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April 14, 2017

Information & Technology Unit California Regional Water Quality Control Board, Los Angeles Region 320 West Fourth Street, Suite 200 Los Angeles, California 90013

Subject: GROUNDWATER DISCHARGE MONITORING REPORT

**QUARTER 1, 2017** 

NPDES No. CAG994004; Compliance File No. CI-7585

Defense Fuel Support Point, Norwalk

15306 Norwalk Boulevard

Norwalk, California

On behalf of The Defense Logistics Agency Installation Support for Energy (DLA Energy), The Source Group, Inc. (SGI) presents this groundwater discharge monitoring report to summarize the National Pollutant Discharge Elimination System (NPDES) monitoring activities for Quarter 1, 2017 at Defense Fuel Support Point (DFSP), Norwalk located at 15306 Norwalk Boulevard, in Norwalk, California (Site).

### SUMMARY OF REMEDIATION PROGRESS AND DISCHARGE VOLUMES

Active remediation systems at the Site consist of a soil vapor extraction system (VES) and a groundwater extraction and treatment system (GWETS) for treatment of extracted soil vapors and groundwater to address the entire former tank farm, the former water tank, former truck fueling, and pump house areas during the subject reporting period.

The GWETS consists of five vertical extraction wells (four 6-inch diameter wells and one 4-inch diameter well), three bag filter vessels, two MYCELX oil separator vessels, three granular activated carbon (GAC) vessels, and two ion exchange vessels. Four wells (GW-2, GW-13, GW-15, and GW-16) were in operation during this reporting period. As summarized in Table 1, the treated groundwater was discharged in accordance with NPDES Permit No. CAG994004, Compliance File No. CI-7585 with the exception that the Arsenic result from sampling conducted on January 9, 2017 yielded a value that is slightly above the monthly limit (see Summary of Non-Compliance section).

The GWETS discharge volumes and field notes for the reporting period are summarized in Tables 2a, 2b, and 2c. Periodic site visits were conducted to assess and optimize system operation and record operational data. The total volume of groundwater extracted by the GWETS during this reporting period was approximately 467,663 gallons. Based on the total petroleum hydrocarbons as diesel (TPHd) results for influent water samples and total groundwater extracted, the mass of TPHd removed by the GWETS was approximately 0.6 pounds (Table 2c) during Quarter 1, 2017.

There were no changes in the operation of the facility that have or would change the character, location, or volume of the groundwater discharge.

### **SUMMARY OF COMPLIANCE RESULTS**

Representative samples of treated groundwater were collected from the system effluent and analyzed for compounds as required by the Monitoring and Reporting Program (MRP). The sampling results indicate concentrations were below detection limits or did not exceed permit required discharge levels. The sample dates and summary of test results are provided in Table 1. Laboratory analytical reports and chain-of-custody documents are included in Appendix A.

Compliance samples were submitted to a laboratory certified for analyses of requested methods by the California Department of Public Health (CDPH) Environmental Laboratory Approval Program (ELAP). The laboratory analyzed samples in batches with other samples of similar matrix and analyzed quality control samples with each batch to assess method precision and accuracy. Duplicate sample or matrix spike/matrix spike duplicate sample pairs were analyzed to assess method precision. Matrix spike sample results also demonstrate method accuracy. Method blank and laboratory control samples are analyzed to assess potential laboratory contamination and method accuracy without potential matrix interferences, respectively.

Note that per SGI's January 13, 2017 *Groundwater Discharge Monitoring Report*, accelerated acute toxicity testing continued this period based upon an anomalous annual 2016 sampling result (event conducted on November 1, 2016) that was not repeatable (i.e., confirmation sampling event conducted on November 7, 2016 yielded a result of 98% survival) and considered suspect since no definitive cause could be identified. Based upon the fact that all subsequent accelerated monitoring results from samples collected during December 2016, January 2017 and February 2017 yielded 100% survival (laboratory analytical reports and chain-of-custody documents from this period included in Appendix A), the acute toxicity result from the annual 2016 event has been concluded to be due to test method variability and/or some other false positive. Regular annual acute toxicity testing is therefore scheduled to resume during November 2017 in accordance with Section IV, Part A.4 of the Monitoring and Reporting Program (MRP).

### SUMMARY OF NON-COMPLIANCE

The GWETS operated in compliance with NPDES No. CAG994004, CI-7585 during this reporting period with the exception that Arsenic was detected slightly above its effluent permit limit during the monthly sampling event for January 2017. As indicated on Table 1, discharge was terminated on January 17, 2017 upon receipt of the January 9, 2017 analytical data from the laboratory in accordance with General Monitoring Provision U of the MRP.

Discharge resumed on January 23, 2017 following the implementation of remedial measures to ensure compliance with the effluent Arsenic limit. Additionally, accelerated effluent Arsenic monitoring was conducted for three consecutive weeks per General Monitoring Provision V of the MRP with all of the analytical results demonstrating full compliance with the effluent Arsenic limit. Regular monthly monitoring for this constituent therefore resumed during March 2017 in accordance with General Monitoring Provision V or the MRP.

### LABORATORY CERTIFICATION

All analyses were conducted at a laboratory certified for such analyses by the CDPH or approved by the Executive Officer and in accordance with current United States Environmental Protection Agency (USEPA) guideline procedures or as specified in this MRP. The laboratory's quality control data is included in the laboratory analytical reports provided in Appendix A. A copy of the laboratory ELAP certification is provided in Appendix B.

### REPORT CERTIFICATION

The DLA Energy report certification is provided in Appendix C.

Sincerely,

Michael Wood, P.E.

Muhul Wool

Senior Engineer

Neil F. Irish, P.G. 5484 Principal Geologist

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### Attachments:

Table 1 — Summary of Effluent Groundwater Analytical Sampling Results - 1st Quarter 2017

Table 2a — Groundwater Extraction and Treatment System Operations Summary - January

Table 2b — Groundwater Extraction and Treatment System Operations Summary - February

Table 2c - Groundwater Extraction and Treatment System Operations Summary - March

Appendix A – Laboratory Analytical Reports and Chain-of-Custody Documents

Appendix B – Laboratory ELAP Certification

Appendix C - Report Certification

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Ms. Mary Jane McIntosh, RAB Community Member

Ms. Tracy Winkler, RAB Community Member

**TABLES** 

### TABLE 1

### Summary of Effluent Groundwater Analytical Sampling Results - 1st Quarter 2017

DFSP, Norwalk

15306 Norwalk Blvd., Norwalk, CA

	San	npling Frequency				Monthly									Quarterly						Annually
Lab	oratory A	Analysis Methods		SM 4500 H+B		EPA 8015B (M)	EPA 8260B	EPA 8260B	EPA 6020	SM 5520 B	EPA 6020	SM 2130 B	SM 4500 S2-D	SM 4500-CI F	SM 2540 C	SM 2540 D	SM 2540 F	SM 5540 C	EPA 420.1	SM 5210 B	EPA 2000.0
D	aily Disch	narge Limitations				100 μg/L	5 μg/L	12 μg/L	10 μg/L	15 mg/L	30 μg/L	150 NTU	1.0 mg/L	0.1 mg/L		75 mg/L	0.3 mL/L	0.5 mg/L	1.0 mg/L	30 mg/L	
Mont	thly Disch	narge Limitations								10 mg/L	15 μg/L	50 NTU				50 mg/L	0.1 mL/L			20 mg/L	
Sample Date	Notes	GWETS Wells On Line	Average Flow Rate	pH <sup>a</sup>	Temp- erature	ТРН	MTBE	ТВА	Arsenic	Oil & Grease	Copper	Turbidity	Sulfides	Residual Chlorine	Total Dissolved Solids	Total Suspended Solids	Settleable Solids	MBAS	Phenols	BOD₅ 20°C	Acute Toxicity
			(gpm)	pH units	°C	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(mg/L)	(μg/L)	(NTU)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mL/L)	(mg/L)	(mg/L)	(mg/L)	(% Survival)
01/09/17	1,2	GW-2, GW-13, GW-15, GW-16	5.5	7.68	17.6	<100	<0.40	<7.0	17												100
01/23/17	3,4	GW-2, GW-13, GW-15, GW-16	3.5						<6.0												
02/01/17	4	GW-2, GW-13, GW-15, GW-16	3.5						<6.0												
02/06/17	1,4,5	GW-2, GW-13, GW-15, GW-16	5.0	7.38	15.1	<100	<0.40	<7.0	<6.0					<0.1 b							100
03/15/17	6	GW-2, GW-13, GW-15, GW-16	4.3	7.47	20.1	<100	<0.40	<7.0	<6.0												
03/31/17	7,8	GW-2, GW-13, GW-15, GW-16	3.0	7.55	19.0	<100	<0.40	<7.0	<6.0	<5.0	<2.0	1.0	<0.027	<0.5	<6.2	<5.0	<0.1	<0.05	<0.15	<5.0	

### Legend / Notes:

GWETS = Groundwater extraction and treatment system

TPH = Total petroleum hydrocarbons (gasoline range organics [GRO] and diesel range organics [DRO])

MTBE = Methyl tertiary-butyl ether

TBA = tertiary-Butyl alcohol

MBAS = Methylene blue active substances

BOD = Biochemical oxygen demand

gpm = Gallons per minute

mg/L = Micrograms per liter

mg/L = Milligrams per liter

NTU = Nephelometric Turbidity Units

mL/L = Milliliters per liter

- <0.40 = Not detected at or above the Method Detection Limit (MDL) shown.
- -- = Not measured or analyzed
- J = Laboratory estimated value since analyte detected below Method Reporting Limit (MRL) but above MDL.
- a = Measured in the field using an Oakton® pH Tester Model 30.
- b = Measured in the field using a HACH® Chlorine Test Kit Model CN-70.
- 1 = Acute toxicity result from additional sample collected as part of accelerated permit compliance monitoring conducted in accordance with Section IV, Part A.4 of the Monitoring and Reporting Program (MRP) (results from all three required monthly events dating back to December 2016 demonstrated full compliance with survival threshold so regular annual acute toxicity testing will resume during November 2017).
- 2 = GWETS manually shutdown on January 17, 2017 following receipt of analytical result for Arsenic from January 9, 2017 sampling event in accordance with General Monitoring Provision U of the MRP.
- 3 = GWETS restarted following implementation of remedial measures to ensure compliance with effluent Arsenic limit per General Monitoring Provision U of the MRP.
- 4 = Arsenic result from additional sample collected as part of accelerated permit compliance monitoring conducted per General Monitoring Provision V of the MRP (results from all three required weekly events demonstrated full compliance with effluent Arsenic limit so regular monthly monitoring resumed during March 2017).
- 5 = Acute toxicity sample collected on February 7, 2017.
- 6 = GWETS off-line from March 8-15, 2017 pending the completion of media change out work.
- 7 = Pumps in wells GW-15 and GW-16 restarted after being off-line for repair work since March 27, 2017.
- 8 = Quarterly sampling normally conducted during February per General Monitoring Provision R of the MRP (i.e., samples inadvertently not collected during February 6, 2017 event and oversight not discovered until late March 2017).

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### TABLE 2a

### Groundwater Extraction and Treatment System Operations Summary - January

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 North-East Area (gallons)	Groundwater Extracted from North-West Area (gallons)	NPDES Discharge Totalizer Reading (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed <sup>A</sup> (lb)
01/01/17	*		86,978	4,002,220	2,219,019	7,819,255	10,038,274	4,089,198	75,849,280		9,944
01/02/17	*		87,818	4,002,675	2,221,967	7,820,948	10,042,915	4,090,493	75,854,312		9,944
01/03/17	*		88,658	4,003,130	2,224,915	7,822,641	10,047,556	4,091,788	75,859,345		9,944
01/04/17	*		89,498	4,003,585	2,227,862	7,824,334	10,052,196	4,093,083	75,864,377		9,944
01/05/17	Technician		90,574	4,004,168	2,231,639	7,826,503	10,058,142	4,094,742	75,870,825		9,944
01/06/17	*		92,024	4,005,090	2,235,666	7,829,779	10,065,445	4,097,113	75,878,794		9,944
01/07/17	*		93,473	4,006,012	2,239,693	7,833,055	10,072,748	4,099,485	75,886,763		9,944
01/08/17	*		94,923	4,006,933	2,243,721	7,836,331	10,080,052	4,101,856	75,894,731		9,944
01/09/17	Technician	1,2	95,995	4,007,615	2,246,699	7,838,754	10,085,453	4,103,610	75,900,625	150	9,944
01/10/17	*		97,279	4,008,836	2,249,802	7,841,909	10,091,711	4,106,115	75,907,762		9,944
01/11/17	*		98,563	4,010,057	2,252,904	7,845,064	10,097,968	4,108,620	75,914,899		9,944
01/12/17	*		99,847	4,011,278	2,256,007	7,848,219	10,104,226	4,111,125	75,922,036		9,944
01/13/17	Technician		101,399	4,012,753	2,259,756	7,852,031	10,111,787	4,114,152	75,930,660		9,944
01/14/17	*		102,909	4,014,378	2,261,907	7,855,443	10,117,349	4,117,287	75,937,749		9,944
01/15/17	*		104,418	4,016,004	2,264,057	7,858,855	10,122,912	4,120,422	75,944,837		9,944
01/16/17	*		105,928	4,017,629	2,266,208	7,862,267	10,128,474	4,123,557	75,951,926		9,944
01/17/17	Technician	3	107,359	4,019,170	2,268,246	7,865,501	10,133,747	4,126,529	75,958,645		9,944
01/18/17	Off line		107,359	4,019,170	2,268,246	7,865,501	10,133,747	4,126,529	75,958,645		9,944
01/19/17	Off line		107,359	4,019,170	2,268,246	7,865,501	10,133,747	4,126,529	75,958,645		9,944
01/20/17	Off line		107,359	4,019,170	2,268,246	7,865,501	10,133,747	4,126,529	75,958,645		9,944
01/21/17	Off line		107,359	4,019,170	2,268,246	7,865,501	10,133,747	4,126,529	75,958,645		9,944
01/22/17	Off line		107,359	4,019,170	2,268,246	7,865,501	10,133,747	4,126,529	75,958,645		9,944
01/23/17	Technician	4,5	107,359	4,019,170	2,268,246	7,865,501	10,133,747	4,126,529	75,958,645		9,944
01/24/17	*		108,582	4,020,031	2,270,525	7,867,871	10,138,396	4,128,613	75,963,705		9,944
01/25/17	*		109,805	4,020,892	2,272,803	7,870,241	10,143,044	4,130,697	75,968,766		9,944
01/26/17	*		111,027	4,021,753	2,275,082	7,872,611	10,147,693	4,132,780	75,973,826		9,944
01/27/17	*		112,250	4,022,614	2,277,361	7,874,981	10,152,342	4,134,864	75,978,887		9,944
01/28/17	*		113,473	4,023,475	2,279,639	7,877,351	10,156,990	4,136,948	75,983,947		9,944
01/29/17	*		114,696	4,024,336	2,281,918	7,879,721	10,161,639	4,139,032	75,989,007		9,944
01/30/17	*		115,919	4,025,197	2,284,197	7,882,091	10,166,288	4,141,115	75,994,068		9,944
01/31/17	*		117,141	4,026,058	2,286,475	7,884,461	10,170,936	4,143,199	75,999,128		9,944

		Cumulative G	roundwater Discharç	ged by the GWETS	to Date (gallons)		
Period	January	Quarter 1, 2017	Quarter 2, 2017	Quarter 3, 2017	Quarter 4, 2017	2017 to Date	April 1996 to Date
Volume	154,881	154,881				154,881	75,999,128

Cumu	lative Mass DRO Re	emoved by the GWI	ETS <sup>A</sup> (lb)
Period	January	Quarter 1 to Date	April 1996 to Date
Mass	0.32	0.32	9,944.1

### Legend / Notes:

- 1 = Collected monthly influent, intermediate, and effluent samples for laboratory analysis.
- 2 = Collected monthly effluent acute toxicity testing sample for laboratory analysis as part of required accelerated permit compliance monitoring (laboratory report attached).
- 3 = GWETS manually shut down for maintenance.
- 4 = GWETS restarted.
- 5 = Collected weekly effluent arsenic sample for laboratory analysis as part of required accelerated permit compliance monitoring (laboratory report attached).

