REMEDIATION STATUS REPORT – SECOND QUARTER 2014

DEFENSE FUEL SUPPORT POINT NORWALK
15306 Norwalk Boulevard
Norwalk, California

04-NDLA-001

Prepared For:

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DLA	Defense Logistics Agency
SGI	The Source Group, Inc.
DFSP	Defense Fuel Support Point
LARWQCB	California Regional Water Quality Control Board, Los Angeles Region
JP-5	Jet Propellant Number 5
BTEX	Benzene, Toluene, Ethylbenzene, and Total Xylenes
MTBE	Methyl tertiary-Butyl Ether
TBA	Tertiary-Butyl alcohol
SFPP	Santa Fe Pacific Pipelines Partners, L.P.
SVE	Soil Vapor Extraction
GWE	Groundwater Extraction
LNAPL	Light Non-Aqueous Phase Liquid
VES	Soil Vapor Extraction System
GWETS	Groundwater Extraction and Treatment System
GAC	Granular Activated Carbon
VOCs	Volatile Organic Compounds
SCAQMD	South Coast Air Quality Management District
NPDES	National Pollutant Discharge Elimination System
OM&M	Operations, Maintenance, and Monitoring
ELAP	Environmental Laboratory Accreditation Program
TPH	Total Petroleum Hydrocarbons
EPA	United States Environmental Protection Agency
TPHg	Total Petroleum Hydrocarbons as Gasoline
TPHd	Total Petroleum Hydrocarbons as Diesel
SM	Standard Method
MBAS	Methylene Blue Active Substances
BOD	Biological oxygen demand
DTP	Depth to Product
DTW	Depth to Groundwater
TOC	Top of Casing
gpm	Gallons per Minute
PID	Photoionization Detector

1.0 INTRODUCTION

On behalf of our client, Defense Logistics Agency - Energy (DLA Energy), The Source Group, Inc. (SGI) presents this report to summarize remediation system operations during this reporting period for the Defense Fuel Support Point (DFSP) Norwalk facility, located at 15306 Norwalk Boulevard, Norwalk, California (Site, Figures 1 and 2).

This report is submitted pursuant to a request from the California Regional Water Quality Control Board, Los Angeles Region (LARWQCB) in a letter dated May 3, 2013.

1.1 Contaminants of Concern

Soil and groundwater at the areas of concern are impacted with hydrocarbons consisting primarily of jet propellant number 5 (JP-5); diesel; benzene, toluene, ethylbenzene, and total xylenes (collectively, BTEX), methyl tertiary-butyl ether (MTBE), and tertiary-butyl alcohol (TBA). MTBE and TBA are interpreted to have resulted from Santa Fe Pacific Pipelines Partners, L.P. (SFPP) operations, and remediation of these impacts is being addressed by SFPP. Remediation systems by DLA Energy were installed to treat the hydrocarbon impacts in soil and groundwater. The purposes of these remediation systems are to reduce hydrocarbon concentrations to cleanup goals, to prevent off-site migration, to contain contaminant mass, and ultimately, to achieve site closure within a reasonable timeframe.

The impacted DLA Energy areas consist of the north-central former tank farm, the northeastern property boundary, off-site Holifield Park area, the northwest corner of the site, and the former water tank and truck fueling areas.

1.2 Remediation Systems

The remediation technologies utilized at the Site have consisted of soil vapor extraction (SVE), groundwater extraction (GWE), biosparging, and light non-aqueous phase liquid (LNAPL) removal. A summary of Site remediation wells, including well identification, well construction information, well function, and operational status, is presented in Table 1. The remediation system layout (well and piping locations) is presented in Figure 2.

1.2.1 Soil Vapor Extraction System

The SVE well network for hydrocarbon extraction from vadose zone subsurface impacts historically includes wells installed in the following areas as illustrated on Figure 2: AST 80001 area (VEW-23), AST 80006 and 80007 areas (VEW-20, VEW-21, VEW-22, HW-1, HW-3), AST 80008 area (VEW-24, VEW-25, VEW-26, VEW-27, HW-5, HW-7), AST 55004 area (VEW-28, VEW-29, VEW-30), eastern boundary area (VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37), water tank area (VEW-31), and truck fueling area (VW-07, VW-09, VW-10, VW-11, VW-12, VW-13, VW-14, VW-15, VW-16). The soil vapor extraction system (VES) utilizes a blower to remove soil vapors from the subsurface. The extracted vapors are then conveyed through a knockout tank that separates

entrained moisture from the soil vapors. Accumulated moisture in the knockout tank is treated by the groundwater extraction and treatment system (GWETS) as described below. Following the knockout tank, the soil vapors are treated through four granular activated carbon (GAC) vessels where volatile organic compounds (VOCs) are adsorbed onto the GAC within the vessels. The primary and secondary GAC vessels, each 5,000 pounds, are installed in series with each other and with a pair of tertiary vessels, each 2,000 pounds. Operation of the VES is conducted in accordance with South Coast Air Quality Management District (SCAQMD) Permit to Operate G12863, A/N 518989. Active SVE wells are identified in Section 3.1 and Tables 3a, 3b, and 3c.

1.2.2 Groundwater Extraction and Treatment System

The GWE well network for hydrocarbon extraction from dissolved-phase subsurface impacts historically includes wells installed in the northwestern area (GW-2, GW-13), central tank farm area (GW-14), and eastern boundary area (GW-15, GW-16, GMW-58). The GWETS utilizes electric pumps in each of the GWE wells to pump groundwater in to a shared surge tank. Groundwater is transferred via a transfer pump from the surge tank through three bag filter vessels in series (BF1, BF2, BF3), two MYCELX vessels in series (MX-7, MX-21), three GAC vessels in series (2,000 pound GAC-1, 2,000 pound GAC-2, 1,500 pound GAC-3) and two ion exchange vessels (for arsenic treatment) in series prior to being discharged to storm drain. Operation of the GWETS is conducted in accordance with National Pollutant Discharge Elimination System (NPDES) permit CAG994004, CI No. 7585 and SCAQMD Permit to Operate G6962, A/N 501180. Active GWE wells are identified in Section 3.2 and Tables 2a, 2b, and 2c.

1.2.3 Biosparge System

The biosparge wells for hydrocarbon removal from dissolved-phase subsurface impacts are located in areas throughout the tank farm area and eastern boundary area. The biosparge system is currently off line.

1.2.4 LNAPL Removal

LNAPL removal has been conducted via vacuum truck, passive skimming, and absorbent socks. Wells are gauged periodically and LNAPL removal is conducted based on the measured LNAPL thickness in each target well. LNAPL removal wells are identified in Section 3.3 and Tables 6a, 6b, 6c, 6d, 6e, and 6f.

2.0 OPERATIONS, MAINTENANCE, AND MONITORING

During this reporting period, Operations, Maintenance, and Monitoring (OM&M) of the remediation systems included the following tasks:

- Performed weekly maintenance and monitoring of the VES and GWETS during operation;
- Collected and analyzed VES influent and effluent vapor samples;
- Collected and analyzed VES individual well vapor samples; and
- Collected and analyzed GWETS influent and effluent groundwater samples.

During this reporting period, remediation system inspections were performed on a weekly basis during operation. For these inspections, vapor flow rate, vacuum, volumes of extracted groundwater, hours of operation, and other system parameters were recorded during system operation. Remediation system operations activities for the reporting period are summarized in Tables 2a, 2b, and 2c and 3a, 3b, and 3c.

2.1 Soil Vapor Extraction System OM&M

The VES operated throughout the reporting period except from:

- May 29 through June 30 during the project transition.

Performance and compliance soil vapor samples from the VES were collected during the reporting period on April 23 and May 16, 2014. The vapor samples were delivered to Calscience Environmental Laboratories (Calscience) for analysis. Calscience is a laboratory certified by the California Department of Public Health Environmental Laboratory Accreditation Program (ELAP).

The vapor samples were analyzed for the following:

- Total petroleum hydrocarbons (TPH) quantified as hexane using United States Environmental Protection Agency (EPA) Method TO-3M;
- BTEX and MTBE using EPA Method 8260B; and
- VOCs using EPA Method TO-15M.

A historical summary of influent vapor analytical sample results is provided in Table 4. The laboratory analytical reports and chain-of-custody documents for these samples are included in Appendix A.

2.2 Groundwater Extraction and Treatment System OM&M

The GWETS operated throughout the reporting period except from:

- April 4 to April 23 for carbon change-out and groundwater gauging and sampling; and
- May 29 through June 30 during the project transition.

Performance and compliance water samples from the GWETS were collected during the reporting period on April 23 and 30 and May 2, 16, and 29, 2014. The water samples were delivered to ELAP certified Calscience for analysis.

The water samples were analyzed for the following:

- TPH quantified as gasoline (TPHg) and as diesel (TPHd) using EPA Method 8015M;
- VOCs using EPA Method 8260B;
- Metals (arsenic and copper) using EPA 6020;
- Oil and grease using Standard Method (SM) 5520 B;
- Turbidity using SM 2130 B;
- Sulfides using SM 4500 S2-D;
- Residual chlorine using SM 4500-CL F;
- Total suspended solids using SM 2540 D;
- Settleable Solids using SM 2540 F;
- Methylene Blue Active Substances (MBAS) using SM 5540 C;
- Phenols using EPA 420.1; and
- Biological oxygen demand (BOD) using SM 5210 B.

The GWETS effluent groundwater sampling results will be provided under separate cover in the NPDES discharge monitoring report for the reporting period. A historical summary of influent water analytical sample results is provided in Table 5. The laboratory analytical reports and chain-of-custody documents for these samples are included in Appendix A.

2.3 LNAPL Removal OM&M

Depth to product (DTP) and depth to groundwater (DTW) was measured to the nearest 0.01 foot from the top of the well casing (TOC) using an interface probe in select monitoring wells. LNAPL was removed from select wells by vacuum truck and absorbent socks. LNAPL gauging results and estimated mass and volume removal are summarized in Tables 6a, 6b, 6c, 6d, 6e, and 6f.

3.0 SUMMARY OF REMEDIATION PROGRESS

The following sections describe remedial progress at the Site.

3.1 Soil Vapor Extraction System

During this reporting period, the VES extracted soil vapors from the four horizontal wells that span through the entire former tank farm area (HW-1, HW-3, HW-5, HW-7) and the six vertical wells in the northeastern area (VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37).

The total mass of VOCs removed by SVE during this reporting period was approximately 4.0 pounds and approximately 2,962 pounds since April 1996 (Tables 3a, 3b, and 3c). The total mass removed by SVE does not include the mass removed in-situ by biodegradation.

3.2 Groundwater Extraction and Treatment System

During this reporting period, the GWETS extracted groundwater from the northwest (GW-2 and GW-13) and northeast (GW-15 and GW-16) areas of the Site at an average flow rate of approximately 13 gallons per minute (gpm).

The total volume of groundwater extracted by the GWETS during this reporting period was approximately 812,185 gallons and approximately 70.6 million gallons since April 1996. Based on the TPHd results for influent water samples and total groundwater extracted, the mass of TPHd removed by GWE was approximately 10 pounds (Table 2c) during second quarter 2014 and approximately 9,922 pounds since April 1996 (Table 2c).

3.3 LNAPL Removal

During this reporting period, DTW and DTP was measured in GMW-62 located off site in Holifield Park and GMW-4, GMW-21, MW-15, PZ-3, and TF-18. LNAPL was removed during the reporting period by vacuum truck and by utilizing absorbent socks installed in select wells. Approximately 21.3 gallons (145.81 pounds) of LNAPL was recovered from the Site via passive absorbent socks (Tables 6a through 6f).

4.0 SYSTEM EVALUATION AND OPTIMIZATION

Remedial system optimization is ongoing to ensure most effective operation for cleanup at the site.

For the VES, during the second quarter 2014, influent vapor-phase VOC concentrations remained low and reached asymptotic levels. During the period of VES non-operation, the rebound of VOC concentrations in the SVE wells was evaluated by collecting individual well vapor samples prior to restarting the VES. This rebound test and vapor sampling was conducted on July 9, 2014 and will be reported in the forthcoming Third Quarter 2014 Remediation Status Report.

As discussed in the first quarter 2014 Remediation Progress Report, groundwater monitoring from the second semiannual event in October resulted in an overall lower groundwater elevation and a higher number of wells with measurable free product. The overall area of impacts and plumes were similar to previous events. As indicated by the non-detect, stable, or declining dissolved groundwater analytical data from off-site wells (as illustrated in previous semiannual groundwater monitoring reports) and from the previous aquifer pump testing and groundwater capture zone analysis, the current GWETS with wells in the northeast area and northwest corner have been successful in preventing further impacted groundwater from flowing off site and have captured and treated a significant portion of impacted groundwater under Holifield Park and in the northwest corner. GWE in the northwest and northeast areas will continue to assist with contaminant containment. Additionally, absorbent sock installation and vacuum truck recovery will continue, as needed, and the use of passive LNAPL skimmers in select wells will be implemented.

5.0 PLANNED THIRD QUARTER 2014 ACTIVITIES

During the third quarter 2014, DLA Energy plans to continue to focus in-situ remedial efforts on the northwest, northeast, and north-central areas. The following OM&M activities are planned to be completed during the third quarter 2014:

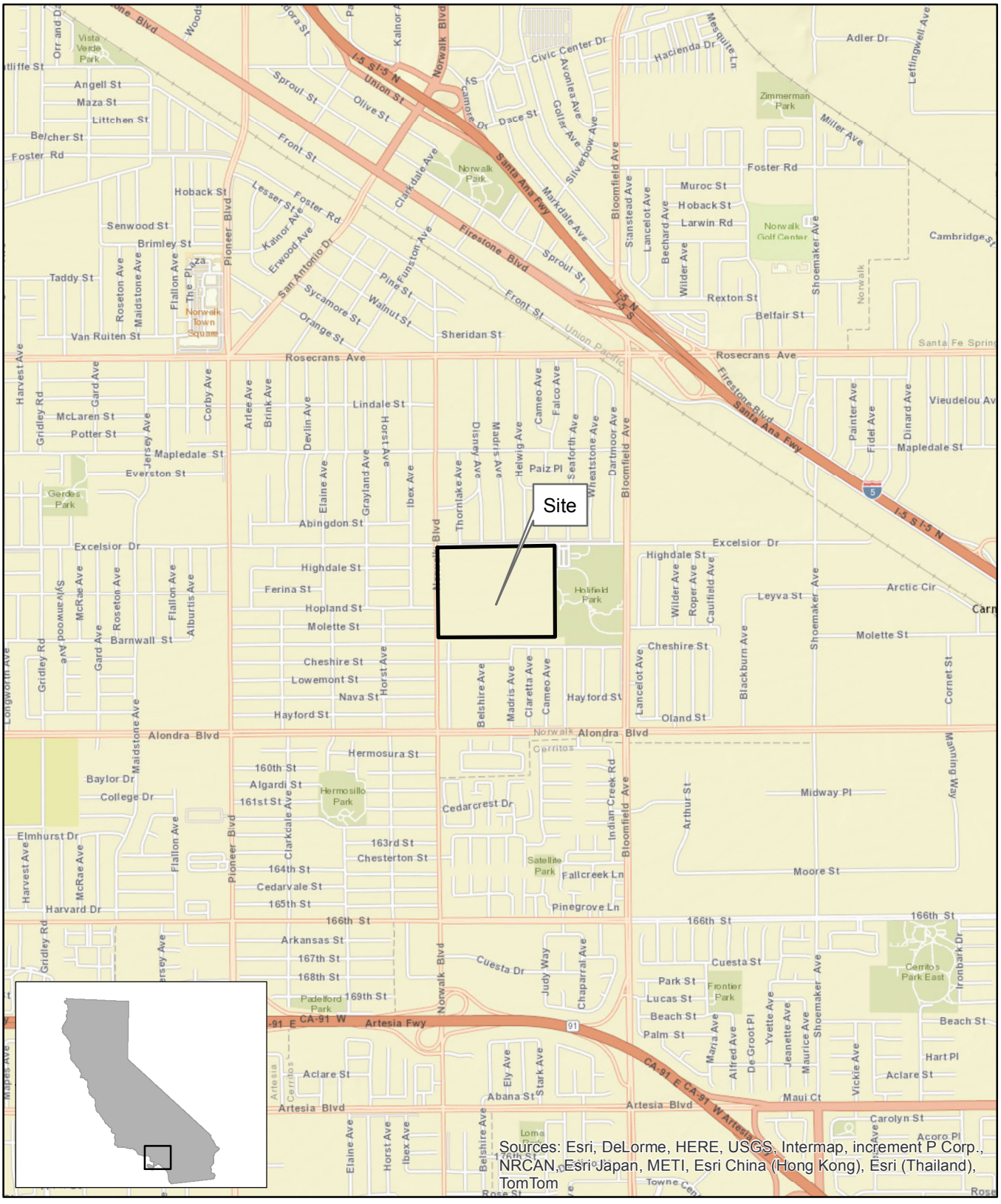
- Continue weekly maintenance and monitoring of the VES and GWETS;
- Measure individual well vapor concentrations with a photoionization detector (PID);
- Collect individual well vapor samples for laboratory analysis;
- Review LNAPL gauging and removal data to optimize removal methods;
- Collect and analyze system influent and effluent vapor and groundwater samples;
- Evaluate GWE flow rate and potential options of decreasing the flow rate while maintaining contaminant containment as described in Parsons' *Groundwater Capture Report*, dated June 17, 2010;
- Evaluate re-implementation of the biosparge system; and
- Perform pre-mobilization activities for soil excavation.

The VES and GWETS for the northwest, northeast, and north-central areas will continue to operate and LNAPL recovery will continue. The remediation activities and progress for the third quarter 2014 will be described in the Third Quarter 2014 Remediation Progress Report to be submitted by November 15, 2014.

6.0 LIMITATIONS

This document was prepared for the exclusive use of the Defense Logistics Agency - Energy (DLA Energy) and the California Regional Water Quality Control Board, Los Angeles Region (LARWQCB) for the express purpose of complying with a client or regulatory directive for environmental investigation or restoration. SGI and DLA Energy must approve any re-use of this work product in whole or in part for a different purpose or by others in writing. If any such unauthorized use occurs, it shall be at the user's sole risk without liability to SGI or DLA Energy. To the extent that this report is based on information provided to SGI by third parties, including DLA Energy, their direct contractors, previous workers, and other stakeholders, SGI cannot guarantee the completeness or accuracy of this information, even where efforts were made to verify third-party information. SGI has exercised professional judgment to collect and present findings and opinions of a scientific and technical nature. The opinions expressed are based on the conditions of the Site existing at the time of the field investigation, current regulatory requirements, and any specified assumptions. The presented findings and recommendations in this report are intended to be taken in their entirety to assist DLA Energy and LARWQCB personnel in applying their own professional judgment in making decisions related to the property. SGI cannot provide conclusions on environmental conditions outside the completed scope of work. SGI cannot guarantee that future conditions will not change and affect the validity of the presented conclusions and recommended work. No warranty or guarantee, whether expressed or implied, is made with respect to the data or the reported findings, observations, conclusions, and recommendations.

