	26	P11	22	P10-P11	0		
GAC - 2	P11	22	P12	20	P11-P12	0		
GAC - 3	P12	20	P13	19	P12-P13	0		
Ion Exchange	P13	19	P14	7	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.5	102246725	102161.9	-	
Wells: GW-15	4.0	6171603	6160051	-	
Wells: GW-16	4.3	3719698.2	3707012.4	-	
NPDES Discharge	35	61582450	61532860	-	

38
7
40

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

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: F6-22-12 TIME: 1410 WEATHER: Sunny 75

OPERATOR NAME: GAndrosko REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	39	P3	37	P2-P3	0		
BF2 (Center)	P4	37	P5	37	P4-P5	0		
BF3 (West)	P6	40	P7	40	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	38	P9	33	P8-P9	0		
MX-21 (large)	P9	33	P10	25	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	25	P11	22	P10-P11	0		
GAC - 2	P11	22	P12	20	P11-P12	0		
GAC - 3	P12	20	P13	19	P12-P13	0		
Ion Exchange	P13	19	P14	7	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.4	10258067.0	10224672.5	-	
Wells: GW-15	4.0	6177000	6171603	-	
Wells: GW-16	4.2	3725724.0	3719698.2	-	
NPDES Discharge	35	61606035	61582450	-	

95
25

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

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: M 6-25-12 TIME: 1315 WEATHER: Sun 80°

OPERATOR NAME: G. Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	40	P3	36	P2-P3	0		
BF2 (Center)	P4	38	P5	38	P4-P5	0		
BF3 (West)	P6	40	P7	40	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	38	P9	32	P8-P9	0		
MX-21 (large)	P9	32	P10	22	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	22	P11	20	P10-P11	0		
GAC - 2	P11	20	P12	18	P11-P12	0		
GAC - 3	P12	18	P13	17	P12-P13	0		
Ion Exchange	P13	17	P14	6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.5	10298358.5	10258062.0	-	
Wells: GW-15	4.0	6193068	6177000	-	
Wells: GW-16	4.4	3743930.0	3725724.0	-	
NPDES Discharge	33	61676575	61606035	-	

6 58 61

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

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: Th 6-28-12 TIME: 1030 WEATHER: Sun 80°

OPERATOR NAME: G. Andrasko REV'D BY: _____

PRESSURE READINGS

EQUIPMENT		Inlet Pressure (psig)		Outlet Pressure (psig)		Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	40	P3	36	P2-P3	0		
BF2 (Center)	P4	38	P5	38	P4-P5	0		
BF3 (West)	P6	41	P7	40	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	39	P9	29	P8-P9	0		
MX-21 (large)	P9	29	P10	18	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	18	P11	18	P10-P11	0		
GAC - 2	P11	18	P12	16	P11-P12	0		
GAC - 3	P12	16	P13	14	P12-P13	0		
Ion Exchange	P13	14	P14	6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.5	10337550.0	10298358.5	-	
Wells: GW-15	4	6208362	6193058	-	
Wells: GW-16	4.3	3761474.0	3743930.0	-	
NPDES Discharge	28	61745851	61676575	-	

45
60
3

NPDES Sample Collection (circle one) (MONTHLY), QUARTERLY, ANNUAL, OTHER (specify) _____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH] 0955

TEMP 23.6 (degrees, C) pH 7.27 Data collection instrument used (check one): ☒ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

Collected monthly effluent sample