GWETS = Groundwater extraction and treatment system

 $\mu g/L$  - Micrograms per liter

Ib = Pounds

DRO = Diesel range organics

- A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit is used) from sample collected on: 01/09/17 (laboratory report attached).
- -- = Not applicable
- \* = Operational values interpolated from chart recorder data or previous monitoring event.

### TABLE 2b

### Groundwater Extraction and Treatment System Operations Summary - February

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 North-East Area (gallons)	Groundwater Extracted from North-West Area (gallons)	NPDES Discharge Totalizer Reading (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed <sup>A</sup> (lb)
02/01/17	Technician	1	118,309	4,026,880	2,288,651	7,886,724	10,175,375	4,145,189	76,003,960		9,944
02/02/17	*		119,578	4,028,077	2,291,984	7,889,423	10,181,407	4,147,655	76,011,971		9,944
02/03/17	*		120,846	4,029,274	2,295,317	7,892,123	10,187,440	4,150,120	76,019,982		9,944
02/04/17	Auto Shutdown	2	122,696	4,031,020	2,300,178	7,896,059	10,196,237	4,153,716	76,031,665		9,944
02/05/17	Off line		122,696	4,031,020	2,300,178	7,896,059	10,196,237	4,153,716	76,031,665		9,944
02/06/17	Technician	3,4,5,6	122,696	4,031,020	2,300,178	7,896,059	10,196,237	4,153,716	76,031,665	110	9,944
02/07/17	Technician	6	123,900	4,032,294	2,304,281	7,898,771	10,203,052	4,156,195	76,038,839		9,944
02/08/17	*		125,105	4,033,569	2,308,384	7,901,484	10,209,868	4,158,673	76,046,014		9,944
02/09/17	Technician		126,447	4,034,989	2,312,957	7,904,507	10,217,464	4,161,436	76,054,010		9,944
02/10/17	*		127,650	4,036,443	2,317,000	7,907,263	10,224,262	4,164,093	76,060,663		9,944
02/11/17	*		128,853	4,037,897	2,321,042	7,910,019	10,231,061	4,166,749	76,067,315		9,944
02/12/17	*		130,055	4,039,350	2,325,085	7,912,774	10,237,859	4,169,406	76,073,968		9,944
02/13/17	Technician		131,258	4,040,804	2,329,127	7,915,530	10,244,657	4,172,062	76,080,620		9,944
02/14/17	*		132,456	4,042,288	2,334,224	7,919,052	10,253,276	4,174,743	76,088,706		9,944
02/15/17	*		133,653	4,043,771	2,339,321	7,922,575	10,261,895	4,177,425	76,096,793		9,944
02/16/17	*		134,851	4,045,255	2,344,417	7,926,097	10,270,514	4,180,106	76,104,879		9,944
02/17/17	Technician		135,737	4,046,352	2,348,187	7,928,702	10,276,889	4,182,089	76,110,860		9,944
02/18/17	*		136,901	4,048,216	2,350,341	7,932,094	10,282,434	4,185,117	76,118,039		9,944
02/19/17	*		138,064	4,050,081	2,352,495	7,935,485	10,287,980	4,188,145	76,125,218		9,944
02/20/17	*		139,228	4,051,945	2,354,648	7,938,877	10,293,525	4,191,173	76,132,397		9,944
02/21/17	Technician		140,695	4,054,295	2,357,363	7,943,152	10,300,515	4,194,990	76,141,445		9,944
02/22/17	*		141,945	4,055,670	2,362,068	7,943,220	10,305,288	4,197,615	76,148,151		9,944
02/23/17	*		143,196	4,057,044	2,366,773	7,943,288	10,310,061	4,200,240	76,154,857		9,944
02/24/17	*		144,446	4,058,419	2,371,478	7,943,356	10,314,834	4,202,865	76,161,563		9,944
02/25/17	*	·	145,697	4,059,794	2,376,184	7,943,424	10,319,608	4,205,491	76,168,269		9,944
02/26/17	*		146,947	4,061,168	2,380,889	7,943,492	10,324,381	4,208,116	76,174,975		9,944
02/27/17	Technician		148,237	4,062,586	2,385,741	7,943,562	10,329,303	4,210,823	76,181,890		9,944
02/28/17	*		149,495	4,063,970	2,388,908	7,947,224	10,336,132	4,213,465	76,189,062		9,944

		Cumulativ	e Groundwater Disc	harged by the GWE	TS (gallons)		
Period	February	Quarter 1, 2017	Quarter 2, 2017	Quarter 3, 2017	Quarter 4, 2017	2017 to Date	April 1996 to Date
Volume	189,934	344,815				344,815	76,189,062

Cumul	lative Mass DRO Re	emoved by the GWI	ETS <sup>A</sup> (lb)
Period	February	Quarter 1 to Date	April 1996 to Date
Mass	0.19	0.51	9,944.3

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

### Legend / Notes:

- 1 = Collected weekly effluent arsenic sample for laboratory analysis as part of required accelerated permit compliance monitoring (laboratory report attached).
- 2 = GWETS automatically shutdown due to power failure.
- 3 = GWETS restarted.
- 4 = Collected monthly process, intermediate and effluent samples for laboratory analysis.
- 5 = Measured residual chlorine in the field using HACH Test Kit Model CN-70.
- 6 = Collected final weekly effluent arsenic sample (02/06/17) and monthly effluent acute toxicity sample (02/07/17) for confirmation compliance analysis under accelerated monitoring requirements (laboratory reports attached).

GWETS = Groundwater extraction and treatment system  $\mu g/L$  - Micrograms per liter

Ib = Pounds

DRO = Diesel range organics

- A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit is used) from sample collected on: 02/06/16 (laboratory report attached).
- -- = 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

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### TABLE 2c

### Groundwater Extraction and Treatment System Operations Summary - March

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 North-East Area (gallons)	Groundwater Extracted from North-West Area (gallons)	NPDES Discharge Totalizer Reading (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed <sup>A</sup> (lb)
03/01/17	Technician		150,684	4,065,277	2,391,900	7,950,682	10,342,582	4,215,961	76,195,836		9,944
03/02/17	*		152,303	4,067,131	2,395,552	7,955,139	10,350,691	4,219,434	76,204,970		9,944
03/03/17	*		153,923	4,068,984	2,399,203	7,959,596	10,358,799	4,222,907	76,214,103		9,944
03/04/17	*		155,542	4,070,838	2,402,855	7,964,053	10,366,908	4,226,380	76,223,237		9,944
03/05/17	*		157,162	4,072,692	2,406,507	7,968,510	10,375,017	4,229,854	76,232,371		9,944
03/06/17	*		158,781	4,074,545	2,410,159	7,972,967	10,383,125	4,233,327	76,241,504		9,944
03/07/17	*		160,401	4,076,399	2,413,810	7,977,423	10,391,234	4,236,800	76,250,638		9,944
03/08/17	Technician	1	161,638	4,077,815	2,416,600	7,980,828	10,397,428	4,239,453	76,257,615		9,944
03/09/17	Off line		161,638	4,077,815	2,416,600	7,980,828	10,397,428	4,239,453	76,257,615		9,944
03/10/17	Off line		161,638	4,077,815	2,416,600	7,980,828	10,397,428	4,239,453	76,257,615		9,944
03/11/17	Off line		161,638	4,077,815	2,416,600	7,980,828	10,397,428	4,239,453	76,257,615		9,944
03/12/17	Off line		161,638	4,077,815	2,416,600	7,980,828	10,397,428	4,239,453	76,257,615		9,944
03/13/17	Off line		161,638	4,077,815	2,416,600	7,980,828	10,397,428	4,239,453	76,257,615		9,944
03/14/17	Off line		161,638	4,077,815	2,416,600	7,980,828	10,397,428	4,239,453	76,257,615		9,944
03/15/17	Technician	2,3	161,638	4,077,815	2,416,600	7,980,828	10,397,428	4,239,453	76,257,615	68	9,944
03/16/17	*		162,803	4,078,898	2,419,270	7,983,859	10,403,128	4,241,702	76,263,749		9,944
03/17/17	Technician		164,066	4,080,072	2,422,162	7,987,142	10,409,304	4,244,138	76,270,395		9,944
03/18/17	*		164,757	4,080,663	2,423,825	7,988,654	10,412,480	4,245,419	76,273,704		9,944
03/19/17	*		165,448	4,081,253	2,425,489	7,990,167	10,415,655	4,246,701	76,277,012		9,944
03/20/17	*		166,139	4,081,844	2,427,152	7,991,679	10,418,831	4,247,982	76,280,321		9,944
03/21/17	*		166,830	4,082,434	2,428,815	7,993,191	10,422,006	4,249,264	76,283,630		9,944
03/22/17	*		167,521	4,083,025	2,430,479	7,994,703	10,425,182	4,250,545	76,286,939		9,944
03/23/17	*		168,212	4,083,615	2,432,142	7,996,216	10,428,358	4,251,827	76,290,247		9,944
03/24/17	*		168,903	4,084,206	2,433,805	7,997,728	10,431,533	4,253,108	76,293,556		9,944
03/25/17	*		169,594	4,084,796	2,435,468	7,999,240	10,434,709	4,254,390	76,296,865		9,944
03/26/17	*		170,285	4,085,387	2,437,132	8,000,753	10,437,884	4,255,671	76,300,174		9,944
03/27/17	Technician	4	171,062	4,086,051	2,439,003	8,002,454	10,441,457	4,257,113	76,303,896		9,944
03/28/17	*		172,189	4,087,297	2,439,003	8,002,454	10,441,457	4,259,486	76,305,992		9,944
03/29/17	*		173,316	4,088,544	2,439,003	8,002,454	10,441,457	4,261,860	76,308,089		9,944
03/30/17	*		174,443	4,089,790	2,439,003	8,002,454	10,441,457	4,264,233	76,310,185		9,944
03/31/17	Technician	5,6	175,370	4,090,816	2,439,003	8,002,454	10,441,457	4,266,186	76,311,910		9,944

		Cumulativ	e Groundwater Disc	harged by the GWE	TS (gallons)		
Period	March	Quarter 1, 2017	Quarter 2, 2017	Quarter 3, 2017	Quarter 4, 2017	2017 to Date	April 1996 to Date
Volume	122,848	467,663				467,663	76,311,910

Cumu	ative Mass DRO Re	emoved by the GWI	ETS A (lb)
Period	March	Quarter 1 to Date	April 1996 to Date
Mass	0.09	0.60	9,944.4

### Legend / Notes:

1 = GWETS manually shutdown for media change out work.

2 = GWETS restarted.

3 = Collected monthly influent, intermediate, and effluent samples for laboratory analysis.

4 = GW-15 and GW-16 manually shutdown to conduct repair work.

5 = GW-15 and GW-16 restarted following completion of repair work.

6 = Collected quarterly effluent samples for laboratory analysis.

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

GWETS = Groundwater extraction and treatment system

lb = Pounds

 $\mu g/L$  - Micrograms per liter

DRO = Diesel range organics

A = Hydrocarbon removal is calculated using analytical laboratory results for DRO (if not detected, half the detection limit is used) from sample collected on: 03/15/17 (laboratory report attached).

-- = Not applicable

 $^{\star}$  = Operational values interpolated from chart recorder data or previous monitoring event.

Page 1 of 1 The Source Group, Inc.

### **APPENDIX A** Laboratory Analytical Reports and Chain-of-Custody Documents The Source Group, Inc.



9765 Eton Avenue Chatsworth California 91311 Tel: (818) 998-5547

Fax: (818) 998-7258

January 23, 2017

Neil Irish The Source Group, Inc. (SH) 1962 Freeman Ave. Signal Hill, CA 90755

Re: DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013

A5332028 / 7A09016

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 01/09/17 14:34 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile

**Operations Manager** 



Client:The Source Group, Inc. (SH)AA Project No: A5332028Project No:04-NDLA-013Date Received: 01/09/17Project Name:DFSP Norwalk GWETS NPDES MonthlyDate Reported: 01/23/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B TPHGASOLINEBTEXOXY					
Effluent	7A09016-01	Water	5	01/09/17 09:27	01/09/17 14:34
Arsenic Total EPA 200.7					
Effluent	7A09016-01	Water	5	01/09/17 09:27	01/09/17 14:34
Diesel Range Organics 8015M					
Effluent	7A09016-01	Water	5	01/09/17 09:27	01/09/17 14:34



MDL

MRL



### **LABORATORY ANALYSIS RESULTS**

Client:The Source Group, Inc. (SH)AA Project No: A5332028Project No:04-NDLA-013Date Received: 01/09/17Project Name:DFSP Norwalk GWETS NPDES MonthlyDate Reported: 01/23/17Method:TPHG/BTEX/Oxygenates by GC/MSUnits: ug/L

Date Sampled:01/09/17Date Prepared:01/10/17Date Analyzed:01/10/17AA ID No:7A09016-01Client ID No:EffluentMatrix:WaterDilution Factor:1

GASOLINEBTEXOXY	(EPA 8260B)		
alcohol (TBA)	<7.0	7.0	
Range Organics	<40	40	•
-Butyl Ether (MTBE)	<0.40	0.40	

<u>Surrogates</u>		%REC Limits
4-Bromofluorobenzene	97%	70-140
Dibromofluoromethane	113%	70-140
Toluene-d8	96%	70-140





The Source Group, Inc. (SH) Client: AA Project No: A5332028 **Project No:** 04-NDLA-013 Date Received: 01/09/17 **Project Name: DFSP Norwalk GWETS NPDES Monthly** Date Reported: 01/23/17 Method: Diesel Range Organics by GC/FID

Units: ug/L

**Date Sampled:** 01/09/17 **Date Prepared:** 01/10/17 **Date Analyzed:** 01/10/17 AA ID No: 7A09016-01 **Client ID No:** Effluent Water Matrix:

**Dilution Factor:** MDL MRL 1

Diesel Range Organics 8015M (EPA 8015M)

60 100 Diesel Range Organics as <60

Diesel

**Surrogates** %REC Limits o-Terphenyl 107% 50-150



Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Date Received: 01/09/17

Project Name: DFSP Norwalk GWETS NPDES Monthly Date Reported: 01/23/17

**Method:** Total Metals by ICP Atomic Emission Spectroscopy

motinoa.	Total Motale by 10	7 (COITHO ETTHC	olon opooli occopy					
AA I.D. No.	Client I.D. No.	Sampled	Prepared Analyzed Dil	lution	Result	Units	MDL	MRL
Arsenic Total	I EPA 200.7 (EPA 200	0.7)						
7A09016-01	Effluent	01/09/17	01/12/17 01/13/17	1	0.017	mg/L	0.006	0.007





Client:The Source Group, Inc. (SH)AA Project No: A5332028Project No:04-NDLA-013Date Received: 01/09/17Project Name:DFSP Norwalk GWETS NPDES MonthlyDate Reported: 01/23/17