FIGURES



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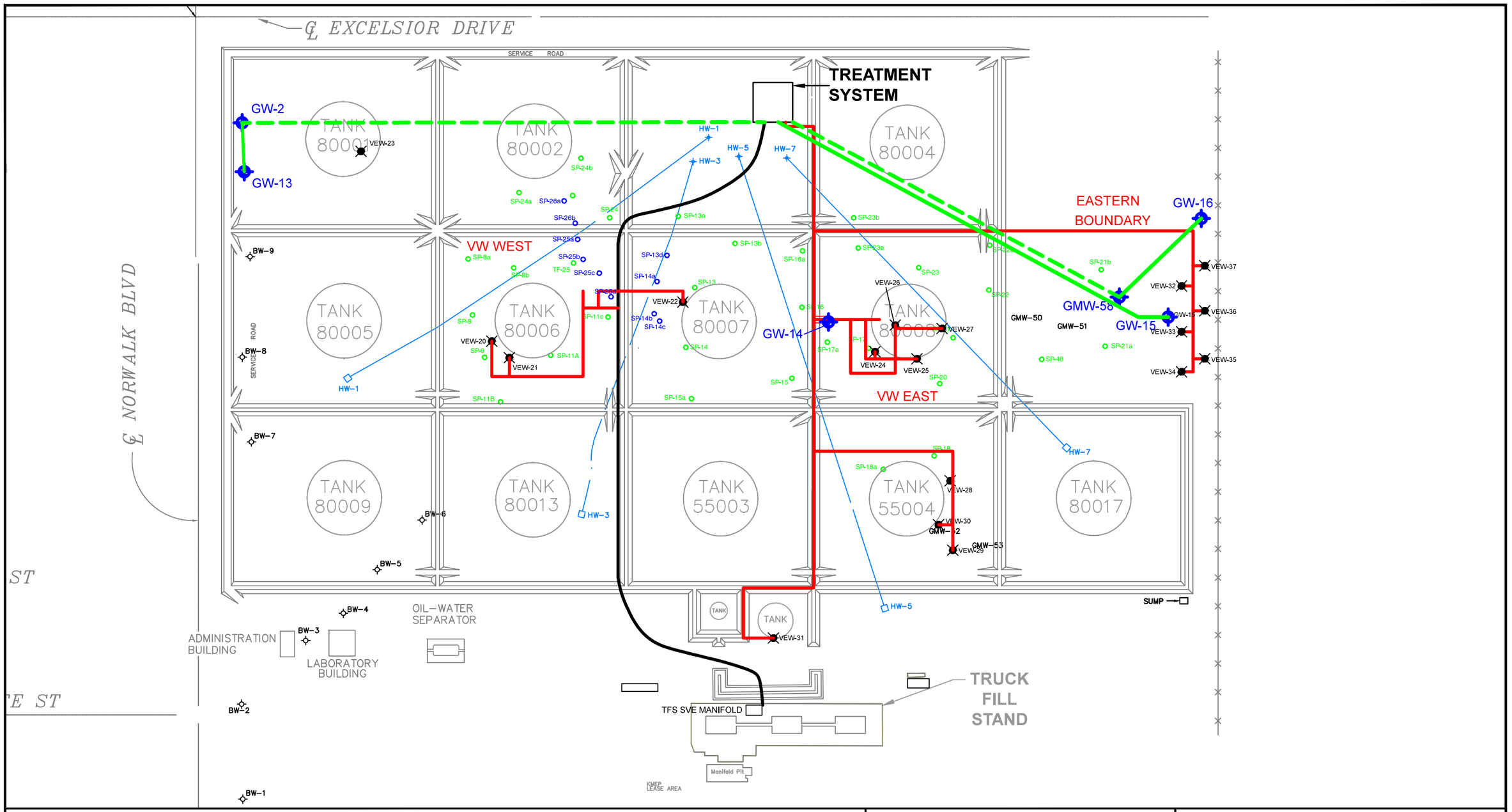
DEFENSE FUEL SUPPORT POINT NORWALK
15306 NORWALK BOULEVARD
NORWALK, CALIFORNIA

SITE LOCATION MAP

FIGURE **1**

Document Name: Fig-1_Norwalk_Site_Location_Map



NOTES

Base map and piping from Parsons' *First Quarter 2014 Remediation Progress Report*, dated May 15, 2014

DEFENSE FUEL SUPPORT POINT NORWALK
15306 NORWALK BOULEVARD
NORWALK, CALIFORNIA

PROJECT	DATE		
04-NDLA	08/15/2014		

0 160 320
HORIZONTAL SCALE IN FEET

SITE MAP SHOWING REMEDIATION WELL AND PIPING LOCATIONS

SGI environmental THE SOURCE GROUP, INC.
1962 FREEMAN AVENUE
SIGNAL HILL, CA 90755

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FIGURE 2

TABLES

TABLE 1

Remediation Well Construction

DFSP, Norwalk

15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
North-West (AST 80001)	GW-1		06/12/95	75.97	63	25 - 60	GWE
	GW-2		06/12/95	75.78	63	25 - 60	GWE
	GW-3		06/13/95	75.79	63	25 - 60	GWE
	GW-4		06/12/95	75.78	63	25 - 60	GWE
	GW-13		04/26/07	76.85	67	25 - 65	GWE
	VEW-23		08/03/04	76.20	25	15 - 25	SVE
North-Central (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 8001, AST 55004)	HW-1		--	--	25	continuous	SVE
	HW-3		--	--	25	continuous	SVE
	HW-5		--	--	25	continuous	SVE
	HW-7		--	--	25	continuous	SVE
	GMW-21	1	08/02/91	76.23	50	25 - 50	TFE/GWE
	GW-14		04/26/07	76.54	67	25 - 65	GWE
	SP-8		--	--	50	48 - 50	Biosparge
	SP8a		--	--	50	48 - 50	Biosparge
	SP-8b		--	--	50	48 - 50	Biosparge
	SP-9		--	--	50	48 - 50	Biosparge
	SP-11		--	--	50	48 - 50	Biosparge
	SP-11a		--	--	50	48 - 50	Biosparge
	SP-11b		--	--	50	48 - 50	Biosparge
	SP-11c		--	--	50	48 - 50	Biosparge
	SP-13		--	--	50	48 - 50	Biosparge
	SP-13a		--	--	50	48 - 50	Biosparge
	SP-13b		--	--	50	48 - 50	Biosparge
	SP-13c		--	--	50	48 - 50	Biosparge
	SP-13d		--	--	50	48 - 50	Biosparge
	SP-14		--	--	50	48 - 50	Biosparge
	SP-14a		--	--	50	48 - 50	Biosparge
	SP-14b		--	--	50	48 - 50	Biosparge
	SP-14c		--	--	50	48 - 50	Biosparge
	SP-15		--	--	50	48 - 50	Biosparge
	SP-15a		--	--	50	48 - 50	Biosparge
	SP-16		--	--	50	48 - 50	Biosparge
	SP-17		--	--	50	48 - 50	Biosparge
	SP-17a		--	--	50	48 - 50	Biosparge
	SP-18		--	--	50	48 - 50	Biosparge
	SP-18a		--	--	50	48 - 50	Biosparge
	SP-20		--	--	50	48 - 50	Biosparge
	SP-20a		--	--	50	48 - 50	Biosparge
	SP-21		--	--	50	48 - 50	Biosparge
	SP-22		--	--	50	48 - 50	Biosparge

TABLE 1
Remediation Well Construction
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
North-Central (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 8001, AST 55004)	SP-23		--	--	50	48 - 50	Biosparge
	SP-23a		--	--	50	48 - 50	Biosparge
	SP-23b		--	--	50	48 - 50	Biosparge
	SP-23c		--	--	50	48 - 50	Biosparge
	SP-24		--	--	50	48 - 50	Biosparge
	SP-24a		--	--	50	48 - 50	Biosparge
	SP-24b		--	--	50	48 - 50	Biosparge
	SP-24c		--	--	50	48 - 50	Biosparge
	SP-25		--	--	50	48 - 50	Biosparge
	SP-25a		--	--	50	48 - 50	Biosparge
	SP-25b		--	--	50	48 - 50	Biosparge
	SP-25c		--	--	50	48 - 50	Biosparge
	SP-25d		--	--	50	48 - 50	Biosparge
	SP-26		--	--	50	48 - 50	Biosparge
	SP-26a		--	--	50	48 - 50	Biosparge
	TF-8		09/22/95	74.86	63	25 - 60	TFE, GWE
	TF-9		09/22/95	74.47	63	25 - 60	TFE, GWE
	TF-10		09/25/95	73.61	63	25 - 60	TFE, GWE
	TF-11		09/25/95	74.40	63	25 - 60	TFE, GWE
	TF-13		09/26/95	75.47	63	25 - 60	TFE, GWE
	TF-14		09/27/95	74.35	63	25 - 60	TFE, GWE
	TF-15		09/28/95	74.78	63	25 - 60	TFE, GWE
	TF-16		09/28/95	75.89	63	25 - 60	TFE, GWE
	TF-17		09/29/95	74.88	63	25 - 60	TFE, GWE
	TF-18		07/06/94	73.94	50.5	20 - 50	TFE, GWE
	TF-19		10/03/95	75.07	63	25 - 60	TFE, GWE
	TF-20		10/03/95	75.08	63	25 - 60	TFE, GWE
	TF-21		09/29/95	74.96	63	25 - 60	TFE, GWE
	TF-22		10/02/95	74.76	63	25 - 60	TFE, GWE
	TF-23		07/05/94	75.31	50.5	20 - 50	TFE, GWE
	TF-24	2	09/26/95	76.43	63	25 - 60	TFE, GWE
	TF-25		04/04/01	74.85	47	26 - 36	TFE, GWE
	TF-26		04/03/01	75.85	47	26 - 36	TFE, GWE
	VEW-20		08/02/04	75.95	25	15 - 25	SVE
	VEW-21		08/02/04	75.75	25	15 - 25	SVE
	VEW-22		08/02/04	77.09	20	10 - 20	SVE
	VEW-24		08/02/04	76.13	25	15 - 25	SVE
	VEW-25		08/02/04	76.14	25	15 - 25	SVE
	VEW-26		08/04/04	77.50	25	15 - 25	SVE
	VEW-27		08/04/04	77.07	25	15 - 25	SVE
	VEW-28		08/03/04	75.67	25	10 - 25	SVE
	VEW-29		08/03/04	75.25	25	10 - 25	SVE
	VEW-30		08/03/04	75.65	25	10 - 25	SVE

TABLE 1
Remediation Well Construction
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
North-East	BSP-1		04/18/07	--	50	47 - 49	Biosparge
	BSP-2		04/18/07	--	50	48 - 50	Biosparge
	BSP-3		04/17/07	--	48	46 - 48	Biosparge
	BSP-4		04/17/07	--	49	47 - 49	Biosparge
	BSP-5		04/17/07	--	49.5	47 - 49	Biosparge
	BSP-6		04/18/07	--	49	47 - 49	Biosparge
	BSP-7		04/19/07	--	48	46 - 48	Biosparge
	BSP-8		04/19/07	--	48	46 - 48	Biosparge
	BSP-9		04/19/07	--	48	46 - 48	Biosparge
	GMW-58		08/14/98	75.48	55	20 - 55	GWE
	GW-15		04/26/07	74.94	60.5	20.5 - 60.6	GWE
	GW-16		07/07/09	76.33	63	20.5 - 60.5	GWE
	SP-21a		--	--	50	48 - 50	Biosparge
	SP-21b		--	--	50	48 - 50	Biosparge
	SP-48		--	--	50	48 - 50	Biosparge
	VEW-32		04/11/07	--	25	10 - 25	SVE
	VEW-33		04/11/07	--	25	10 - 25	SVE
	VEW-34		04/11/07	--	25	10 - 25	SVE
	VEW-35		04/10/07	--	25	10 - 25	SVE
	VEW-36		04/10/07	--	25	10 - 25	SVE
	VEW-37		40/10/07	--	25	10 - 25	SVE
Former Truck Fueling Area and Adjacent Water Tank Area	VEW-31		08/03/04	75.10	15	5 - 15	SVE
	VW-07		--	75.64	--	--	SVE
	VW-09		--	75.77	--	--	SVE
	VW-10		03/23/04	75.78	30.5	20 - 30	SVE
	VW-11		03/23/04	75.55	25	20 - 25	SVE
	VW-12		03/23/04	75.79	30.5	15 - 30	SVE
	VW-13		03/23/04	75.42	29	25 - 29	SVE
	VW-14		03/23/04	75.89	28	15 - 28	SVE
	VW-15		04/14/04	75.45	30	20 - 30	SVE
	VW-16		04/14/04	75.29	30	20 - 30	SVE

Legend/Notes:
ft msl = Feet above mean sea level
ft bgs = Feet below ground surface
-- = Information not available
1 = Also referred to as TF-24.
2 = Also referred to as "old TF-24" or "former TF-24".

TABLE 2a

Groundwater Extraction and Treatment System Summary of Operations - April

DFSP, Norwalk

15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	GW-2 Totalizer Reading (gallons)	GW-13 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from the North-East Area (gallons)	Groundwater Extracted from the North-West Area (gallons)	NPDES Discharge Totalizer Reading (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed (lb)
04/01/14	*		2,895,897	1,844,900	552,850	5,965,439	6,518,289	4,740,797	69,809,124	--	9,912
04/02/14	Technician		2,904,789	1,850,510	557,689	5,971,133	6,528,822	4,755,299	69,829,940	--	9,913
04/03/14	*		2,914,049	1,856,344	562,343	5,976,896	6,539,239	4,770,393	69,850,770	--	9,913
04/04/14	Technician	1	2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/05/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/06/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/07/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/08/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/09/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/10/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/11/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/12/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/13/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/14/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/15/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/16/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/17/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/18/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/19/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/20/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/21/14	Technician	2	2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/22/14	Technician	3	2,924,506	1,862,988	567,582	5,982,089	6,549,671	4,787,494	69,874,045	--	9,913
04/23/14	Technician	4	2,932,101	1,868,577	571,097	5,982,089	6,553,186	4,800,678	69,885,215	--	9,913
04/24/14	*		2,940,402	1,874,385	576,030	5,987,229	6,563,258	4,814,788	69,906,164	--	9,914
04/25/14	Technician		2,949,828	1,880,980	581,630	5,993,065	6,574,695	4,830,808	69,929,950	--	9,914
04/26/14	*		2,958,891	1,886,618	586,334	5,998,518	6,584,851	4,845,509	69,951,274	--	9,914
04/27/14	*		2,967,954	1,892,257	591,037	6,003,970	6,595,007	4,860,211	69,972,599	--	9,914
04/28/14	Technician		2,977,615	1,898,267	596,051	6,009,783	6,605,834	4,875,882	69,995,330	--	9,915
04/29/14	*		2,986,651	1,903,392	600,392	6,015,181	6,615,573	4,890,044	70,015,112	--	9,915
04/30/14	Technician	4	2,995,060	1,908,162	604,432	6,020,205	6,624,637	4,903,222	70,033,520	--	9,915

Cumulative Groundwater Discharged by the GWETS to Date (gallons)							
Period	April	Quarter 1, 2014	Quarter 2, 2014	Quarter 3, 2014	Quarter 4, 2014	2014	April 1996 to Date
Volume	245,505	1,950,806	245,505	--	--	2,196,311	70,033,520

Cumulative Mass DRO Removed by the GWETS [A] (lb)			
Period	April	Quarter 2 to Date	April 1996 to Date
Mass	3.07	3.07	9,915.11

$$Liquid\text{-}Phase\ DRO\ Mass\left[lb\right] = \left(Conc.\left[\frac{\mu g}{L}\right]\right) \bullet \left(\frac{3.785\ L}{gal}\right) \bullet \left(\frac{1\ g}{1{,}000{,}000\ \mu g}\right) \left(\frac{1 lb}{453.59\ g}\right) \bullet \left(Volume\left[gal\right]\right)$$

Legend / Notes:

1 = GWETS manually shut down.

2 = GWETS operated temporarily.

3 = GWETS restarted.

4 = Collected effluent GWETS sample for laboratory analysis.

GWETS = Groundwater extraction and treatment system

ug/L - Micrograms per liter

lb = Pounds

DRO = Diesel range organics

A = Mass removal is calculated using analytical laboratory results for DRO from samples collected on: 02/07/14.

-- = Not applicable

* = Operational values interpolated from chart recorder data or previous monitoring event.

Groundwater extraction wells on line this month: GW-2, GW-13, GW-15, GW-16

TABLE 2b

Groundwater Extraction and Treatment System Summary of Operations - May

DFSP, Norwalk

15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	GW-2 Totalizer Reading (gallons)	GW-13 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from the North-East Area (gallons)	Groundwater Extracted from the North-West Area (gallons)	NPDES Discharge Totalizer Reading (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed (lb)
05/01/14	*		3,004,067	1,914,091	609,169	6,025,592	6,634,761	4,918,158	70,054,456	--	9,915
05/02/14	Technician	1	3,012,762	1,919,814	613,742	6,030,792	6,644,534	4,932,576	70,074,665	--	9,916
05/03/14	*		3,021,952	1,925,825	618,173	6,036,240	6,654,413	4,947,777	70,094,725	--	9,916
05/04/14	*		3,031,142	1,931,835	622,604	6,041,688	6,664,293	4,962,977	70,114,786	--	9,916
05/05/14	Technician		3,039,056	1,937,011	626,420	6,046,380	6,672,800	4,976,067	70,132,060	--	9,916
05/06/14	Technician		3,047,937	1,943,484	630,766	6,051,819	6,682,584	4,991,421	70,152,600	--	9,917
05/07/14	Technician		3,055,963	1,949,392	634,991	6,056,941	6,691,932	5,005,355	70,172,150	--	9,917
05/08/14	*		3,065,044	1,956,074	640,281	6,062,455	6,702,736	5,021,118	70,193,233	--	9,917
05/09/14	Technician		3,072,656	1,961,674	644,715	6,067,077	6,711,792	5,034,330	70,210,905	--	9,917
05/10/14	*		3,081,703	1,968,309	649,596	6,072,453	6,722,048	5,050,012	70,231,487	--	9,918
05/11/14	*		3,090,750	1,974,944	654,476	6,077,829	6,732,305	5,065,694	70,252,069	--	9,918
05/12/14	Technician		3,099,677	1,981,492	659,293	6,083,135	6,742,427	5,081,169	70,272,380	--	9,918
05/13/14	*		3,103,839	1,984,373	661,741	6,085,817	6,747,558	5,088,212	70,280,808	--	9,918
05/14/14	Technician		3,108,151	1,987,358	664,278	6,088,597	6,752,874	5,095,509	70,289,540	--	9,918
05/15/14	*		3,115,748	1,992,767	668,840	6,093,535	6,762,375	5,108,514	70,308,132	--	9,919
05/16/14	Technician	1	3,124,136	1,998,739	673,877	6,098,988	6,772,865	5,122,875	70,328,660	--	9,919
05/17/14	*		3,132,523	2,004,793	678,966	6,104,484	6,783,450	5,137,315	70,348,110	--	9,919
05/18/14	*		3,140,910	2,010,846	684,055	6,109,980	6,794,035	5,151,756	70,367,560	--	9,919
05/19/14	Technician		3,147,695	2,015,744	688,172	6,114,427	6,802,599	5,163,439	70,383,295	--	9,919
05/20/14	Technician		3,157,266	2,022,649	693,676	6,120,430	6,814,106	5,179,915	70,405,660	--	9,920
05/21/14	*		3,165,399	2,028,451	698,540	6,125,790	6,824,331	5,193,849	70,424,841	--	9,920
05/22/14	Technician		3,172,594	2,033,584	702,844	6,130,533	6,833,377	5,206,178	70,441,810	--	9,920
05/23/14	*		3,180,945	2,039,480	707,603	6,135,904	6,843,507	5,220,424	70,461,184	--	9,920
05/24/14	*		3,189,295	2,045,376	712,362	6,141,275	6,853,636	5,234,671	70,480,557	--	9,921
05/25/14	*		3,197,646	2,051,272	717,121	6,146,645	6,863,766	5,248,918	70,499,931	--	9,921
05/26/14	*		3,205,997	2,057,168	721,880	6,152,016	6,873,896	5,263,165	70,519,304	--	9,921
05/27/14	Technician		3,215,107	2,063,601	727,072	6,157,876	6,884,947	5,278,708	70,540,440	--	9,921
05/28/14	*		3,223,470	2,069,333	731,956	6,163,326	6,895,282	5,292,803	70,559,690	--	9,922
05/29/14	Technician	1,2,3	3,233,076	2,075,918	737,566	6,169,588	6,907,153	5,308,993	70,581,800	--	9,922
05/30/14	Off line		3,233,076	2,075,918	737,566	6,169,588	6,907,153	5,308,993	70,581,800	--	9,922
05/31/14	Off line		3,233,076	2,075,918	737,566	6,169,588	6,907,153	5,308,993	70,581,800	--	9,922

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	May	Quarter 1, 2014	Quarter 2, 2014	Quarter 3, 2014	Quarter 4, 2014	2014	April 1996 to Date
Volume	548,280	1,950,806	793,785	--	--	2,744,591	70,581,800

Cumulative Mass DRO Removed by the GWETS [A] (lb)			
Period	May	Quarter 2 to Date	April 1996 to Date
Mass	6.86	9.94	9,921.97

$$Liquid\text{-}Phase\ DRO\ Mass\left[lb\right] = \left(Conc.\left[\frac{\mu g}{L}\right]\right) \bullet \left(\frac{3.785\ L}{gal}\right) \bullet \left(\frac{1\ g}{1{,}000{,}000\ \mu g}\right) \left(\frac{1lb}{453.59\ g}\right) \bullet \left(Volume\left[gal\right]\right)$$

Legend / Notes:

1 = Collected effluent GWETS sample for laboratory analysis.

