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January 15, 2019

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 4, 2018**
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 Management - Operations for Energy, DM-FE (DLA), The Source Group, Inc. (SGI) presents the subject report to summarize the National Pollutant Discharge Elimination System (NPDES) monitoring activities for Quarter 4, 2018 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 include soil vapor extraction systems and a groundwater extraction and treatment system (GWETS). The treatment of extracted soil vapors and groundwater is ongoing at the Site to address historical impacts within the entire former tank farm, former water tank, former truck fueling, and pump house areas.

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 the current reporting period. All treated groundwater was discharged in accordance with NPDES Permit No. CAG994004, Compliance File No. CI-7585 with the exception of the annual acute toxicity sample collected on November 29, 2018 (see Summary of Non-Compliance section).

GWETS discharge volumes and field notes for October, November and December 2018 are summarized in Tables 2A, 2B, and 2C, respectively. 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 Quarter 4, 2018 was approximately 260,070 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 this period was approximately 0.1 pounds (Table 2C).

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 in accordance with NPDES permit requirements with all parameters specified by the Monitoring and Reporting Program (MRP) either being measured analytically or in the field using applicable test equipment. The sampling results indicate that all concentrations were below detection limits or did not exceed permit required discharge levels with the exception of the annual acute toxicity sample, as discussed below in the Summary of Non-Compliance section. A summary of the Quarter 4, 2018 monitoring results, including sample dates, is provided as Table 1. Laboratory analytical reports and chain-of-custody documents for all the samples collected this period 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.

SUMMARY OF NON-COMPLIANCE

The GWETS operated in compliance with NPDES No. CAG994004, CI-7585 during this reporting period with the exception of the annual acute toxicity sample collected on November 29, 2018. As indicated on Table 1, the analytical result was received by the laboratory on December 6, 2018 with the LARWQCB being immediately notified per Section IV, Part B.3 of the MRP. The GWETS was subsequently inspected and left off-line (manually shutdown on November 29, 2018) followed by implementing corrective action measures per SGI's December 20, 2018 *Acute Toxicity Testing Exceedance Report*.

The system was temporarily restarted on December 11, 2018 after completing the corrective action measures with all treated water being stored in a temporary holding tank (i.e., no discharge). Effluent sampling was subsequently conducted on December 12, 2018 followed by manually shutting down the system the same day pending the results. Per SGI's December 20, 2018 report, none of the water quality data collected as part of this effluent evaluation exceeded permit thresholds. Thus, accelerated monthly acute toxicity testing will continue during Quarter 1, 2019 in accordance with Section IV, Part A.4 of the MRP with regular annual acute toxicity testing to resume once three consecutive monthly results show full compliance with the effluent limitation. Should another exceedance occur during the accelerated monitoring period, discharge will be immediately terminated followed by notifying the LARWQCB and presenting the results along with a proposed plan of action to investigate and correct the cause(s) of the toxicity.

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.

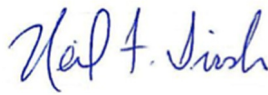
REPORT CERTIFICATION

The DLA report certification is provided in Appendix C.

Sincerely,



Michael Wood, P.E.
Senior Engineer



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

Attachments and Distribution on Next Page:

Attachments:

Table 1 – Summary of Effluent Groundwater Monitoring Results - 4th Quarter 2018
Table 2A – Groundwater Extraction and Treatment System Operations Summary - October
Table 2B – Groundwater Extraction and Treatment System Operations Summary - November
Table 2C – Groundwater Extraction and Treatment System Operations Summary - December

Appendix A – Laboratory Analytical Reports and Chain-of-Custody Documents
Appendix B – Laboratory ELAP Certification
Appendix C – Report Certification

cc: Mr. Paul Cho, LARWQCB
Mr. Jim Covin, LARWQCB
Ms. Carol Devier-Heeney, DLA
Mr. Todd Williams, DLA
Mr. Paul Demele, DLA
Ms. Michelle Taylor, DLA
Mr. Michael L. Garcia, City of Norwalk
Mr. Brian Partington, Water Replenishment District
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Ms. Perla Hernandez, Office of Congresswoman Grace Napolitano
Ms. Yvette Shahinian, Office of Congresswoman Linda T. Sánchez
Ms. Yahaira Ortiz, Office of State Senator Tony Mendoza
Mr. Norman Dupont, Richards Watson Gershon
Ms. Lisa Mendum, Liberty Utilities
Mr. Walter Scherer, March ARB
Mr. Michael T. Wilson, Air Force Real Property Agency
Attn: Librarian, Norwalk Regional Library
Mr. Steve Defibaugh, KMI
Mr. Eric Davis, Jacobs
Ms. Lorena Sierra, John Dolland Elementary School
Ms. Iso Nakasato, Office of Assemblymember Christina Garcia
Ms. Mary Jane McIntosh, RAB Community Member
Ms. Tracy Winkler, RAB Community Member

TABLES

TABLE 1
Summary of Effluent Groundwater Monitoring Results - 4th Quarter 2018
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sampling Frequency			Monthly							Quarterly										Annually		
Laboratory 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	
Daily Discharge 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	--	
Monthly Discharge 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 ^A	Temperature	TPH	MTBE	TBA	Arsenic	Oil & Grease	Copper	Turbidity	Sulfides	Residual Chlorine	Total Dissolved Solids	Total Suspended Solids	Settleable Solids	MBAS	Phenols	BOD ₅ 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)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
10/29/18		GW-15, GW-16	4.8	7.41	19.8	<40	<0.40	<7.0	<6.0	--	--	--	--	--	--	--	--	--	--	--	--	--
11/14/18		GW-15, GW-16	4.0	7.33	20.8	<40	<0.40	<7.0	<6.0	5.0	<14	1.1	<0.027	<0.1 ^B	1,000	<5.0	<0.1	<0.05	<0.15	<5.0	--	--
11/29/18	1,2	GW-15, GW-16	4.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	65^C	--
12/12/18	3,4,5	GW-2, GW-13, GW-15, GW-16	6.7	7.64	18.2	<40	<0.40	<7.0	<6.0	--	--	--	--	--	--	--	--	--	--	--	--	100^D

Legend / Notes:

GWETS = Groundwater extraction and treatment system
 TPH = Total petroleum hydrocarbons (gasoline range organics [GRO])
 MTBE = Methyl tertiary-butyl ether
 TBA = tertiary-Butyl alcohol
 MBAS = Methylene blue active substances
 BOD = Biochemical oxygen demand
 gpm = Gallons per minute
 µg/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

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.

C = See SGI's December 20, 2018 *Acute Toxicity Testing Exceedance Report* for notification details, investigative measures and follow up actions taken and planned to help ensure continued permit compliance.

D = Accelerated monthly permit compliance monitoring result per General Monitoring Provision V of Monitoring and Reporting Program No. CI-7585 (MRP).

1 = SGI received laboratory results from November 29, 2018 sampling event on December 6, 2018, and notified Board staff the same day per Section IV, Part B.3 of the MRP (GWETS was manually shutdown on November 29, 2018 so no discharge occurred subsequent to sampling).

2 = Treated water holding tank deployed to site following receipt of acute toxicity laboratory result to prevent discharge while testing measures were conducted per SGI's December 20, 2018 report.

3 = GWETS temporarily operated from December 11, 2018 to December 12, 2018 with all treated water going to holding tank followed by manual system shutdown pending December 2018 acute toxicity testing analytical result.

4 = Regular discharge of all treated water to storm drain resumed from December 17-20, 2018 based on December 12, 2018 acute toxicity testing analytical result (laboratory report attached) with system subsequently shutdown for the holidays.

5 = Additional monthly acute toxicity test samples will be collected during January 2019 and February 2019 as part of accelerated permit compliance monitoring required per Section IV, Part A.4 of the MRP.

TABLE 2A
Groundwater Extraction and Treatment System Operations Summary - October
 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)	Groundwater Extracted and Treated Per Day (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
10/1/18	*		291,028	111,783	571,846	685,023	1,256,869	402,811	620,993	5,818	--	9,946
10/2/18	*		291,028	111,783	574,079	688,471	1,262,549	402,811	626,811	5,818	--	9,946
10/3/18	Technician	1	291,028	111,783	575,429	690,556	1,265,985	402,811	630,330	3,519	--	9,946
10/4/18	*		291,028	111,783	575,429	693,774	1,269,203	402,811	636,949	6,619	--	9,946
10/5/18	*		291,028	111,783	575,429	696,991	1,272,420	402,811	643,567	6,619	--	9,946
10/6/18	*		291,028	111,783	575,429	700,209	1,275,638	402,811	650,186	6,619	--	9,946
10/7/18	*		291,028	111,783	575,429	703,427	1,278,856	402,811	656,805	6,619	--	9,946
10/8/18	*		291,028	111,783	575,429	706,644	1,282,073	402,811	663,423	6,619	--	9,946
10/9/18	*		291,028	111,783	575,429	709,862	1,285,291	402,811	670,042	6,619	--	9,946
10/10/18	*		291,028	111,783	575,429	713,080	1,288,509	402,811	676,661	6,619	--	9,946
10/11/18	*		291,028	111,783	575,429	716,297	1,291,726	402,811	683,279	6,619	--	9,946
10/12/18	*		291,028	111,783	575,429	719,515	1,294,944	402,811	689,898	6,619	--	9,946
10/13/18	*		291,028	111,783	575,429	722,732	1,298,161	402,811	696,517	6,619	--	9,946
10/14/18	*		291,028	111,783	575,429	725,950	1,301,379	402,811	703,135	6,619	--	9,946
10/15/18	Technician		291,028	111,783	575,429	728,665	1,304,094	402,811	708,720	5,585	--	9,946
10/16/18	*		291,028	111,783	575,429	730,927	1,306,356	402,811	713,382	4,662	--	9,946
10/17/18	*		291,028	111,783	575,429	733,189	1,308,618	402,811	718,043	4,662	--	9,946
10/18/18	*		291,028	111,783	575,429	735,452	1,310,881	402,811	722,705	4,662	--	9,946
10/19/18	*		291,028	111,783	575,429	737,714	1,313,143	402,811	727,366	4,662	--	9,946
10/20/18	*		291,028	111,783	575,429	739,976	1,315,405	402,811	732,028	4,662	--	9,946
10/21/18	*		291,028	111,783	575,429	742,238	1,317,667	402,811	736,690	4,662	--	9,946
10/22/18	*		291,028	111,783	575,429	744,501	1,319,930	402,811	741,351	4,662	--	9,946
10/23/18	*		291,028	111,783	575,429	746,763	1,322,192	402,811	746,013	4,662	--	9,946
10/24/18	*		291,028	111,783	575,429	749,025	1,324,454	402,811	750,674	4,662	--	9,946
10/25/18	*		291,028	111,783	575,429	751,287	1,326,716	402,811	755,336	4,662	--	9,946
10/26/18	*		291,028	111,783	575,429	753,550	1,328,979	402,811	759,998	4,662	--	9,946
10/27/18	*		291,028	111,783	575,429	755,812	1,331,241	402,811	764,659	4,662	--	9,946
10/28/18	*		291,028	111,783	575,429	758,074	1,333,503	402,811	769,321	4,662	--	9,946
10/29/18	Technician	2,3,4	291,028	111,783	575,429	760,187	1,335,616	402,811	773,675	4,354	ND <60	9,946
10/30/18	Off line		291,028	111,783	575,429	760,187	1,335,616	402,811	773,675	0	--	9,946
10/31/18	Off line		291,028	111,783	575,429	760,187	1,335,616	402,811	773,675	0	--	9,946