Analyte	F Result	Reporting Limit	Units		Source Result		%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS	3 - Qualit	y Control								
Batch B7A1028 - EPA 5030B		-								
Blank (B7A1028-BLK1)				Prepare	ed & Anal	lyzed: 0	1/10/17			
tert-Amyl Methyl Ether (TAME)	<0.30	0.30	ug/L							
Benzene	<0.20	0.20	ug/L							
tert-Butyl alcohol (TBA)	<7.0	7.0	ug/L							
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L							
Ethylbenzene	<0.20	0.20	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	< 0.40	0.40	ug/L							
Gasoline Range Organics (GRO)	<40	40	ug/L							
Methyl-tert-Butyl Ether (MTBE)	< 0.40	0.40	ug/L							
Toluene	< 0.30	0.30	ug/L							
o-Xylene	< 0.30	0.30	ug/L							
m,p-Xylenes	< 0.40	0.40	ug/L							
Surrogate: 4-Bromofluorobenzene	48.4		ug/L	50		96.8	70-140			
Surrogate: Dibromofluoromethane	56.3		ug/L	50		113	70-140			
Surrogate: Toluene-d8	47.6		ug/L	50		95.2	70-140			
LCS (B7A1028-BS1)			ŭ	Prepare	ed: 01/10	/17 Ana	alyzed: 01	1/11/17		
tert-Amyl Methyl Ether (TAME)	20.3	0.30	ug/L	20		101	70-130			
Benzene	20.3	0.20	ug/L	20		101	75-125			
tert-Butyl alcohol (TBA)	116	7.0	ug/L	100		116	70-130			
Diisopropyl ether (DIPE)	19.6	0.50	ug/L	20		97.8	70-130			
Ethylbenzene	22.1	0.20	ug/L	20		110	75-125			
Ethyl-tert-Butyl Ether (ETBE)	20.1	0.40	ug/L	20		100	70-130			
Gasoline Range Organics (GRO)	502	40	ug/L	500		100	70-130			
Methyl-tert-Butyl Ether (MTBE)	40.9	0.40	ug/L	40		102	70-135			
Toluene	21.4	0.30	ug/L	20		107	75-125			
o-Xylene	21.5	0.30	ug/L	20		108	75-125			
m,p-Xylenes	43.6	0.40	ug/L	40		109	70-130			
Surrogate: 4-Bromofluorobenzene	49.2		ug/L	50		98.5	70-140			
Surrogate: Dibromofluoromethane	47.2		ug/L	50		94.3	70-140			
Surrogate: Toluene-d8	49.2		ug/L	50		98.3	70-140			
Matrix Spike (B7A1028-MS1)	s	ource: 7A0	_		ed & Anal					





Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DESP Norwalk GWETS NRDES Monthly

Date Received: 01/23/17

Project Name: DFSP Norwalk GWETS NPDES Monthly Date Reported: 01/23/17

Analyte	Result	Reporting Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS	S - Quali	tv Control								
Batch B7A1028 - EPA 5030B		.,								
Matrix Spike (B7A1028-MS1) Coi	ntinued S	Source: 7A0	9021-01	Prepare	ed & Anal	vzed: 0	1/10/17			
tert-Amyl Methyl Ether (TAME)	20.9	0.30	ug/L	20		104	70-130			
Benzene	20.3	0.20	ug/L	20		102	70-130			
tert-Butyl alcohol (TBA)	117	7.0	ug/L	100		117	70-130			
Diisopropyl ether (DIPÉ)	19.8	0.50	ug/L	20		99.2	70-130			
Ethylbenzene	23.1	0.20	ug/L	20		115	70-130			
Ethyl-tert-Butyl Ether (ETBE)	20.3	0.40	ug/L	20		101	70-130			
Methyl-tert-Butyl Ether (MTBE)	35.2	0.40	ug/L	40		88.0	70-130			
Toluene	22.2	0.30	ug/L	20		111	70-130			
o-Xylene	22.8	0.30	ug/L	20		114	70-130			
m,p-Xylenes	46.7	0.40	ug/L	40	0.440	116	70-130			
Surrogate: 4-Bromofluorobenzene	48.0		ug/L	50		96.1	70-140			
Surrogate: Dibromofluoromethane	46.9		ug/L	50		93.9	70-140			
Surrogate: Toluene-d8	<i>4</i> 8.6		ug/L	50		97.1	70-140			
Matrix Spike Dup (B7A1028-MSD	)1) S	Source: 7A0	9021-01	Prepare	ed & Anal	yzed: 0	1/10/17			
tert-Amyl Methyl Ether (TAME)	21.4	0.30	ug/L	20		107	70-130	2.27	30	
Benzene	20.5	0.20	ug/L	20		102	70-130	0.784	30	
tert-Butyl alcohol (TBA)	120	7.0	ug/L	100		120	70-130	2.53	30	
Diisopropyl ether (DIPE)	19.9	0.50	ug/L	20		99.5	70-130	0.252	30	
Ethylbenzene	22.2	0.20	ug/L	20		111	70-130	3.75	30	
Ethyl-tert-Butyl Ether (ETBE)	20.4	0.40	ug/L	20		102	70-130		30	
Methyl-tert-Butyl Ether (MTBE)	35.1	0.40	ug/L	40		87.7	70-130		30	
Toluene	21.7	0.30	ug/L	20		108	70-130	2.60	30	
o-Xylene	21.8	0.30	ug/L	20		109	70-130	4.67	30	
m,p-Xylenes	44.4	0.40	ug/L	40	0.440	110	70-130	4.96	30	
Surrogate: 4-Bromofluorobenzene	47.9		ug/L	50		95.8	70-140			
Surrogate: Dibromofluoromethane			ug/L	50		93.7	70-140			
Surrogate: Toluene-d8	47.2		ug/L	50		94.5	70-140			
<b>Diesel Range Organics by GC/FID</b>	- Quality	Control								
Batch B7A1029 - EPA 3510C	-									
Blank (B7A1029-BLK1)				Prepare	ed & Anal	yzed: 0	1/10/17			





Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332028

Date Received: 01/09/17

Date Reported: 01/23/17

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Analyte	Result	Reporting Limit	Units		Source Result %	%REC	%REC Limits	RPD	RPD Limit	Notes
Diesel Range Organics by GC/FID	- Quality	Control								
Batch B7A1029 - EPA 3510C										
Blank (B7A1029-BLK1) Continue	ed			Prepare	ed & Analy	zed: 0	1/10/17			
Diesel Range Organics as Diesel	<60	60	ug/L							
Surrogate: o-Terphenyl	46.0		ug/L	40		115	50-150			
LCS (B7A1029-BS1)				Prepare	ed & Analy	zed: 0	1/10/17			
Diesel Range Organics as Diesel	984	60	ug/L	800		123	75-125		30	
Surrogate: o-Terphenyl	49.4		ug/L	40		124	50-150			
LCS Dup (B7A1029-BSD1)			J	Prepare	ed & Analy	zed: 0	1/10/17			
Diesel Range Organics as Diesel	976	60	ug/L	800		122	75-125	0.857	30	
Surrogate: o-Terphenyl	49.4		ug/L	40		123	50-150			
<b>Total Metals by ICP Atomic Emiss</b>	sion Spec	troscopy -	Quality (	Control						
Batch B7A1218 - EPA 200.7	•		-							
Blank (B7A1218-BLK1)				Prepare	ed: 01/12/1	7 Ana	alyzed: 0	1/13/17		
Arsenic	<0.0060	0.0060	mg/L							
LCS (B7A1218-BS1)				Prepare	ed: 01/12/1	7 Ana	alyzed: 0	1/13/17		
Arsenic	0.216	0.0060	mg/L	0.20		108	80-120		20	
LCS Dup (B7A1218-BSD1)				•	ed: 01/12/1		•			
Arsenic	0.216	0.0060	mg/L	0.20		108			20	
Duplicate (B7A1218-DUP1)		Source: 7A0		Prepare		7 Ana	alyzed: 0			
Arsenic	0.0180	0.0060	mg/L		0.0156			14.3	30	
Matrix Spike (B7A1218-MS1)		Source: 7A0						1/13/17		
Arsenic	0.221	0.0060	mg/L	0.20	0.0168		75-125		20	
Matrix Spike Dup (B7A1218-MSI		Source: 7A0								
Arsenic	0.205	0.0060	mg/L	0.20	0.0168	94.2	75-125	7.50	20	





Client: The Source Group, Inc. (SH)

**Project No:** 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332028 Date Received: 01/09/17 Date Reported: 01/23/17

### **Special Notes**



# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX; 818-998-7258

1515921

AMALYTICS		Tel: 81	Tel: 818-998-5547	7 FAX: 818-998-7258	8-988-	7258							g.	Page of /	ı
Client: The Source Group, Inc.	up, Inc.	Project Na	Project Name / No.:		orwalk	/ 091-	NDLA	/ Mont	DFSP - Norwalk / 091-NDLA/ Monthly NPDES		Sampler's Name:		nalo	Glenn Androsta	_
Project Manager: Neil Irish	ų.	Site	Site Address:	15306 Norwalk Blvd	rwalk	Blvd			,	Sampler's Signature:	Signatu		Alema (	Onlinelar	ı —
Phone: 562-597-1055			City:	Norwalk							P.O. No.:				r
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Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.



9765 Eton Avenue Chatsworth California 91311 Tel: (818) 998-5547

Fax: (818) 998-7258

February 15, 2017 Neil Irish The Source Group, Inc. (SH) 1962 Freeman Ave.

Signal Hill, CA 90755

Re: DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013 A5332051 / 7B06016

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 02/06/17 15:35 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile

**Operations Manager** 



Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332051

Date Received: 02/06/17

Date Reported: 02/15/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B TPHGASOLINEBTEXOXY					
Effluent	7B06016-01	Water	5	02/06/17 11:00	02/06/17 15:35
Arsenic Total EPA 200.7					
Effluent	7B06016-01	Water	5	02/06/17 11:00	02/06/17 15:35
Diesel Range Organics 8015M					
Effluent	7B06016-01	Water	5	02/06/17 11:00	02/06/17 15:35



MDL

MRL



### **LABORATORY ANALYSIS RESULTS**

Client:The Source Group, Inc. (SH)AA Project No: A5332051Project No:04-NDLA-013Date Received: 02/06/17Project Name:DFSP Norwalk GWETS NPDES MonthlyDate Reported: 02/15/17Method:TPHG/BTEX/Oxygenates by GC/MSUnits: ug/L

Date Sampled:02/06/17Date Prepared:02/07/17Date Analyzed:02/07/17AA ID No:7B06016-01Client ID No:EffluentMatrix:WaterDilution Factor:1

ASOLINEBTEXOXY	(EPA 8260B)		
alcohol (TBA)	<7.0	7.0	
e Organics	<40	40	1
ther (MTBE)	<0.40	0.40	2

<u>Surrogates</u>		%REC Limits
4-Bromofluorobenzene	92%	70-140
Dibromofluoromethane	100%	70-140
Toluene-d8	95%	70-140





Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

Method: Diesel Range Organics by GC/FID

AA Project No: A5332051

Date Received: 02/06/17

Date Reported: 02/15/17

Units: ug/L

 Date Sampled:
 02/06/17

 Date Prepared:
 02/10/17

 Date Analyzed:
 02/10/17

 AA ID No:
 7B06016-01

 Client ID No:
 Effluent

Matrix: Water

Dilution Factor: 1 MDL MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as <60 60 100

Diesel

<u>Surrogates</u> <u>%REC Limits</u>

o-Terphenyl 118% 50-150

A



Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Date Received: 02/06/17

Project No: DESP Namical CWETS NRDES Monthly

Project Name: DFSP Norwalk GWETS NPDES Monthly Date Reported: 02/15/17

**Method:** Total Metals by ICP Atomic Emission Spectroscopy

	Total Motalo by 101 7		olon opool	.0000					
AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed Dil	ution	Result	Units	MDL	MRL
Arsenic Total	EPA 200.7 (EPA 200.7)	<u> </u>							
7B06016-01	Effluent	02/06/17	02/09/17	02/13/17	1	<0.0060	mg/L	0.006	0.007





Client:The Source Group, Inc. (SH)AA Project No: A5332051Project No:04-NDLA-013Date Received: 02/06/17Project Name:DFSP Norwalk GWETS NPDES MonthlyDate Reported: 02/15/17

Analyte	F Result	Reporting Limit	Units		Source Result		%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/M	S - Qualit	y Control								
Batch B7B0718 - EPA 5030B		•								
Blank (B7B0718-BLK1)				Prepare	ed & Ana	yzed: 0	2/07/17			
tert-Amyl Methyl Ether (TAME)	<0.30	0.30	ug/L	•						
Benzene	< 0.20	0.20	ug/L							
tert-Butyl alcohol (TBA)	<7.0	7.0	ug/L							
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L							
Ethylbenzene	< 0.20	0.20	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	< 0.40	0.40	ug/L							
Gasoline Range Organics (GRO)	<40	40	ug/L							
Methyl-tert-Butyl Ether (MTBE)	< 0.40	0.40	ug/L							
Toluene	< 0.30	0.30	ug/L							
o-Xylene	< 0.30	0.30	ug/L							
m,p-Xylenes	<0.40	0.40	ug/L							
Surrogate: 4-Bromofluorobenzene	46.0		ug/L	50		92.0	70-140			
Surrogate: Dibromofluoromethane	53.1		ug/L	50		106	70-140			
Surrogate: Toluene-d8	47.7		ug/L	50		95.4	70-140			
LCS (B7B0718-BS1)			-	Prepare	ed & Ana	yzed: 0	2/07/17			
tert-Amyl Methyl Ether (TAME)	16.4	0.30	ug/L	20		81.8	70-130			
Benzene	18.2	0.20	ug/L	20		91.0	75-125			
tert-Butyl alcohol (TBA)	107	7.0	ug/L	100		107	70-130			
Diisopropyl ether (DIPE)	17.1	0.50	ug/L	20		85.7	70-130			
Ethylbenzene	21.1	0.20	ug/L	20		106	75-125			
Ethyl-tert-Butyl Ether (ETBE)	16.5	0.40	ug/L	20		82.5	70-130			
Gasoline Range Organics (GRO)	500	40	ug/L	500		100	70-130			
Methyl-tert-Butyl Ether (MTBE)	42.2	0.40	ug/L	40		106	70-135			
Toluene	20.3	0.30	ug/L	20		102	75-125			
o-Xylene	21.5	0.30	ug/L	20		108	75-125			
m,p-Xylenes	43.4	0.40	ug/L	40		108	70-130			
Surrogate: 4-Bromofluorobenzene	46.3		ug/L	50		92.6	70-140			
Surrogate: Dibromofluoromethane	44.2		ug/L	50		88.4	70-140			
Surrogate: Toluene-d8	49.1		ug/L	50		98.1	70-140			
Matrix Spike (B7B0718-MS1)	S	ource: 7B0		Prepare	ed & Ana	yzed: 0	2/07/17			





Client:The Source Group, Inc. (SH)AA Project No: A5332051Project No:04-NDLA-013Date Received: 02/06/17