2 = Collected surge tank and pre MX-21 GWETS samples for laboratory analysis.

3 = GWETS manually shut down.

GWETS = Groundwater extraction and treatment system

ug/L - Micrograms per liter

lb = Pounds

DRO = Diesel range organics

A = Mass removal is calculated using analytical laboratory results for DRO from samples collected on: 02/07/14.

-- = Not applicable

* = Operational values interpolated from chart recorder data or previous monitoring event.

Groundwater extraction wells on line this month: GW-2, GW-13, GW-15, GW-16

TABLE 2c

Groundwater Extraction and Treatment System Summary of Operations - June

DFSP, Norwalk

15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	GW-2 Totalizer Reading (gallons)	GW-13 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from the North-East Area (gallons)	Groundwater Extracted from the North-West Area (gallons)	NPDES Discharge Totalizer Reading (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed (lb)
06/01/14	Off line		3,233,076	2,075,918	737,566	6,169,588	6,907,153	5,308,993	70,581,800	--	9,922
06/02/14	Off line		3,233,076	2,075,918	737,566	6,169,588	6,907,153	5,308,993	70,581,800	--	9,922
06/03/14	Off line		3,233,076	2,075,918	737,566	6,169,588	6,907,153	5,308,993	70,581,800	--	9,922
06/04/14	Technician	1	3,233,076	2,075,918	737,566	6,169,588	6,907,153	5,308,993	70,581,800	--	9,922
06/05/14	Technician	2	3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/06/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/07/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/08/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/09/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/10/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/11/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/12/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/13/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/14/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/15/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/16/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/17/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/18/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/19/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/20/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/21/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/22/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/23/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/24/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/25/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/26/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/27/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/28/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/29/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/30/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	June	Quarter 1, 2014	Quarter 2, 2014	Quarter 3, 2014	Quarter 4, 2014	2014	April 1996 to Date
Volume	18,400	1,950,806	812,185	--	--	2,762,991	70,600,200

Cumulative Mass DRO Removed by the GWETS [A] (lb)			
Period	June	Quarter 2 to Date	April 1996 to Date
Mass	0.23	10.17	9,922.20

$$Liquid\text{-}Phase\ DRO\ Mass\left[lb\right] = \left(Conc.\left[\frac{\mu g}{L}\right]\right) \bullet \left(\frac{3.785\ L}{gal}\right) \bullet \left(\frac{1\ g}{1{,}000{,}000\ \mu g}\right) \left(\frac{1 lb}{453.59\ g}\right) \bullet \left(Volume\left[gal\right]\right)$$

Legend / Notes:

1 = GWETS restarted.

2 = GWETS manually shut down.

GWETS = Groundwater extraction and treatment system

lb = Pounds

ug/L - Micrograms per liter

DRO = Diesel range organics

A = Mass removal is calculated using analytical laboratory results for DRO from samples collected on: 02/07/14.

-- = Not applicable

* = Operational values interpolated from chart recorder data or previous monitoring event.

Groundwater extraction wells on line this month: GW-13, GW-15, GW-16

TABLE 3a
Soil Vapor Extraction System Summary of Operations - April
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow C (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration with Dilution A,B (ppmv)	Field Process Concentration with Dilution A,B (ppmv)	Field Effluent Concentration A,B (ppmv)	Cumulative Vapor-Phase TPHg Removed (lb)
04/01/14	*		21,129	135	--	--	--	--	--	2,958.0
04/02/14	Technician		21,133	133	8	86	--	--	--	2,958.0
04/03/14	*		21,157	133	--	--	--	--	--	2,958.1
04/04/14	Technician		21,181	140	8	98	--	1.9	0.0	2,958.2
04/05/14	*		21,205	140	--	--	--	--	--	2,958.2
04/06/14	*		21,229	140	--	--	--	--	--	2,958.3
04/07/14	*		21,253	140	--	--	--	--	--	2,958.4
04/08/14	*		21,277	140	--	--	--	--	--	2,958.4
04/09/14	*		21,301	140	--	--	--	--	--	2,958.5
04/10/14	*		21,325	140	--	--	--	--	--	2,958.6
04/11/14	*		21,349	140	--	--	--	--	--	2,958.6
04/12/14	*		21,373	140	--	--	--	--	--	2,958.7
04/13/14	*		21,397	140	--	--	--	--	--	2,958.8
04/14/14	*		21,421	140	--	--	--	--	--	2,958.9
04/15/14	*		21,445	140	--	--	--	--	--	2,958.9
04/16/14	*		21,469	140	--	--	--	--	--	2,959.0
04/17/14	*		21,493	140	--	--	--	--	--	2,959.1
04/18/14	*		21,517	140	--	--	--	--	--	2,959.1
04/19/14	*		21,541	140	--	--	--	--	--	2,959.2
04/20/14	*		21,565	140	--	--	--	--	--	2,959.3
04/21/14	Technician		21,252	135	8	111	--	--	--	2,959.3
04/22/14	Technician		21,277	133	8	101	--	--	--	2,959.4
04/23/14	Technician	1	21,301	138	8	104	--	1.9	0.5	2,959.5
04/24/14	*		21,325	138	--	--	--	--	--	2,959.5
04/25/14	Technician		21,349	136	8	98	--	--	--	2,959.6
04/26/14	*		21,373	136	--	--	--	--	--	2,959.7
04/27/14	*		21,397	136	--	--	--	--	--	2,959.7
04/28/14	Technician		21,421	131	8	104	--	--	--	2,959.8
04/29/14	*		21,445	131	--	--	--	--	--	2,959.9
04/30/14	Technician		21,468	151	6	116	--	--	--	2,959.9

Cumulative Mass TPHg Removed by the VES [A] (lb)			
Period	April	Quarter 2 to Date	April 1996 to Date
Mass	2.1	2.1	2,959.9

$$Vapor\text{-}Phase\ TPHg\ Mass\left[lb\right] = \left(Conc.\left[\frac{\mu g}{L}\right]\right) \bullet \left(\frac{28.32\ L}{ft^3}\right) \bullet \left(\frac{1\ g}{1{,}000{,}000\ \mu g}\right) \left(\frac{1 lb}{453.59\ g}\right) \bullet \left(Flow\left[scfm\right]\right) \bullet \left(\frac{60\ \min}{hr}\right) \bullet \left(OpTime\left[hrs\right]\right)$$

Legend / Notes:

1 = Collected monthly influent, after GAC-1, after GAC-2, and Effluent samples for laboratory analysis.

VES = Soil vapor extraction system
scfm = Standard cubic feet per minute
in. Hg = Inches of mercury
°F = Degrees Fahrenheit
ppmv = Parts per million by volume
lb = Pounds

A = Concentrations obtained with a calibrated PID.
B = Concentrations correlated to and expressed as hexane.
C = Reading calculated using Dwyer DS-300 pitot tube conversion from source wells.
D = Hydrocarbon removal is calculated using analytical laboratory results for TPHg (if not detected, half the detection limit is used) from samples collected on: 03/21/14 and 04/23/14 (laboratory reports attached).
-- = Not applicable or not measured
* = Operational values interpolated from chart recorder data or previous monitoring event.

Vapor extraction wells on line this month: VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7

TABLE 3b
Soil Vapor Extraction System Summary of Operations - May
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow C (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration with Dilution A,B (ppmv)	Field Process Concentration with Dilution A,B (ppmv)	Field Effluent Concentration A,B (ppmv)	Cumulative Vapor-Phase TPHg Removed (lb)
05/01/14	*		21,492	151	--	--	--	--	--	2,960.0
05/02/14	Technician		21,515	149	5	120	--	2.3	0.7	2,960.1
05/03/14	*		21,539	149	--	--	--	--	--	2,960.2
05/04/14	*		21,563	149	--	--	--	--	--	2,960.2
05/05/14	Technician		21,587	138	8	90	--	--	--	2,960.3
05/06/14	Technician		21,611	140	7	101	--	--	--	2,960.4
05/07/14	Technician		21,635	136	8	100	--	1.5	0.0	2,960.4
05/08/14	*		21,659	136	--	--	--	--	--	2,960.5
05/09/14	Technician		21,683	134	7	115	--	2.6	0.0	2,960.6
05/10/14	*		21,707	134	--	--	--	--	--	2,960.6
05/11/14	*		21,731	134	--	--	--	--	--	2,960.7
05/12/14	Technician		21,755	131	8	130	--	--	--	2,960.8
05/13/14	*		21,779	131	--	--	--	--	--	2,960.8
05/14/14	Technician		21,803	140	8	110	--	--	--	2,960.9
05/15/14	*		21,827	140	--	--	--	--	--	2,961.0
05/16/14	Technician	1	21,851	171	4	118	1.5	1.1	0.0	2,961.1
05/17/14	*		21,875	171	--	--	--	--	--	2,961.1
05/18/14	Auto Shutdown		21,885	171	--	--	--	--	--	2,961.2
05/19/14	Technician	2	21,900	135	7	74	--	--	--	2,961.2
05/20/14	Technician		21,924	145	8	103	--	--	--	2,961.3
05/21/14	*		21,948	145	--	--	--	--	--	2,961.4
05/22/14	Technician		21,972	143	8	96	--	--	--	2,961.4
05/23/14	*		21,996	143	--	--	--	--	--	2,961.5
05/24/14	*		22,020	143	--	--	--	--	--	2,961.6
05/25/14	*		22,044	143	--	--	--	--	--	2,961.7
05/26/14	*		22,068	143	--	--	--	--	--	2,961.7
05/27/14	Technician		22,092	135	8	122	--	--	--	2,961.8
05/28/14	*		22,116	135	--	--	--	--	--	2,961.9
05/29/14	Technician	3	22,130	135	--	--	--	--	--	2,961.9
05/30/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
05/31/14	Off line		22,130	NA	--	--	--	--	--	2,961.9

Cumulative Mass TPHg Removed by the VES [A] (lb)			
Period	May	Quarter 2 to Date	April 1996 to Date
Mass	1.9	4.0	2,961.9

$$Vapor\text{-}Phase\ TPHg\ Mass\left[lb\right] = \left(Conc.\left[\frac{\mu g}{L}\right]\right) \bullet \left(\frac{28.32\ L}{ft^3}\right) \bullet \left(\frac{1\ g}{1{,}000{,}000\ \mu g}\right) \left(\frac{1\ lb}{453.59\ g}\right) \bullet \left(Flow\left[scfm\right]\right) \bullet \left(\frac{60\ \min}{hr}\right) \bullet \left(OpTime\left[hrs\right]\right)$$

Legend / Notes:

1 = Collected monthly influent, after GAC-1, after GAC-2, and Effluent samples for laboratory analysis.
2 = VES restarted.
3 = VES manually shut down.

VES = Soil vapor extraction system
scfm = Standard cubic feet per minute
in. Hg = Inches of mercury
°F = Degrees Fahrenheit
ppmv = Parts per million by volume
lb = Pounds

A = Concentrations obtained with a calibrated PID.
B = Concentrations correlated to and expressed as hexane.
C = Reading calculated using Dwyer DS-300 pitot tube conversion from source wells.
D = Hydrocarbon removal is calculated using analytical laboratory results for TPHg (if not detected, half the detection limit is used) from samples collected on: 04/23/14 and 05/16/14 (laboratory reports attached).
-- = Not applicable or not measured
* = Operational values interpolated from chart recorder data or previous monitoring event.

Vapor extraction wells on line this month: VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7

TABLE 3c
Soil Vapor Extraction System Summary of Operations - June
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow C (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration with Dilution A,B (ppmv)	Field Process Concentration with Dilution A,B (ppmv)	Field Effluent Concentration A,B (ppmv)	Cumulative Vapor-Phase TPHg Removed (lb)
06/01/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/02/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/03/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/04/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/05/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/06/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/07/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/08/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/09/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/10/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/11/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/12/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/13/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/14/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/15/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/16/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/17/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/18/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/19/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/20/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/21/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/22/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/23/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/24/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/25/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/26/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/27/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/28/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/29/14	Off line		22,130	NA	--	--	--	--	--	2,961.9
06/30/14	Off line		22,130	NA	--	--	--	--	--	2,961.9

Cumulative Mass TPHg Removed by the VES [A] (lb)			
Period	June	Quarter 2 to Date	April 1996 to Date
Mass	0.0	4.0	2,961.9

$$Vapor\text{–}Phase\ TPHg\ Mass\left[lb\right] = \left(Conc.\left[\frac{\mu g}{L}\right]\right) \bullet \left(\frac{28.32\ L}{ft^3}\right) \bullet \left(\frac{1\ g}{1{,}000{,}000\ \mu g}\right) \left(\frac{1 lb}{453.59\ g}\right) \bullet \left(Flow\left[scfm\right]\right) \bullet \left(\frac{60\ \min}{hr}\right) \bullet \left(OpTime\left[hrs\right]\right)$$

Legend / Notes:

VES = Soil vapor extraction system
in. Hg = Inches of mercury
ppmv = Parts per million by volume
scfm = Standard cubic feet per minute
°F = Degrees Fahrenheit
lb = Pounds
A = Concentrations obtained with a calibrated PID.
B = Concentrations correlated to and expressed as hexane.
C = Reading calculated using Dwyer DS-300 pitot tube conversion from source wells.
D = Hydrocarbon removal is calculated using analytical laboratory results for TPHg (if not detected, half the detection limit is used) from samples collected on: Off line
-- = Not applicable or not measured
* = Operational values interpolated from chart recorder data or previous monitoring event.

Vapor extraction wells on line this month: Off line

TABLE 4
Historical Summary of Analytical Sampling Results - Influent Vapor
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	TPHg Field PID Reading	TPHg		TPHg as Hexane		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MtBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
04/29/11		--	TO-3 & 8260B	--	--	--	**17**	**60**	**0.021**	**0.067**	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
05/27/11		--	TO-3 & 8260B	--	--	--	**13**	**46**	**0.021**	**0.067**	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
06/30/11		--	TO-3 & 8260B	--	--	--	**11**	**39**	**0.018**	**0.057**	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
07/27/11		--	TO-3 & 8260B	--	--	--	**8.6**	**31**	**0.013**	**0.042**	<0.0050	<0.019	**0.012**	**0.052**	--	--	--	--	**0.013**	**0.056**	<0.010	<0.036
08/26/11		--	TO-3 & 8260B	--	--	--	**7.8**	**28**	**0.012**	**0.038**	<0.0050	<0.019	**0.020**	**0.087**	--	--	--	--	**0.0264**	**0.115**	<0.010	<0.036
09/30/11		--	TO-3 & 8260B	--	--	--	**6.9**	**25**	**0.012**	**0.038**	<0.0050	<0.019	**0.011**	**0.048**	--	--	--	--	**0.011**	**0.048**	<0.010	<0.036
10/28/11		--	TO-3 & 8260B	--	--	--	**5.4**	**19**	**0.011**	**0.035**	<0.0050	<0.019	**0.015**	**0.065**	--	--	--	--	**0.028**	**0.12**	<0.010	<0.036
11/30/11		--	TO-3 & 8260B	--	--	--	**8.5**	**30**	**0.012**	**0.038**	<0.0050	<0.019	**0.0067**	**0.029**	--	--	--	--	**0.010**	**0.043**	<0.010	<0.036
12/28/11		--	TO-3 & 8260B	--	--	--	**8.6**	**31**	**0.024**	**0.077**	**0.0075**	**0.028**	**0.0096**	**0.042**	--	--	--	--	**0.022**	**0.095**	<0.010	<0.036
01/26/12		--	TO-3 & 8260B	--	--	--	**3.7**	**13**	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
02/24/12		--	TO-3 & 8260B	--	--	--	**4.6**	**16**	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
03/28/12		--	TO-3 & 8260B	--	--	--	**4.1**	**15**	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
04/27/12		--	TO-3 & 8260B	--	--	--	**3.6**	**13**	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
05/31/12		--	TO-3 & 8260B	--	--	--	**6.5**	**23**	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
06/28/12		--	TO-3 & 8260B	--	--	--	**5.3**	**19**	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
07/26/12		--	TO-3 & 8260B	4.1	--	--	**4.1**	**15**	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
08/31/12		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
09/27/12		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
10/30/12		--	TO-3 & 8260B	1.5	--	--	**6.1**	**22**	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
11/26/12		--	TO-3 & 8260B	4.2	--	--	**4.2**	**15**	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
12/19/12		--	TO-3 & 8260B	3.2	--	--	**3.2**	**11**	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
01/31/13		--	TO-3 & 8260B	4.6	--	--	**4.6**	**16**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/27/13		--	TO-3 & 8260B	4.5	--	--	**4.5**	**16**	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
03/28/13		--	TO-3 & 8260B	6.7	--	--	**6.7**	**24**	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
04/22/13		--	TO-3 & 8260B	5.4	--	--	**5.4**	**19**	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
07/29/13		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
08/12/13		--	TO-3 & 8260B	--	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
10/30/13		--	TO-3 & 8260B	3.0	--	--	**3.0**	**11**	**0.014**	**0.045**	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
11/27/13		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	**0.015**	**0.065**	<0.010	<0.036
12/19/13		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
03/21/14		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	<0.0050	<0.022	<0.010	<0.043	<0.015	<0.065	<0.010	<0.036

TABLE 4
Historical Summary of Analytical Sampling Results - Influent Vapor
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	TPHg Field PID Reading	TPHg		TPHg as Hexane		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MtBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
04/23/14		VEW-32, VEW-33, VEW-34, VEW-35, EW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	TO-3 & 8260B	1.9	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	<0.0050	<0.022	<0.010	<0.043	<0.015	<0.065	<0.010	<0.036
05/16/14	1	VEW-32, VEW-33, VEW-34, VEW-35, EW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	TO-3 & 8260B	1.1	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	<0.0050	<0.022	<0.010	<0.043	<0.015	<0.065	<0.010	<0.036

Legend / Notes:

Data collected prior to April 2014 not verified for completeness nor accuracy.
VES = Soil vapor extraction system
TPHg = Total petroleum hydrocarbons as gasoline
MtBE = Methyl tertiary-butyl ether
ppmv = Parts per million by volume
µg/L = Micrograms per liter
<1 = Not detected at or above the Method Reporting Limit (MRL) shown.
-- = Not available or not analyzed

1 = VES manually shut down on 05/29/14.