Cumulative Groundwater Discharged by the GWETS to Date (gallons)							
Period	October	Quarter 1, 2018	Quarter 2, 2018	Quarter 3, 2018	Quarter 4, 2018	2018 to Date	April 1996 to Date
Volume	158,500	189,822	482,184	642,663	158,500	1,473,169	79,186,382

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	October	Quarter 4 to Date	April 1996 to Date
Mass	0.04	0.04	9,945.8

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

Legend / Notes:

- 1 = GW-15 totalizer determined to not be functioning properly and removed for maintenance.
- 2 = Collected monthly process and intermediate samples for laboratory analysis.
- 3 = Collected monthly effluent field data and samples for laboratory analysis (see Table 1).
- 4 = GWETS manually shut down in advance of groundwater monitoring and sampling event.

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

GWETS = Groundwater extraction and treatment system
 µg/L - Micrograms per liter

lb = 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 samples collected on: 9/13/18 and 10/29/18.

-- = Not applicable

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

TABLE 2B
Groundwater Extraction and Treatment System Operations Summary - November
 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)	Groundwater Extracted and Treated Per Day (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
11/1/18	Off line		291,028	111,783	575,429	760,187	1,335,616	402,811	773,675	0	--	9,946
11/2/18	Off line		291,028	111,783	575,429	760,187	1,335,616	402,811	773,675	0	--	9,946
11/3/18	Off line		291,028	111,783	575,429	760,187	1,335,616	402,811	773,675	0	--	9,946
11/4/18	Off line		291,028	111,783	575,429	760,187	1,335,616	402,811	773,675	0	--	9,946
11/5/18	Off line		291,028	111,783	575,429	760,187	1,335,616	402,811	773,675	0	--	9,946
11/6/18	Off line		291,028	111,783	575,429	760,187	1,335,616	402,811	773,675	0	--	9,946
11/7/18	Off line		291,028	111,783	575,429	760,187	1,335,616	402,811	773,675	0	--	9,946
11/8/18	Off line		291,028	111,783	575,429	760,187	1,335,616	402,811	773,675	0	--	9,946
11/9/18	Off line		291,028	111,783	575,429	760,187	1,335,616	402,811	773,675	0	--	9,946
11/10/18	Off line		291,028	111,783	575,429	760,187	1,335,616	402,811	773,675	0	--	9,946
11/11/18	Off line		291,028	111,783	575,429	760,187	1,335,616	402,811	773,675	0	--	9,946
11/12/18	Technician	1	291,028	111,783	575,429	760,833	1,336,250	402,811	775,009	1,334	--	9,946
11/13/18	*		291,028	111,783	575,429	763,409	1,338,838	402,811	780,792	5,783	--	9,946
11/14/18	Technician	2,3,4	291,028	111,783	575,429	766,027	1,341,456	402,811	786,575	5,783	ND <60	9,946
11/15/18	*		291,028	111,783	579,902	769,670	1,349,572	402,811	793,741	7,166	--	9,946
11/16/18	*		291,028	111,783	584,375	773,313	1,357,688	402,811	800,907	7,166	--	9,946
11/17/18	*		291,028	111,783	588,848	776,956	1,365,804	402,811	808,073	7,166	--	9,946
11/18/18	*		291,028	111,783	593,321	780,599	1,373,920	402,811	815,239	7,166	--	9,946
11/19/18	Technician	5,6	291,028	111,783	597,204	783,761	1,380,965	402,811	821,460	6,221	--	9,946
11/20/18	Off line		291,028	111,783	597,204	783,761	1,380,965	402,811	821,460	0	--	9,946
11/21/18	Off line		291,028	111,783	597,204	783,761	1,380,965	402,811	821,460	0	--	9,946
11/22/18	Off line		291,028	111,783	597,204	783,761	1,380,965	402,811	821,460	0	--	9,946
11/23/18	Off line		291,028	111,783	597,204	783,761	1,380,965	402,811	821,460	0	--	9,946
11/24/18	Off line		291,028	111,783	597,204	783,761	1,380,965	402,811	821,460	0	--	9,946
11/25/18	Off line		291,028	111,783	597,204	783,761	1,380,965	402,811	821,460	0	--	9,946
11/26/18	Technician	7	291,028	111,783	597,204	785,314	1,382,518	402,811	824,541	3,081	--	9,946
11/27/18	*		291,028	111,783	597,204	787,750	1,384,954	402,811	829,405	4,864	--	9,946
11/28/18	Technician	8	291,028	111,783	597,204	790,465	1,387,669	402,811	834,270	4,865	--	9,946
11/29/18	Technician	9,10	291,028	111,783	597,204	791,368	1,388,572	402,811	836,170	2,025	--	9,946
11/30/18	Off line		291,028	111,783	597,204	791,368	1,388,572	402,811	836,170	0	--	9,946

Cumulative Groundwater Discharged by the GWETS (gallons)

Period	November	Quarter 1, 2018	Quarter 2, 2018	Quarter 3, 2018	Quarter 4, 2018	2018 to Date	April 1996 to Date
Volume	62,495	189,822	482,184	642,663	220,995	1,535,664	79,248,877

Cumulative Mass DRO Removed by the GWETS^A (lb)

Period	November	Quarter 4 to Date	April 1996 to Date
Mass	0.02	0.06	9,945.9

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

Legend / Notes:

- 1 = Restarted GWETS following completion of groundwater monitoring and sampling activities.
- 2 = Collected monthly process and intermediate samples for laboratory analysis.
- 3 = Collected quarterly effluent field data and samples for laboratory analysis (see Table 1).
- 4 = GW-15 totalizer reinstalled following completion of maintenance work.
- 5 = GWETS manually shut down in advance of media change out work.
- 6 = GW-15 totalizer again determined to not be functioning properly and removed for maintenance.
- 7 = Restarted GWETS following completion of media change out work.
- 8 = GWETS temporarily off-line to conduct carbon change out work.
- 9 = Collected annual acute toxicity sample for laboratory analysis (see Table 1).
- 10 = GWETS manually shut down as a precautionary measure pending annual sampling result.

GWETS = Groundwater extraction and treatment system
 µg/L - Micrograms per liter

lb = 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: 11/14/18.

-- = Not applicable

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

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

TABLE 2C
Groundwater Extraction and Treatment System Operations Summary - December
 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)	Groundwater Extracted and Treated Per Day (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
12/1/18	Off line		291,028	111,783	597,204	791,368	1,388,572	402,811	836,170	0	--	9,946
12/2/18	Off line		291,028	111,783	597,204	791,368	1,388,572	402,811	836,170	0	--	9,946
12/3/18	Off line		291,028	111,783	597,204	791,368	1,388,572	402,811	836,170	0	--	9,946
12/4/18	Off line		291,028	111,783	597,204	791,368	1,388,572	402,811	836,170	0	--	9,946
12/5/18	Off line		291,028	111,783	597,204	791,368	1,388,572	402,811	836,170	0	--	9,946
12/6/18	Off line		291,028	111,783	597,204	791,368	1,388,572	402,811	836,170	0	--	9,946
12/7/18	Off line		291,028	111,783	597,204	791,368	1,388,572	402,811	836,170	0	--	9,946
12/8/18	Off line		291,028	111,783	597,204	791,368	1,388,572	402,811	836,170	0	--	9,946
12/9/18	Off line		291,028	111,783	597,204	791,368	1,388,572	402,811	836,170	0	--	9,946
12/10/18	Off line		291,028	111,783	597,204	791,368	1,388,572	402,811	836,170	0	--	9,946
12/11/18	Technician	1	291,028	111,783	597,204	791,368	1,388,572	402,811	836,170	0	--	9,946
12/12/18	Technician	2,3,4	292,660	113,299	597,204	794,766	1,391,970	405,959	836,170	0	--	9,946
12/13/18	Off line		292,660	113,299	597,204	794,766	1,391,970	405,959	836,170	0	--	9,946
12/14/18	Off line		292,660	113,299	597,204	794,766	1,391,970	405,959	836,170	0	--	9,946
12/15/18	Off line		292,660	113,299	597,204	794,766	1,391,970	405,959	836,170	0	--	9,946
12/16/18	Off line		292,660	113,299	597,204	794,766	1,391,970	405,959	836,170	0	--	9,946
12/17/18	Technician	5,6	293,114	113,804	597,204	796,262	1,393,466	406,918	842,376	6,206	ND <60	9,946
12/18/18	*		294,017	114,604	597,204	798,740	1,394,943	408,621	851,426	9,050	--	9,946
12/19/18	*		295,373	115,910	597,204	800,714	1,397,917	411,283	860,476	9,050	--	9,946
12/20/18	Technician	7	297,022	117,496	597,204	804,328	1,401,531	414,518	875,245	14,769	--	9,946
12/21/18	Off line		297,022	117,496	597,204	804,328	1,401,531	414,518	875,245	0	--	9,946
12/22/18	Off line		297,022	117,496	597,204	804,328	1,401,531	414,518	875,245	0	--	9,946
12/23/18	Off line		297,022	117,496	597,204	804,328	1,401,531	414,518	875,245	0	--	9,946
12/24/18	Off line		297,022	117,496	597,204	804,328	1,401,531	414,518	875,245	0	--	9,946
12/25/18	Off line		297,022	117,496	597,204	804,328	1,401,531	414,518	875,245	0	--	9,946
12/26/18	Off line		297,022	117,496	597,204	804,328	1,401,531	414,518	875,245	0	--	9,946
12/27/18	Off line		297,022	117,496	597,204	804,328	1,401,531	414,518	875,245	0	--	9,946
12/28/18	Off line		297,022	117,496	597,204	804,328	1,401,531	414,518	875,245	0	--	9,946
12/29/18	Off line		297,022	117,496	597,204	804,328	1,401,531	414,518	875,245	0	--	9,946
12/30/18	Off line		297,022	117,496	597,204	804,328	1,401,531	414,518	875,245	0	--	9,946
12/31/18	Off line		297,022	117,496	597,204	804,328	1,401,531	414,518	875,245	0	--	9,946