Project Name: DFSP Norwalk GWETS NPDES Monthly Date Reported: 02/15/17

Analyte	Result	Reporting Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS	S - Quality	y Control		_						
Batch B7B0718 - EPA 5030B	•									
Matrix Spike (B7B0718-MS1) Cor	ntinued S	ource: 7B0	3007-09	Prepare	ed & Analy	/zed: 02	2/07/17			
tert-Amyl Methyl Ether (TAME)	18.1	0.30	ug/L	20		90.5	70-130			
Benzene	18.2	0.20	ug/L	20		91.2	70-130			
tert-Butyl alcohol (TBA)	123	7.0	ug/L	100		123	70-130			
Diisopropyl ether (DIPE)	17.7	0.50	ug/L	20		88.6	70-130			
Ethylbenzene	22.0	0.20	ug/L	20		110	70-130			
Ethyl-tert-Butyl Ether (ETBE)	17.6	0.40	ug/L	20		88.2	70-130			
Methyl-tert-Butyl Ether (MTBE)	41.5	0.40	ug/L	40		104	70-130			
Toluene	21.2	0.30	ug/L	20		106	70-130			
o-Xylene	22.4	0.30	ug/L	20		112	70-130			
m,p-Xylenes	44.6	0.40	ug/L	40	0.860	109	70-130			
Surrogate: 4-Bromofluorobenzene	45.1		ug/L	50		90.2	70-140			
Surrogate: Dibromofluoromethane	44.7		ug/L	50		89.3	70-140			
Surrogate: Toluene-d8	48.2		ug/L	50		96.4	70-140			
Matrix Spike Dup (B7B0718-MSD	)1) S	ource: 7B0	3007-09	Prepare	ed & Analy	/zed: 02	2/07/17			
tert-Amyl Methyl Ether (TAME)	19.1	0.30	ug/L	20		95.4	70-130	5.27	30	_
Benzene	18.2	0.20	ug/L	20		91.2	70-130	0.0548	30	
tert-Butyl alcohol (TBA)	129	7.0	ug/L	100		129	70-130	4.76	30	
Diisopropyl ether (DIPE)	17.8	0.50	ug/L	20		89.2	70-130	0.675	30	
Ethylbenzene	22.2	0.20	ug/L	20		111	70-130	0.906	30	
Ethyl-tert-Butyl Ether (ETBE)	17.9	0.40	ug/L	20		89.4	70-130	1.30	30	
Methyl-tert-Butyl Ether (MTBE)	44.2	0.40	ug/L	40		110	70-130	6.19	30	
Toluene	21.2	0.30	ug/L	20		106	70-130		30	
o-Xylene	22.9	0.30	ug/L	20		115	70-130	2.25	30	
m,p-Xylenes	45.0	0.40	ug/L	40	0.860	110	70-130	0.915	30	
Surrogate: 4-Bromofluorobenzene	45.5		ug/L	50		91.1	70-140			
Surrogate: Dibromofluoromethane	44.7		ug/L	50		89. <i>4</i>	70-140			
Surrogate: Toluene-d8	46.5		ug/L	50		93.1	70-140			
Diesel Range Organics by GC/FID	- Quality	Control								
Batch B7B1002 - EPA 3510C	-									



Blank (B7B1002-BLK1)

Viorel Vasile Operations Manager Prepared & Analyzed: 02/10/17



Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332051

Date Received: 02/06/17

Date Reported: 02/15/17

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Diesel Range Organics by GC/FID - Quality Control										
Batch B7B1002 - EPA 3510C	_									
Blank (B7B1002-BLK1) Continue	ed			Prepare	ed & Analy	/zed: 0	2/10/17			
Diesel Range Organics as Diesel	<60	60	ug/L							
Surrogate: o-Terphenyl	51.4		ug/L	40		128	50-150			
LCS (B7B1002-BS1)				Prepare	ed & Analy	/zed: 0	2/10/17			
Diesel Range Organics as Diesel	744	60	ug/L	800		93.0	75-125		30	
Surrogate: o-Terphenyl	55.0		ug/L	40		138	50-150			
LCS Dup (B7B1002-BSD1)				Prepare	ed & Analy	/zed: 0	2/10/17			
Diesel Range Organics as Diesel	741	60	ug/L	800		92.6	75-125	0.368	30	
Surrogate: o-Terphenyl	51.5		ug/L	40		129	50-150			
<b>Total Metals by ICP Atomic Emiss</b>	ion Spec	troscopy -	Quality (	Control						
Batch B7B0922 - EPA 200.7										
Blank (B7B0922-BLK1)				Prepare	ed: 02/09/	17 Ana	alyzed: 02	2/13/17		
Arsenic	<0.0060	0.0060	mg/L							
LCS (B7B0922-BS1)				Prepare	ed: 02/09/	17 Ana	alyzed: 02	2/13/17		
Arsenic	1.02	0.0060	mg/L	1.0		102	80-120		20	
LCS Dup (B7B0922-BSD1)				Prepare	ed: 02/09/	17 Ana	alyzed: 02	2/13/17		
Arsenic	1.04	0.0060	mg/L	1.0		104	80-120	2.23	20	
Duplicate (B7B0922-DUP1)	5	Source: 7B0	06017-01	Prepare	ed: 02/09/	17 Ana	alyzed: 02	2/13/17		
Arsenic	0.0268	0.0060	mg/L		0.0280		·	4.38	30	





Client: The Source Group, Inc. (SH)

**Project No:** 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332051 Date Received: 02/06/17 Date Reported: 02/15/17

**Special Notes** 



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## AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

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Page / of

Tel: 818-998-5547 FAX: 818-998-7258

Instructions Special Report J-Flags (Inlaster Glenn Androska Received by Received by Received by Please enter the TAT Turnaround Codes \*\* below Sampler's Name: Sampler's Signature: Quote No.: ANALYSIS REQUESTED (Test Name) P.O. No. 1130 Time Time Time MPLE INTEGRIT > Project Name / No.: DFSP - Norwalk / 091-NDLA/ Monthly NPDES INTACT Date Date Date 2-6-17 SA Arsenic 200.7 TPH9/MTBE/TBA 82 Maros bH9T no Barles Relinquished by Relinquished by Relinquished by 15306 Norwalk Blvd Cont Š. Q S) CA 90650 = 10 Working Days (Standard TAT) Sample Matrix Norwalk Water <u>خ</u> 5 Site Address: State & Zip: Time 0011 (4) = 72 Hour Rush (5) = 5 Day Rush 2-6-17 Date TAT Turnaround Codes \*\* ASS3051/7806016 7606016-51 APEX/The Source Group, Inc. - Water Same Day Rush (2) = 24 Hour Rush 3 = 48 Hour Rush Project Manager: Neil Irish 562-597-1055 569-597-1070 Client I.D. Effluent Phone: Client **Fax:** 

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.



9765 Eton Avenue Chatsworth California 91311 Tel: (818) 998-5547 Fax: (818) 998-7258

March 23, 2017

Neil Irish The Source Group, Inc. (SH) 1962 Freeman Ave. Signal Hill, CA 90755

Re: DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013

A5332086 / 7C15019

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 03/15/17 16:08 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile

**Operations Manager** 



Client:The Source Group, Inc. (SH)AA Project No: A5332086Project No:04-NDLA-013Date Received: 03/15/17Project Name:DFSP Norwalk GWETS NPDES MonthlyDate Reported: 03/23/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B TPHGASOLINEBTEXOXY					
Effluent	7C15019-01	Water	5	03/15/17 08:47	03/15/17 16:08
Arsenic Total EPA 200.7					
Effluent	7C15019-01	Water	5	03/15/17 08:47	03/15/17 16:08
Diesel Range Organics 8015M					
Effluent	7C15019-01	Water	5	03/15/17 08:47	03/15/17 16:08



MDL

MRL



**Dilution Factor:** 

### **LABORATORY ANALYSIS RESULTS**

Client:The Source Group, Inc. (SH)AA Project No: A5332086Project No:04-NDLA-013Date Received: 03/15/17Project Name:DFSP Norwalk GWETS NPDES MonthlyDate Reported: 03/23/17Method:TPHG/BTEX/Oxygenates by GC/MSUnits: ug/L

 Date Sampled:
 03/15/17

 Date Prepared:
 03/21/17

 Date Analyzed:
 03/21/17

 AA ID No:
 7C15019-01

 Client ID No:
 Effluent

 Matrix:
 Water

1

,			
<u>B TPHGASOLINEBTEXOXY</u>	(EPA 8260B)		
-Amyl Methyl Ether (TAME)	<0.30	0.30	
nzene	<0.20	0.20	(
-Butyl alcohol (TBA)	<7.0	7.0	
sopropyl ether (DIPE)	<0.50	0.50	
hylbenzene	<0.20	0.20	C
nyl-tert-Butyl Ether (ETBE)	<0.40	0.40	:
asoline Range Organics RO)	<40	40	1
ethyl-tert-Butyl Ether (MTBE)	<0.40	0.40	
bluene	<0.30	0.30	C
Xylene	<0.30	0.30	(
p-Xylenes	<0.40	0.40	

<u>Surrogates</u>		%REC Limits
4-Bromofluorobenzene	94%	70-140
Dibromofluoromethane	115%	70-140
Toluene-d8	100%	70-140





Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

Method: Diesel Range Organics by GC/FID

AA Project No: A5332086

Date Received: 03/15/17

Date Reported: 03/23/17

Units: ug/L

 Date Sampled:
 03/15/17

 Date Prepared:
 03/20/17

 Date Analyzed:
 03/20/17

 AA ID No:
 7C15019-01

 Client ID No:
 Effluent

Matrix: Water

Dilution Factor: 1 MDL MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as <60 60 100

Diesel

Surrogates%REC Limitso-Terphenyl145%50-150

A



Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332086

Date Received: 03/15/17

Date Reported: 03/23/17

Method: Total Metals by ICP Atomic Emission Spectroscopy

Metrioa.	Total Mctals by 101	/ (torrile Errils	Sion Opecin	озсору					
AA I.D. No.	Client I.D. No.	Sampled	npled Prepared Analyzed Dilution R				Units	MDL	MRL
Arsenic Total	EPA 200.7 (EPA 200	<u>.7)</u>							
7C15019-01	Effluent	03/15/17	03/21/17	03/22/17	1	<0.0060	mg/L	0.006	0.007





Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332086

Date Received: 03/15/17

Date Reported: 03/23/17

Analyte	F Result	Reporting Limit	Units		Source Result		%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/M										- 1
Batch B7C2119 - EPA 5030B		,								
Blank (B7C2119-BLK1)				Prepare	ed & Anal	yzed: 0	3/21/17			
tert-Amyl Methyl Ether (TAME)	< 0.30	0.30	ug/L			-				
Benzene	< 0.20	0.20	ug/L							
tert-Butyl alcohol (TBA)	<7.0	7.0	ug/L							
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L							
Ethylbenzene	< 0.20	0.20	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	< 0.40	0.40	ug/L							
Gasoline Range Organics (GRO)	<40	40	ug/L							
Methyl-tert-Butyl Ether (MTBE)	< 0.40	0.40	ug/L							
Toluene	< 0.30	0.30	ug/L							
o-Xylene	< 0.30	0.30	ug/L							
m,p-Xylenes	< 0.40	0.40	ug/L							
Surrogate: 4-Bromofluorobenzene	47.2		ug/L	50		94.4	70-140			
Surrogate: Dibromofluoromethane	53.1		ug/L	50		106	70-140			
Surrogate: Toluene-d8	48.9		ug/L	50		97.7	70-140			
LCS (B7C2119-BS1)			-	Prepare	ed & Anal	yzed: 0	3/21/17			
tert-Amyl Methyl Ether (TAME)	20.9	0.30	ug/L	20		104	70-130			
Benzene	20.6	0.20	ug/L	20		103	75-125			
tert-Butyl alcohol (TBA)	112	7.0	ug/L	100		112	70-130			
Diisopropyl ether (DIPE)	17.7	0.50	ug/L	20		88.6	70-130			
Ethylbenzene	21.8	0.20	ug/L	20		109	75-125			
Ethyl-tert-Butyl Ether (ETBE)	17.4	0.40	ug/L	20		86.8	70-130			
Gasoline Range Organics (GRO)	505	40	ug/L	500		101	70-130			
Methyl-tert-Butyl Ether (MTBE)	45.4	0.40	ug/L	40		113	70-135			
Toluene	21.0	0.30	ug/L	20		105	75-125			
o-Xylene	23.4	0.30	ug/L	20		117	75-125			
m,p-Xylenes	45.6	0.40	ug/L	40		114	70-130			
Surrogate: 4-Bromofluorobenzene			ug/L	50		95.0	70-140			
Surrogate: Dibromofluoromethane			ug/L	50		99.2	70-140			
Surrogate: Toluene-d8	<b>4</b> 9.1		ug/L	50		98.2	70-140			
Diesel Range Organics by GC/FID	- Quality	Control								





Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332086

Date Received: 03/15/17

Date Reported: 03/23/17

,			,							
Analyte	Result	Reporting Limit	Units		Source Result %	REC	%REC Limits	RPD	RPD Limit	Notes
Diesel Range Organics by GC/FID Batch B7C2023 - EPA 3510C	- Quality	/ Control								
Blank (B7C2023-BLK1)				Prepare	ed & Analyze	ed: 03	3/20/17			
Diesel Range Organics as Diesel	<60	60	ug/L							
Surrogate: o-Terphenyl LCS (B7C2023-BS1)	60.0		ug/L	<i>40</i> Prepare	ed & Analyze	1 <i>50</i> ed: 03	<i>50-150</i> 3/20/17			
Diesel Range Organics as Diesel	838	60	ug/L	800		105	75-125		30	
Surrogate: o-Terphenyl LCS Dup (B7C2023-BSD1)	58.8		ug/L	40 Prepare	ed & Analyzo	147 od: 01	50-150			
Diesel Range Organics as Diesel	865	60	ug/L	800		108	75-125	3.18	30	
Surrogate: o-Terphenyl	49.5		ug/L	40		124	50-150	00		
<b>Total Metals by ICP Atomic Emiss</b>	ion Spec	troscopy -	Quality (	Control						
Batch B7C2124 - EPA 200.7										
Blank (B7C2124-BLK1)				Prepare	ed: 03/21/17	' Ana	alyzed: 03	3/22/17		
Arsenic	<0.0060	0.0060	mg/L							
LCS (B7C2124-BS1)				Prepare	ed: 03/21/17	' Ana	alyzed: 03	3/22/17		
Arsenic	1.14	0.0060	mg/L	1.0	1	114	80-120		20	
LCS Dup (B7C2124-BSD1)				Prepare	ed: 03/21/17		•			
Arsenic	1.15	0.0060	mg/L	1.0	1	115	80-120	1.14	20	
Duplicate (B7C2124-DUP1)		Source: 7C1	15020-04	Prepare		' Ana	alyzed: 03	3/22/17		
Arsenic	0.0178	0.0060	mg/L		0.0173			2.85	30	
Matrix Spike (B7C2124-MS1)		Source: 7C1		•			•	3/22/17		
Arsenic	1.05	0.0060	mg/L	1.0	< 0.0070 1		75-125		20	
Matrix Spike Dup (B7C2124-MSI		Source: 7C1		•			•			
Arsenic	1.07	0.0060	mg/L	1.0	<0.0070 1	107	75-125	2.64	20	





Client: The Source Group, Inc. (SH)

**Project No:** 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332086 Date Received: 03/15/17 Date Reported: 03/23/17

**Special Notes** 



# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311 Tel: 818-998-5547 FAX: 818-998-7258

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To the section of the					: !	† \							7300	_
Cilent: APEX/The Source Group, Inc.	se Group, Inc.	Project Name / No.:	me / No.:	DFSP - Norwalk / 091-NDLA/ Monthly NPDES	orwalk	/ 0914	SEAN	onthly	NPDES		Samoler's Name.	-		
Project Manager: Neil Irish	Ų	Site	Site Address:		orwalk i	3lvd			S	1 8	Sampler's Signature	1		Ī
Phone: 562-597-1055			<u>خ</u> 5	Norwalk		***************************************							stead Carterstra	
Fax: 569-597-1070	e de la companya de l	Sta	State & Zip:	CA 90650	0						Ouofe No.	3		
(	TAT Turnaround Codes **	44					g	ANAL	/SIS REQ	UESTED	ANALYSIS REQUESTED (Test Name)	(£	APPORTUNE OF THE CONTRACTOR OF THE PARTY OF	
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(3) == 48 Hour Rush	r Rush X ==	10 Working Days (Standard TAT)	Days (Star	dard TAT)		MS 108	38TM	2000		***************************************			Special	
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vote: By relinquishing samples to American Analytics, client agrees to ney for the s	American Analytics. client agree	es to nav for the		Prince You lested on this choic	hie chain	of cases	C atting of	d d	A.4847					·

Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.