TABLE 5

Historical Summary of Analytical Sampling Results - Influent Groundwater

DFSP, Norwalk

15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
04/22/08		--	--	--	--	**71**	**25**	**17**	**42**	**30**	**14**	**4.6**	<2.0	<2.0	<2.0
05/01/08		--	--	**810**	--	--	--	--	--	--	--	--	--	--	--
05/16/08		--	--	**760**	--	--	--	--	--	--	--	--	--	--	--
06/12/08		--	--	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	**25**	**7.7**	<2.0	<2.0	<2.0
07/19/08		--	--	**170**	<100	**27**	**0.77**	**7.0**	**13**	**7.9**	<10	**3.9**	<2.0	<2.0	<2.0
09/03/08		--	--	--	--	--	--	--	--	--	<10	--	--	--	--
09/08/08		--	--	--	--	**27**	**0.99**	**8.3**	**13**	**8.2**	<10	**3.1**	<2.0	<2.0	<2.0
09/15/08		--	--	--	--	**36**	**0.81**	**8.5**	**12**	**6.8**	<10	**3.8**	<2.0	<2.0	<2.0
11/13/08		--	--	--	--	**27**	<0.50	**2.0**	**12**	**5.6**	<10	<0.50	<2.0	<2.0	<2.0
11/26/08		--	--	--	--	<0.50	<0.50	<0.50	**1.3**	**0.61**	**16**	**5.6**	<2.0	<2.0	<2.0
12/13/08		--	--	--	--	<0.50	<0.50	**0.56**	**1.1**	**0.54**	**19**	**7.0**	<2.0	<2.0	<2.0
01/09/09		--	--	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
03/05/09		--	--	<100	--	**21**	<0.50	**2.5**	**7.2**	**3.1**	**12**	**3.1**	<2.0	<2.0	<2.0
03/18/09		--	--	**200**	**170**	**21**	<0.50	**2.9**	**7.0**	**4.5**	**13**	**3.3**	<2.0	<2.0	<2.0
05/15/09		--	--	<100	--	--	--	--	--	--	--	--	--	--	--
06/04/09		--	--	**190**	--	**26**	<0.50	**3.3**	**10**	**6.6**	<10	**4.8**	<2.0	<2.0	<2.0
06/24/09		--	--	--	--	**28**	<0.50	**2.5**	**7.6**	**4.2**	**12**	**4.4**	<2.0	<2.0	<2.0
05/28/09		--	--	**170**	--	**27**	<0.50	**2.6**	**7.9**	**4.5**	<10	**3.6**	<2.0	<2.0	<2.0
11/19/09		--	--	<100	--	**15**	<0.50	**1.3**	**5.8**	**2.9**	**5.6**	**2.3**	**1.2**	<2.0	<2.0
10/26/10		--	--	--	--	**20**	<0.50	**1.6**	**7.4**	**2.1**	**8.0**	**2.9**	**1.1**	<2.0	<2.0
06/01/11		--	--	**90**	--	--	--	--	--	--	--	--	--	--	--
07/14/11		--	--	--	--	**13**	<0.50	**2.3**	**6.2**	**3.0**	**6.7**	**1.6**	<2.0	<2.0	<2.0
09/13/11		--	--	--	--	**5.0**	<0.50	**0.37**	**3.4**	**0.99**	<10	**1.3**	<2.0	<2.0	<2.0
09/22/11		--	--	--	--	**5.5**	<0.50	**0.92**	**7.2**	**1.6**	**5.6**	**1.1**	<2.0	<2.0	<2.0
10/19/11		--	--	--	--	**8.2**	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<2.0	<2.0	<2.0

TABLE 5

Historical Summary of Analytical Sampling Results - Influent Groundwater

DFSP, Norwalk

15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
01/20/12		--	--	--	--	**14**	<0.50	**2.8**	**7.8**	**1.2**	**16**	**1.3**	**0.42**	<2.0	<2.0
02/03/12		--	--	**120**	**340**	--	--	--	--	--	--	--	--	--	--
02/17/12		--	--	--	--	**10**	<0.50	**1.5**	**7.4**	**1.2**	**15**	**1.2**	**0.39**	<2.0	<2.0
02/24/12		--	--	**180**	--	**26**	<0.50	**1.0**	**7.0**	**1.2**	<10	**1.2**	**0.41**	<2.0	<2.0
03/02/12		--	--	--	--	**23**	<0.50	**1.4**	**11**	**2.4**	**8.7**	**1.4**	**0.47**	<2.0	<2.0
03/06/12		--	--	--	--	**28**	<0.50	**1.0**	**9.0**	**1.7**	**13**	**1.1**	**0.37**	<2.0	<2.0
06/15/12		--	--	--	--	**39**	**13**	**17**	**88**	**26**	<10	**1.3**	**0.52**	<2.0	<2.0
08/31/12		--	--	**820**	**940**	--	--	--	--	--	--	--	--	--	--
09/27/12		--	--	**5,300**	**3,800**	--	--	--	--	--	--	--	--	--	--
10/23/12		--	--	--	--	**67**	**60**	**110**	**460**	**140**	<10	<0.50	<2.0	<2.0	<2.0
01/31/13		--	--	**3,600**	--	--	--	--	--	--	--	--	--	--	--
05/01/13		--	--	**6,300**	**5,500**	**20**	**4.7**	**8.0**	**41**	**14**	**4.8**	**0.56**	<2.0	<2.0	<2.0
07/12/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
08/20/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
12/19/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
02/07/14		--	--	**1,500**	**2,300**	--	--	--	--	--	--	--	--	--	--
03/21/14		--	--	--	--	**61**	**5.1**	**23**	**150**	**45**	<10	**0.87**	<2.0	<2.0	<2.0
05/29/14	1	--	8015M & 8260B	--	--	**29**	**1.0**	**30**	**180**	**45**	<10	**1.0**	<2.0	<2.0	<2.0

Legend / Notes:

Data collected prior to July 2014 not verified for completeness nor accuracy.

GWETS = Groundwater extraction and treatment system

TPHd = Total petroleum hydrocarbons as diesel

TPHg = Total petroleum hydrocarbons as gasoline

TBA = tertiary-Butyl alcohol

MTBE = Methyl tertiary-butyl ether

DIPE = Diisopropyl ether

ETBE = Ethyl tertiary-butyl ether

TAME = tertiary-Amyl-methyl ether

µg/L = Micrograms per liter

<1 = Not detected at or above the Method Reporting Limit (MRL) shown.

-- = Not available or not analyzed

1 = GWETS manually shut down.

2 = GWETS restarted on 07/02/14.

TABLE 6a
Summary of LNAPL Removal in GMW-62 - 2nd Quarter 2014
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Purged with Vac Truck (approx gallons)	Weight of LNAPL Removed with Socks (ounces)	Amount of LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed with Vac Truck [A] (gallons)	Cumulative Weight of LNAPL Removed with Vac Truck 1 [A] (pounds)
4/14/14	NM	NM	NM	---	No Sock in Well	No Sock in Well	31.00	212.14
4/22/14	30.57	34.69	4.12	---	No Sock in Well	No Sock in Well	31.00	212.14
5/1/14	30.70	36.90	6.20	---	No Sock in Well	No Sock in Well	31.00	212.14
5/5/14	30.27	36.52	6.25	**10.00**	No Sock in Well	No Sock in Well	41.00	280.57
5/19/14	31.01	36.05	5.04	**4.00**	No Sock in Well	No Sock in Well	45.00	307.95
6/11/14	30.53	35.67	5.14	---	No Sock in Well	No Sock in Well	45.00	307.95
6/20/14	30.51	35.85	5.34	---	No Sock in Well	No Sock in Well	45.00	307.95
6/30/14	30.54	36.08	5.54	---	No Sock in Well	No Sock in Well	45.00	307.95
			Totals	**45.00**	**0.00**	**0.00**	**45.00**	**307.95**

Notes: LNAPL = light non-aqueous phase liquids.
feet btc = feel below top of casing.
approx = approximate.
--- = not applicable.
NM = not measured.
Sock = LNAPL absorbent sock.
Vac Truck = vacuum truck used to purge LNAPL from the well.
A = Cumulative LNAPL removed since January 2014. LNAPL removed prior to January 2014 can be found in previously submitted Remediation Progress Reports.

TABLE 6b
Summary of LNAPL Removal in GMW-4 - 2nd Quarter 2014
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	Weight of LNAPL Removed with Socks (ounces)	Amount of LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed with Socks [A] (gallons)	Cumulative Weight of LNAPL Removed with Socks [A] (pounds)
4/14/14	31.11	31.17	0.06	No Sock in Well	No Sock in Well	0.00	0.00
4/22/14	31.36	31.41	0.05	No Sock in Well	No Sock in Well	0.00	0.00
5/1/14	31.27	31.32	0.05	No Sock in Well	No Sock in Well	0.00	0.00
5/5/14	31.22	31.27	0.05	No Sock in Well	No Sock in Well	0.00	0.00
5/19/14	31.53	31.59	0.06	No Sock in Well	No Sock in Well	0.00	0.00
6/9/14	31.64	31.73	0.09	No Sock in Well	No Sock in Well	0.00	0.00
6/20/14	31.55	31.61	0.06	No Sock in Well	No Sock in Well	0.00	0.00
6/30/14	31.98	32.07	0.09	No Sock in Well	No Sock in Well	0.00	0.00
			Totals	**0.00**	**0.00**	**0.00**	**0.00**

Notes: LNAPL = light non-aqueous phase liquids.
feet btc = feel below top of casing.
Sock = LNAPL absorbent sock.
Vac Truck = vacuum truck used to purge LNAPL from the well.
A = Cumulative LNAPL removed since January 2014. LNAPL removed prior to January 2014 can be found in previously submitted Remediation Progress Reports.

TABLE 6c
Summary of LNAPL Removal in GMW-21 - 2nd Quarter 2014
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Purged with Vac Truck (approx gallons)	Weight of LNAPL Removed with Socks * (ounces)	Amount of LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed with Vac Truck and Socks [A] (gallons)	Cumulative Weight of LNAPL Removed with Vac Truck and Socks [A] (pounds)
4/14/14	32.07	32.18	0.11	---	28	32.73	3.58	24.51
4/22/14	32.00	32.26	0.26	---	28	32.73	3.84	26.26
5/1/14	32.13	32.45	0.32	---	28	32.73	4.09	28.01
5/5/14	Sheen	32.18	Sheen	---	28	32.73	4.35	29.76
5/19/14	---	32.23	0.00	---	28	32.73	4.60	31.51
6/9/14	---	32.24	0.00	---	28	32.73	4.86	33.26
6/20/14	---	32.28	0.00	---	28	32.73	5.12	35.01
6/30/14	---	32.32	0.00	---	28	32.73	5.37	36.76
			Totals	**5.00**	**504**	**589.12**	**5.37**	**36.76**

Notes: LNAPL = light non-aqueous phase liquids.
feet btc = feel below top of casing.
approx = approximate.
--- = not applicable.
Sock = LNAPL absorbent sock (3" by 18").
Vac Truck = vacuum truck used to purge LNAPL from the well.
* = from 1/7/2014 to 6/30/2014 the weight of used sock was estimated and based on the weight of the socks removed 7/30/2014 and 8/8/2014. Starting 7/30/14, the weight of the used sock was measured in the field during LNAPL recovery.
A = Cumulative LNAPL removed since January 2014. LNAPL removed prior to January 2014 can be found in previously submitted Remediation Progress Reports.

TABLE 6d
Summary of LNAPL Removal in MW-15 - 2nd Quarter 2014
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	Weight of LNAPL Removed with Socks (ounces)	Amount of LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed with Socks [A] (gallons)	Cumulative Weight of LNAPL Removed with Socks [A] (pounds)
4/14/14	32.72	32.81	0.09	No Sock in Well	No Sock in Well	0.00	0.00
4/22/14	32.95	33.18	0.23	No Sock in Well	No Sock in Well	0.00	0.00
5/1/14	32.86	33.06	0.20	No Sock in Well	No Sock in Well	0.00	0.00
5/5/14	32.78	32.93	0.15	No Sock in Well	No Sock in Well	0.00	0.00
5/19/14	33.17	33.63	0.46	No Sock in Well	No Sock in Well	0.00	0.00
6/9/14	33.21	33.81	0.60	No Sock in Well	No Sock in Well	0.00	0.00
6/20/14	33.13	33.53	0.40	No Sock in Well	No Sock in Well	0.00	0.00
6/30/14	33.60	34.25	0.65	No Sock in Well	No Sock in Well	0.00	0.00
			Totals	**0.00**	**0.00**	**0.00**	**0.00**

Notes: LNAPL = light non-aqueous phase liquids.
feet btc = feel below top of casing.
approx = approximate.
--- = not applicable.
NM = not measured.
Sock = LNAPL absorbent sock.
Vac Truck = vacuum truck used to purge LNAPL from the well.
A = Cumulative LNAPL removed since January 2014. LNAPL removed prior to January 2014 can be found in previously submitted Remediation Progress Reports.

TABLE 6e
Summary of LNAPL Removal in PZ-3 - 2nd Quarter 2014
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	Weight of LNAPL Removed with Socks (ounces)	Amount of LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed with Socks [A] (gallons)	Cumulative Weight of LNAPL Removed with Socks [A] (pounds)
4/14/14	---	32.11	0.00	NM	NM	0.00	0.00
4/22/14	---	32.10	0.00	NM	NM	0.00	0.00
5/1/14	---	32.25	0.00	NM	NM	0.00	0.00
5/5/14	---	32.23	0.00	NM	NM	0.00	0.00
5/19/14	---	32.29	0.00	NM	NM	0.00	0.00
6/9/14	---	32.29	0.00	NM	NM	0.00	0.00
6/20/14	---	32.33	0.00	NM	NM	0.00	0.00
6/30/14	---	32.42	0.00	NM	NM	0.00	0.00
			Totals	**0.00**	**0.00**	**0.00**	**0.00**

Notes: LNAPL = light non-aqueous phase liquids.
feet btc = feel below top of casing.
approx = approximate.
--- = not applicable.
NM = not measured.
Sock = LNAPL absorbent sock (1" by 18").
Vac Truck = vacuum truck used to purge LNAPL from the well.
A = Cumulative LNAPL removed since January 2014. LNAPL removed prior to January 2014 can be found in previously submitted Remediation Progress Reports.

TABLE 6f
Summary of LNAPL Removal in TF-18 - 2nd Quarter 2014
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Purged with Vac Truck (approx gallons)	Weight of LNAPL Removed with Socks * (ounces)	Amount of LNAPL Removed with Socks (fluid ounces)	Cumulative LNAPL Removed with Vac Truck and Socks [A] (gallons)	Cumulative Weight of LNAPL Removed with Vac Truck and Socks [A] (pounds)
4/14/14	29.03	31.35	2.32	---	72	84.16	9.21	62.99
4/22/14	29.25	30.64	1.39	---	72	84.16	9.86	67.49
5/1/14	29.32	31.00	1.68	---	72	84.16	10.52	71.99
5/5/14	29.35	30.82	1.47	**5.00**	72	84.16	16.18	110.71
5/19/14	29.43	30.03	0.60	---	72	84.16	11.84	80.99
6/9/14	29.18	31.81	2.63	---	72	84.16	12.49	85.49
6/20/14	29.46	30.98	1.52	---	72	84.16	13.15	89.99
6/30/14	29.57	31.05	1.48	---	72	84.16	13.81	94.49
			Totals	**28.00**	**1,512**	**1,767.37**	**13.81**	**94.49**

Notes: LNAPL = light non-aqueous phase liquids.
feet btc = feel below top of casing.
approx = approximate.
--- = not applicable.
NM = not measured.
Sock = LNAPL absorbent sock (3" by 18").
Vac Truck = vacuum truck used to purge LNAPL from the well.
* = from 1/7/2014 to 6/30/2014 the weight of used sock was estimated and based on the weight of the socks removed 7/30/2014 and 8/8/2014. Starting 7/30/14, the weight of the used sock was measured in the field during LNAPL recovery.
A = Cumulative LNAPL removed beginning January 2014. LNAPL removed prior to January 2014 can be found in previously submitted Remediation Progress Reports.

APPENDIX A

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 14-04-1672

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons Government Services, Inc.

Client Project Name: DFSP Norwalk - Monthly

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

Approved for release on 04/30/2014 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 - Monthly
Work Order Number: 14-04-1672

Calscience Environmental Laboratories, Inc.

Work Order Narrative

Work Order: 14-04-1672 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 04/23/14. They were assigned to Work Order 14-04-1672.

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

Holding Times:

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

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

Quality Control:

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

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

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

Subcontractor Information:

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

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Calscience Environmental Laboratories, Inc.

Sample Summary

Client:	Parsons Government Services, Inc.	Work Order:	14-04-1672
	100 West Walnut Street	Project Name:	DFSP Norwalk - Monthly
	Pasadena, CA 91124-0002	PO Number:	
		Date/Time Received:	04/23/14 12:55
		Number of Containers:	2
Attn:	Mary Lucas		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
Effluent	14-04-1672-1	04/23/14 10:00	2	Aqueous

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 04/23/14
Work Order: 14-04-1672

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
Effluent	**14-04-1672-1**	**04/23/14 10:00**	**Aqueous**

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Turbidity	0.62	0.050	1.00		NTU	N/A	04/23/14	SM 2130 B
pH	7.00	0.01	1.00	BV,BU	pH units	N/A	04/23/14	SM 4500 H+ B
Oil and Grease	ND	1.0	1.00		mg/L	04/29/14	04/29/14	SM 5520 B

Method Blank						**N/A**		**Aqueous**
Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Oil and Grease	ND	1.0	1.00		mg/L	04/29/14	04/29/14	SM 5520 B

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

Calscience Environmental Laboratories, Inc.