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	December	Quarter 1, 2018	Quarter 2, 2018	Quarter 3, 2018	Quarter 4, 2018	2018 to Date	April 1996 to Date
Volume	39,075	189,822	482,184	642,663	260,070	1,574,739	79,287,952

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	December	Quarter 4 to Date	April 1996 to Date
Mass	0.01	0.07	9,945.9

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

Legend / Notes:

- 1 = GWETS restarted (off-line since 11/29/18) with all discharge going to a temporary holding tank.
- 2 = Collected monthly effluent field data and samples for laboratory analysis (see Table 1).
- 3 = Collected monthly effluent acute toxicity sample for laboratory analysis as part of required accelerated permit compliance monitoring (see Table 1).
- 4 = GWETS manually shutdown pending results from all monthly permit compliance samples.
- 5 = GWETS restarted following confirmation of compliance with all monthly discharge limits.
- 6 = Collected monthly process sample for laboratory analysis.
- 7 = GWETS manually shutdown for holidays after gravity draining temporary treatment water holding tank.

GWETS = Groundwater extraction and treatment system
 ug/L - Micrograms per liter

lb = 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: 12/17/18.

-- = 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

APPENDIX A
Laboratory Analytical Reports and Chain-of-Custody Documents



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

November 13, 2018

Neil Irish

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

**Re : DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013
A5332862 / 8J29012**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 10/29/18 15:15 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 Analytix.

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Vasile', is written over a light blue horizontal line.

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332862
Date Received: 10/29/18
Date Reported: 11/13/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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8260B TPHGASOLINEBTEXOXY

Effluent	8J29012-01	Water	5	10/29/18 08:30	10/29/18 15:15
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Arsenic Total EPA 200.7

Effluent	8J29012-01	Water	5	10/29/18 08:30	10/29/18 15:15
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: TPHG/BTEX/Oxygenates by GC/MS

AA Project No: A5332862
Date Received: 10/29/18
Date Reported: 11/13/18
Units: ug/L

Date Sampled:	10/29/18		
Date Prepared:	10/31/18		
Date Analyzed:	10/31/18		
AA ID No:	8J29012-01		
Client ID No:	Effluent		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

8260B TPHGASOLINEBTEXOXY (EPA 8260B)

tert-Butyl alcohol (TBA)	<7.0	7.0	10
Gasoline Range Organics (GRO)	<40	40	100
Methyl-tert-Butyl Ether (MTBE)	<0.40	0.40	2.0

Surrogates

		<u>%REC Limits</u>
4-Bromofluorobenzene	120%	70-140
Dibromofluoromethane	129%	70-140
Toluene-d8	106%	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: Total Metals by ICP Atomic Emission Spectroscopy

AA Project No: A5332862
Date Received: 10/29/18
Date Reported: 11/13/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
<u>Arsenic Total EPA 200.7 (EPA 200.7)</u>									
8J29012-01	Effluent	10/29/18	11/01/18	11/02/18	1	<0.0060	mg/L	0.006	0.007

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332862
Date Received: 10/29/18
Date Reported: 11/13/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
<i>Batch B8J3135 - EPA 5030B</i>										
Blank (B8J3135-BLK1)				Prepared & Analyzed: 10/31/18						
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							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>52.7</i>		<i>ug/L</i>	<i>50</i>		<i>105</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>60.1</i>		<i>ug/L</i>	<i>50</i>		<i>120</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.6</i>		<i>ug/L</i>	<i>50</i>		<i>99.3</i>	<i>70-140</i>			
LCS (B8J3135-BS1)				Prepared & Analyzed: 10/31/18						
tert-Amyl Methyl Ether (TAME)	22.4	0.30	ug/L	20		112	70-130			
Benzene	21.7	0.20	ug/L	20		108	75-125			
tert-Butyl alcohol (TBA)	113	7.0	ug/L	100		113	70-130			
Diisopropyl ether (DIPE)	20.2	0.50	ug/L	20		101	70-130			
Ethylbenzene	22.1	0.20	ug/L	20		111	75-125			
Ethyl-tert-Butyl Ether (ETBE)	21.6	0.40	ug/L	20		108	70-130			
Gasoline Range Organics (GRO)	499	40	ug/L	500		99.8	70-130			
Methyl-tert-Butyl Ether (MTBE)	47.3	0.40	ug/L	40		118	70-135			
Toluene	19.5	0.30	ug/L	20		97.4	75-125			
o-Xylene	20.9	0.30	ug/L	20		105	75-125			
m,p-Xylenes	41.2	0.40	ug/L	40		103	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.8</i>		<i>ug/L</i>	<i>50</i>		<i>102</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>56.6</i>		<i>ug/L</i>	<i>50</i>		<i>113</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.9</i>		<i>ug/L</i>	<i>50</i>		<i>97.8</i>	<i>70-140</i>			
Matrix Spike (B8J3135-MS1)				Source: 8J26004-08 Prepared & Analyzed: 10/31/18						
tert-Amyl Methyl Ether (TAME)	19.8	0.30	ug/L	20		98.8	70-130			

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332862
Date Received: 10/29/18
Date Reported: 11/13/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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TPHG/BTEX/Oxygenates by GC/MS - Quality Control

Batch B8J3135 - EPA 5030B

Matrix Spike (B8J3135-MS1) Continued Source: 8J26004-08 Prepared & Analyzed: 10/31/18

Benzene	20.0	0.20	ug/L	20		99.8	70-130			
tert-Butyl alcohol (TBA)	85.8	7.0	ug/L	100		85.8	70-130			
Diisopropyl ether (DIPE)	18.5	0.50	ug/L	20		92.4	70-130			
Ethylbenzene	21.0	0.20	ug/L	20		105	70-130			
Ethyl-tert-Butyl Ether (ETBE)	18.8	0.40	ug/L	20		94.0	70-130			
Methyl-tert-Butyl Ether (MTBE)	38.3	0.40	ug/L	40		95.8	70-130			
Toluene	19.6	0.30	ug/L	20		97.8	70-130			
o-Xylene	20.6	0.30	ug/L	20		103	70-130			
m,p-Xylenes	41.6	0.40	ug/L	40		104	70-130			

Surrogate: 4-Bromofluorobenzene	49.1		ug/L	50		98.2	70-140			
Surrogate: Dibromofluoromethane	51.1		ug/L	50		102	70-140			
Surrogate: Toluene-d8	47.5		ug/L	50		95.0	70-140			

Matrix Spike Dup (B8J3135-MSD1) Source: 8J26004-08 Prepared & Analyzed: 10/31/18

tert-Amyl Methyl Ether (TAME)	22.2	0.30	ug/L	20		111	70-130	11.7	30	
Benzene	20.9	0.20	ug/L	20		105	70-130	4.70	30	
tert-Butyl alcohol (TBA)	114	7.0	ug/L	100		114	70-130	28.2	30	
Diisopropyl ether (DIPE)	19.7	0.50	ug/L	20		98.4	70-130	6.24	30	
Ethylbenzene	20.1	0.20	ug/L	20		100	70-130	4.67	30	
Ethyl-tert-Butyl Ether (ETBE)	20.4	0.40	ug/L	20		102	70-130	7.92	30	
Methyl-tert-Butyl Ether (MTBE)	44.0	0.40	ug/L	40		110	70-130	13.9	30	
Toluene	19.0	0.30	ug/L	20		95.0	70-130	2.80	30	
o-Xylene	19.8	0.30	ug/L	20		98.8	70-130	4.16	30	
m,p-Xylenes	39.7	0.40	ug/L	40		99.2	70-130	4.65	30	

Surrogate: 4-Bromofluorobenzene	50.4		ug/L	50		101	70-140			
Surrogate: Dibromofluoromethane	54.6		ug/L	50		109	70-140			
Surrogate: Toluene-d8	45.6		ug/L	50		91.2	70-140			

Total Metals by ICP Atomic Emission Spectroscopy - Quality Control

Batch B8K0114 - EPA 200.7

Blank (B8K0114-BLK1) Prepared: 11/01/18 Analyzed: 11/02/18

Arsenic	<0.0060	0.0060	mg/L							
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332862
Date Received: 10/29/18
Date Reported: 11/13/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control										
<i>Batch B8K0114 - EPA 200.7</i>										
LCS (B8K0114-BS1)				Prepared: 11/01/18 Analyzed: 11/02/18						
Arsenic	1.04	0.0060	mg/L	1.0	104	80-120			20	
LCS Dup (B8K0114-BSD1)				Prepared: 11/01/18 Analyzed: 11/02/18						
Arsenic	1.05	0.0060	mg/L	1.0	105	80-120	1.06		20	
Duplicate (B8K0114-DUP1)				Source: 8J29012-01 Prepared: 11/01/18 Analyzed: 11/02/18						
Arsenic	<0.0060	0.0060	mg/L	<0.0070					30	
Matrix Spike (B8K0114-MS1)				Source: 8J29013-07 Prepared: 11/01/18 Analyzed: 11/02/18						
Arsenic	1.11	0.0060	mg/L	1.0	0.0264	108	75-125		20	
Matrix Spike Dup (B8K0114-MSD1)				Source: 8J29013-07 Prepared: 11/01/18 Analyzed: 11/02/18						
Arsenic	1.10	0.0060	mg/L	1.0	0.0264	107	75-125	0.453	20	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332862
Date Received: 10/29/18
Date Reported: 11/13/18

Special Notes

A handwritten signature in black ink, appearing to be 'VA' or similar, located below the 'Special Notes' section.