9765 Eton Avenue Chatsworth California 91311 Tel: (818) 998-5547

Fax: (818) 998-7258

April 12, 2017 Neil Irish The Source Group, Inc. (SH) 1962 Freeman Ave. Signal Hill, CA 90755

Re: DFSP Norwalk GWETS NPDES Quarterly / 04-NDLA-013 A5332099 / 7C31001

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 03/31/17 10:03 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile

**Operations Manager** 



Client:The Source Group, Inc. (SH)AA Project No: A5332099Project No:04-NDLA-013Date Received: 03/31/17Project Name:DFSP Norwalk GWETS NPDES QuarterlyDate Reported: 04/12/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B TPHGASOLINEBTEXOXY					
Effluent	7C31001-01	Water	5	03/31/17 07:59	03/31/17 10:03
Effluent-Dup	7C31001-02	Water	5	03/31/17 08:00	03/31/17 10:03
Arsenic Total EPA 200.7					
Effluent	7C31001-01	Water	5	03/31/17 07:59	03/31/17 10:03
BOD SM5210B					
Effluent	7C31001-01	Water	5	03/31/17 07:59	03/31/17 10:03
Chlorine Residual SM 4500 CI G					
Effluent	7C31001-01	Water	5	03/31/17 07:59	03/31/17 10:03
Copper Total EPA 200.7					
Effluent	7C31001-01	Water	5	03/31/17 07:59	03/31/17 10:03
Diesel Range Organics 8015M					
Effluent	7C31001-01	Water	5	03/31/17 07:59	03/31/17 10:03
Effluent-Dup	7C31001-02	Water	5	03/31/17 08:00	03/31/17 10:03
HEM Oil and Grease 1664					
Effluent	7C31001-01	Water	5	03/31/17 07:59	03/31/17 10:03

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Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Quarterly

AA Project No: A5332099

Date Received: 03/31/17

Date Reported: 04/12/17

		,			
Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
MBAS SM5540C					
Effluent	7C31001-01	Water	5	03/31/17 07:59	03/31/17 10:03
<u>Phenols 420.1</u>					
Effluent	7C31001-01	Water	5	03/31/17 07:59	03/31/17 10:03
SS SM2540F					
Effluent	7C31001-01	Water	5	03/31/17 07:59	03/31/17 10:03
Sulfide SM4500-S=D					
Effluent	7C31001-01	Water	5	03/31/17 07:59	03/31/17 10:03
TDS SM2540C					
Effluent	7C31001-01	Water	5	03/31/17 07:59	03/31/17 10:03
TSS SM2540D					
Effluent	7C31001-01	Water	5	03/31/17 07:59	03/31/17 10:03
Turbidity 180.1					
Effluent	7C31001-01	Water	5	03/31/17 07:59	03/31/17 10:03





Client: The Source Group, Inc. (SH) AA Project No: A5332099 04-NDLA-013 Date Received: 03/31/17 Project No: **Project Name:** DFSP Norwalk GWETS NPDES Quarterly Date Reported: 04/12/17

Method:	General Chemistry	y Analyses							
AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed l	Dilution	Result	Units	MDL	MRL
BOD SM5210E	3 (SM5210B) *								
7C31001-01	Effluent	03/31/17	03/31/17	04/05/17	1	<5.0	mg/L	5	5
Chlorine Resi	dual SM 4500 CI G (	EPA 330.3)							
7C31001-01	Effluent	03/31/17	03/31/17	03/31/17	1	<0.50	mg/L	0.1	0.5
HEM Oil and C	Grease 1664 (EPA 16	<u>664)</u>							
7C31001-01	Effluent	03/31/17	03/31/17	03/31/17	1	<5.0	mg/L	5	10
MBAS SM554	OC (SM5540C) *								
7C31001-01	Effluent	03/31/17	03/31/17	03/31/17	1	<0.050	mg/L	0.05	0.05
Phenols 420.1	(EPA 420.1) *								
7C31001-01	Effluent	03/31/17	03/31/17	04/03/17	1	<0.15	mg/L	0.15	0.3
SS SM2540F (	SM2540F)								
7C31001-01	Effluent	03/31/17	03/31/17	03/31/17	1	<0.100	mL/L	0.1	0.1
Sulfide SM450	00-S=D (SM4500-S=I	<u>)</u>							
7C31001-01	Effluent	03/31/17	03/31/17	03/31/17	1	<0.027	mg/L	0.027	0.05
TDS SM2540C	(SM2540C)								
7C31001-01	Effluent	03/31/17	04/03/17	04/04/17	1	<6.2	mg/L	6.2	10
TSS SM2540D	(SM2540D)								
7C31001-01	Effluent	03/31/17	03/31/17	03/31/17	1	<5.0	mg/L	5	10
Turbidity 180.	1 (EPA 180.1)								
7C31001-01	Effluent	03/31/17	03/31/17	03/31/17	1	1.0	NTU	0.168	1



0.40

0.30

0.30

0.40

2.0

0.50

0.50

1.0



## LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Quarterly

Method: TPHG/BTEX/Oxygenates by GC/MS

AA Project No: A5332099

Date Received: 03/31/17

Date Reported: 04/12/17

Units: ug/L

**Date Sampled:** 03/31/17 03/31/17 **Date Prepared:** 04/11/17 04/11/17 **Date Analyzed:** 04/11/17 04/11/17 AA ID No: 7C31001-01 7C31001-02 **Client ID No:** Effluent Effluent-Dup Water Matrix: Water **Dilution Factor:** 1 1 MDL MRL 8260B TPHGASOLINEBTEXOXY (EPA 8260B) tert-Amyl Methyl Ether (TAME) < 0.30 0.30 2.0 < 0.30 Benzene < 0.20 < 0.20 0.20 0.50 tert-Butyl alcohol (TBA) < 7.0 < 7.0 7.0 10 Diisopropyl ether (DIPE) < 0.50 < 0.50 0.50 2.0 Ethylbenzene < 0.20 0.20 0.50 < 0.20 Ethyl-tert-Butyl Ether (ETBE) < 0.40 < 0.40 0.40 2.0 Gasoline Range Organics <40 40 100 <40 (GRO)

Surrogates			%REC Limits
4-Bromofluorobenzene	95%	100%	70-140
Dibromofluoromethane	75%	74%	70-140
Toluene-d8	118%	119%	70-140

< 0.40

< 0.30

< 0.30

< 0.40

< 0.40

< 0.30

< 0.30

< 0.40



Methyl-tert-Butyl Ether (MTBE)

Toluene

o-Xylene

m,p-Xylenes



The Source Group, Inc. (SH) Client: AA Project No: A5332099 **Project No:** 04-NDLA-013 Date Received: 03/31/17 **Project Name: DFSP Norwalk GWETS NPDES Quarterly** Date Reported: 04/12/17 Method: Diesel Range Organics by GC/FID

Units: ug/L

**Date Sampled:** 03/31/17 03/31/17 **Date Prepared:** 04/03/17 04/03/17 **Date Analyzed:** 04/03/17 04/03/17 AA ID No: 7C31001-01 7C31001-02 **Client ID No:** Effluent Effluent-Dup Water Matrix: Water

**Dilution Factor:** 1 MDL 1 MRL

Diesel Range Organics 8015M (EPA 8015M)

<60 Diesel Range Organics as <60 60 100

Diesel

**Surrogates** %REC Limits o-Terphenyl 77% 98% 50-150



Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Quarterly

AA Project No: A5332099

Date Received: 03/31/17

Date Reported: 04/12/17

Method: Total Metals by ICP Atomic Emission Spectroscopy

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed D	ilution	Result	Units	MDL	MRL
Arsenic Total I	EPA 200.7 (EPA 200.7)	<u>L</u>							
7C31001-01	Effluent	03/31/17	04/04/17	04/06/17	1	<0.0060	mg/L	0.006	0.007
Copper Total E	EPA 200.7 (EPA 200.7)	_							
7C31001-01	Effluent	03/31/17	04/04/17	04/06/17	1	<0.0020	mg/L	0.002	0.002





Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Quarterly

AA Project No: A5332099

Date Received: 03/31/17

Date Reported: 04/12/17

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
General Chemistry Analyses - Qu	ality Cont	trol								
Batch B7C3106 - NO PREP										
Blank (B7C3106-BLK1)				Prepare	ed & Analy	zed: 0	3/31/17			
Total Settleable Solids	<0.100	0.100	mL/L							
Batch B7C3107 - NO PREP										
Blank (B7C3107-BLK1)				Prepare	ed & Analy	zed: 0	3/31/17			
Chlorine Residual	<0.50	0.50	mg/L							
LCS (B7C3107-BS1)				Prepare	ed & Analy	zed: 0	3/31/17			
Chlorine Residual	0.800	0.50	mg/L	1.0		80.0	80-120			
LCS Dup (B7C3107-BSD1)				Prepare	ed & Analy	zed: 0	3/31/17			
Chlorine Residual	0.800	0.50	mg/L	1.0		80.0	80-120	0.00	20	
Duplicate (B7C3107-DUP1)	5	Source: 7C3	31001-01	Prepare	ed & Analy	zed: 0	3/31/17			
Chlorine Residual	<0.50	0.50	mg/L		<0.50				25	
Batch B7C3108 - NO PREP										
Blank (B7C3108-BLK1)				Prepare	ed & Analy	zed: 0	3/31/17			
Turbidity	<0.17	0.17	NTU							
Duplicate (B7C3108-DUP1)	5	Source: 7C3	31001-01	Prepare	ed & Analy	zed: 0	3/31/17			
Turbidity	<0.17	0.17	NTU		1.00				20	
Batch B7C3113 - NO PREP										
Blank (B7C3113-BLK1)				Prepare	ed & Analy	zed: 0	3/31/17			
HEM (Oil and Grease)	<5.0	5.0	mg/L							
LCS (B7C3113-BS1)				Prepare	ed & Analy	zed: 0	3/31/17			
HEM (Oil and Grease)	40.0	5.0	mg/L	40		100	75-125			
LCS Dup (B7C3113-BSD1)				Prepare	ed & Analy	zed: 0	3/31/17			
HEM (Oil and Grease)	31.8	5.0	mg/L	40		79.5	75-125	22.8	30	
Batch B7D0422 - NO PREP										
Blank (B7D0422-BLK1)				Prepare	ed: 04/04/1	17 Ana	alyzed: 04	4/05/17		
Total Dissolved Solids	<6.2	6.2	mg/L							
LCS (B7D0422-BS1)				Prepare	ed: 04/04/1	17 Ana	alyzed: 04	4/05/17		
Total Dissolved Solids	44.0	6.2	mg/L	50		88.0	80-120			
LCS Dup (B7D0422-BSD1)				Prepare	ed: 04/04/1	17 Ana	alyzed: 04	4/05/17		
Total Dissolved Solids	47.0	6.2	mg/L	50		94.0	80-120	6.59	25	

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Client:The Source Group, Inc. (SH)AA Project No: A5332099Project No:04-NDLA-013Date Received: 03/31/17Project Name:DFSP Norwalk GWETS NPDES QuarterlyDate Reported: 04/12/17

Analyte	F Result	Reporting Limit	Units		Source		%REC	RPD	RPD Limit	Notes
			Onits	Level	resuit	/OINEC	Lilling	INI D		140163
General Chemistry Analyses - Qu	ality Cont	roi								
Batch B7D0422 - NO PREP	_	200	0045.05	Dronoro	d. 04/04	/17 Am	olyzodi O	1/0E/17		
Duplicate (B7D0422-DUP1) Total Dissolved Solids	6400	ource: 7C3 3100		Prepare	6250		iaiyzed: 04	2.37	20	
Batch B7D0423 - NO PREP	0400	3100	mg/L		0230			2.37	20	
				Dropara	ed & Anal	lyzod: (	12/21/17			
Blank (B7D0423-BLK1) Total Suspended Solids	<5.0	5.0	mg/L	Fiepaie	u & Alla	iyzeu. (	J3/3 I/ I <i>I</i>			
LCS (B7D0423-BS1)	<3.0	3.0	mg/L	Droparo	ed & Anal	lyzod: (	12/21/17			
Total Suspended Solids	46.0	5.0	mg/L	50	u & Alla	-	80-120			
LCS Dup (B7D0423-BSD1)	40.0	5.0	IIIg/L		d & Anal					
Total Suspended Solids	46.0	5.0	mg/L	50	u & Alla		80-120	0.00	20	
Duplicate (B7D0423-DUP1)		ource: 7C2	•		ad & Anal			0.00	20	
Total Suspended Solids	<5.0	5.0	mg/L	Пераге	5.20	•	33/31/11		20	
Batch B7D0425 - NO PREP	70.0	0.0	mg/L		0.20				20	
Blank (B7D0425-BLK1)				Prenare	ad & Anal	lyzad: (	03/31/17			
Sulfide	<0.027	0.027	mg/L	Пераге	a a Anai	iyzeu. (	33/31/11			
LCS (B7D0425-BS1)	VO.021	0.021	mg/L	Prenare	d & Anal	lvzed: (	03/31/17			
Sulfide	0.486	0.027	mg/L	0.50	7 G G 7 (11G)		80-120		25	
LCS Dup (B7D0425-BSD1)	01100	0.02.	mg/L		d & Anal		03/31/17		20	
Sulfide	0.508	0.027	mg/L	0.50	7 G 7 (11G)	-	80-120	4.43	25	
Duplicate (B7D0425-DUP1)		ource: 7C3	_		ed & Anal				_0	
Sulfide	<0.027	0.027	mg/L		<0.050	-			25	
Matrix Spike (B7D0425-MS1)	S	ource: 7C2	•	Prepare	ed & Anal	lyzed: (	03/31/17			
Sulfide	0.541	0.027	mg/L	0.50		108	75-125		25	
Matrix Spike Dup (B7D0425-MS	D1) S	ource: 7C2	•	Prepare	d & Anal	lyzed: (	03/31/17			
Sulfide	0.529	0.027	mg/L	0.50		106	75-125	2.24	25	
Batch B7D1028 - *** DEFAULT PR	REP ***		Ü							
Blank (B7D1028-BLK1)				Prepare	ed: 03/31	/17 An	alyzed: 04	4/05/17		*
Biochemical Oxygen Demand	<5.0	5.0	mg/L	· · · · · · · · · · · · · · · · · · ·						
LCS (B7D1028-BS1)			J	Prepare	ed: 03/31	/17 An	alyzed: 04	4/05/17		*
Biochemical Oxygen Demand	162	5.0	mg/L	200		81.2	80-120		20	
Batch B7D1029 - NO PREP			_							

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Client:The Source Group, Inc. (SH)AA Project No: A5332099Project No:04-NDLA-013Date Received: 03/31/17Project Name:DFSP Norwalk GWETS NPDES QuarterlyDate Reported: 04/12/17