Quality Control - Sample Duplicate

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

Project: DFSP Norwalk - Monthly

Date Received: 04/23/14
Work Order: 14-04-1672
Preparation: N/A
Method: SM 2130 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
Effluent	**Sample**	**Aqueous**	**TUR 3**	**N/A**	**04/23/14 18:30**	**E0423TURD1**
Effluent	**Sample Duplicate**	**Aqueous**	**TUR 3**	**N/A**	**04/23/14 18:30**	**E0423TURD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Turbidity	0.6200	0.6300	2	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - Sample Duplicate

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

Project: DFSP Norwalk - Monthly

Date Received: 04/23/14
Work Order: 14-04-1672
Preparation: N/A
Method: SM 4500 H+ B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
Effluent	**Sample**	**Aqueous**	**PH 1**	**N/A**	**04/23/14 19:15**	**E0423PHD1**
Effluent	**Sample Duplicate**	**Aqueous**	**PH 1**	**N/A**	**04/23/14 19:15**	**E0423PHD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
pH	7.000	7.020	0	0-25	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCSD

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

Project: DFSP Norwalk - Monthly

Date Received: 04/23/14
Work Order: 14-04-1672
Preparation: N/A
Method: SM 5520 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-081-2964	**LCS**	**Aqueous**	**N/A**	**04/29/14**	**04/29/14 16:00**	**E0429OGL1**
099-05-081-2964	**LCSD**	**Aqueous**	**N/A**	**04/29/14**	**04/29/14 16:00**	**E0429OGL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Oil and Grease	40.00	38.50	96	39.20	98	80-120	2	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Sample Analysis Summary Report

Work Order: 14-04-1672 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
SM 2130 B	N/A	688	TUR 3	1
SM 4500 H+ B	N/A	688	PH 1	1
SM 5520 B	N/A	691	N/A	1

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order: 14-04-1672 Page 1 of 1

Qualifiers	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 suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

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

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

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

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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: 4-23-14

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 Andrusky

P.O. NO.: 747577-05000
QUOTE NO.:
LAB USE ONLY 14-04-1672

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)									Comments
1	Effluent		4-23-14	1000	W	2	X	X	X									
						(Rec 4/23/14)												

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Glenn Andrusky	CEL	4-23-14	11:20 AM
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Dannyle CEL	4/23/14	12:55
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Revised: 08/28/08

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 14-04-1672

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS DATE: 04/23/14

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

Temperature 2.7 °C - 0.3 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

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

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

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

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** 804

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Checked by:** 804

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Checked by:** 854

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	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☑	☐
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® ☐_____

Aqueous: ☐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® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** 854

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** 739

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:** 739

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 14-04-1676

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 04/30/2014 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 - Monthly
Work Order Number: 14-04-1676

Calscience Environmental Laboratories, Inc.

Work Order Narrative

Work Order: 14-04-1676 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 04/23/14. They were assigned to Work Order 14-04-1676.

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

Holding Times:

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

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

Quality Control:

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

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

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

Subcontractor Information:

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

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Calscience Environmental Laboratories, Inc.

Sample Summary

Client:	Parsons Government Services, Inc. 100 West Walnut Street Pasadena, CA 91124-0002	Work Order:	14-04-1676
		Project Name:	DFSP Norwalk - Monthly
		PO Number:	
		Date/Time Received:	04/23/14 12:55
		Number of Containers:	7
Attn:	Mary Lucas		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
Effluent	14-04-1676-1	04/23/14 10:00	7	Aqueous

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Project: DFSP Norwalk - Monthly

Date Received: 04/23/14
Work Order: 14-04-1676
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**14-04-1676-1-H**	**04/23/14 10:00**	**Aqueous**	**GC 47**	**04/23/14**	**04/25/14 15:15**	**140423B10**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	90	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-282-193**	**N/A**	**Aqueous**	**GC 47**	**04/23/14**	**04/24/14 12:27**	**140423B10**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	76	68-140	

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Project: DFSP Norwalk - Monthly

Date Received: 04/23/14
Work Order: 14-04-1676
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**14-04-1676-1-D**	**04/23/14 10:00**	**Aqueous**	**GC 1**	**04/24/14**	**04/24/14 18:20**	**140424L011**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	83	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-704-740**	**N/A**	**Aqueous**	**GC 1**	**04/24/14**	**04/24/14 11:11**	**140424L011**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	82	38-134	

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Project: DFSP Norwalk - Monthly

Date Received: 04/23/14
Work Order: 14-04-1676
Preparation: EPA 3020A Total
Method: EPA 6020
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**14-04-1676-1-G**	**04/23/14 10:00**	**Aqueous**	**ICP/MS 03**	**04/23/14**	**04/25/14 01:50**	**140423L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	0.00222	0.00100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-06-003-4404**	**N/A**	**Aqueous**	**ICP/MS 03**	**04/23/14**	**04/24/14 21:51**	**140423L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.00100	1.00	

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 04/23/14
Work Order: 14-04-1676
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	**14-04-1676-1-A**	**04/23/14 10:00**	**Aqueous**	**GC/MS PP**	**04/23/14**	**04/24/14 04:28**	**140423L034**

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	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	5.0	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	5.0	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 04/23/14
Work Order: 14-04-1676
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP Norwalk - Monthly

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	0.50	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	5.0	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	0.50	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	0.50	0.30	1.00	
o-Xylene	ND	0.50	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.	Date Received:	04/23/14
100 West Walnut Street	Work Order:	14-04-1676
Pasadena, CA 91124-0002	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: DFSP Norwalk - Monthly		Page 3 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	102	80-120	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 04/23/14
Work Order: 14-04-1676
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	**099-14-001-13847**	**N/A**	**Aqueous**	**GC/MS PP**	**04/23/14**	**04/24/14 03:10**	**140423L034**

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	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	5.0	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	5.0	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 04/23/14
Work Order: 14-04-1676
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP Norwalk - Monthly

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	0.50	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	5.0	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	0.50	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	0.50	0.30	1.00	
o-Xylene	ND	0.50	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.	Date Received:	04/23/14
100 West Walnut Street	Work Order:	14-04-1676
Pasadena, CA 91124-0002	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: DFSP Norwalk - Monthly		Page 6 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	104	78-126	
1,2-Dichloroethane-d4	99	75-135	
Toluene-d8	100	80-120	

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Project: DFSP Norwalk - Monthly

Date Received: 04/23/14
Work Order: 14-04-1676
Preparation: EPA 5030C
Method: EPA 8015B (M)
Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-04-1751-1	**Sample**	**Aqueous**	**GC 1**	**04/24/14**	**04/24/14 12:23**	**140424S005**
14-04-1751-1	**Matrix Spike**	**Aqueous**	**GC 1**	**04/24/14**	**04/24/14 13:34**	**140424S005**
14-04-1751-1	**Matrix Spike Duplicate**	**Aqueous**	**GC 1**	**04/24/14**	**04/24/14 14:10**	**140424S005**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	2000	1882	94	1858	93	68-122	1	0-18	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Project: DFSP Norwalk - Monthly

Date Received: 04/23/14
Work Order: 14-04-1676
Preparation: EPA 3005A Filt.
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-04-1646-2	**Sample**	**Aqueous**	**ICP/MS 03**	**04/23/14**	**04/24/14 22:26**	**140423S06**
14-04-1646-2	**Matrix Spike**	**Aqueous**	**ICP/MS 03**	**04/23/14**	**04/24/14 22:10**	**140423S06**
14-04-1646-2	**Matrix Spike Duplicate**	**Aqueous**	**ICP/MS 03**	**04/23/14**	**04/24/14 22:13**	**140423S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	ND	0.1000	0.09010	90	0.08643	86	80-120	4	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 04/23/14
Work Order: 14-04-1676
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP Norwalk - Monthly

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Effluent	**Sample**	**Aqueous**	**GC/MS PP**	**04/23/14**	**04/24/14 04:28**	**140423S017**
Effluent	**Matrix Spike**	**Aqueous**	**GC/MS PP**	**04/23/14**	**04/24/14 05:46**	**140423S017**
Effluent	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS PP**	**04/23/14**	**04/24/14 06:13**	**140423S017**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	56.51	113	58.37	117	74-122	3	0-21	
Carbon Tetrachloride	ND	50.00	58.16	116	60.95	122	60-144	5	0-21	
Chlorobenzene	ND	50.00	55.30	111	56.61	113	73-120	2	0-22	
1,2-Dibromoethane	ND	50.00	55.97	112	56.80	114	80-122	1	0-20	
1,2-Dichlorobenzene	ND	50.00	53.86	108	54.89	110	70-120	2	0-26	
1,2-Dichloroethane	ND	50.00	52.63	105	54.93	110	64-142	4	0-20	
1,1-Dichloroethene	ND	50.00	63.23	126	67.27	135	52-136	6	0-21	
Ethylbenzene	ND	50.00	55.03	110	56.27	113	77-125	2	0-24	
Toluene	ND	50.00	57.09	114	59.66	119	72-126	4	0-23	
Trichloroethene	ND	50.00	57.12	114	59.24	118	74-128	4	0-22	
Vinyl Chloride	ND	50.00	52.94	106	55.55	111	67-133	5	0-20	
p/m-Xylene	ND	100.0	107.1	107	110.7	111	63-129	3	0-25	
o-Xylene	ND	50.00	55.96	112	57.89	116	62-128	3	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	62.15	124	63.06	126	68-134	1	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	293.5	117	302.9	121	65-143	3	0-30	
Diisopropyl Ether (DIPE)	ND	50.00	63.68	127	63.26	127	61-139	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	63.95	128	64.57	129	64-136	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	59.35	119	59.97	120	67-133	1	0-20	
Ethanol	ND	500.0	574.7	115	580.8	116	34-178	1	0-58	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - PDS

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

Date Received: 04/23/14
Work Order: 14-04-1676
Preparation: EPA 3005A Filt.
Method: EPA 6020

Project: DFSP Norwalk - Monthly

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
14-04-1646-2	**Sample**	**Aqueous**	**ICP/MS 03**	**04/23/14 00:00**	**04/24/14 22:26**	**140423S06**
14-04-1646-2	**PDS**	**Aqueous**	**ICP/MS 03**	**04/23/14 00:00**	**04/24/14 22:16**	**140423S06**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	ND	0.1000	0.1015	102	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCSD

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

Project: DFSP Norwalk - Monthly

Date Received: 04/23/14
Work Order: 14-04-1676
Preparation: EPA 3510C
Method: EPA 8015B (M)
Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-282-193	**LCS**	**Aqueous**	**GC 47**	**04/23/14**	**04/24/14 12:44**	**140423B10**
099-15-282-193	**LCSD**	**Aqueous**	**GC 47**	**04/23/14**	**04/24/14 13:00**	**140423B10**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	4000	3508	88	3526	88	75-117	1	0-13	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - LCS

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

Project: DFSP Norwalk - Monthly

Date Received: 04/23/14
Work Order: 14-04-1676
Preparation: EPA 5030C
Method: EPA 8015B (M)
Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-704-740	**LCS**	**Aqueous**	**GC 1**	**04/24/14**	**04/24/14 11:47**	**140424L011**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Gasoline	2000	1922	96	78-120	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - LCS

Parsons Government Services, Inc.		Date Received:	04/23/14
100 West Walnut Street		Work Order:	14-04-1676
Pasadena, CA 91124-0002		Preparation:	EPA 3020A Total
		Method:	EPA 6020
Project: DFSP Norwalk - Monthly			Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
096-06-003-4404	**LCS**	**Aqueous**	**ICP/MS 03**	**04/23/14**	**04/24/14 22:07**	**140423L06**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	0.1000	0.1035	103	80-120	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - LCS

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

Date Received: 04/23/14
Work Order: 14-04-1676
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP Norwalk - Monthly

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-13847	**LCS**	**Aqueous**	**GC/MS PP**	**04/23/14**	**04/24/14 02:18**	**140423L034**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	52.37	105	80-120	73-127	
Carbon Tetrachloride	50.00	54.90	110	67-139	55-151	
Chlorobenzene	50.00	50.81	102	78-120	71-127	
1,2-Dibromoethane	50.00	52.72	105	80-120	73-127	
1,2-Dichlorobenzene	50.00	49.80	100	63-129	52-140	
1,2-Dichloroethane	50.00	50.98	102	70-130	60-140	
1,1-Dichloroethene	50.00	54.70	109	66-126	56-136	
Ethylbenzene	50.00	52.28	105	80-123	73-130	
Toluene	50.00	54.30	109	80-120	73-127	
Trichloroethene	50.00	54.73	109	80-122	73-129	
Vinyl Chloride	50.00	51.89	104	70-130	60-140	
p/m-Xylene	100.0	102.3	102	75-123	67-131	
o-Xylene	50.00	51.85	104	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	55.67	111	69-129	59-139	
Tert-Butyl Alcohol (TBA)	250.0	254.9	102	69-129	59-139	
Diisopropyl Ether (DIPE)	50.00	57.24	114	68-128	58-138	
Ethyl-t-Butyl Ether (ETBE)	50.00	56.70	113	63-135	51-147	
Tert-Amyl-Methyl Ether (TAME)	50.00	54.07	108	67-133	56-144	
Ethanol	500.0	498.2	100	42-168	21-189	

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Sample Analysis Summary Report

Work Order: 14-04-1676 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6020	EPA 3020A Total	598	ICP/MS 03	1
EPA 8015B (M)	EPA 3510C	682	GC 47	1
EPA 8015B (M)	EPA 5030C	902	GC 1	2
EPA 8260B	EPA 5030C	510	GC/MS PP	2

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order: 14-04-1676 Page 1 of 1

Qualifiers	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 suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

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

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

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

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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: 4-23-14

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 Anderson

P.O. NO.: 747576-05000
QUOTE NO.:
LAB USE ONLY 14-04-1676

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.	TPH-Diesel/Gas (EPA 8015B(M))	VOCs + Oxys (EPA 8260B)	Metals (EPA 6020: As, ~~Cu, Se, Pb, Zn~~) 4/23/14									Comments
1	Effluent		4-23-14	1000	W	8	X	X	X									

Relinquished by: (Signature) Glenn Anderson	Received by: (Signature) CEL	Date: 4-23-14	Time: 11:20 AM
Relinquished by: (Signature)	Received by: (Signature) Dannyle CEL	Date: 4/23/14	Time: 12:55
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Revised: 08/28/08

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 14-04-1 6 7 6

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS DATE: 04/23/14

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

Temperature 2.7 °C - 0.3 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

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

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

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

Ambient Temperature: ☐ Air ☐ Filter Checked by: 804

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Checked by: 804

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 854

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	☒ 854 04/23/14	☒	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
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® ☐_____

Aqueous: ☐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**nu** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 854

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 739

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: 739

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 14-04-2246

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons Government Services, Inc.

Client Project Name: DFSP - Norwalk

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

Approved for release on 05/01/2014 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
Work Order Number: 14-04-2246

Calscience Environmental Laboratories, Inc.

Work Order Narrative

Work Order: 14-04-2246 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 04/30/14. They were assigned to Work Order 14-04-2246.

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

Holding Times:

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

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

Quality Control:

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

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

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

Subcontractor Information:

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

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Calscience Environmental Laboratories, Inc.

Sample Summary

Client:	Parsons Government Services, Inc.	Work Order:	14-04-2246
	100 West Walnut Street	Project Name:	DFSP - Norwalk
	Pasadena, CA 91124-0002	PO Number:	747577-05000
		Date/Time Received:	04/30/14 16:45
		Number of Containers:	2
Attn:	Mary Lucas		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
Effluent	14-04-2246-1	04/30/14 14:45	2	Aqueous

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Project: DFSP - Norwalk

Date Received: 04/30/14
Work Order: 14-04-2246
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**14-04-2246-1-AB**	**04/30/14 14:45**	**Aqueous**	**N/A**	**05/01/14**	**05/01/14 13:30**	**E0501TSSB1**

Parameter	Result	RL	DF	Qualifiers
Solids, Total Suspended	ND	1.0	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-09-010-6670**	**N/A**	**Aqueous**	**N/A**	**05/01/14**	**05/01/14 13:30**	**E0501TSSB1**

Parameter	Result	RL	DF	Qualifiers
Solids, Total Suspended	ND	1.0	1.00	

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Quality Control - Sample Duplicate

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

Project: DFSP - Norwalk

Date Received: 04/30/14
Work Order: 14-04-2246
Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
14-04-2093-2	**Sample**	**Aqueous**	**N/A**	**05/01/14 00:00**	**05/01/14 13:30**	**E0501TSSD1**
14-04-2093-2	**Sample Duplicate**	**Aqueous**	**N/A**	**05/01/14 00:00**	**05/01/14 13:30**	**E0501TSSD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Suspended	163.0	167.0	2	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCSD

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

Project: DFSP - Norwalk

Date Received: 04/30/14
Work Order: 14-04-2246
Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-010-6670	**LCS**	**Aqueous**	**N/A**	**05/01/14**	**05/01/14 13:30**	**E0501TSSB1**
099-09-010-6670	**LCSD**	**Aqueous**	**N/A**	**05/01/14**	**05/01/14 13:30**	**E0501TSSB1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Suspended	100.0	92.00	92	91.00	91	80-120	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Calscience Environmental Laboratories, Inc.

Sample Analysis Summary Report

Work Order: 14-04-2246

Method	Extraction	Chemist ID	Instrument	Analytical Location
SM 2540 D	N/A	722	N/A	1

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order: 14-04-2246 Page 1 of 1

Qualifiers	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 suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

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

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

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

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Calscience Environmental Laboratories, Inc.

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

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY
14-04-2246

Date 4-30-14
Page 1 of 1

LABORATORY CLIENT: Parsons
ADDRESS: 100 W. Walnut St
CITY: Pasadena STATE: CA ZIP: 91124
TEL: 626-440-6032 E-MAIL: Mary.Lucas@Parsons.com

CLIENT PROJECT NAME / NUMBER: DFSP-Norwalk
P.O. NO.: 747577-05000
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

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH _____	BTEX / MTBE ☐ 8260 ☐ _____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	TSS (2540)			
1	Effluent	4-30-14	1445	GW	2	X																	X			

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature/Affiliation) CEL	Date: 4-30-14	Time: 16:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation) DANNY/CEL	Date: 4/30/14	Time: 16:45
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.

11/01/12 Revision

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 14-04-[2][2][4][6]

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSON DATE: 04/30/14

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

Temperature 2.9 °C - 0.3 °C (CF) = 2.6 °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 **Checked by:** 820

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Checked by:** 820

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Checked by:** 739

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	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
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® ☐_____

Aqueous: ☐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® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** 739

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** 659

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:** 659

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 14-04-[2][2][4][6]

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

Comments:

- ☐ **Sample(s) NOT RECEIVED but listed on COC**
- ☐ **Sample(s) received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☑ **Insufficient quantities for analysis** – list test — Received 2x250 mL PB for TSS.
- ☐ **Improper container(s) used** – list test
- ☐ **Improper preservative used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☐ **Sample label(s) do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☐ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☐ **# of Container(s)**
  - ☐ **Analysis**
- ☐ **Sample container(s) compromised** – Note in comments
  - ☐ **Water present in sample container**
  - ☐ **Broken**
- ☐ **Sample container(s) not labeled**
- ☐ **Air sample container(s) compromised** – Note in comments
  - ☐ **Flat**
  - ☐ **Very low in volume**
  - ☐ **Leaking (Not transferred - duplicate bag submitted)**
  - ☐ **Leaking (transferred into Calscience Tedlar® Bag*)**
  - ☐ **Leaking (transferred into Client's Tedlar® Bag*)**
- ☐ **Other:** _____

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

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

Comments: _____

*Transferred at Client's request.