Viorel Vasile
Operations Manager



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

December 05, 2018

Neil Irish

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

**Re : DFSP Norwalk GWETS NPDES Annually / 04-NDLA-013
A5332904 / 8K14017**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/14/18 20:15 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 Analytix.

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Vasile', is written over a light blue horizontal line.

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Annually

AA Project No: A5332904
Date Received: 11/14/18
Date Reported: 12/05/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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8260B TPHGASOLINEBTEXOXY

Effluent	8K14017-01	Water	5	11/14/18 11:05	11/14/18 20:15
Effluent-Dup	8K14017-02	Water	5	11/14/18 11:06	11/14/18 20:15

Arsenic Total EPA 200.7

Effluent	8K14017-01	Water	5	11/14/18 11:05	11/14/18 20:15
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BOD SM5210B

Effluent	8K14017-01	Water	5	11/14/18 11:05	11/14/18 20:15
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Copper Total EPA 200.7

Effluent	8K14017-01	Water	5	11/14/18 11:05	11/14/18 20:15
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HEM Oil and Grease 1664

Effluent	8K14017-01	Water	5	11/14/18 11:05	11/14/18 20:15
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MBAS SM5540C

Effluent	8K14017-01	Water	5	11/14/18 11:05	11/14/18 20:15
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Phenols 420.1

Effluent	8K14017-01	Water	5	11/14/18 11:05	11/14/18 20:15
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SS SM2540F

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Annually

AA Project No: A5332904
Date Received: 11/14/18
Date Reported: 12/05/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
Effluent	8K14017-01	Water	5	11/14/18 11:05	11/14/18 20:15
<u>Sulfide SM4500-S=D</u>					
Effluent	8K14017-01	Water	5	11/14/18 11:05	11/14/18 20:15
<u>TDS SM2540C</u>					
Effluent	8K14017-01	Water	5	11/14/18 11:05	11/14/18 20:15
<u>TSS SM2540D</u>					
Effluent	8K14017-01	Water	5	11/14/18 11:05	11/14/18 20:15
<u>Turbidity 180.1</u>					
Effluent	8K14017-01	Water	5	11/14/18 11:05	11/14/18 20:15

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Annually
Method: General Chemistry Analyses

AA Project No: A5332904
Date Received: 11/14/18
Date Reported: 12/05/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
<u>BOD SM5210B (SM5210B) *</u>									
8K14017-01	Effluent	11/14/18	11/16/18	11/21/18	1	<5.0	mg/L	5	5
<u>HEM Oil and Grease 1664 (EPA 1664)</u>									
8K14017-01	Effluent	11/14/18	11/28/18	11/28/18	1	5.0	mg/L	3	5
<u>MBAS SM5540C (SM5540C) *</u>									
8K14017-01	Effluent	11/14/18	11/15/18	11/15/18	1	<0.050	mg/L	0.05	0.05
<u>Phenols 420.1 (EPA 420.1) *</u>									
8K14017-01	Effluent	11/14/18	11/15/18	11/15/18	1	<0.15	mg/L	0.15	0.3
<u>SS SM2540F (SM2540F)</u>									
8K14017-01	Effluent	11/14/18	11/15/18	11/15/18	1	<0.100	mL/L	0.1	0.1
<u>Sulfide SM4500-S=D (SM4500-S=D)</u>									
8K14017-01	Effluent	11/14/18	11/15/18	11/15/18	1	<0.027	mg/L	0.027	0.05
<u>TDS SM2540C (SM2540C)</u>									
8K14017-01	Effluent	11/14/18	11/15/18	11/15/18	1	1000	mg/L	6.2	10
<u>TSS SM2540D (SM2540D)</u>									
8K14017-01	Effluent	11/14/18	11/15/18	11/15/18	1	<5.0	mg/L	5	10
<u>Turbidity 180.1 (EPA 180.1)</u>									
8K14017-01	Effluent	11/14/18	11/15/18	11/15/18	1	1.1	NTU	0.168	1

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Annually
Method: TPHG/BTEX/Oxygenates by GC/MS

AA Project No: A5332904
Date Received: 11/14/18
Date Reported: 12/05/18
Units: ug/L

Date Sampled:	11/14/18	11/14/18		
Date Prepared:	11/27/18	11/27/18		
Date Analyzed:	11/27/18	11/27/18		
AA ID No:	8K14017-01	8K14017-02		
Client ID No:	Effluent	Effluent-Dup		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL

8260B TPHGASOLINEBTEXOXY (EPA 8260B)

tert-Amyl Methyl Ether (TAME)	<0.30	<0.30	0.30	2.0
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	0.20	0.50
Ethyl-tert-Butyl Ether (ETBE)	<0.40	<0.40	0.40	2.0
Gasoline Range Organics (GRO)	<40	<40	40	100
Methyl-tert-Butyl Ether (MTBE)	<0.40	<0.40	0.40	2.0
Toluene	<0.30	<0.30	0.30	0.50
o-Xylene	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.40	<0.40	0.40	1.0

<u>Surrogates</u>			<u>%REC Limits</u>	
4-Bromofluorobenzene	104%	104%	70-140	
Dibromofluoromethane	97%	95%	70-140	
Toluene-d8	113%	110%	70-140	

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 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Annually
Method: Total Metals by ICP Atomic Emission Spectroscopy

AA Project No: A5332904
Date Received: 11/14/18
Date Reported: 12/05/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
<u>Arsenic Total EPA 200.7 (EPA 200.7)</u>									
8K14017-01	Effluent	11/14/18	11/19/18	11/20/18	1	<0.0060	mg/L	0.006	0.007
<u>Copper Total EPA 200.7 (EPA 200.7)</u>									
8K14017-01	Effluent	11/14/18	11/28/18	11/28/18	1	<0.014	mg/L	0.014	0.014

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Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Annually

AA Project No: A5332904
Date Received: 11/14/18
Date Reported: 12/05/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
General Chemistry Analyses - Quality Control										
<i>Batch B8K1507 - NO PREP</i>										
Blank (B8K1507-BLK1)				Prepared & Analyzed: 11/15/18						
Total Settleable Solids	<0.100	0.100	mL/L							
<i>Batch B8K1508 - NO PREP</i>										
Blank (B8K1508-BLK1)				Prepared & Analyzed: 11/15/18						
Turbidity	<0.17	0.17	NTU							
Duplicate (B8K1508-DUP1)				Source: 8K14017-01 Prepared & Analyzed: 11/15/18						
Turbidity	1.25	0.17	NTU		1.11			11.9	20	
<i>Batch B8K1509 - NO PREP</i>										
Blank (B8K1509-BLK1)				Prepared & Analyzed: 11/15/18						
Total Suspended Solids	<5.0	5.0	mg/L							
LCS (B8K1509-BS1)				Prepared & Analyzed: 11/15/18						
Total Suspended Solids	55.0	5.0	mg/L	50		110	80-120			
LCS Dup (B8K1509-BSD1)				Prepared & Analyzed: 11/15/18						
Total Suspended Solids	49.0	5.0	mg/L	50		98.0	80-120	11.5	20	
Duplicate (B8K1509-DUP1)				Source: 8K14017-01 Prepared & Analyzed: 11/15/18						
Total Suspended Solids	<5.0	5.0	mg/L		<10				20	
<i>Batch B8K1510 - NO PREP</i>										
Blank (B8K1510-BLK1)				Prepared & Analyzed: 11/15/18						
Sulfide	<0.027	0.027	mg/L							
LCS (B8K1510-BS1)				Prepared & Analyzed: 11/15/18						
Sulfide	0.518	0.027	mg/L				80-120		25	
LCS Dup (B8K1510-BSD1)				Prepared & Analyzed: 11/15/18						
Sulfide	0.529	0.027	mg/L				80-120	2.10	25	
Matrix Spike (B8K1510-MS1)				Source: 8K14017-01 Prepared & Analyzed: 11/15/18						
Sulfide	0.520	0.027	mg/L		<0.050		75-125		25	
Matrix Spike Dup (B8K1510-MSD1)				Source: 8K14017-01 Prepared & Analyzed: 11/15/18						
Sulfide	0.520	0.027	mg/L		<0.050		75-125	0.00	25	
<i>Batch B8K1511 - NO PREP</i>										
Blank (B8K1511-BLK1)				Prepared & Analyzed: 11/15/18						
Total Dissolved Solids	<6.2	6.2	mg/L							

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Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Annually