Analyte	Result	Reporting Limit	Units		Source Result		%REC Limits	RPD	RPD Limit	Notes
General Chemistry Analyses - Qua	ality Cor	ntrol								
Batch B7D1029 - NO PREP										
Blank (B7D1029-BLK1)				Prepare	ed & Anal	lyzed: 0	3/31/17			*
Methylene Blue Active Substances	<0.050	0.050	mg/L							
LCS (B7D1029-BS1)				Prepare	ed & Anal	lyzed: 0	3/31/17			*
Methylene Blue Active Substances	0.428	0.050	mg/L	0.50		85.5	75-125		15	
LCS Dup (B7D1029-BSD1)				Prepare	ed & Anal	lyzed: 0	3/31/17			*
Methylene Blue Active Substances	0.435	0.050	mg/L	0.50		87.0	75-125	1.74	15	
Matrix Spike (B7D1029-MS1)		Source: 7C3	31001-01	Prepare	ed & Anal	lyzed: 0	3/31/17			*
Methylene Blue Active Substances	0.428	0.050	mg/L	0.50	<0.050	85.5	75-125		15	
Matrix Spike Dup (B7D1029-MSD	)1)	Source: 7C3	31001-01	Prepare	ed & Anal	lyzed: 0	3/31/17			*
Methylene Blue Active Substances	0.422	0.050	mg/L	0.50	<0.050	84.5	75-125	1.18	15	
Batch B7D1030 - NO PREP										
Blank (B7D1030-BLK1)				Prepare	ed: 03/31	/17 Ana	alyzed: 04	4/03/17		*
Phenolics	<0.15	0.15	mg/L							
LCS (B7D1030-BS1)				Prepare	ed: 03/31	/17 Ana	alyzed: 04	4/03/17		*
Phenolics	0.437	0.15	mg/L	0.50		87.4	80-120		15	
LCS Dup (B7D1030-BSD1)				Prepare	ed: 03/31	/17 Ana	alyzed: 04	4/03/17		*
Phenolics	0.449	0.15	mg/L	0.50		89.8	80-120	2.71	15	
Matrix Spike (B7D1030-MS1)		Source: 7C3	31001-01	Prepare	ed: 03/31	/17 Ana	alyzed: 04	4/03/17		*
Phenolics	0.458	0.15	mg/L	0.50	<0.30	91.6	80-120		15	
Matrix Spike Dup (B7D1030-MSD	)1)	Source: 7C3	31001-01	Prepare	ed: 03/31	/17 Ana	alyzed: 04	4/03/17		*
Phenolics	0.453	0.15	mg/L	0.50	<0.30	90.6	80-120	1.10	15	
TPHG/BTEX/Oxygenates by GC/M	S - Qual	ity Control								
Batch B7D1223 - EPA 5030B										
Blank (B7D1223-BLK1)				Prepare	ed & Anal	lyzed: 0	4/11/17			
tert-Amyl Methyl Ether (TAME)	<0.30	0.30	ug/L							
Benzene	<0.20		ug/L							
tert-Butyl alcohol (TBA)	<7.0		ug/L							
Diisopropyl ether (DIPE)	<0.50		ug/L							
Ethylbenzene	<0.20		ug/L							
Ethyl-tert-Butyl Ether (ETBE)	<0.40	0.40	ug/L							

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Client:The Source Group, Inc. (SH)AA Project No: A5332099Project No:04-NDLA-013Date Received: 03/31/17Project Name:DFSP Norwalk GWETS NPDES QuarterlyDate Reported: 04/12/17

Units		Source Result %	%REC	%REC Limits	RPD	RPD Limit	Notes
	Prepare	ed & Analyz	zed: 04	4/11/17			
ug/L	-1						
ug/L							
ug/L							
ug/L							
ug/L							
ug/L	50		108	70-140			
ug/L	50		114	70-140			
ug/L	50		102	70-140			
J	Prepare	ed & Analyz	zed: 04	4/11/17			
ug/L	20	,	110	70-130			
ug/L	20		113	75-125			
ug/L	100		87.4	70-130			
ug/L	20		111	70-130			
ug/L	20		114	75-125			
ug/L	20		109	70-130			
ug/L	500		117	70-130			
ug/L	40		108	70-135			
ug/L	20		109	75-125			
ug/L	20		116	75-125			
ug/L	40		117	70-130			
ug/L	50		105	70-140			
ug/L	50		104	70-140			
ug/L	50		98.4	70-140			
	Prepare	ed & Analyz	zed: 04	4/03/17			
ug/L	-1	<b>y</b> -					
ug/L	40		103	50-150			
- g, <u>-</u>		ed & Analva					
ug/L	800	y-	104	75-125		30	
	ug/L	Prepare	Prepared & Analy	Prepared & Analyzed: 04	Prepared & Analyzed: 04/03/17	Prepared & Analyzed: 04/03/17	Prepared & Analyzed: 04/03/17

A



Client:The Source Group, Inc. (SH)AA Project No: A5332099Project No:04-NDLA-013Date Received: 03/31/17Project Name:DFSP Norwalk GWETS NPDES QuarterlyDate Reported: 04/12/17

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result %F	REC	%REC Limits	RPD	RPD Limit	Notes
Diesel Range Organics by GC/FID	- Quality	Control								
Batch B7D0319 - EPA 3510C										
LCS (B7D0319-BS1) Continued				Prepare	ed & Analyze	ed: 04	4/03/17			
Surrogate: o-Terphenyl	52.0		ug/L	40	1	130	50-150			
LCS Dup (B7D0319-BSD1)			•	Prepare	ed & Analyze	ed: 04	4/03/17			
Diesel Range Organics as Diesel	811	60	ug/L	800	1	01	75-125	2.57	30	
Surrogate: o-Terphenyl	48.4		ug/L	40	1	121	50-150			
Total Metals by ICP Atomic Emiss	ion Spec	troscopy -	Quality (	Control						
Batch B7D0421 - EPA 200.7										
Blank (B7D0421-BLK1)				Prepare	ed: 04/04/17	Ana	ılyzed: 04	4/06/17		
Copper	<0.0020	0.0020	mg/L							
Arsenic	<0.0060	0.0060	mg/L							
LCS (B7D0421-BS1)				Prepare	ed: 04/04/17	Ana	ılyzed: 04	4/06/17		
Arsenic	1.05	0.0060	mg/L	1.0	1	05	80-120		20	
Copper	0.974	0.0020	mg/L	1.0	9	7.4	80-120		20	
LCS Dup (B7D0421-BSD1)				Prepare	ed: 04/04/17	Ana	ılyzed: 04	4/06/17		
Arsenic	1.06	0.0060	mg/L	1.0	1	06	80-120	1.32	20	
Copper	0.984	0.0020	mg/L	1.0	98	8.4	80-120	1.04	20	
Matrix Spike (B7D0421-MS1)	S	Source: 7C3	31001-01	Prepare	ed: 04/04/17	Ana	ılyzed: 04	4/06/17		
Arsenic	1.04	0.0060	mg/L	1.0	<0.0070 1	04	75-125		20	
Copper	1.13	0.0020	mg/L	1.0	<0.0020 1	13	75-125		20	
Matrix Spike Dup (B7D0421-MSD	)1) S	Source: 7C3	31001- <mark>0</mark> 1	Prepare	ed: 04/04/17	Ana	ılyzed: 04	4/06/17		
Arsenic	1.02	0.0060	mg/L	1.0	<0.0070 1	02	75-125	1.95	20	
Copper	1.14	0.0020	mg/L	1.0	<0.0020 1	14	75-125	0.881	20	





Client: The Source Group, Inc. (SH)

**Project No:** 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Quarterly

AA Project No: A5332099 Date Received: 03/31/17

Date Reported: 04/12/17

**Special Notes** 

[1] = \* : Subcontracted to a DOHS State-Certified Laboratory





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### Ordered By

American Analytics 9765 Eton Avenue Chatsworth, CA 91311-4306

Telephone: (818)998-5547 Attention: Viorel Vasile Number of Pages 7

Date Received 03/31/2017
Date Reported 04/06/2017

Job Number	Order Date	Client
87149	03/31/2017	AA

**Project ID:** A5337099/7C31001

Project Name: PO# 30032

Enclosed please find results of analyses of 1 water sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ C. Raymana

Cyrus Razmara, Ph.D. Laboratory Director

KETL

AMERICAN

# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

6416

A.A. COC No.:

													 		-	 	 	 //				
40	à	30032	·	6		Special / Instructions		67 SMS2108	SM SC40C	420,1		Normal TRE	Though 400	5				Received by	J.J.	Received by	Received by	
Sampler's Name:	Sampler's Signature:	P.O. No.:	Quote No.:	ANALYSIS REQUESTED (Test Name)			4) ~ (本)											Time	1076)	Time	Time	reserve
0				ANALYSIS REQU	100	, na	the TAT Turnar											Date	1/19/00	/ Date	Date	
1/7 63100					2	10 18	Please enter	X X										d by)	)	dby	d by	
A5337099							Sample No.											Relinquished by	3	Relinquished by	Relinquished by	
Project Name / No.:	Address:	City:	State & Zip:		ush h	g Days (Standard TAT)	Time	orsa											1			
Project N	Site		S	Ť	72 Hour Rush 5 Day Rush	10 Working	Date	3/31/17			de la colonia de											
ANALKING	Voslle			TAT Turnaround Codes **	hs <b>4</b>	**************************************	A.A. I.D.	1149,01										For Laboratory Use				
Client: AMERICAN	Project Manager: Vace			1	$\frac{1}{2} = \text{Same Day Rush}$ $24 \text{ Hour Rush}$	(3) = 48 Hour Rush	Client I.D.	C31001-01 8									те учен де дей дей дей на негорина на принен де пред реактереника пред повет пред повет пред повет пред повет п	For Lab				A A Draiget No .
Client:	Project	Phone	<b>Fax:</b>					) £														A A Dro

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.



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COOLER RECEIPT FORM

Emiliary 1990 1991 1991 1991 1991 1991 1991 199	নুতি সংক্রচ			BEAUTINE DEBATE CONTE						
Client Name: American Araly.										
Project Name:		5	8							
AETL Job Number: 87/49	=	10.								
	ived b	y: H.t.	v							
Carrier:   AETL Courier  Client	$\Box$ GS		Ex UPS	3						
Others:										
LIOMEIS.										
Samples were received in D Cocler ( )	Other	Z(Snecify):	_ 8							
Samples were received in:  ☐ Cooler ( / ) ☐ Other (Specify):  Inside temperature of shipping container No 1: 3 · 4′, No 2:, No 3:										
Type of sample containers: $\Box$ VOA, $\Box$ Glass both	ttles. $\square$			ottles.						
☐ Metal sleeves, ☐ Others (Specify):	U9 EU		,	,						
How are samples preserved: $\square$ None, $\square$ Ice, $\square$	<b>S</b> Blue	Ice. Dry Ice	)							
None, _ HNO <sub>3</sub> , _ N	JaOH.	ZnOAc. H	Cl, Na <sub>2</sub> S <sub>2</sub> O <sub>2</sub>	MeOH						
Other (Specify): $\mathcal{H}_2$ S			,,	,						
_ Cutter (opecity). 772	7		8							
-	Yes	No, explain below	Name, if clien	nt was notified.						
1. Are the COCs Correct?	>0	The state of the s	The second secon							
2. Are the Sample labels legible?	~									
3. Do samples match the COC?	~									
4. Are the required analyses clear?	~									
5. Is there enough samples for required analysis?	70									
6. Are samples sealed with evidence tape?		$\sim$								
7. Are sample containers in good condition?	1			-						
8. Are samples preserved?	$\sim$									
9. Are samples preserved properly for the	>									
intended analysis?										
10. Are the VOAs free of headspace?	MIG									
11. Are the jars free of headspace?	1									
and the second s	. 2		e	2 1 1 6 30 1						
Explain all "No" answers for above questions:										
	н									



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Page: 1 A Ordered By

American Analytics 9765 Eton Avenue

Chatsworth, CA 91311-4306

Telephone: (818)998-5547 Attention: Viorel Vasile

Proje	ect ID:	A533	7099/7C31001	
Date	Receive	be	03/31/2017	
Date	Reporte	be	04/06/2017	

Job Number	Order Date	Client
87149	03/31/2017	AA

# CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 1 samples with the following specification on 03/31/2017.

La	b ID	Sample ID	Sample Dat	e Mat	rix		Quantity Of	Containers
8714	9.01	7C31001-01	03/31/2017	Aqu	eous		2	
	Method	^ Submethod	Re	q Date	Priority	TAT	Units	
	420.1		04	/07/2017	2	Normal	mg/L	
	SM-5540	)C	04	/07/2017	2	Normal	mg/L	
	SM5210	В	04	/07/2017	2	Normal	mg/L	

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: C. Raymana

Approved By:

Cyrus Razmara, Ph.D. Laboratory Director



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### **ANALYTICAL RESULTS**

### Ordered By

American Analytics 9765 Eton Avenue Chatsworth, CA 91311-4306

Telephone: (818)998-5547 Attn: Viorel Vasile Page: **2** 

Project ID: A5337099/7C31001

Project Name: PO# 30032

AETL Job Number Submitted Client 87149 03/31/2017 AA

# Method: 420.1, Phenolics, Total Recoverable, Spectrophotometric, Manual QC Batch No: PH040317-1

Our Lab I.D.			Method Blank	87149.01		
Client Sample I.D.				7C31001-01		
Date Sampled				03/31/2017		
Date Prepared			04/03/2017	04/03/2017		
Preparation Method			420.1	420.1		
Date Analyzed			04/03/2017	04/03/2017		
Matrix			Aqueous	Aqueous		
Units			mg/L	mg/L		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Phenolic compounds as phenol	0.15	0.30	ND	ND		



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### **ANALYTICAL RESULTS**

### Ordered By

American Analytics 9765 Eton Avenue Chatsworth, CA 91311-4306

Telephone: (818)998-5547 Attn: Viorel Vasile Page: **3** 

Project ID: A5337099/7C31001

Project Name: PO# 30032 87149 03/31/2017

Method: SM-5540C, Methylene Blue Active Substances (MBAS)

AETL Job Number

Submitted

Client

AA

QC Batch No: MB033117-1

Our Lab I.D.			Method Blank	87149.01		
Client Sample I.D.				7C31001-01		
Date Sampled				03/31/2017		
Date Prepared			03/31/2017	03/31/2017		
Preparation Method			SM5540C	SM5540C		
Date Analyzed			03/31/2017	03/31/2017		
Matrix			Aqueous	Aqueous		
Units			mg/L	mg/L		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Surfactants (MBAS)	0.05	0.05	ND	ND		



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### **ANALYTICAL RESULTS**

### Ordered By

American Analytics 9765 Eton Avenue Chatsworth, CA 91311-4306

Telephone: (818)998-5547 Attn: Viorel Vasile Page: **4** 

Project ID: A5337099/7C31001

Project Name: PO# 30032 87149 03/31/2017 AA

AETL Job Number

Submitted

Client

Method: SM5210B, Biochemical Oxygen Demand 5 days, @ 20C (Standard Methods)

QC Batch No: B0033117-1

Our Lab I.D.			Method Blank	87149.01		
Client Sample I.D.				7C31001-01		
Date Sampled			03/31/2017			
Date Prepared	ate Prepared		03/31/2017	03/31/2017		
Preparation Method			SM5210B	SM5210B		
Date Analyzed			04/05/2017	04/05/2017		
Matrix			Aqueous	Aqueous		
Units			mg/L	mg/L		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Biochemical Oxygen Demand (BOD)	5.0	5.0	ND	ND		



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## **QUALITY CONTROL RESULTS**

### Ordered By

American Analytics 9765 Eton Avenue Chatsworth, CA 91311-4306

Telephone: (818)998-5547 Attn: Viorel Vasile Page: **5** 

Project ID: **A5337099/7C31001** 

Project Name: PO# 30032

AETL Job Number Submitted Client
87149 03/31/2017 AA

Method: 420.1, Phenolics, Total Recoverable, Spectrophotometric, Manual

QC Batch No: PH040317-1; Dup or Spiked Sample: 87149.01; LCS: Clean Water; QC Prepared: 04/03/2017; QC Analyzed: 04/03/2017; Units: mg/L

	MS	MS	MS	MS DUP	MS DUP	MS DUP	RPD	MS/MSD	MS RPD	
Analytes	Concen	Recov	% REC	Concen	Recov	% REC	%	% Limit	% Limit	
Phenol	0.500	0.458	91.6	0.500	0.453	90.6	1.1	80-120	<15	