Initial / Date: JSJ 04/30/14

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 14-05-0177

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 05/05/2014 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
Work Order Number: 14-05-0177

Calscience Environmental Laboratories, Inc.

Work Order Narrative

Work Order: 14-05-0177 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 05/02/14. They were assigned to Work Order 14-05-0177.

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

Holding Times:

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

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

Quality Control:

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

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

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

Subcontractor Information:

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

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Calscience Environmental Laboratories, Inc.

Sample Summary

Client:	Parsons Government Services, Inc.	Work Order:	14-05-0177
	100 West Walnut Street	Project Name:	DFSP - Norwalk
	Pasadena, CA 91124-0002	PO Number:	
		Date/Time Received:	05/02/14 17:58
		Number of Containers:	1
Attn:	Mary Lucas		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
Effluent	14-05-0177-1	05/02/14 13:15	1	Aqueous

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Project: DFSP - Norwalk

Date Received: 05/02/14
Work Order: 14-05-0177
Preparation: EPA 3020A Total
Method: EPA 6020
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**14-05-0177-1-A**	**05/02/14 13:15**	**Aqueous**	**ICP/MS 04**	**05/02/14**	**05/05/14 12:51**	**140502L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	0.00383	0.00100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-06-003-4416**	**N/A**	**Aqueous**	**ICP/MS 04**	**05/02/14**	**05/05/14 12:44**	**140502L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.00100	1.00	

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Project: DFSP - Norwalk

Date Received: 05/02/14
Work Order: 14-05-0177
Preparation: EPA 3005A Filt.
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-05-0001-5	**Sample**	**Aqueous**	**ICP/MS 04**	**05/02/14**	**05/05/14 13:01**	**140502S03**
14-05-0001-5	**Matrix Spike**	**Aqueous**	**ICP/MS 04**	**05/02/14**	**05/05/14 13:22**	**140502S03**
14-05-0001-5	**Matrix Spike Duplicate**	**Aqueous**	**ICP/MS 04**	**05/02/14**	**05/05/14 13:26**	**140502S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	0.01001	0.1000	0.08193	72	0.09273	83	73-127	12	0-11	3,4

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - PDS

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

Project: DFSP - Norwalk

Date Received: 05/02/14
Work Order: 14-05-0177
Preparation: EPA 3005A Filt.
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
14-05-0001-5	**Sample**	**Aqueous**	**ICP/MS 04**	**05/02/14 00:00**	**05/05/14 13:01**	**140502S03**
14-05-0001-5	**PDS**	**Aqueous**	**ICP/MS 04**	**05/02/14 00:00**	**05/05/14 13:19**	**140502S03**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	0.01001	0.1000	0.09798	88	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - LCS

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

Project: DFSP - Norwalk

Date Received: 05/02/14
Work Order: 14-05-0177
Preparation: EPA 3020A Total
Method: EPA 6020
Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
096-06-003-4416	**LCS**	**Aqueous**	**ICP/MS 04**	**05/02/14**	**05/05/14 12:48**	**140502L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	0.1000	0.09928	99	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Sample Analysis Summary Report

Work Order: 14-05-0177

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6020	EPA 3020A Total	598	ICP/MS 04	1

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order: 14-05-0177 Page 1 of 1

Qualifiers	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 suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

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

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

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

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Calscience Environmental Laboratories, Inc.

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

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY
14-05-0177

Date 5-2-14
Page 1 of 1

LABORATORY CLIENT: Parsons
ADDRESS: 100 W. Walnut St
CITY: Pasadena STATE: CA ZIP: 91124
TEL: 626-440-6032 E-MAIL: Mary.Lucas@Parsons.com

CLIENT PROJECT NAME / NUMBER: DFSP-Norwalk
P.O. NO.: 747577-05000
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

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic 6020			
1	Effluent	5-2-14	1315	GW	1		X																X			

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature/Affiliation) Alex Mangay CTE	Date: 5-2-14	Time: 1515
Relinquished by: (Signature) Alex Mangay	Received by: (Signature/Affiliation) CTE	Date: 5/2/14	Time: 1758
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.

11/01/12 Revision

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 14-05-0177

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSON'S

DATE: 05/2/14

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

Temperature 2.7 °C - 0.3 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

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

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

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

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** 678

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Checked by:** 678

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Checked by:** 802

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	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
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® ☐_____

Aqueous: ☐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**nu** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** 802

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** 802

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:** 802

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 14-05-1338

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

Approved for release on 05/28/2014 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: 14-05-1338

Calscience Environmental Laboratories, Inc.

Work Order Narrative

Work Order: 14-05-1338 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 05/16/14. They were assigned to Work Order 14-05-1338.

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

Holding Times:

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

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

Quality Control:

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

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

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

Subcontractor Information:

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

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Calscience Environmental Laboratories, Inc.

Sample Summary

Client:	Parsons Government Services, Inc. 100 West Walnut Street Pasadena, CA 91124-0002	Work Order:	14-05-1338
		Project Name:	DFSP Norwalk - Quarterly
		PO Number:	
		Date/Time Received:	05/16/14 18:00
		Number of Containers:	7
Attn:	Mary Lucas		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
Effluent	14-05-1338-1	05/16/14 13:05	7	Aqueous

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/16/14
Work Order: 14-05-1338
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	**14-05-1338-1-B**	**05/16/14 13:05**	**Aqueous**	**ICP/MS 04**	**05/19/14**	**05/20/14 17:34**	**140519L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.00100	1.00	
Copper	0.00148	0.00100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-06-003-4429**	**N/A**	**Aqueous**	**ICP/MS 03**	**05/19/14**	**05/19/14 21:41**	**140519L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.00100	1.00	
Copper	ND	0.00100	1.00	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/16/14
Work Order: 14-05-1338

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
Effluent	**14-05-1338-1**	**05/16/14 13:05**	**Aqueous**

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Turbidity	0.10	0.050	1.00		NTU	N/A	05/16/14	SM 2130 B
Solids, Total Suspended	2.4	1.0	1.00		mg/L	05/20/14	05/20/14	SM 2540 D
Solids, Settleable	ND	0.10	1.00		mL/L/hr	N/A	05/16/14	SM 2540 F
Sulfide, Total	ND	0.050	1.00		mg/L	05/21/14	05/21/14	SM 4500 S2 - D
Chlorine, Total Residual	ND	0.10	1.00	BV,BU	mg/L	N/A	05/16/14	SM 4500-Cl F
Biochemical Oxygen Demand	1.7	1.0	1.00		mg/L	05/17/14	05/22/14	SM 5210 B
Oil and Grease	ND	1.0	1.00		mg/L	05/28/14	05/28/14	SM 5520 B
MBAS	ND	0.10	1.00		mg/L	05/16/14	05/16/14	SM 5540C

Method Blank						**N/A**		**Aqueous**
Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Solids, Total Suspended	ND	1.0	1.00		mg/L	05/20/14	05/20/14	SM 2540 D
Sulfide, Total	ND	0.050	1.00		mg/L	05/21/14	05/21/14	SM 4500 S2 - D
Chlorine, Total Residual	ND	0.10	1.00		mg/L	N/A	05/16/14	SM 4500-Cl F
Biochemical Oxygen Demand	ND	1.0	1.00		mg/L	05/17/14	05/22/14	SM 5210 B
Oil and Grease	ND	1.0	1.00		mg/L	05/28/14	05/28/14	SM 5520 B
MBAS	ND	0.10	1.00		mg/L	05/16/14	05/16/14	SM 5540C

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 05/16/14
Work Order: 14-05-1338
Preparation: N/A
Method: SM 5540C

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-05-1327-1	**Sample**	**Aqueous**	**UV 9**	**05/16/14**	**05/16/14 19:32**	**E0516SURS1**
14-05-1327-1	**Matrix Spike**	**Aqueous**	**UV 9**	**05/16/14**	**05/16/14 19:32**	**E0516SURS1**
14-05-1327-1	**Matrix Spike Duplicate**	**Aqueous**	**UV 9**	**05/16/14**	**05/16/14 19:32**	**E0516SURS1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
MBAS	ND	1.000	0.9300	93	0.9500	95	70-130	2	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Project: DFSP Norwalk - Quarterly

Date Received: 05/16/14
Work Order: 14-05-1338
Preparation: EPA 3005A Filt.
Method: EPA 6020
Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-05-1386-1	**Sample**	**Aqueous**	**ICP/MS 03**	**05/19/14**	**05/19/14 20:59**	**140519S06**
14-05-1386-1	**Matrix Spike**	**Aqueous**	**ICP/MS 03**	**05/19/14**	**05/19/14 20:50**	**140519S06**
14-05-1386-1	**Matrix Spike Duplicate**	**Aqueous**	**ICP/MS 03**	**05/19/14**	**05/19/14 20:52**	**140519S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	ND	0.05000	0.04658	93	0.04597	92	73-127	1	0-11	
Copper	ND	0.05000	0.05146	103	0.05113	102	72-108	1	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - PDS

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

Date Received: 05/16/14
Work Order: 14-05-1338
Preparation: EPA 3005A Filt.
Method: EPA 6020

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
14-05-1386-1	**Sample**	**Aqueous**	**ICP/MS 03**	**05/19/14 00:00**	**05/19/14 20:59**	**140519S06**
14-05-1386-1	**PDS**	**Aqueous**	**ICP/MS 03**	**05/19/14 00:00**	**05/19/14 20:54**	**140519S06**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	ND	0.1000	0.09102	91	75-125	
Copper	ND	0.1000	0.09956	100	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - Sample Duplicate

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

Project: DFSP Norwalk - Quarterly

Date Received: 05/16/14
Work Order: 14-05-1338
Preparation: N/A
Method: SM 2130 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
Effluent	**Sample**	**Aqueous**	**TUR 3**	**N/A**	**05/16/14 18:52**	**E0516TURD1**
Effluent	**Sample Duplicate**	**Aqueous**	**TUR 3**	**N/A**	**05/16/14 18:52**	**E0516TURD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Turbidity	0.1000	0.1100	10	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - Sample Duplicate

Parsons Government Services, Inc.		Date Received:	05/16/14
100 West Walnut Street		Work Order:	14-05-1338
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	SM 2540 D
Project: DFSP Norwalk - Quarterly			Page 2 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
14-05-1395-2	**Sample**	**Aqueous**	**N/A**	**05/20/14 00:00**	**05/20/14 14:00**	**E0520TSSD1**
14-05-1395-2	**Sample Duplicate**	**Aqueous**	**N/A**	**05/20/14 00:00**	**05/20/14 14:00**	**E0520TSSD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Suspended	418.0	394.0	6	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - Sample Duplicate

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

Project: DFSP Norwalk - Quarterly

Date Received: 05/16/14
Work Order: 14-05-1338
Preparation: N/A
Method: SM 4500 S2 - D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
14-05-1344-6	**Sample**	**Aqueous**	**N/A**	**05/21/14 00:00**	**05/21/14 19:11**	**E0521SD2**
14-05-1344-6	**Sample Duplicate**	**Aqueous**	**N/A**	**05/21/14 00:00**	**05/21/14 19:11**	**E0521SD2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Sulfide, Total	ND	ND	N/A	0-25	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - Sample Duplicate

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

Project: DFSP Norwalk - Quarterly

Date Received: 05/16/14
Work Order: 14-05-1338
Preparation: N/A
Method: SM 4500-Cl F

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
Effluent	**Sample**	**Aqueous**	**BUR16**	**N/A**	**05/16/14 18:56**	**E0516CLFD2**
Effluent	**Sample Duplicate**	**Aqueous**	**BUR16**	**N/A**	**05/16/14 18:56**	**E0516CLFD2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Chlorine, Total Residual	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - Sample Duplicate

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

Project: DFSP Norwalk - Quarterly

Date Received: 05/16/14
Work Order: 14-05-1338
Preparation: N/A
Method: SM 5210 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
14-05-1327-1	**Sample**	**Aqueous**	**BOD 1**	**05/17/14 00:00**	**05/22/14 13:40**	**E0517BODD1**
14-05-1327-1	**Sample Duplicate**	**Aqueous**	**BOD 1**	**05/17/14 00:00**	**05/22/14 13:40**	**E0517BODD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Biochemical Oxygen Demand	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCSD

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

Project: DFSP Norwalk - Quarterly

Date Received: 05/16/14
Work Order: 14-05-1338
Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-010-6689	**LCS**	**Aqueous**	**N/A**	**05/20/14**	**05/20/14 14:00**	**E0520TSSL1**
099-09-010-6689	**LCSD**	**Aqueous**	**N/A**	**05/20/14**	**05/20/14 14:00**	**E0520TSSL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Suspended	100.0	98.00	98	101.0	101	80-120	3	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCSD

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

Project: DFSP Norwalk - Quarterly

Date Received: 05/16/14
Work Order: 14-05-1338
Preparation: N/A
Method: SM 4500 S2 - D
Page 2 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-853-294	**LCS**	**Aqueous**	**N/A**	**05/21/14**	**05/21/14 19:11**	**E0521SL2**
099-15-853-294	**LCSD**	**Aqueous**	**N/A**	**05/21/14**	**05/21/14 19:11**	**E0521SL2**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Sulfide, Total	1.000	0.8500	85	0.8500	85	80-120	0	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCSD

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

Project: DFSP Norwalk - Quarterly

Date Received: 05/16/14
Work Order: 14-05-1338
Preparation: N/A
Method: SM 5520 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-081-2967	**LCS**	**Aqueous**	**N/A**	**05/28/14**	**05/28/14 15:00**	**E0528OGL1**
099-05-081-2967	**LCSD**	**Aqueous**	**N/A**	**05/28/14**	**05/28/14 15:00**	**E0528OGL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Oil and Grease	40.00	38.10	95	39.50	99	80-120	4	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS

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

Project: DFSP Norwalk - Quarterly

Date Received: 05/16/14
Work Order: 14-05-1338
Preparation: N/A
Method: SM 5540C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-05-093-2681	**LCS**	**Aqueous**	**UV 9**	**05/16/14**	**05/16/14 19:32**	**E0516SURL1**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
MBAS	1.000	0.9400	94	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCSD

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

Project: DFSP Norwalk - Quarterly

Date Received: 05/16/14
Work Order: 14-05-1338
Preparation: EPA 3020A Total
Method: EPA 6020
Page 5 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-06-003-4429	**LCS**	**Aqueous**	**ICP/MS 03**	**05/19/14**	**05/19/14 21:51**	**140519L06**
096-06-003-4429	**LCSD**	**Aqueous**	**ICP/MS 03**	**05/19/14**	**05/20/14 16:31**	**140519L06**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	0.1028	103	0.09601	96	80-120	7	0-20	
Copper	0.1000	0.1026	103	0.09945	99	80-120	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Sample Analysis Summary Report

Work Order: 14-05-1338 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6020	EPA 3020A Total	598	ICP/MS 04	1
SM 2130 B	N/A	688	TUR 3	1
SM 2540 D	N/A	722	N/A	1
SM 2540 F	N/A	691	N/A	1
SM 4500 S2 - D	N/A	880	N/A	1
SM 4500-Cl F	N/A	688	BUR16	1
SM 5210 B	N/A	691	BOD 1	1
SM 5520 B	N/A	691	N/A	1
SM 5540C	N/A	735	UV 9	1

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order: 14-05-1338 Page 1 of 1

Qualifiers	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 suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

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

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

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

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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: 5-16-14

PAGE: 1 OF 1

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

CLIENT PROJECT NAME / NUMBER: DFSP Norwalk - Quarterly
PROJECT CONTACT: Mary Lucas
SAMPLER(S): (SIGNATURE) Glenn Anderson

P.O. NO.: 747572-05000
QUOTE NO.:
LAB USE ONLY 14-05-1338

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) / BOD (SM 5210B)	Oil & Grease (SM 5520B)	MBAS (SM 5540C)	Metals (EPA 6020: As,Cu)	Total Suspended Solids (SM 2540D)	Settleable Solids (SM 2540F)	Total Sulfides (SM 4500 S-2)	Residual Chlorine (SM 4500 Cl F)					Comments
1	Effluent		5-16-14	1305	W	7	X	X	X	X	X	X	X	X					

Relinquished by: (Signature) Glenn Anderson	Received by: (Signature) COL	Date: 5-16-14	Time: 15:30
Relinquished by: (Signature)	Received by: (Signature) COL	Date: 5/16/14	Time: 1800
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Revised: 08/28/08

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 14-05-1338

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS DATE: 05/16/14

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

Temperature 3.2 °C - 0.3 °C (CF) = 2.9 °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 Checked by: 804

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Checked by: 804

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 862

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	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☑ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☑	☐
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® ☐_____

Aqueous: ☐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 (4) ☐1PB**na** ☐500PB

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

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** 862

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** 778

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:** 778

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 14-05-1351

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 05/28/2014 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: 14-05-1351

Calscience Environmental Laboratories, Inc.

Work Order Narrative

Work Order: 14-05-1351 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 05/16/14. They were assigned to Work Order 14-05-1351.

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

Holding Times:

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

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

Quality Control:

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

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

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

Subcontractor Information:

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

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Calscience Environmental Laboratories, Inc.