AA Project No: A5332904
Date Received: 11/14/18
Date Reported: 12/05/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
General Chemistry Analyses - Quality Control										
<i>Batch B8K1511 - NO PREP</i>										
LCS (B8K1511-BS1)				Prepared & Analyzed: 11/15/18						
Total Dissolved Solids	460	6.2	mg/L	500		92.0	80-120			
LCS Dup (B8K1511-BSD1)				Prepared & Analyzed: 11/15/18						
Total Dissolved Solids	540	6.2	mg/L	500		108	80-120	16.0	25	
Duplicate (B8K1511-DUP1)				Source: 8K14017-01 Prepared & Analyzed: 11/15/18						
Total Dissolved Solids	960	62	mg/L		1030			7.04	20	
<i>Batch B8K2813 - NO PREP</i>										
Blank (B8K2813-BLK1)				Prepared: 11/27/18 Analyzed: 11/28/18						
HEM (Oil and Grease)	<3.0	3.0	mg/L							
LCS (B8K2813-BS1)				Prepared: 11/27/18 Analyzed: 11/28/18						
HEM (Oil and Grease)	35.5	3.0	mg/L	40		88.8	75-125			
LCS Dup (B8K2813-BSD1)				Prepared: 11/27/18 Analyzed: 11/28/18						
HEM (Oil and Grease)	33.7	3.0	mg/L	40		84.2	75-125	5.20	30	
<i>Batch B8L0540 - *** DEFAULT PREP ***</i>										
Blank (B8L0540-BLK1)				Prepared: 11/16/18 Analyzed: 11/21/18						
Biochemical Oxygen Demand	<5.0	5.0	mg/L							*
LCS (B8L0540-BS1)				Prepared: 11/16/18 Analyzed: 11/21/18						
Biochemical Oxygen Demand	173	5.0	mg/L	200		86.7	80-120			*
LCS Dup (B8L0540-BSD1)				Prepared: 11/16/18 Analyzed: 11/21/18						
Biochemical Oxygen Demand	176	5.0	mg/L	200		88.2	80-120	1.72	15	*
Duplicate (B8L0540-DUP1)				Source: 8K14017-01 Prepared: 11/16/18 Analyzed: 11/21/18						
Biochemical Oxygen Demand	<5.0	5.0	mg/L		<5.0				15	*
<i>Batch B8L0541 - NO PREP</i>										
Blank (B8L0541-BLK1)				Prepared & Analyzed: 11/15/18						
Methylene Blue Active Substances	<0.050	0.050	mg/L							*
LCS (B8L0541-BS1)				Prepared & Analyzed: 11/15/18						
Methylene Blue Active Substances	0.428	0.050	mg/L	0.50		85.6	80-120			*
LCS Dup (B8L0541-BSD1)				Prepared & Analyzed: 11/15/18						
Methylene Blue Active Substances	0.445	0.050	mg/L	0.50		89.0	80-120	3.89	30	*
Duplicate (B8L0541-DUP1)				Source: 8K14017-01 Prepared & Analyzed: 11/15/18						

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Annually

AA Project No: A5332904
Date Received: 11/14/18
Date Reported: 12/05/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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General Chemistry Analyses - Quality Control

Batch B8L0541 - NO PREP

Duplicate (B8L0541-DUP1) Continued Source: 8K14017-01 Prepared & Analyzed: 11/15/18 *

Methylene Blue Active Substances <0.050 0.050 mg/L <0.050 30

Matrix Spike (B8L0541-MS1) Source: 8K14017-01 Prepared & Analyzed: 11/15/18 *

Methylene Blue Active Substances 0.436 0.050 mg/L 0.50 <0.050 87.2 70-130

Matrix Spike Dup (B8L0541-MSD1) Source: 8K14017-01 Prepared & Analyzed: 11/15/18 *

Methylene Blue Active Substances 0.440 0.050 mg/L 0.50 <0.050 88.0 70-130 0.913 30

Batch B8L0542 - NO PREP

Blank (B8L0542-BLK1) Prepared & Analyzed: 11/15/18 *

Phenolics <0.15 0.15 mg/L

LCS (B8L0542-BS1) Prepared & Analyzed: 11/15/18 *

Phenolics 0.482 0.15 mg/L 0.50 96.4 80-120

LCS Dup (B8L0542-BSD1) Prepared & Analyzed: 11/15/18 *

Phenolics 0.462 0.15 mg/L 0.50 92.4 80-120 4.24 15

TPHG/BTEX/Oxygenates by GC/MS - Quality Control

Batch B8K2711 - EPA 5030B

Blank (B8K2711-BLK1) Prepared & Analyzed: 11/27/18

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 51.2 ug/L 50 102 70-140

Surrogate: Dibromofluoromethane 57.6 ug/L 50 115 70-140

Surrogate: Toluene-d8 53.6 ug/L 50 107 70-140

LCS (B8K2711-BS1) Prepared & Analyzed: 11/27/18

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Annually

AA Project No: A5332904
Date Received: 11/14/18
Date Reported: 12/05/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
<i>Batch B8K2711 - EPA 5030B</i>										
LCS (B8K2711-BS1) Continued					Prepared & Analyzed: 11/27/18					
tert-Amyl Methyl Ether (TAME)	16.0	0.30	ug/L	20		80.0	70-130			
Benzene	18.8	0.20	ug/L	20		94.2	75-125			
tert-Butyl alcohol (TBA)	62.7	7.0	ug/L	100		62.7	70-130			***
Diisopropyl ether (DIPE)	19.1	0.50	ug/L	20		95.4	70-130			
Ethylbenzene	20.4	0.20	ug/L	20		102	75-125			
Ethyl-tert-Butyl Ether (ETBE)	15.6	0.40	ug/L	20		78.0	70-130			
Gasoline Range Organics (GRO)	514	40	ug/L	500		103	70-130			
Methyl-tert-Butyl Ether (MTBE)	28.9	0.40	ug/L	40		72.2	70-135			
Toluene	21.2	0.30	ug/L	20		106	75-125			
o-Xylene	19.8	0.30	ug/L	20		98.8	75-125			
m,p-Xylenes	39.6	0.40	ug/L	40		99.1	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>51.1</i>		<i>ug/L</i>	<i>50</i>		<i>102</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>47.5</i>		<i>ug/L</i>	<i>50</i>		<i>95.0</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.8</i>		<i>ug/L</i>	<i>50</i>		<i>104</i>	<i>70-140</i>			
Matrix Spike (B8K2711-MS1)					Source: 8K15004-03 Prepared & Analyzed: 11/27/18					
tert-Amyl Methyl Ether (TAME)	16.4	0.30	ug/L	20		82.2	70-130			
Benzene	20.2	0.20	ug/L	20		101	70-130			
tert-Butyl alcohol (TBA)	55.8	7.0	ug/L	100		55.8	70-130			***
Diisopropyl ether (DIPE)	19.9	0.50	ug/L	20		99.5	70-130			
Ethylbenzene	22.3	0.20	ug/L	20		112	70-130			
Ethyl-tert-Butyl Ether (ETBE)	15.1	0.40	ug/L	20		75.3	70-130			
Methyl-tert-Butyl Ether (MTBE)	25.9	0.40	ug/L	40		64.8	70-130			***
Toluene	23.1	0.30	ug/L	20		115	70-130			
o-Xylene	21.7	0.30	ug/L	20		108	70-130			
m,p-Xylenes	43.9	0.40	ug/L	40		110	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>52.9</i>		<i>ug/L</i>	<i>50</i>		<i>106</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>46.5</i>		<i>ug/L</i>	<i>50</i>		<i>93.0</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.0</i>		<i>ug/L</i>	<i>50</i>		<i>102</i>	<i>70-140</i>			
Matrix Spike Dup (B8K2711-MSD1)					Source: 8K15004-03 Prepared & Analyzed: 11/27/18					
tert-Amyl Methyl Ether (TAME)	16.8	0.30	ug/L	20		84.0	70-130	2.11	30	
Benzene	20.8	0.20	ug/L	20		104	70-130	2.63	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Annually

AA Project No: A5332904
Date Received: 11/14/18
Date Reported: 12/05/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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TPHG/BTEX/Oxygenates by GC/MS - Quality Control

Batch B8K2711 - EPA 5030B

Matrix Spike Dup (B8K2711-MSD1) Source: 8K15004-03 Prepared & Analyzed: 11/27/18
Continued

tert-Butyl alcohol (TBA)	59.6	7.0	ug/L	100		59.6	70-130	6.60	30	***
Diisopropyl ether (DIPE)	20.7	0.50	ug/L	20		104	70-130	4.09	30	
Ethylbenzene	23.1	0.20	ug/L	20		116	70-130	3.70	30	
Ethyl-tert-Butyl Ether (ETBE)	15.7	0.40	ug/L	20		78.3	70-130	3.91	30	
Methyl-tert-Butyl Ether (MTBE)	27.3	0.40	ug/L	40		68.2	70-130	5.15	30	***
Toluene	24.2	0.30	ug/L	20		121	70-130	4.78	30	
o-Xylene	22.2	0.30	ug/L	20		111	70-130	2.19	30	
m,p-Xylenes	45.2	0.40	ug/L	40		113	70-130	2.90	30	
Surrogate: 4-Bromofluorobenzene	52.0		ug/L	50		104	70-140			
Surrogate: Dibromofluoromethane	47.0		ug/L	50		93.9	70-140			
Surrogate: Toluene-d8	52.8		ug/L	50		106	70-140			

Total Metals by ICP Atomic Emission Spectroscopy - Quality Control

Batch B8K1930 - EPA 200.7

Blank (B8K1930-BLK1) Prepared: 11/19/18 Analyzed: 11/20/18

Arsenic	<0.0060	0.0060	mg/L							
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LCS (B8K1930-BS1) Prepared: 11/19/18 Analyzed: 11/20/18

Arsenic	0.854	0.0060	mg/L	1.0		85.4	80-120		20	
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LCS Dup (B8K1930-BSD1) Prepared: 11/19/18 Analyzed: 11/20/18

Arsenic	0.894	0.0060	mg/L	1.0		89.4	80-120	4.59	20	
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Duplicate (B8K1930-DUP1) Source: 8K14016-08 Prepared: 11/19/18 Analyzed: 11/20/18

Arsenic	0.0210	0.0060	mg/L		0.0212			0.948	30	
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Matrix Spike (B8K1930-MS1) Source: 8K14017-01 Prepared: 11/19/18 Analyzed: 11/20/18

Arsenic	1.04	0.0060	mg/L	1.0	<0.0070	104	75-125		20	
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Matrix Spike Dup (B8K1930-MSD1) Source: 8K14017-01 Prepared: 11/19/18 Analyzed: 11/20/18

Arsenic	1.06	0.0060	mg/L	1.0	<0.0070	106	75-125	1.14	20	
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Batch B8K2802 - EPA 200.7

Blank (B8K2802-BLK1) Prepared & Analyzed: 11/28/18

Copper	<0.014	0.014	mg/L							
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LCS (B8K2802-BS1) Prepared & Analyzed: 11/28/18

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Annually

AA Project No: A5332904
Date Received: 11/14/18
Date Reported: 12/05/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control										
<i>Batch B8K2802 - EPA 200.7</i>										
Copper	0.823	0.014	mg/L	1.0		82.3	80-120		20	
LCS Dup (B8K2802-BSD1)	Prepared & Analyzed: 11/28/18									
Copper	0.857	0.014	mg/L	1.0		85.7	80-120	4.07	20	
Matrix Spike (B8K2802-MS1)	Source: 8K14017-01 Prepared & Analyzed: 11/28/18									
Copper	1.20	0.014	mg/L	1.0	<0.014	120	75-125		20	
Matrix Spike Dup (B8K2802-MSD1)	Source: 8K14017-01 Prepared & Analyzed: 11/28/18									
Copper	1.20	0.014	mg/L	1.0	<0.014	120	75-125	0.00	20	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Annually

AA Project No: A5332904
Date Received: 11/14/18
Date Reported: 12/05/18

Special Notes

- [1] = * : Subcontracted to a DOHS State-Certified Laboratory
- [2] = *** : Exceeds lower control limit.