QC Batch No: PH040317-1; Dup or Spiked Sample: 87149.01; LCS: Clean Water; QC Prepared: 04/03/2017; QC Analyzed: 04/03/2017; Units: mg/L

	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
Analytes	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Phenol	0.500	0.467	93.4	0.500	0.449	89.8	3.9	80-120	<20	



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### **QUALITY CONTROL RESULTS**

### Ordered By

American Analytics 9765 Eton Avenue Chatsworth, CA 91311-4306

Telephone: (818)998-5547 Attn: Viorel Vasile Page: **6** 

Project ID: **A5337099/7C31001** 

Project Name: PO# 30032

AETL Job Number Submitted Client
87149 03/31/2017 AA

Method: SM-5540C, Methylene Blue Active Substances (MBAS)

QC Batch No: MB033117-1; Dup or Spiked Sample: 87149.01; LCS: Clean Water; QC Prepared: 03/31/2017; QC Analyzed: 03/31/2017; Units: mg/L

	Sample	MS	MS	MS	MS DUP	MS DUP	MS DUP	RPD	MS/MSD	MS RPD
Analytes	Result	Concen	Recov	% REC	Concen	Recov	% REC	%	% Limit	% Limit
Surfactants (MBAS)	0.00	0.200	0.175	87.6	0.200	0.169	84.4	3.7	80-120	<15

QC Batch No: MB033117-1; Dup or Spiked Sample: 87149.01; LCS: Clean Water; QC Prepared: 03/31/2017; QC Analyzed: 03/31/2017; Units: mg/L

	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
Analytes	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Surfactants (MBAS)	0.200	0.171	85.6	0.200	0.174	87.2	1.9	80-120	<15	



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### **QUALITY CONTROL RESULTS**

### Ordered By

American Analytics 9765 Eton Avenue Chatsworth, CA 91311-4306

Telephone: (818)998-5547 Attn: Viorel Vasile Page: **7** 

Project ID: **A5337099/7C31001** 

Project Name: PO# 30032

AETL Job Number Submitted Client
87149 03/31/2017 AA

Method: SM5210B, Biochemical Oxygen Demand 5 days, @ 20C (Standard Methods)

QC Batch No: BO033117-1; Dup or Spiked Sample: 87149.01; LCS: Clean Water; LCS Prepared: 03/31/2017; LCS Analyzed: 04/05/2017; Units: mg/L

	SM	SM DUP	RPD	SM RPD			
Analytes	Result	Result	%	% Limit			
Biochemical Oxygen Demand (BOD)	ND	ND	<1	<15			

QC Batch No: BO033117-1; Dup or Spiked Sample: 87149.01; LCS: Clean Water; LCS Prepared: 03/31/2017; LCS Analyzed: 04/05/2017; Units: mg/L

	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
Analytes	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Biochemical Oxygen Demand (BOD)	198	162	81.8	198	164	82.8	1.2	80-120	<15	



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# Data Qualifiers and Descriptors

## Data Qualifier:

#: Recovery is not within acceptable control limits.

\*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has

been applied.

B: Analyte was present in the Method Blank.

D: Result is from a diluted analysis.

E: Result is beyond calibration limits and is estimated.

H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory

control.

J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method

Detection Limit (MDL) and the Practical Quantitation Limit (PQL).

M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery

was acceptable.

MCL: Maximum Contaminant Level

NS: No Standard Available

S6: Surrogate recovery is outside control limits due to matrix interference.

S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the

method acceptance criteria.

X: Results represent LCS and LCSD data.

### Definition:

%Limi: Percent acceptable limits.

%REC: Percent recovery.

Con.L: Acceptable Control Limits

Conce: Added concentration to the sample.

LCS: Laboratory Control Sample

MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method,

and each compound. It indicates a distinctively detectable quantity with 99% probability.



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# Data Qualifiers and Descriptors

MS: Matrix Spike

MS DU: Matrix Spike Duplicate

ND: Analyte was not detected in the sample at or above MDL.

PQL: Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can

be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical

instrumentation and practice.

Recovered concentration in the sample.

RPD: Relative Percent Difference

# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

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MALYTICS		Tel: 81	Tel: 818-998-5547	7 FAX: 818-998-7258	3-998-7	258								g.	Page of
client: The Source Group, Inc.	up, Inc.	Project N	ame / No.:	Project Name / No.: DFSP - Norwalk / 04-SDLA / Quarterly NPDES	rwalk /	04-SDI	A/QL	arterly	NPDE		npler's	Sampler's Name:			
Project Manager: Neil Irish	ų	Site	Site Address:	15306 Norwalk Blvd	rwalk B	þvl				Sampler's Signature:	r's Sig	nature			
Phone: 562-597-1055			Clty:	Norwalk							۵	P.O. No.:	• •		
Fax: 569-597-1070		S	State & Zip:	CA 90650							ð	Quote No.:		,	
	TAT Turnaround Codes **							ANAL	ANALYSIS REQUESTED (Test Name)	QUESTI	ED (Tes	t Name)			
Ħ	Same Day Rush (4) =	= 72 Hour Rush	sh					IţÀ	<u> </u>	-	_				
(2) = 24 Hour Rush	ir Rush 5 =	5 Day Rush	_				72	bidırı	36		_		_	_	
(3) = 48 Hour Rush	ır Rush X ≕		Days (Sta	10 Working Days (Standard TAT)		48708 ⊒8700	10 Zee	r-est	op oz		C Sids	ort (.26	er Jene B	SUCGE	Special Instructions
Client I.D.		Date	Time	Sample	No.		82605	,eat	BODS	Ø II Ø		PiseA	Coppe	eane	
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A5337099 7631001	3100			Relin	Relinquished by	i by		ن	Date		Тіте			Recei	Received by
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Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.



9765 Eton Avenue Chatsworth California 91311 Tel: (818) 998-5547

Fax: (818) 998-7258

February 02, 2017

Neil Irish The Source Group, Inc. (SH) 1962 Freeman Ave. Signal Hill, CA 90755

Re: DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013

A5332044 / 7A23009

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 01/23/17 16:20 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile

**Operations Manager** 



Client:The Source Group, Inc. (SH)AA Project No: A5332044Project No:04-NDLA-013Date Received: 01/23/17Project Name:DFSP Norwalk GWETS NPDES MonthlyDate Reported: 02/02/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
Arsenic Total EPA 200.7					
Effluent	7A23009-01	Water	5	01/23/17 09:40	01/23/17 16:20





Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Date Received: 01/23/17

Project Name: DFSP Norwalk GWETS NPDES Monthly Date Reported: 02/02/17

**Method:** Total Metals by ICP Atomic Emission Spectroscopy

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed Dil	ution	Result	Units	MDL	MRL
Arsenic Total I	EPA 200.7 (EPA 200.7)	_							
7A23009-01	Effluent	01/23/17	01/30/17	02/01/17	1	<0.0060	mg/L	0.006	0.007





Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332044

Date Received: 01/23/17

Date Reported: 02/02/17

Analyte	Result	Reporting Limit	Units		Source Result %REC	%REC Limits	RPD	RPD Limit	Notes
Total Metals by ICP Atomic Emiss	ion Spec	troscopy -	Quality (	Control					
Batch B7A3027 - EPA 200.7									
Blank (B7A3027-BLK1)				Prepare	ed: 01/30/17 Ana	alyzed: 02	2/01/17		
Arsenic	<0.0060	0.0060	mg/L						
LCS (B7A3027-BS1)				Prepare	ed: 01/30/17 Ana	alyzed: 02	2/01/17		
Arsenic	1.08	0.0060	mg/L	1.0	108	80-120		20	
LCS Dup (B7A3027-BSD1)				Prepare	ed: 01/30/17 Ana	alyzed: 02	2/01/17		
Arsenic	1.05	0.0060	mg/L	1.0	105	80-120	2.63	20	





Client: The Source Group, Inc. (SH)

**Project No:** 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332044 Date Received: 01/23/17 Date Reported: 02/02/17

**Special Notes** 



AMERICAN MANAZYTICS

# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

£ 3592

The Source Group, Inc./APEX	up, Inc./APEX	Project Name / No.:	ne / No.:	DFSP - No	rwalk / (	91-NDLA/ N	DFSP - Norwalk / 091-NDLA/ Monthly NPDES	Sampler's Name.		Glown Androska
	l i	Site	Site Address:	15306 Norwalk Blvd	walk Bl	þ/	Ö	Sampler's Signature:	1	Allen On leadle
Phone: 562-597-1055	· · · · · · · · · · · · · · · · · · ·		Ċ C	Norwalk				<u>о</u> .	P.O. Mo.:	•
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(3) = 48 Hou	48 Hour Rush	10 Working Days (Standard IAT)	Jays (Star	idaird IAT)		Charles World	os oir			mstructions
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Note: By relinquishing samples to American Analytics, oftent agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.



9765 Eton Avenue Chatsworth California 91311 Tel: (818) 998-5547

Fax: (818) 998-7258

February 13, 2017
Neil Irish
The Source Group, Inc. (SH)
1962 Freeman Ave.

1962 Freeman Ave. Signal Hill, CA 90755

Re: DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013 A5332050 / 7B01010

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 02/01/17 14:02 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile

**Operations Manager** 



Client:The Source Group, Inc. (SH)AA Project No: A5332050Project No:04-NDLA-013Date Received: 02/01/17Project Name:DFSP Norwalk GWETS NPDES MonthlyDate Reported: 02/13/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
Arsenic Total EPA 200.7					
Effluent	7B01010-05	Water	5	02/01/17 08:34	02/01/17 14:02





Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332050

Date Received: 02/01/17

Date Reported: 02/13/17

**Method:** Total Metals by ICP Atomic Emission Spectroscopy

wethou.	Total Metals by 101 7	MOITIIC EITIIS	Sion opecii	озсору					
AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed D	ilution	Result	Units	MDL	MRL
Arsenic Total	EPA 200.7 (EPA 200.7)	<u>)                                    </u>							
7B01010-05	Effluent	02/01/17	02/07/17	02/08/17	1	<0.0060	mg/L	0.006	0.007





Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332050

Date Received: 02/01/17

Date Reported: 02/13/17

		Reporting		•	Source	0/DE0	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Total Metals by ICP Atomic Emissic	on Spec	troscopy -	Quality (	Control						
Batch B7B0711 - EPA 200.7										
Blank (B7B0711-BLK1)				Prepare	ed: 02/07/	/17 Ana	alyzed: 02	2/08/17		
Arsenic <	0.0060	0.0060	mg/L							
LCS (B7B0711-BS1)				Prepare	ed: 02/07	/17 Ana	alyzed: 02	2/08/17		
Arsenic	1.02	0.0060	mg/L	1.0		102	80-120		20	
LCS Dup (B7B0711-BSD1)				Prepare	ed: 02/07	/17 Ana	alyzed: 02	2/08/17		
Arsenic	1.02	0.0060	mg/L	1.0		102	80-120	0.587	20	
Duplicate (B7B0711-DUP1)	S	Source: 7B0	1010-01	Prepare	ed: 02/07	/17 Ana	alyzed: 02	2/08/17		
Arsenic	0.0765	0.0060	mg/L		0.0679			11.9	30	
Matrix Spike (B7B0711-MS1)	S	Source: 7B0	1010-05	Prepare	ed: 02/07	/17 Ana	alyzed: 02	2/08/17		
Arsenic	0.971	0.0060	mg/L	1.0	<0.0070	97.1	75-125		20	
Matrix Spike Dup (B7B0711-MSD1	1) S	Source: 7B0	1010-05	Prepare	ed: 02/07	/17 Ana	alyzed: 02	2/08/17		
Arsenic	1.04	0.0060	mg/L	1.0	<0.0070	104	75-125	7.16	20	





Client: The Source Group, Inc. (SH)

**Project No:** 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332050 Date Received: 02/01/17 Date Reported: 02/13/17

**Special Notes** 



# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

126593

ANALYTICS		Tel: 81	Tel: 818-998-5547	7 FAX: 818-998-7258	3-998-7	258				Page of	
Client: APEX/The Source Group, Inc.	ce Group, Inc.	Project N	Project Name / No.:	DFSP - Norwalk / 04-SDLA	nwalk /	04-SDLA		Sampler's Name:	_	Slenn Androstes	
Project Manager: Neil Irish	sh sh	Site	Address:	15306 Norwalk Blvd	rwalk B	þvl	Sar	Sampler's Signature:	י ו	a andereday	
Phone: 562-597-1055		-	Ċ	Norwalk				P.0	P.O. No.:		
Fax: 569-597-1070		Š	State & Zip:	CA 90650				Quot	Quote No.:		
	TAT Turnaround Codes **	<b>‡</b>					ANALYSIS REQUESTED (Test Name)	ESTED (Test I	Vame)		i
(1) = Same	Same Day Rush 4 =	= 72 Hour Rush	sh								
(2) ≈ 24 Hot	24 Hour Rush 5 =	5 Day Rush	-					_	_	_	
3 = 48 Hou	48 Hour Rush X =			Days (Standard TAT)		° 200.		_	_	Special	
Client I.D.	27	Date	<b>T</b>	Sample Matrix	No.	Arsen	Aramin T.T.T.				
GW-2	7BN1010-01	9-1-17	0925	Water	_ Cont			sanoo nun			
GW-13	2		0432	Water	+						<del></del>
GW-15	~		2050	Water	1		SAMPLE INT	EGRITY	ं ०.		1
GW-16	.5		2160	Water	-		INTACT (Y)	N TEMP	J.		т
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ASI	A5332050/7B61016	P		Relin	Relinquished by	l by	Date	Time		Received by	·
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Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.

THE STATE OF STATE OF



9765 Eton Avenue Chatsworth California 91311 Tel: (818) 998-5547

Fax: (818) 998-7258

February 15, 2017

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

Re: DFSP Norwalk GWETS NPDES Annually / 04-NDLA-013

A5332056 / 7B07011

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 02/07/17 14:55 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile

Operations Manager

### LABORATORY REPORT

Date:

February 13, 2017

Client:

American Analytics 9765 Eton Avenue Chatsworth, CA 91311

Attn: Viorel Vasile

Aquatic Testing Laboratories

"dedicated to providing quality aquatic toxicity testing"

4350 Transport Street, Unit 107 Ventura, CA 93003 (805) 650- 0546 FAX (805) 650-0756

CA ELAP Cert. No.: 1775

**Laboratory No.:** 

A-17020803-001

Project No.:

A5332056

Sample ID.:

7B07011-01

**Sample Control:** 

The sample was received by ATL chilled and with the chain of custody record

attached. Sample received directly from the field in a cooler with ice.

Date Sampled:

02/07/17

Date Received:

02/08/17 5.8°C

Temp. Received:

3.8

Chlorine (TRC):

0.0 mg/l

Date Tested:

02/08/17 to 02/12/17

Sample Analysis:

The following analyses were performed on your sample:

Fathead Minnow 96hr Percent Survival Bioassay (EPA-821-R-02-012 Method 2000.0);

Attached are the test data generated from the analysis of your sample. All testing was conducted under the direct supervision of Joseph A. LeMay. Daily test readings were

taken by Joseph A. LeMay (initials: JAL) and Jacob LeMay (initials: J).

**Result Summary:** 

Sample ID.

Results

7B07011-01

100% Survival (TUa = 0.0)

**Quality Control:** 

Reviewed and approved by:

Joseph A. LeMay

Laboratory Director

### FATHEAD MINNOW PERCENT SURVIVAL TEST EPA Method 2000.0



Lab No.: A-17020803-001

Client/ID: American Analytics 7B07011-01

Start Date: 02/08/2017

### **TEST SUMMARY**

Species: *Pimephales promelas*. Age: (1-14) days.

Regulations: NPDES.

Test solution volume: 250 ml. Feeding: prior to renewal at 48 hrs.