Sample Summary

Client:	Parsons Government Services, Inc. 100 West Walnut Street Pasadena, CA 91124-0002	Work Order:	14-05-1351
		Project Name:	DFSP Norwalk - Quarterly
		PO Number:	
		Date/Time Received:	05/16/14 18:00
		Number of Containers:	8
Attn:	Mary Lucas		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
Effluent	14-05-1351-1	05/16/14 13:05	8	Aqueous

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Project: DFSP Norwalk - Quarterly

Date Received: 05/16/14
Work Order: 14-05-1351
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**14-05-1351-1-H**	**05/16/14 13:05**	**Aqueous**	**GC 47**	**05/19/14**	**05/20/14 15:12**	**140519B14**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	100	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-282-196**	**N/A**	**Aqueous**	**GC 47**	**05/19/14**	**05/20/14 14:20**	**140519B14**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	96	68-140	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Project: DFSP Norwalk - Quarterly

Date Received: 05/16/14
Work Order: 14-05-1351
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**14-05-1351-1-E**	**05/16/14 13:05**	**Aqueous**	**GC 42**	**05/22/14**	**05/23/14 04:24**	**140522L054**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	73	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-704-768**	**N/A**	**Aqueous**	**GC 42**	**05/22/14**	**05/23/14 03:13**	**140522L054**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	69	38-134	

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/16/14
Work Order: 14-05-1351
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	**14-05-1351-1-A**	**05/16/14 13:05**	**Aqueous**	**GC/MS JJ**	**05/20/14**	**05/20/14 14:46**	**140520L016**

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	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	5.0	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	5.0	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/16/14
Work Order: 14-05-1351
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP Norwalk - Quarterly

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	0.50	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	5.0	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	0.50	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	0.50	0.30	1.00	
o-Xylene	ND	0.50	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1.00	
Tert-Butyl Alcohol (TBA)	4.8	10	4.6	1.00	J
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.	Date Received:	05/16/14
100 West Walnut Street	Work Order:	14-05-1351
Pasadena, CA 91124-0002	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: DFSP Norwalk - Quarterly		Page 3 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	80-120	
Dibromofluoromethane	96	78-126	
1,2-Dichloroethane-d4	106	75-135	
Toluene-d8	102	80-120	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/16/14
Work Order: 14-05-1351
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	**099-14-001-14132**	**N/A**	**Aqueous**	**GC/MS JJ**	**05/20/14**	**05/20/14 14:16**	**140520L016**

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	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	5.0	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	5.0	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/16/14
Work Order: 14-05-1351
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP Norwalk - Quarterly

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	0.50	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	5.0	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	0.50	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	0.50	0.30	1.00	
o-Xylene	ND	0.50	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.	Date Received:	05/16/14
100 West Walnut Street	Work Order:	14-05-1351
Pasadena, CA 91124-0002	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: DFSP Norwalk - Quarterly		Page 6 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	98	78-126	
1,2-Dichloroethane-d4	104	75-135	
Toluene-d8	101	80-120	

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/16/14
Work Order: 14-05-1351

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
Effluent	**14-05-1351-1**	**05/16/14 13:05**	**Aqueous**

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	ND	0.10	1.00		mg/L	05/22/14	05/22/14	EPA 420.1

Method Blank						**N/A**		**Aqueous**
Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	ND	0.10	1.00		mg/L	05/22/14	05/22/14	EPA 420.1

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Project: DFSP Norwalk - Quarterly

Date Received: 05/16/14
Work Order: 14-05-1351
Preparation: EPA 5030C
Method: EPA 8015B (M)
Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Effluent	**Sample**	**Aqueous**	**GC 42**	**05/22/14**	**05/23/14 04:24**	**140522S035**
Effluent	**Matrix Spike**	**Aqueous**	**GC 42**	**05/22/14**	**05/23/14 04:59**	**140522S035**
Effluent	**Matrix Spike Duplicate**	**Aqueous**	**GC 42**	**05/22/14**	**05/23/14 05:34**	**140522S035**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	2000	1773	89	1687	84	68-122	5	0-18	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 05/16/14
Work Order: 14-05-1351
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Effluent	**Sample**	**Aqueous**	**GC/MS JJ**	**05/20/14**	**05/20/14 14:46**	**140520S026**
Effluent	**Matrix Spike**	**Aqueous**	**GC/MS JJ**	**05/20/14**	**05/20/14 15:16**	**140520S026**
Effluent	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS JJ**	**05/20/14**	**05/20/14 15:46**	**140520S026**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	53.61	107	54.90	110	74-122	2	0-21	
Carbon Tetrachloride	ND	50.00	52.29	105	54.07	108	60-144	3	0-21	
Chlorobenzene	ND	50.00	53.95	108	55.22	110	73-120	2	0-22	
1,2-Dibromoethane	ND	50.00	53.59	107	54.53	109	80-122	2	0-20	
1,2-Dichlorobenzene	ND	50.00	54.20	108	54.96	110	70-120	1	0-26	
1,2-Dichloroethane	ND	50.00	56.71	113	57.53	115	64-142	1	0-20	
1,1-Dichloroethene	ND	50.00	59.72	119	60.97	122	52-136	2	0-21	
Ethylbenzene	ND	50.00	53.81	108	54.76	110	77-125	2	0-24	
Toluene	ND	50.00	53.55	107	54.98	110	72-126	3	0-23	
Trichloroethene	ND	50.00	53.46	107	54.11	108	74-128	1	0-22	
Vinyl Chloride	ND	50.00	57.62	115	59.89	120	67-133	4	0-20	
p/m-Xylene	ND	100.0	111.6	112	113.9	114	63-129	2	0-25	
o-Xylene	ND	50.00	57.30	115	58.30	117	62-128	2	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	52.54	105	54.21	108	68-134	3	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	261.6	105	267.7	107	65-143	2	0-30	
Diisopropyl Ether (DIPE)	ND	50.00	54.40	109	56.19	112	61-139	3	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	52.86	106	54.60	109	64-136	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	50.15	100	51.59	103	67-133	3	0-20	
Ethanol	ND	500.0	568.0	114	573.4	115	34-178	1	0-58	

RPD: Relative Percent Difference. CL: Control Limits

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCSD

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

Project: DFSP Norwalk - Quarterly

Date Received: 05/16/14
Work Order: 14-05-1351
Preparation: N/A
Method: EPA 420.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-085-2764	**LCS**	**Aqueous**	**UV 8**	**05/22/14**	**05/22/14 15:17**	**E0522PHEL1**
099-05-085-2764	**LCSD**	**Aqueous**	**UV 8**	**05/22/14**	**05/22/14 15:17**	**E0522PHEL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phenolics, Total	0.5000	0.4700	94	0.4500	90	80-120	4	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCSD

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

Project: DFSP Norwalk - Quarterly

Date Received: 05/16/14
Work Order: 14-05-1351
Preparation: EPA 3510C
Method: EPA 8015B (M)
Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-282-196	**LCS**	**Aqueous**	**GC 47**	**05/19/14**	**05/20/14 14:38**	**140519B14**
099-15-282-196	**LCSD**	**Aqueous**	**GC 47**	**05/19/14**	**05/20/14 14:55**	**140519B14**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	4000	4405	110	4467	112	75-117	1	0-13	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - LCS

Parsons Government Services, Inc.	Date Received: 05/16/14
100 West Walnut Street	Work Order: 14-05-1351
Pasadena, CA 91124-0002	Preparation: EPA 5030C
	Method: EPA 8015B (M)
Project: DFSP Norwalk - Quarterly	Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-704-768	**LCS**	**Aqueous**	**GC 42**	**05/22/14**	**05/23/14 03:49**	**140522L054**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Gasoline	2000	1733	87	78-120	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - LCS

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

Date Received: 05/16/14
Work Order: 14-05-1351
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-14132	**LCS**	**Aqueous**	**GC/MS JJ**	**05/20/14**	**05/20/14 12:36**	**140520L016**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	53.52	107	80-120	73-127	
Carbon Tetrachloride	50.00	52.23	104	67-139	55-151	
Chlorobenzene	50.00	54.00	108	78-120	71-127	
1,2-Dibromoethane	50.00	53.49	107	80-120	73-127	
1,2-Dichlorobenzene	50.00	54.27	109	63-129	52-140	
1,2-Dichloroethane	50.00	55.28	111	70-130	60-140	
1,1-Dichloroethene	50.00	54.74	109	66-126	56-136	
Ethylbenzene	50.00	53.23	106	80-123	73-130	
Toluene	50.00	53.27	107	80-120	73-127	
Trichloroethene	50.00	52.63	105	80-122	73-129	
Vinyl Chloride	50.00	53.23	106	70-130	60-140	
p/m-Xylene	100.0	110.7	111	75-123	67-131	
o-Xylene	50.00	56.49	113	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	52.20	104	69-129	59-139	
Tert-Butyl Alcohol (TBA)	250.0	252.6	101	69-129	59-139	
Diisopropyl Ether (DIPE)	50.00	53.08	106	68-128	58-138	
Ethyl-t-Butyl Ether (ETBE)	50.00	52.69	105	63-135	51-147	
Tert-Amyl-Methyl Ether (TAME)	50.00	51.16	102	67-133	56-144	
Ethanol	500.0	526.6	105	42-168	21-189	

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Sample Analysis Summary Report

Work Order: 14-05-1351 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 420.1	N/A	686	UV 8	1
EPA 8015B (M)	EPA 3510C	682	GC 47	1
EPA 8015B (M)	EPA 5030C	797	GC 42	2
EPA 8260B	EPA 5030C	876	GC/MS JJ	2

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order: 14-05-1351 Page 1 of 1

Qualifiers	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 suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

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

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

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

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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: 5-16-14

PAGE: 1 OF 1

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

CLIENT PROJECT NAME / NUMBER: DFSP Norwalk - Quarterly
PROJECT CONTACT: Mary Lucas
SAMPLER(S): (SIGNATURE) Glenn Andrusker

P.O. NO.: 747576-05000
QUOTE NO.:
LAB USE ONLY 14-05-1351

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.	TPH gas / TPH diesel (EPA 8015B(M))	VOCs + Oxys (EPA 8260B)	Phenolics (EPA 420.1)	Comments
1	Effluent		5-16-14	1305	W	8	X	X	X	

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Glenn Andrusker	CCL	5-16-14	15:30
	CCL	5/16/14	1800
		Date:	Time:

Revised: 08/28/08

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 14-05-1351

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS DATE: 05/16/14

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

Temperature 3.2 °C - 0.3 °C (CF) = 2.9 °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 Checked by: 804

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Checked by: 804

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 142

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	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
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® ☐_____

Aqueous: ☐VOA ☑VOAh ☐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® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** 142

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** 644

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:** 644

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 14-05-2132

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 06/02/2014 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
Work Order Number: 14-05-2132

Calscience Environmental Laboratories, Inc.

Work Order Narrative

Work Order: 14-05-2132 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 05/29/14. They were assigned to Work Order 14-05-2132.

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

Holding Times:

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

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

Quality Control:

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

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

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

Subcontractor Information:

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

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Calscience Environmental Laboratories, Inc.

Sample Summary

Client:	Parsons Government Services, Inc. 100 West Walnut Street Pasadena, CA 91124-0002	Work Order:	14-05-2132
		Project Name:	DFSP - Norwalk
		PO Number:	
		Date/Time Received:	05/29/14 16:20
		Number of Containers:	9
Attn:	Mary Lucas		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
Surge Tank	14-05-2132-1	05/29/14 14:41	3	Aqueous
After MX-21	14-05-2132-2	05/29/14 14:37	3	Aqueous
Effluent	14-05-2132-3	05/29/14 14:35	3	Aqueous

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/29/14
Work Order: 14-05-2132
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
Surge Tank	**14-05-2132-1-A**	**05/29/14 14:41**	**Aqueous**	**GC/MS JJ**	**05/29/14**	**05/29/14 23:54**	**140529L047**

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	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	29	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	5.0	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	3.7	1.0	0.23	1.00	
sec-Butylbenzene	2.6	1.0	0.25	1.00	
tert-Butylbenzene	0.35	1.0	0.28	1.00	J
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	5.0	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	2.9	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/29/14
Work Order: 14-05-2132
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	30	0.50	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	8.5	1.0	0.58	1.00	
p-Isopropyltoluene	3.1	1.0	0.16	1.00	
Methylene Chloride	ND	5.0	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	9.1	10	2.5	1.00	J
n-Propylbenzene	7.7	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	1.0	0.50	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	60	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	28	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	180	0.50	0.30	1.00	
o-Xylene	45	0.50	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	1.0	0.50	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.	Date Received:	05/29/14
100 West Walnut Street	Work Order:	14-05-2132
Pasadena, CA 91124-0002	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: DFSP - Norwalk		Page 3 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	111	80-120	
Dibromofluoromethane	106	78-126	
1,2-Dichloroethane-d4	117	75-135	
Toluene-d8	99	80-120	

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/29/14
Work Order: 14-05-2132
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
After MX-21	**14-05-2132-2-A**	**05/29/14 14:37**	**Aqueous**	**GC/MS JJ**	**05/29/14**	**05/29/14 23:23**	**140529L047**

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	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	30	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	5.0	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	2.4	1.0	0.23	1.00	
sec-Butylbenzene	2.4	1.0	0.25	1.00	
tert-Butylbenzene	0.29	1.0	0.28	1.00	J
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	5.0	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	2.3	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/29/14
Work Order: 14-05-2132
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	26	0.50	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	7.6	1.0	0.58	1.00	
p-Isopropyltoluene	2.8	1.0	0.16	1.00	
Methylene Chloride	ND	5.0	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	8.5	10	2.5	1.00	J
n-Propylbenzene	5.6	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	0.96	0.50	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	56	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	24	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	150	0.50	0.30	1.00	
o-Xylene	44	0.50	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	1.0	0.50	0.31	1.00	
Tert-Butyl Alcohol (TBA)	5.4	10	4.6	1.00	J
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Project: DFSP - Norwalk

Date Received: 05/29/14
Work Order: 14-05-2132
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	111	80-120	
Dibromofluoromethane	107	78-126	
1,2-Dichloroethane-d4	119	75-135	
Toluene-d8	100	80-120	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/29/14
Work Order: 14-05-2132
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	**14-05-2132-3-A**	**05/29/14 14:35**	**Aqueous**	**GC/MS JJ**	**05/29/14**	**05/29/14 22:53**	**140529L047**

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	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	5.0	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	5.0	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/29/14
Work Order: 14-05-2132
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	0.50	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	5.0	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	0.50	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	0.50	0.30	1.00	
o-Xylene	ND	0.50	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.	Date Received:	05/29/14
100 West Walnut Street	Work Order:	14-05-2132
Pasadena, CA 91124-0002	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: DFSP - Norwalk		Page 9 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	106	80-120	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	119	75-135	
Toluene-d8	100	80-120	

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/29/14
Work Order: 14-05-2132
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	**099-14-001-14243**	**N/A**	**Aqueous**	**GC/MS JJ**	**05/29/14**	**05/29/14 14:51**	**140529L047**

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	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	5.0	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	5.0	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/29/14
Work Order: 14-05-2132
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	0.50	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	5.0	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	0.50	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	0.50	0.30	1.00	
o-Xylene	ND	0.50	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.	Date Received:	05/29/14
100 West Walnut Street	Work Order:	14-05-2132
Pasadena, CA 91124-0002	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: DFSP - Norwalk		Page 12 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	105	80-120	
Dibromofluoromethane	100	78-126	
1,2-Dichloroethane-d4	108	75-135	
Toluene-d8	100	80-120	

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Project: DFSP - Norwalk

Date Received: 05/29/14
Work Order: 14-05-2132
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-05-2041-1	**Sample**	**Aqueous**	**GC/MS JJ**	**05/29/14**	**05/29/14 15:21**	**140529S005**
14-05-2041-1	**Matrix Spike**	**Aqueous**	**GC/MS JJ**	**05/29/14**	**05/29/14 15:51**	**140529S005**
14-05-2041-1	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS JJ**	**05/29/14**	**05/29/14 16:22**	**140529S005**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	50.00	51.10	102	51.20	102	51-171	0	0-20	
Benzene	ND	50.00	50.41	101	48.98	98	80-120	3	0-20	
Bromobenzene	ND	50.00	51.24	102	50.34	101	54-150	2	0-20	
Bromochloromethane	ND	50.00	49.08	98	48.17	96	77-125	2	0-20	
Bromodichloromethane	ND	50.00	57.78	116	56.67	113	78-126	2	0-20	
Bromoform	ND	50.00	57.02	114	56.81	114	41-155	0	0-20	
Bromomethane	ND	50.00	34.41	69	35.39	71	30-152	3	0-20	
2-Butanone	ND	50.00	49.80	100	48.63	97	52-160	2	0-20	
n-Butylbenzene	ND	50.00	53.52	107	51.71	103	50-164	3	0-20	
sec-Butylbenzene	ND	50.00	53.28	107	51.71	103	49-157	3	0-20	
tert-Butylbenzene	ND	50.00	55.95	112	54.80	110	48-156	2	0-20	
Carbon Disulfide	ND	50.00	47.89	96	47.00	94	69-123	2	0-20	
Carbon Tetrachloride	ND	50.00	56.78	114	56.29	113	62-140	1	0-20	
Chlorobenzene	ND	50.00	50.90	102	50.11	100	52-148	2	0-20	
Chloroethane	ND	50.00	63.59	127	71.93	144	66-132	12	0-20	3
Chloroform	ND	50.00	53.83	108	52.56	105	80-122	2	0-20	
Chloromethane	ND	50.00	44.77	90	45.98	92	45-147	3	0-20	
2-Chlorotoluene	ND	50.00	55.99	112	54.97	110	51-153	2	0-20	
4-Chlorotoluene	ND	50.00	52.53	105	52.11	104	49-151	1	0-20	
Dibromochloromethane	ND	50.00	57.14	114	58.26	117	48-150	2	0-20	
1,2-Dibromo-3-Chloropropane	ND	50.00	55.04	110	53.35	107	46-142	3	0-20	
1,2-Dibromoethane	ND	50.00	51.12	102	49.53	99	51-147	3	0-20	
Dibromomethane	ND	50.00	52.83	106	51.41	103	80-123	3	0-20	
1,2-Dichlorobenzene	ND	50.00	51.09	102	50.59	101	51-147	1	0-20	
1,3-Dichlorobenzene	ND	50.00	51.65	103	50.90	102	49-151	1	0-20	
1,4-Dichlorobenzene	ND	50.00	48.61	97	47.71	95	51-147	2	0-20	
Dichlorodifluoromethane	ND	50.00	54.97	110	54.01	108	30-170	2	0-20	
1,1-Dichloroethane	ND	50.00	49.04	98	48.66	97	67-127	1	0-20	
1,2-Dichloroethane	ND	50.00	59.57	119	57.36	115	73-133	4	0-20	
1,1-Dichloroethene	15.41	50.00	76.20	122	73.41	116	68-128	4	0-20	
c-1,2-Dichloroethene	13.58	50.00	64.42	102	62.94	99	77-125	2	0-20	
t-1,2-Dichloroethene	1.687	50.00	53.74	104	52.24	101	71-131	3	0-20	
1,2-Dichloropropane	ND	50.00	48.12	96	46.12	92	80-120	4	0-20	
1,3-Dichloropropane	ND	50.00	49.32	99	48.90	98	50-146	1	0-20	
2,2-Dichloropropane	ND	50.00	57.34	115	56.18	112	30-170	2	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 05/29/14
Work Order: 14-05-2132
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP - Norwalk

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	50.00	52.44	105	51.88	104	75-129	1	0-20	
c-1,3-Dichloropropene	ND	50.00	52.53	105	51.49	103	80-124	2	0-20	
t-1,3-Dichloropropene	ND	50.00	60.18	120	59.87	120	47-143	1	0-20	
Ethylbenzene	ND	50.00	52.30	105	51.63	103	54-150	1	0-20	
2-Hexanone	ND	50.00	48.69	97	49.84	100	44-152	2	0-20	
Isopropylbenzene	ND	50.00	55.27	111	54.63	109	52-154	1	0-20	
p-Isopropyltoluene	ND	50.00	49.74	99	48.51	97	49-151	2	0-20	
Methylene Chloride	ND	50.00	48.02	96	48.19	96	73-127	0	0-20	
4-Methyl-2-Pentanone	ND	50.00	52.04	104	49.40	99	70-124	5	0-20	
Naphthalene	ND	50.00	50.91	102	49.97	100	39-153	2	0-20	
n-Propylbenzene	ND	50.00	53.97	108	53.08	106	49-157	2	0-20	
Styrene	ND	50.00	51.23	102	51.03	102	54-150	0	0-20	
1,1,1,2-Tetrachloroethane	ND	50.00	53.78	108	54.47	109	50-152	1	0-20	
1,1,2,2-Tetrachloroethane	ND	50.00	48.32	97	46.68	93	44-146	3	0-20	
Tetrachloroethene	1.021	50.00	40.32	79	39.52	77	34-170	2	0-20	
Toluene	ND	50.00	50.77	102	49.42	99	80-120	3	0-20	
1,2,3-Trichlorobenzene	ND	50.00	53.72	107	52.70	105	41-161	2	0-20	
1,2,4-Trichlorobenzene	ND	50.00	54.23	108	53.31	107	41-161	2	0-20	
1,1,1-Trichloroethane	ND	50.00	56.97	114	54.85	110	75-129	4	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50.00	58.59	117	57.01	114	54-156	3	0-20	
1,1,2-Trichloroethane	ND	50.00	48.11	96	47.37	95	51-147	2	0-20	
Trichloroethene	19.82	50.00	69.74	100	67.15	95	80-120	4	0-20	
Trichlorofluoromethane	ND	50.00	57.49	115	55.89	112	61-145	3	0-20	
1,2,3-Trichloropropane	ND	50.00	52.97	106	52.60	105	51-147	1	0-20	
1,2,4-Trimethylbenzene	ND	50.00	53.27	107	52.11	104	56-152	2	0-20	
1,3,5-Trimethylbenzene	ND	50.00	56.68	113	55.54	111	56-158	2	0-20	
Vinyl Acetate	ND	50.00	57.68	115	54.32	109	35-167	6	0-20	
Vinyl Chloride	ND	50.00	55.63	111	57.31	115	67-133	3	0-20	
p/m-Xylene	ND	100.0	107.8	108	106.8	107	51-153	1	0-20	
o-Xylene	ND	50.00	55.52	111	54.87	110	51-153	1	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	51.92	104	51.52	103	64-130	1	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	258.1	103	252.7	101	76-124	2	0-20	
Diisopropyl Ether (DIPE)	ND	50.00	48.47	97	48.20	96	67-133	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	52.62	105	52.87	106	69-129	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	52.22	104	49.80	100	75-123	5	0-20	
Ethanol	ND	500.0	520.6	104	521.2	104	53-161	0	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS

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

Date Received: 05/29/14
Work Order: 14-05-2132
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP - Norwalk

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-14243	**LCS**	**Aqueous**	**GC/MS JJ**	**05/29/14**	**05/29/14 13:15**	**140529L047**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	52.08	104	80-120	73-127	
Carbon Tetrachloride	50.00	58.99	118	67-139	55-151	
Chlorobenzene	50.00	52.52	105	78-120	71-127	
1,2-Dibromoethane	50.00	51.77	104	80-120	73-127	
1,2-Dichlorobenzene	50.00	52.50	105	63-129	52-140	
1,2-Dichloroethane	50.00	60.97	122	70-130	60-140	
1,1-Dichloroethene	50.00	61.44	123	66-126	56-136	
Ethylbenzene	50.00	53.79	108	80-123	73-130	
Toluene	50.00	52.43	105	80-120	73-127	
Trichloroethene	50.00	52.98	106	80-122	73-129	
Vinyl Chloride	50.00	60.37	121	70-130	60-140	
p/m-Xylene	100.0	111.3	111	75-123	67-131	
o-Xylene	50.00	57.38	115	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	52.55	105	69-129	59-139	
Tert-Butyl Alcohol (TBA)	250.0	260.2	104	69-129	59-139	
Diisopropyl Ether (DIPE)	50.00	49.81	100	68-128	58-138	
Ethyl-t-Butyl Ether (ETBE)	50.00	52.31	105	63-135	51-147	
Tert-Amyl-Methyl Ether (TAME)	50.00	50.76	102	67-133	56-144	
Ethanol	500.0	573.9	115	42-168	21-189	

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Sample Analysis Summary Report

Work Order: 14-05-2132

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8260B	EPA 5030C	316	GC/MS JJ	2

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order: 14-05-2132 Page 1 of 1

Qualifiers	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 suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

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

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

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

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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 **14-05-2132**

Date 5-29-14

Page 1 of 1

LABORATORY CLIENT: Parsons

ADDRESS: 100 W. Walnut St

CITY: Pasadena STATE: CA ZIP: 92114

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

CLIENT PROJECT NAME / NUMBER: DFSP-Norwalk

P.O. NO.: 747577-05000

PROJECT CONTACT: Mary Lucas

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	8260B + Oxy's														
1	Surge Tank	5-29-14	1441		3		X		X														
2	After MX-21	↓	1437		3		X		X														
3	Effluent	↓	1435		3		X		X		48 hr rush on Effluent sample only												

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature/Affiliation)	Date: 5-29-14	Time: 1600
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 5/29/14	Time: 1620
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

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 14-05-2132

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Parsons DATE: 05/29/14

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

Temperature 2.7 °C - 0.3 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

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

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

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

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** IS

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Checked by:** IS

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Checked by:** ZZ

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	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
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® ☐_____

Aqueous: ☐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® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** ZZ

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

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:** SM

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 14-05-2132

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 06/02/2014 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.

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Client Project Name: DFSP - Norwalk
Work Order Number: 14-05-2132

Calscience Environmental Laboratories, Inc.

Work Order Narrative

Work Order: 14-05-2132 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 05/29/14. They were assigned to Work Order 14-05-2132.

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

Holding Times:

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

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

Quality Control:

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

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

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

Subcontractor Information:

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

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Calscience Environmental Laboratories, Inc.

Sample Summary

Client:	Parsons Government Services, Inc. 100 West Walnut Street Pasadena, CA 91124-0002	Work Order:	14-05-2132
		Project Name:	DFSP - Norwalk
		PO Number:	
		Date/Time Received:	05/29/14 16:20
		Number of Containers:	9
Attn:	Mary Lucas		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
Surge Tank	14-05-2132-1	05/29/14 14:41	3	Aqueous
After MX-21	14-05-2132-2	05/29/14 14:37	3	Aqueous
Effluent	14-05-2132-3	05/29/14 14:35	3	Aqueous

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/29/14
Work Order: 14-05-2132
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
Surge Tank	**14-05-2132-1-A**	**05/29/14 14:41**	**Aqueous**	**GC/MS JJ**	**05/29/14**	**05/29/14 23:54**	**140529L047**

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	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	29	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	5.0	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	3.7	1.0	0.23	1.00	
sec-Butylbenzene	2.6	1.0	0.25	1.00	
tert-Butylbenzene	0.35	1.0	0.28	1.00	J
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	5.0	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	2.9	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/29/14
Work Order: 14-05-2132
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	30	0.50	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	8.5	1.0	0.58	1.00	
p-Isopropyltoluene	3.1	1.0	0.16	1.00	
Methylene Chloride	ND	5.0	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	9.1	10	2.5	1.00	J
n-Propylbenzene	7.7	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	1.0	0.50	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	60	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	28	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	180	0.50	0.30	1.00	
o-Xylene	45	0.50	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	1.0	0.50	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.	Date Received:	05/29/14
100 West Walnut Street	Work Order:	14-05-2132
Pasadena, CA 91124-0002	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: DFSP - Norwalk		Page 3 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	111	80-120	
Dibromofluoromethane	106	78-126	
1,2-Dichloroethane-d4	117	75-135	
Toluene-d8	99	80-120	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/29/14
Work Order: 14-05-2132
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
After MX-21	**14-05-2132-2-A**	**05/29/14 14:37**	**Aqueous**	**GC/MS JJ**	**05/29/14**	**05/29/14 23:23**	**140529L047**

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	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	30	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	5.0	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	2.4	1.0	0.23	1.00	
sec-Butylbenzene	2.4	1.0	0.25	1.00	
tert-Butylbenzene	0.29	1.0	0.28	1.00	J
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	5.0	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	2.3	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/29/14
Work Order: 14-05-2132
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	26	0.50	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	7.6	1.0	0.58	1.00	
p-Isopropyltoluene	2.8	1.0	0.16	1.00	
Methylene Chloride	ND	5.0	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	8.5	10	2.5	1.00	J
n-Propylbenzene	5.6	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	0.96	0.50	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	56	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	24	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	150	0.50	0.30	1.00	
o-Xylene	44	0.50	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	1.0	0.50	0.31	1.00	
Tert-Butyl Alcohol (TBA)	5.4	10	4.6	1.00	J
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Project: DFSP - Norwalk

Date Received: 05/29/14
Work Order: 14-05-2132
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	111	80-120	
Dibromofluoromethane	107	78-126	
1,2-Dichloroethane-d4	119	75-135	
Toluene-d8	100	80-120	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/29/14
Work Order: 14-05-2132
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	**14-05-2132-3-A**	**05/29/14 14:35**	**Aqueous**	**GC/MS JJ**	**05/29/14**	**05/29/14 22:53**	**140529L047**

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	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	5.0	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	5.0	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/29/14
Work Order: 14-05-2132
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	0.50	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	5.0	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	0.50	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	0.50	0.30	1.00	
o-Xylene	ND	0.50	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.	Date Received:	05/29/14
100 West Walnut Street	Work Order:	14-05-2132
Pasadena, CA 91124-0002	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: DFSP - Norwalk		Page 9 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	106	80-120	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	119	75-135	
Toluene-d8	100	80-120	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/29/14
Work Order: 14-05-2132
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	**099-14-001-14243**	**N/A**	**Aqueous**	**GC/MS JJ**	**05/29/14**	**05/29/14 14:51**	**140529L047**

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	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	5.0	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	5.0	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/29/14
Work Order: 14-05-2132
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	0.50	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	5.0	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	0.50	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	0.50	0.30	1.00	
o-Xylene	ND	0.50	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.	Date Received:	05/29/14
100 West Walnut Street	Work Order:	14-05-2132
Pasadena, CA 91124-0002	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: DFSP - Norwalk		Page 12 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	105	80-120	
Dibromofluoromethane	100	78-126	
1,2-Dichloroethane-d4	108	75-135	
Toluene-d8	100	80-120	

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Project: DFSP - Norwalk

Date Received: 05/29/14
Work Order: 14-05-2132
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-05-2041-1	**Sample**	**Aqueous**	**GC/MS JJ**	**05/29/14**	**05/29/14 15:21**	**140529S005**
14-05-2041-1	**Matrix Spike**	**Aqueous**	**GC/MS JJ**	**05/29/14**	**05/29/14 15:51**	**140529S005**
14-05-2041-1	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS JJ**	**05/29/14**	**05/29/14 16:22**	**140529S005**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	50.00	51.10	102	51.20	102	51-171	0	0-20	
Benzene	ND	50.00	50.41	101	48.98	98	80-120	3	0-20	
Bromobenzene	ND	50.00	51.24	102	50.34	101	54-150	2	0-20	
Bromochloromethane	ND	50.00	49.08	98	48.17	96	77-125	2	0-20	
Bromodichloromethane	ND	50.00	57.78	116	56.67	113	78-126	2	0-20	
Bromoform	ND	50.00	57.02	114	56.81	114	41-155	0	0-20	
Bromomethane	ND	50.00	34.41	69	35.39	71	30-152	3	0-20	
2-Butanone	ND	50.00	49.80	100	48.63	97	52-160	2	0-20	
n-Butylbenzene	ND	50.00	53.52	107	51.71	103	50-164	3	0-20	
sec-Butylbenzene	ND	50.00	53.28	107	51.71	103	49-157	3	0-20	
tert-Butylbenzene	ND	50.00	55.95	112	54.80	110	48-156	2	0-20	
Carbon Disulfide	ND	50.00	47.89	96	47.00	94	69-123	2	0-20	
Carbon Tetrachloride	ND	50.00	56.78	114	56.29	113	62-140	1	0-20	
Chlorobenzene	ND	50.00	50.90	102	50.11	100	52-148	2	0-20	
Chloroethane	ND	50.00	63.59	127	71.93	144	66-132	12	0-20	3
Chloroform	ND	50.00	53.83	108	52.56	105	80-122	2	0-20	
Chloromethane	ND	50.00	44.77	90	45.98	92	45-147	3	0-20	
2-Chlorotoluene	ND	50.00	55.99	112	54.97	110	51-153	2	0-20	
4-Chlorotoluene	ND	50.00	52.53	105	52.11	104	49-151	1	0-20	
Dibromochloromethane	ND	50.00	57.14	114	58.26	117	48-150	2	0-20	
1,2-Dibromo-3-Chloropropane	ND	50.00	55.04	110	53.35	107	46-142	3	0-20	
1,2-Dibromoethane	ND	50.00	51.12	102	49.53	99	51-147	3	0-20	
Dibromomethane	ND	50.00	52.83	106	51.41	103	80-123	3	0-20	
1,2-Dichlorobenzene	ND	50.00	51.09	102	50.59	101	51-147	1	0-20	
1,3-Dichlorobenzene	ND	50.00	51.65	103	50.90	102	49-151	1	0-20	
1,4-Dichlorobenzene	ND	50.00	48.61	97	47.71	95	51-147	2	0-20	
Dichlorodifluoromethane	ND	50.00	54.97	110	54.01	108	30-170	2	0-20	
1,1-Dichloroethane	ND	50.00	49.04	98	48.66	97	67-127	1	0-20	
1,2-Dichloroethane	ND	50.00	59.57	119	57.36	115	73-133	4	0-20	
1,1-Dichloroethene	15.41	50.00	76.20	122	73.41	116	68-128	4	0-20	
c-1,2-Dichloroethene	13.58	50.00	64.42	102	62.94	99	77-125	2	0-20	
t-1,2-Dichloroethene	1.687	50.00	53.74	104	52.24	101	71-131	3	0-20	
1,2-Dichloropropane	ND	50.00	48.12	96	46.12	92	80-120	4	0-20	
1,3-Dichloropropane	ND	50.00	49.32	99	48.90	98	50-146	1	0-20	
2,2-Dichloropropane	ND	50.00	57.34	115	56.18	112	30-170	2	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 05/29/14
Work Order: 14-05-2132
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP - Norwalk

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	50.00	52.44	105	51.88	104	75-129	1	0-20	
c-1,3-Dichloropropene	ND	50.00	52.53	105	51.49	103	80-124	2	0-20	
t-1,3-Dichloropropene	ND	50.00	60.18	120	59.87	120	47-143	1	0-20	
Ethylbenzene	ND	50.00	52.30	105	51.63	103	54-150	1	0-20	
2-Hexanone	ND	50.00	48.69	97	49.84	100	44-152	2	0-20	
Isopropylbenzene	ND	50.00	55.27	111	54.63	109	52-154	1	0-20	
p-Isopropyltoluene	ND	50.00	49.74	99	48.51	97	49-151	2	0-20	
Methylene Chloride	ND	50.00	48.02	96	48.19	96	73-127	0	0-20	
4-Methyl-2-Pentanone	ND	50.00	52.04	104	49.40	99	70-124	5	0-20	
Naphthalene	ND	50.00	50.91	102	49.97	100	39-153	2	0-20	
n-Propylbenzene	ND	50.00	53.97	108	53.08	106	49-157	2	0-20	
Styrene	ND	50.00	51.23	102	51.03	102	54-150	0	0-20	
1,1,1,2-Tetrachloroethane	ND	50.00	53.78	108	54.47	109	50-152	1	0-20	
1,1,2,2-Tetrachloroethane	ND	50.00	48.32	97	46.68	93	44-146	3	0-20	
Tetrachloroethene	1.021	50.00	40.32	79	39.52	77	34-170	2	0-20	
Toluene	ND	50.00	50.77	102	49.42	99	80-120	3	0-20	
1,2,3-Trichlorobenzene	ND	50.00	53.72	107	52.70	105	41-161	2	0-20	
1,2,4-Trichlorobenzene	ND	50.00	54.23	108	53.31	107	41-161	2	0-20	
1,1,1-Trichloroethane	ND	50.00	56.97	114	54.85	110	75-129	4	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50.00	58.59	117	57.01	114	54-156	3	0-20	
1,1,2-Trichloroethane	ND	50.00	48.11	96	47.37	95	51-147	2	0-20	
Trichloroethene	19.82	50.00	69.74	100	67.15	95	80-120	4	0-20	
Trichlorofluoromethane	ND	50.00	57.49	115	55.89	112	61-145	3	0-20	
1,2,3-Trichloropropane	ND	50.00	52.97	106	52.60	105	51-147	1	0-20	
1,2,4-Trimethylbenzene	ND	50.00	53.27	107	52.11	104	56-152	2	0-20	
1,3,5-Trimethylbenzene	ND	50.00	56.68	113	55.54	111	56-158	2	0-20	
Vinyl Acetate	ND	50.00	57.68	115	54.32	109	35-167	6	0-20	
Vinyl Chloride	ND	50.00	55.63	111	57.31	115	67-133	3	0-20	
p/m-Xylene	ND	100.0	107.8	108	106.8	107	51-153	1	0-20	
o-Xylene	ND	50.00	55.52	111	54.87	110	51-153	1	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	51.92	104	51.52	103	64-130	1	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	258.1	103	252.7	101	76-124	2	0-20	
Diisopropyl Ether (DIPE)	ND	50.00	48.47	97	48.20	96	67-133	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	52.62	105	52.87	106	69-129	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	52.22	104	49.80	100	75-123	5	0-20	
Ethanol	ND	500.0	520.6	104	521.2	104	53-161	0	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS

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

Date Received: 05/29/14
Work Order: 14-05-2132
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP - Norwalk

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-14243	**LCS**	**Aqueous**	**GC/MS JJ**	**05/29/14**	**05/29/14 13:15**	**140529L047**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	52.08	104	80-120	73-127	
Carbon Tetrachloride	50.00	58.99	118	67-139	55-151	
Chlorobenzene	50.00	52.52	105	78-120	71-127	
1,2-Dibromoethane	50.00	51.77	104	80-120	73-127	
1,2-Dichlorobenzene	50.00	52.50	105	63-129	52-140	
1,2-Dichloroethane	50.00	60.97	122	70-130	60-140	
1,1-Dichloroethene	50.00	61.44	123	66-126	56-136	
Ethylbenzene	50.00	53.79	108	80-123	73-130	
Toluene	50.00	52.43	105	80-120	73-127	
Trichloroethene	50.00	52.98	106	80-122	73-129	
Vinyl Chloride	50.00	60.37	121	70-130	60-140	
p/m-Xylene	100.0	111.3	111	75-123	67-131	
o-Xylene	50.00	57.38	115	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	52.55	105	69-129	59-139	
Tert-Butyl Alcohol (TBA)	250.0	260.2	104	69-129	59-139	
Diisopropyl Ether (DIPE)	50.00	49.81	100	68-128	58-138	
Ethyl-t-Butyl Ether (ETBE)	50.00	52.31	105	63-135	51-147	
Tert-Amyl-Methyl Ether (TAME)	50.00	50.76	102	67-133	56-144	
Ethanol	500.0	573.9	115	42-168	21-189	

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Sample Analysis Summary Report

Work Order: 14-05-2132

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8260B	EPA 5030C	316	GC/MS JJ	2

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order: 14-05-2132 Page 1 of 1

Qualifiers	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 suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

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

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

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

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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 **14-05-2132**

Date 5-29-14

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LABORATORY CLIENT: Parsons

ADDRESS: 100 W. Walnut St

CITY: Pasadena STATE: CA ZIP: 92114

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

CLIENT PROJECT NAME / NUMBER: DFSP-Norwalk

P.O. NO.: 747577-05000

PROJECT CONTACT: Mary Lucas

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	8260B + Oxy's														
1	Surge Tank	5-29-14	1441		3		X		X														
2	After MX-21	↓	1437		3		X		X														
3	Effluent	↓	1435		3		X		X		48 hr rush on Effluent sample only												

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature/Affiliation)	Date: 5-29-14	Time: 1600
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 5/29/14	Time: 1620
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

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 14-05-2132

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Parsons DATE: 05/29/14

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

Temperature 2.7 °C - 0.3 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

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

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

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

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** IS

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Checked by:** IS

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Checked by:** ZZ

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	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
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® ☐_____

Aqueous: ☐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® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** ZZ

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

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:** SM

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