A handwritten signature in black ink, appearing to read 'Viorel Vasile'.

Viorel Vasile
Operations Manager



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

American Analytics
9765 Eton Avenue
Chatsworth, CA 91311-4306

Number of Pages 7
Date Received 11/15/2018
Date Reported 11/26/2018

Telephone: (818)998-5547
Attention: Allen Aminian

Job Number	Order Date	Client
94842	11/15/2018	AA

Project ID: A5332904/8K14017
Project Name: PO# SUB03670-A5332904

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: _____

Cyrus Razmara, Ph.D.
Laboratory Director



American Environmental Testing Laboratory Inc.

2834 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
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COOLER RECEIPT FORM

Client Name: <i>America Analy.</i>			
Project Name:			
AETL Job Number: <i>99892</i>			
Date Received: <i>11/15/18</i>		Received by: <i>Ant</i>	
Carrier: <input type="checkbox"/> AETL Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<i>/</i>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <i>3.3</i> , No 2: , No 3:			
Type of sample containers: <input type="checkbox"/> VOA, <input checked="" type="checkbox"/> Glass bottles, <input type="checkbox"/> Wide mouth jars, <input checked="" type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input type="checkbox"/> Ice, <input checked="" type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
None, HNO ₃ , NaOH, ZnOAc, HCl, Na ₂ S ₂ O ₃ , MeOH			
Other (Specify): <i>H₂SO₄</i>			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<i>x</i>		
2. Are the Sample labels legible?	<i>x</i>		
3. Do samples match the COC?	<i>x</i>		
4. Are the required analyses clear?	<i>x</i>		
5. Is there enough samples for required analysis?	<i>x</i>		
6. Are samples sealed with evidence tape?		<i>?</i>	
7. Are sample containers in good condition?	<i>x</i>		
8. Are samples preserved?	<i>x</i>		
9. Are samples preserved properly for the intended analysis?	<i>x</i>		
10. Are the VOAs free of headspace?	<i>N/A</i>		
11. Are the jars free of headspace?	<i>?</i>		

Explain all "No" answers for above questions:



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Page: 1 A

Ordered By

American Analytics
9765 Eton Avenue
Chatsworth, CA 91311-4306

Project ID: A5332904/8K14017
Date Received 11/15/2018
Date Reported 11/26/2018

Telephone: (818) 998-5547
Attention: Allen Aminian

Job Number	Order Date	Client
94842	11/15/2018	AA

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 1 samples with the following specification on 11/15/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers	
94842.01	8K14017-01	11/14/2018	Aqueous	2	
Method ^	Submethod	Req Date	Priority	TAT	Units
420.1		11/22/2018	2	Normal	mg/L
SM-5540C		11/22/2018	2	Normal	mg/L
SM5210B		11/22/2018	2	Normal	mg/L

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

Checked By: _____

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: Allen Aminian

Page: 2

Project ID: A5332904/8K14017

Project Name: PO# SUB03670-A5332904

AETL Job Number	Submitted	Client
94842	11/15/2018	AA

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

QC Batch No: PH111518-1

Our Lab I.D.		Method Blank	94842.01			
Client Sample I.D.			8K14017-01			
Date Sampled			11/14/2018			
Date Prepared		11/15/2018	11/15/2018			
Preparation Method		420.1	420.1			
Date Analyzed		11/15/2018	11/15/2018			
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

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Attn: Allen Aminian

Page: 3

Project ID: A5332904/8K14017

Project Name: PO# SUB03670-A5332904

AETL Job Number	Submitted	Client
94842	11/15/2018	AA

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

QC Batch No: MB111518-1

Our Lab I.D.		Method Blank	94842.01			
Client Sample I.D.			8K14017-01			
Date Sampled			11/14/2018			
Date Prepared		11/15/2018	11/15/2018			
Preparation Method		SM5540C	SM5540C			
Date Analyzed		11/15/2018	11/15/2018			
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

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Telephone: (818)998-5547

Attn: Allen Aminian

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Project ID: A5332904/8K14017

Project Name: PO# SUB03670-A5332904

AETL Job Number	Submitted	Client
94842	11/15/2018	AA

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

QC Batch No: BO111618-1

Our Lab I.D.		Method Blank	94842.01			
Client Sample I.D.			8K14017-01			
Date Sampled			11/14/2018			
Date Prepared		11/16/2018	11/16/2018			
Preparation Method		SM5210B	SM5210B			
Date Analyzed		11/21/2018	11/21/2018			
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

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 Chatsworth, CA 91311-4306

Telephone: (818)998-5547

Attn: Allen Aminian

Page: 5

Project ID: A5332904/8K14017

Project Name: PO# SUB03670-A5332904

AETL Job Number	Submitted	Client
94842	11/15/2018	AA

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

QC Batch No: PH111518-1; Dup or Spiked Sample: 94798.01; LCS: Clean Water; QC Prepared: 11/15/2018; QC Analyzed: 11/15/2018;
 Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Phenol	0.00	0.500	0.472	94.4	0.500	0.466	93.2	1.3	80-120	<15

QC Batch No: PH111518-1; Dup or Spiked Sample: 94798.01; LCS: Clean Water; QC Prepared: 11/15/2018; QC Analyzed: 11/15/2018;
 Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Phenol	0.500	0.482	96.4	0.500	0.462	92.4	4.2	80-120	<20



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QUALITY CONTROL RESULTS

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Telephone: (818)998-5547

Attn: Allen Aminian

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Project ID: A5332904/8K14017

Project Name: PO# SUB03670-A5332904

AETL Job Number	Submitted	Client
94842	11/15/2018	AA

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

QC Batch No: MB111518-1; Dup or Spiked Sample: 94842.01; LCS: Clean Water; QC Prepared: 11/15/2018; QC Analyzed: 11/15/2018;
 Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Surfactants (MBAS)	0.00	0.500	0.436	87.2	0.500	0.440	88.0	<1	80-120	<15

QC Batch No: MB111518-1; Dup or Spiked Sample: 94842.01; LCS: Clean Water; QC Prepared: 11/15/2018; QC Analyzed: 11/15/2018;
 Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Surfactants (MBAS)	0.500	0.428	85.6	0.500	0.445	89.0	3.9	80-120	<15



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QUALITY CONTROL RESULTS

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Attn: Allen Aminian

Page: 7

Project ID: A5332904/8K14017

Project Name: PO# SUB03670-A5332904

AETL Job Number	Submitted	Client
94842	11/15/2018	AA

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

QC Batch No: BO111618-1; Dup or Spiked Sample: 94822.01; LCS: Clean Water; LCS Prepared: 11/16/2018; LCS Analyzed: 11/21/2018;
 Units: mg/L

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

QC Batch No: BO111618-1; Dup or Spiked Sample: 94822.01; LCS: Clean Water; LCS Prepared: 11/16/2018; LCS Analyzed: 11/21/2018;
 Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Biochemical Oxygen Demand (BOD)	198	173	87.4	198	176	88.9	1.7	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.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference



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

December 06, 2018

Neil Irish

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

**Re : DFSP Norwalk GWETS NPDES Annually / 04-NDLA-013
A5332928 / 8K29018**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/29/18 18:33 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 Analytix.

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Vasile', is written over a light blue horizontal line.

Viorel Vasile
Operations Manager

LABORATORY REPORT



**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

Date: December 4, 2018
Client: American Analytics
9765 Eton Avenue
Chatsworth, CA 91311
Attn: Viorel Vasile

Laboratory No.: A-18113001-001
Project No.: A5332928
Sample ID.: 8K29018-01

Sample Control: The sample was received by ATL chilled, within the recommended hold time and with the chain of custody record attached.

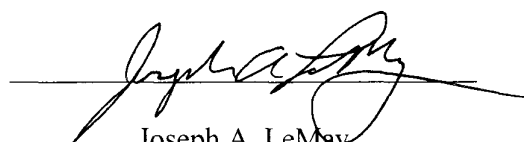
Date Sampled: 11/29/18
Date Received: 11/30/18
Temp. Received: 5.3°C
Chlorine (TRC): 0.0 mg/l
Date Tested: 11/30/18 to 12/04/18

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:

<u>Sample ID.</u>	<u>Results</u>
8K29018-01	65% Survival (TUa = 0.91)

Quality Control: Reviewed and approved by:


Joseph A. LeMay
Laboratory Director

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0



Lab No.: A-18113001-001

Client/ID: American Analytical 8K29018-01

Start Date: 11/30/2018

TEST SUMMARY

Species: *Pimephales promelas*.
 Age: 14 (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-181106.

TEST DATA

		°C	DO	pH	# Dead				Analyst & Time of Readings
					A	B	C	D	
INITIAL	Control	20.3	8.8	8.1	0	0	0	0	11-30-18 1000
	100%	20.3	7.2	7.6	0	0	0	0	
24 Hr	Control	19.9	8.7	8.0	0	0	0	0	12-1-18 1015
	100%	19.7	8.0	8.5	1	1	1	0	
48 Hr	Control	19.5	8.5	7.9	0	0	0	0	12-2-18 1000
	100%	19.4	8.1	8.3	0	0	0	2	
Renewal	Control	19.3	8.4	7.9	0	0	0	0	12-2-18 1000
	100%	19.1	8.3	8.1	0	0	0	0	
72 Hr	Control	19.3	8.1	7.8	0	0	0	0	12-3-18 1000
	100%	19.3	8.2	8.3	4	2	1	1	
96 Hr	Control	19.5	8.0	7.8	0	0	0	0	12-4-18 1015
	100%	19.4	8.2	8.1	0	0	0	1	

Comments:

Sample as received: Chlorine: 0 mg/l; Temp: 5.3 °C; DO: 5.4 mg/l; pH: 7.5 ;
 Alkalinity: 525 mg/l; Hardness: 680 mg/l; Conductivity: 1750 umho; NH₃-N: 1.5 mg/l.
 Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / No.
 Control: Alkalinity: 60 mg/l; Hardness: 90 mg/l; Conductivity: 315 umho.
 Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / No.
 Original sample used for renewal kept at 0-6°C with minimal headspace.
 Dissolved Oxygen (DO) readings in mg/l O₂.