Number of replicates: 4.

Control water: Moderately hard reconstituted water.

Photoperiod: 16/8 hrs light/dark.

Source: In-laboratory Culture. Test type: Static-Renewal.

Test Protocol: EPA-821-R-02-012. Endpoints: Percent Survival at 96 hrs.

Test chamber: 600 ml beakers. Temperature: 20 +/- 1°C. Number of fish per chamber: 10.

QA/QC No.: RT-170202.

### **TEST DATA**

		90	DO			# D	ead		Analyst & Time
		°C	DO	рН	Α	В	C	D	of Readings
INITIAL	Control	Zo. 7	8.7	8.1	0	0	0	0	2 1400
INITIAL	100%	ta b	8.6	7.6	0	0	0	0	2-8-17
24 11.	Control	20.5	8.6	8:0	0	0	0	0	2 1400
24 Hr	100%	20.6	8.5	7.6	0	0	0	0	2.9.17
40.11	Control	Zo. Y	8.5	8.0	0	0	0	0	2 14w
48 Hr	100%	ك، 3	8. 4	7.5	0	O	0	0	2-10-17
D !	Control	24.7	8.6	8.0	0	S	0	0	2 1400
Renewal	100%	Zo. 4	8.7	7. 7	v	0	0	U	2-10-17
72.11	Control	го. 3	8.6	8.0	0	0	0	0	2 1400
72 Hr	100%	50.2	8.1	7.8	0	ပ	0	0	2-11-17
06 11	Control	20. 2	8.6	7.9	0	O	0	0	2 1400
96 Hr	100%	20.7	8.4	7.5	U	0	0	0	2-12-17

-							
$\mathbf{C}$	^	22	m	4	n	١.	٠
	L)I	11	111		ш		

Sample as received: Chlorine: mg/l; Temp: 5.8 °C; DO: 5.5 mg/l; pH: 7.4;

Alkalinity: 4) 4 mg/l; Hardness: 83 9 mg/l; Conductivity: 183 umho; NH<sub>3</sub>-N: 0.3 mg/l.

Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? 268 / No.

Control: Alkalinity: 60 mg/l; Hardness: 9/ mg/l.; Conductivity: 279 umho.
Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / 60.

Original sample (-001) sample used for renewal kept at 0-6°C with minimal headspace.

Dissolved Oxygen (DO) readings in mg/l O<sub>2</sub>.

### **RESULTS**

Percent Survival In: Control: % 100% Sample	e: <u>/ w</u> %
---	-----------------

Agochic Testuplats
MERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311 FAX: 818-998-7258 Tel: 818-998-5547

A.A. COC No.:

70047888 Page 1 of

Client: AMEDICAN	RNALKARCS	Project Name / No.:		A5333	A5332056/1B07011	11070	Sampler's Name:	ame:	
Project Manager: 1/076	16-216	Site Ac	Site Address:		•		Sampler's Signature:	ıture:	
Phone:			city:				P.0	P.O. No.: 3	30023
Fax:		State	State & Zip:		•		Quote No.:	• No.:	
	TAT Turnaround Codes **	*			8		ANALYSIS REQUESTED (Test Name)	dame)	
(1) = Same Day Rush		<b>4</b> ) = 72 Hour Rush			2/3	/ /			
(2) = 24 Hour Rush	- ( <b>5</b> ) =	5 Day Rush			4		<u></u>	_	
3 = 48 Hour Rush	≡ <b>X</b> ysn	10 Working Days (Standard TAT)	ays (Stand	ard TAT)	વિત	<i></i>	<u> </u>	<u> </u>	Special
Client I.D.	A.A. I.D.	Date	Time	Sample N	7				
- 1		15/2	700 16.71	L	Cont Please	Please enter the IAI Turnaround Codes ** below	around Codes		(10-COG-1(C-00)
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Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested of this chain of custody form and any additional client-requested analytics. Performed of this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.



# REFERENCE TOXICANT DATA

### FATHEAD MINNOW ACUTE Reference Toxicant - SDS



QA/QC Batch No.: RT-170202

**TEST SUMMARY** 

Species: Pimephales promelas.

Age: 14 days old. Regulations: NPDES.

Test chamber volume: 250 ml. Feeding: Prior to renewal at 48 hrs.

Temperature: 20 +/- 1°C. Number of replicates: 2. Dilution water: MHSF. Source: In-lab culture.

Test type: Static-Renewal.

Test Protocol: EPA-821-R-02-012.

Endpoints: LC50 at 96 hrs. Test chamber: 600 ml beakers.

Aeration: None.

Number of organisms per chamber: 10. Photoperiod: 16/8 hrs light/dark.

### **TEST DATA**

		INITIAI	L			24 Hr					48 Hr		
Date/Time:	2-2-	17	(3)0	5-2	-17		(,	116	2 - 4-	()		13.	<b>]</b> ပ
Analyst:		2				2					2		
	°C	DO		°C	DO	all.	# D	Dead	°C	DO	m11	# D	ead
		DO	pН		DO	рН	Α	В		DO	pН	Α	В
Control	20.4	8.7	8.0	20,3	8.6	810	0	0	20.1	8.6	8-0	0	ย
1.0 mg/l	રિ  પ	8.6	8.1	Zo. 2	8,4	8.1	O	U	که. ه	8.5	8.1	0	O
2.0 mg/l	20.4	5.5	8.1	Zaz	8.3	8.0	O	O	20.1	ક - ૫	8.(	O	ه
4.0 mg/l	20.4	8.6	8,(	20. 1	8.3	8, (	į	(	23. 2	8.4	8,1	5	1
8.0 mg/l	که.4	8.7	8-1	ح-دح	8.3	8.1	10	10	_	_	-	1	
16.0 mg/l	<b>20.</b> }	8.6	8.1	١.دن	8.2	8-0	ιv	(0	_	-	•	-	_

	R	RENEWA	ıL			72 Hr					96 Hr		
Date/Time:	2-4-1	7	1330	ζ-	5-17		173	U	2~6	,~(つ		133	0
Analyst:		7				2					Ju	ح	
	°C	DO	рН	°C	DO	nU	# D	ead	°C	DO	рН	# D	ead
		DO	pri		50	pН	Α	В		DO .	pri	A	В
Control	20.3	8.7	8.0	20,0	8.5	8.1	0	0	19.8	8.1	8.2	$\mathcal{C}$	C
1.0 mg/l	201	8.1	8-1	که ن	8.6	6.1	0	0	19.8	8.2	8-2	0	0
2.0 mg/l	که. ۵	8.3	8~1	20-0	8.5	8.1	0	0	19.8	8-3	8.z	0	0
4.0 mg/l	٧.٧	5.4	8.0	200	8.6	8.0	0	0	19.8	8.3	8.1	0	0
8.0 mg/l	_		_	_	•	1	`	1	1	•	_		,
16.0 mg/l	-	-	-	-	_	-	_	-	-	_	-	-	_

Comments: Control: Alkalinity: 6 mg/l; Hardness: 1 mg/l; Conductivity: 279 umho. SDS: Alkalinity: 6 mg/l; Hardness: 7 mg/l; Conductivity: 275 umho.

Concentration-response relationship acceptable? (see attached computer analysis):

Yes (response curve normal)

No (dose interrupted indicated or non-normal)

				Acute Fish Test-96	Hr Survival	
Start Date:	2/2/2017	13:30	Test ID:	RT170202f	Sample ID:	REF-Ref Toxicant
End Date:	2/6/2017	13:30	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	SDS-Sodium dodecyl sulfate
Sample Date:	2/2/2017		Protocol:	CA DFG/DHS 1988	Test Species:	PP-Pimephales promelas
Comments:						
Conc-mg/L	1	2				
D-Control	1.0000	1.0000				
1	1.0000	1.0000				
2	1.0000	1.0000				
4	0.7000	0.8000				
8	0.0000	0.0000				
16	0.0000	0.0000				

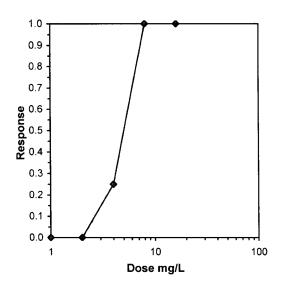
			Tra	ansform:	Arcsin Sc	uare Roof	:	Number To	tal
Conc-mg/L	Mean	N-Mean	Mean	Min	Max	CV%	N	Resp Num	nber
D-Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
1	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
2	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
4	0.7500	0.7500	1.0492	0.9912	1.1071	7.818	2	5	20
8	0.0000	0.0000	0.1588	0.1588	0.1588	0.000	2	20	20
16	0.0000	0.0000	0.1588	0.1588	0.1588	0.000	2	20	20

Auxiliary Tests	Statistic	Critical	Skew	Kurt
N. C.				

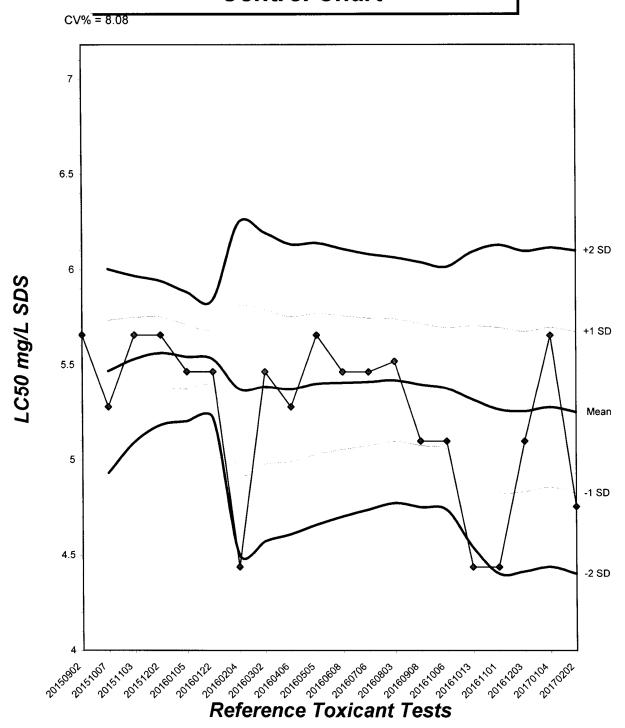
Normality of the data set cannot be confirmed

Equality of variance cannot be confirmed

	Equanty or rain	arioo oariii	00 00 00		
•					Trimmed Spearman-Karber
	Trim Level	EC50	95%	CL	
•	0.0%	4.7568	4.1593	5.4402	
	5.0%	4.8369	4.1557	5.6297	
	10.0%	4.9104	4.1027	5.8771	1.0 —
	20.0%	5.0203	3.7665	6.6915	1
	Auto-0.0%	4 7568	4 1593	5 4402	0.9



# Fathead Minnow Acute Laboratory Control Chart



### **TEST ORGANISM LOG**

## FATHEAD MINNOW - LARVAL (Pimephales promelas)



QA/QC BATCH NO.: RT-170202
SOURCE: In-Lab Culture
DATE HATCHED: 1-/9-/7
APPROXIMATE QUANTITY: '\ ₩
GENERAL APPEARANCE:
# MORTALITIES 48 HOURS PRIOR TO TO USE IN TESTING:
DATE USED IN LAB: 2/2/17
AVERAGE FISH WEIGHT: O-004 gm
LOADING LIMITS: 0.65 gm/liter @ 20°C, 0.40 gm/liter @ 25°C  Approximately 1000 fish per 10 liters limit if held overnight for acclimation without filtration @ 20°C for fish with a mean weight of 0.006 gm.  Approximately 650 fish per 10 liters limit if held overnight for acclimation without filtration @ 25°C for fish with a mean weight of 0.006 gm.  200 ml test solution volume = 0.013 gm mean fish weight limit @ 20°C; 0.008 @ 25°C 250 ml test solution volume = 0.016 gm mean fish weight limit @ 20°C; 0.010 @ 25°C
ACCLIMATION WATER QUALITY:  Temp.: 20.01 °C pH: 80 Ammonia: 6 mg/l NH <sub>3</sub> -N
DO: <u>8.7</u> mg/l Alkalinity: <u>60</u> mg/l Hardness: <u>91</u> mg/l
READINGS RECORDED BY: DATE:

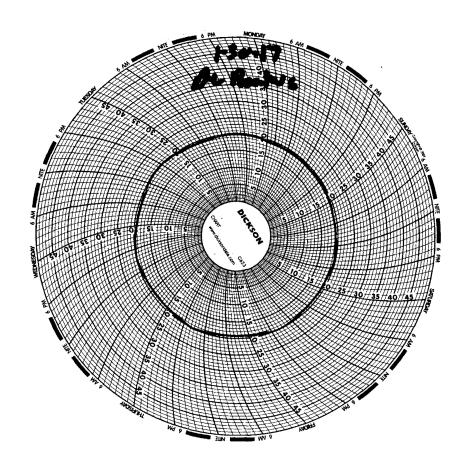


## Test Temperature Chart

Test No: RT-170202

Date Tested: 02/02/17 to 02/06/17

Acceptable Range: 20 +/- 1°C



### AMERICAN TO THE STATE OF THE S

# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

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Project Manager: Neil Irish		Site Add	Address:	15306 Norwalk Blvd	walk B	lvď			Š	mpler	Sampler's Signature:	ture:	Allen	Alexan as live her	
hone: 562-597-1055	eriannya kamalanda k			Norwalk							O. q	P.O. No.:			
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Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of involce. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.

### **APPENDIX B**

Laboratory ELAP Certification



STATE WATER RESOURCES CONTROL BOARD REGIONAL WATER QUALITY CONTROL BOARDS

### CALIFORNIA STATE



### **ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM**

### CERTIFICATE OF ENVIRONMENTAL ACCREDITATION

Is hereby granted to

American Analytics Inc.

**Stationary Laboratory** 

9765 Eton Avenue

Chatsworth, CA 91311

Scope of the certificate is limited to the "Fields of Testing" which accompany this Certificate.

Continued accredited status depends on successful completion of on-site inspection. proficiency testing studies, and payment of applicable fees.

> This Certificate is granted in accordance with provisions of Section 100825, et seq. of the Health and Safety Code.

Certificate No.:

1471

Expiration Date: 3/31/2017

Effective Date: 4/1/2015

Sacramento, California subject to forfeiture or revocation

Christine Sotelo, Chief **Environmental Laboratory Accreditation Program** 

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**APPENDIX C** 

Report Certification



### DEFENSE LOGISTICS AGENCY INSTALLATION SUPPORT FOR ENERGY 8725 JOHN J. KINGMAN ROAD FORT BELVOIR VIRGINIA 22060-6221

April 12, 2017

Mr. Gensen Kai California Regional Water Quality Control Board Los Angeles Region 320 West 4th Street, Suite 200 Los Angeles, California 90013

Dear Mr. Kai:

In reference to General National Pollutant Discharge Elimination System (NPDES) Permit (NPDES No. CAG994004) CFN# CI-7585, please accept this letter as DLA's certification of the Groundwater Discharge Monitoring Report – Quarter 1 of calendar year 2017 for the Defense Fuel Support Point (DFSP) Norwalk facility in Norwalk, California.

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

If you have any questions or need additional information concerning this document, please contact Ms. Carol Devier-Heeney at (703) 767-9813 or <a href="mailto:carol.devier-heeney@dla.mil">carol.devier-heeney@dla.mil</a>.

Sincerely,

POTTER.WILLIA Digitally signed by POTTER.WILLIAM.Y.1394566272 M.Y.1394566272 Date: 2017.04.13 09:22:03 -04'00'

William Y. Potter Chief, Restoration Branch

Enclosure As stated

cc:

CRWQB Information Technology Unit Carol Devier-Heeney, DLA Mike Wood, P.E., Senior Engineer, The Source Group, Inc.