RESULTS

Percent Survival In: Control: 100 % 100% Sample: 65 %



***REFERENCE
TOXICANT
DATA***

FATHEAD MINNOW ACUTE Reference Toxicant - SDS



QA/QC Batch No.: RT-181106

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

Date/Time:	INITIAL			24 Hr						48 Hr			
	<u>11-6-18 1230</u>			<u>11-7-18</u>			<u>1200</u>			<u>11-8-18 1200</u>			
	<u>JM</u>			<u>J</u>						<u>J</u>			
	°C	DO	pH	°C	DO	pH	# Dead		°C	DO	pH	# Dead	
						A	B				A	B	
Control	<u>20.6</u>	<u>8.2</u>	<u>7.6</u>	<u>20.5</u>	<u>8.1</u>	<u>7.5</u>	<u>0</u>	<u>0</u>	<u>20.6</u>	<u>8.0</u>	<u>7.9</u>	<u>0</u>	<u>0</u>
1.0 mg/l	<u>20.7</u>	<u>8.2</u>	<u>7.6</u>	<u>20.6</u>	<u>8.0</u>	<u>7.9</u>	<u>0</u>	<u>0</u>	<u>20.7</u>	<u>7.8</u>	<u>7.8</u>	<u>0</u>	<u>0</u>
2.0 mg/l	<u>20.7</u>	<u>8.2</u>	<u>7.7</u>	<u>20.6</u>	<u>7.9</u>	<u>7.8</u>	<u>0</u>	<u>0</u>	<u>20.6</u>	<u>7.7</u>	<u>7.8</u>	<u>0</u>	<u>0</u>
4.0 mg/l	<u>20.8</u>	<u>8.3</u>	<u>7.7</u>	<u>20.7</u>	<u>7.9</u>	<u>7.8</u>	<u>1</u>	<u>1</u>	<u>20.7</u>	<u>7.7</u>	<u>7.8</u>	<u>0</u>	<u>0</u>
8.0 mg/l	<u>20.8</u>	<u>8.4</u>	<u>7.8</u>	<u>20.7</u>	<u>7.7</u>	<u>7.7</u>	<u>10</u>	<u>10</u>	-	-	-	-	-
16.0 mg/l	<u>20.8</u>	<u>8.5</u>	<u>7.8</u>	<u>20.7</u>	<u>7.1</u>	<u>7.6</u>	<u>10</u>	<u>10</u>	-	-	-	-	-

Date/Time:	RENEWAL			72 Hr						96 Hr			
	<u>11-8-18 1200</u>			<u>11-9-18</u>			<u>1230</u>			<u>11-10-18 1230</u>			
	<u>J</u>			<u>J</u>						<u>J</u>			
	°C	DO	pH	°C	DO	pH	# Dead		°C	DO	pH	# Dead	
						A	B				A	B	
Control	<u>20.7</u>	<u>8.6</u>	<u>8.0</u>	<u>19.9</u>	<u>8.4</u>	<u>8.0</u>	<u>0</u>	<u>0</u>	<u>19.7</u>	<u>8.4</u>	<u>8.0</u>	<u>0</u>	<u>0</u>
1.0 mg/l	<u>20.6</u>	<u>8.0</u>	<u>7.9</u>	<u>19.8</u>	<u>8.1</u>	<u>7.9</u>	<u>0</u>	<u>0</u>	<u>19.6</u>	<u>8.4</u>	<u>7.9</u>	<u>0</u>	<u>0</u>
2.0 mg/l	<u>20.7</u>	<u>8.1</u>	<u>7.9</u>	<u>19.9</u>	<u>8.1</u>	<u>7.9</u>	<u>0</u>	<u>0</u>	<u>19.7</u>	<u>8.3</u>	<u>7.9</u>	<u>0</u>	<u>0</u>
4.0 mg/l	<u>20.7</u>	<u>8.1</u>	<u>7.9</u>	<u>19.8</u>	<u>8.0</u>	<u>7.9</u>	<u>0</u>	<u>0</u>	<u>19.7</u>	<u>8.4</u>	<u>7.9</u>	<u>0</u>	<u>0</u>
8.0 mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-
16.0 mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-

Comments: Control: Alkalinity: 60 mg/l; Hardness: 88 mg/l; Conductivity: 297 umho.
 SDS: Alkalinity: 59 mg/l; Hardness: 87 mg/l; Conductivity: 293 umho.
 Dissolved Oxygen (DO) readings in mg/l O₂.

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

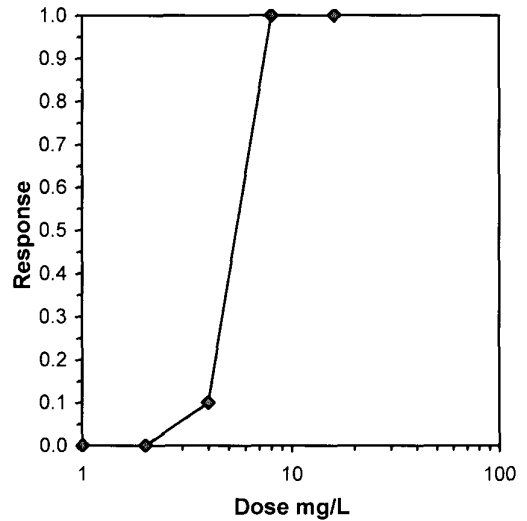
Start Date: 11/6/2018 12:30 Test ID: RT181106f Sample ID: REF-Ref Toxicant
 End Date: 11/10/2018 12:30 Lab ID: CAATL-Aquatic Testing Labs Sample Type: SDS-Sodium dodecyl sulfate
 Sample Date: 11/6/2018 Protocol: EPAAW02-EPA/821/R-02-01 Test Species: PP-Pimephales promelas
 Comments:

Conc-mg/L	1	2
D-Control	1.0000	1.0000
1	1.0000	1.0000
2	1.0000	1.0000
4	0.9000	0.9000
8	0.0000	0.0000
16	0.0000	0.0000

Conc-mg/L	Transform: Arcsin Square Root							Number	Total
	Mean	N-Mean	Mean	Min	Max	CV%	N	Resp	Number
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	0.9000	0.9000	1.2490	1.2490	1.2490	0.000	2	2	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

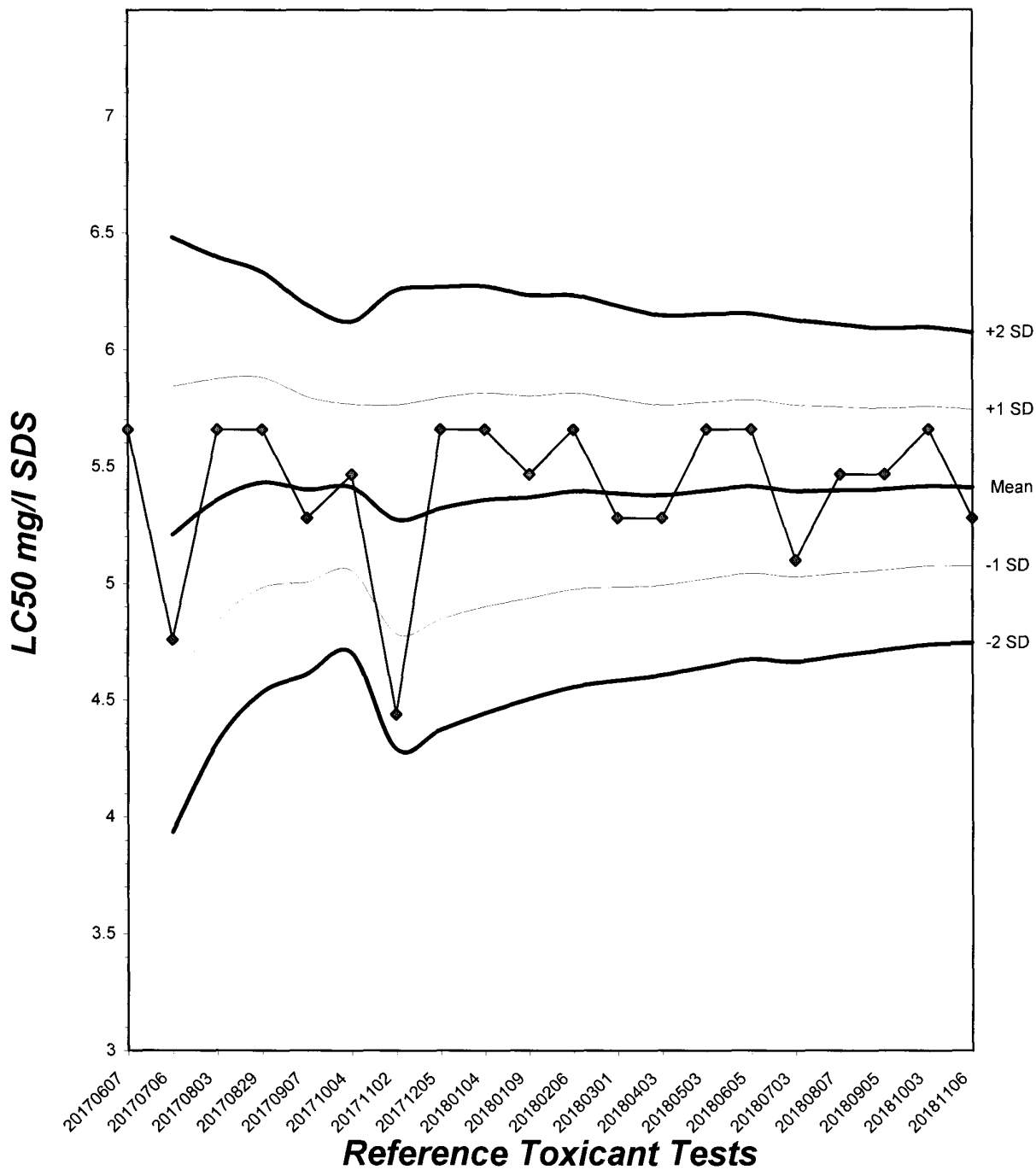
Auxiliary Tests	Statistic	Critical	Skew	Kurt
Normality of the data set cannot be confirmed				
Equality of variance cannot be confirmed				

Trimmed Spearman-Kärber			
Trim Level	EC50	95% CL	
0.0%	5.2780	4.8093	5.7924
5.0%	5.3968	4.8053	6.0611
10.0%	5.4432	5.1395	5.7648
20.0%	5.4432	5.1395	5.7648
Auto-0.0%	5.2780	4.8093	5.7924



Fathead Minnow Acute Laboratory Control Chart

CV% = 6.14





TEST ORGANISM LOG

FATHEAD MINNOW - LARVAL (*Pimephales promelas*)

QA/QC BATCH NO.: RT-181106

SOURCE: In-Lab Culture

DATE HATCHED: 10-23-18

APPROXIMATE QUANTITY: 400

GENERAL APPEARANCE: good

MORTALITIES 48 HOURS PRIOR TO
TO USE IN TESTING: 0

DATE USED IN LAB: 11/6/18

AVERAGE FISH WEIGHT: 0.004 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.: 20.6 °C

pH: 7.6 Ammonia: 0 mg/l NH₃-N

DO: 8.2 mg/l

Alkalinity: 40 mg/l

Hardness: 80 mg/l

READINGS RECORDED BY: [Signature]

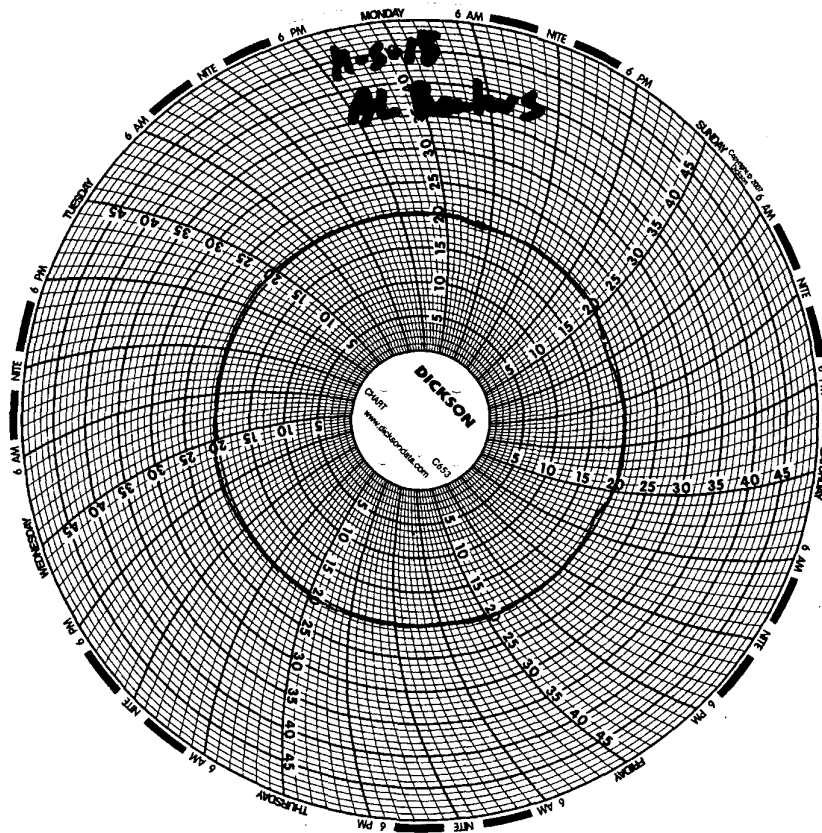
DATE: 11-7-18

Test Temperature Chart

Test No: RT-181106

Date Tested: 11/06/18 to 11/10/18

Acceptable Range: 20 +/- 1°C





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

December 17, 2018

Neil Irish

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

**Re : DFSP Norwalk / 091-NDLA
A5332942 / 8L12021**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 12/12/18 18:05 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 Analytix.

Sincerely,

A handwritten signature in black ink, appearing to be 'V. Vasile', written in a cursive style.

Viorel Vasile
Operations Manager

LABORATORY REPORT



**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

Date: December 17, 2018

Client: American Analytics
9765 Eton Avenue
Chatsworth, CA 91311
Attn: Viorel Vasile

Laboratory No.: A-18121302-001
Project No.: A5332942
Sample ID.: 8L12021-01

Sample Control: The sample was received by ATL chilled, within the recommended hold time and with the chain of custody record attached.

Date Sampled: 12/12/18
Date Received: 12/13/18
Temp. Received: 3.5°C
Chlorine (TRC): 0.0 mg/l
Date Tested: 12/13/18 to 12/17/18

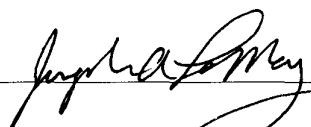
Sample Analysis: The following analyses were performed on your sample:
Fathead Minnow 96hr Percent Survival Bioassay (EPA-821-R-02-012 Method 2000.0);

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:

<u>Sample ID.</u>	<u>Results</u>
8L12021-01	100% Survival (TU _a = 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-18121302-001

Client/ID: American Analytics 8L12021-01

Start Date: 12/13/2018

TEST SUMMARY

Species: *Pimephales promelas*.
 Age: 13 (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-181204.

TEST DATA

		°C	DO	pH	# Dead				Analyst & Time of Readings
					A	B	C	D	
INITIAL	Control	20.4	9.0	8.1	0	0	0	0	12-13-18 11:30
	100%	20.5	6.3	7.5	0	0	0	0	
24 Hr	Control	20.0	8.4	7.9	0	0	0	0	12-14-18 11:00
	100%	19.9	8.0	8.4	0	0	0	0	
48 Hr	Control	19.8	8.0	7.8	0	0	0	0	12-15-18 11:00
	100%	19.8	8.0	7.8	0	0	0	0	
Renewal	Control	19.7	8.9	8.0	0	0	0	0	12-15-18 11:00
	100%	19.6	8.4	7.8	0	0	0	0	
72 Hr	Control	19.9	8.0	7.7	0	0	0	0	12-16-18 11:00
	100%	19.8	8.1	8.0	0	0	0	0	
96 Hr	Control	20.0	7.2	7.5	0	0	0	0	12-17-18 11:30
	100%	20.0	7.2	8.0	0	0	0	0	

Comments:

Sample as received: Chlorine: 0 mg/l; Temp: 3.5 °C; DO: 5.5 mg/l; pH: 7.4 ;
 Alkalinity: 570 mg/l; Hardness: 720 mg/l; Conductivity: 1900 umho; NH₃-N: 1.3 mg/l.
 Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / (No)
 Control: Alkalinity: 61 mg/l; Hardness: 90 mg/l.; Conductivity: 292 umho.
 Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / (No)
 Original sample used for renewal kept at 0-6°C with minimal headspace.
 Dissolved Oxygen (DO) readings in mg/l O₂.

RESULTS

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



***REFERENCE
TOXICANT
DATA***

FATHEAD MINNOW ACUTE Reference Toxicant - SDS



QA/QC Batch No.: RT-181204

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

Date/Time:	INITIAL			24 Hr						48 Hr					
	<u>12-4-18 1045</u>			<u>12-5-18</u>			<u>1030</u>			<u>12-6-18</u>			<u>1030</u>		
	<u>J</u>			<u>J</u>						<u>J</u>					
	°C	DO	pH	°C	DO	pH	# Dead		°C	DO	pH	# Dead			
						A	B				A	B			
Control	<u>19.9</u>	<u>9.0</u>	<u>8.1</u>	<u>19.4</u>	<u>8.7</u>	<u>8.0</u>	<u>0</u>	<u>0</u>	<u>19.8</u>	<u>8.1</u>	<u>7.7</u>	<u>0</u>	<u>0</u>		
1.0 mg/l	<u>19.8</u>	<u>8.9</u>	<u>8.1</u>	<u>19.5</u>	<u>8.6</u>	<u>8.0</u>	<u>0</u>	<u>0</u>	<u>19.8</u>	<u>7.8</u>	<u>7.7</u>	<u>0</u>	<u>0</u>		
2.0 mg/l	<u>19.9</u>	<u>8.9</u>	<u>8.0</u>	<u>19.4</u>	<u>8.5</u>	<u>8.0</u>	<u>0</u>	<u>0</u>	<u>19.8</u>	<u>7.8</u>	<u>7.7</u>	<u>0</u>	<u>0</u>		
4.0 mg/l	<u>19.9</u>	<u>8.6</u>	<u>8.0</u>	<u>19.4</u>	<u>8.6</u>	<u>8.0</u>	<u>0</u>	<u>0</u>	<u>19.8</u>	<u>7.8</u>	<u>7.7</u>	<u>0</u>	<u>1</u>		
8.0 mg/l	<u>19.9</u>	<u>8.9</u>	<u>8.1</u>	<u>19.4</u>	<u>8.6</u>	<u>7.9</u>	<u>10</u>	<u>10</u>	-	-	-	-	-		
16.0 mg/l	<u>19.8</u>	<u>8.9</u>	<u>8.1</u>	<u>19.5</u>	<u>8.3</u>	<u>7.8</u>	<u>10</u>	<u>10</u>	-	-	-	-	-		

Date/Time:	RENEWAL			72 Hr						96 Hr					
	<u>12-6-18 1030</u>			<u>12-7-18</u>			<u>1030</u>			<u>12-8-18</u>			<u>1100</u>		
	<u>J</u>			<u>JM</u>						<u>JM</u>					
	°C	DO	pH	°C	DO	pH	# Dead		°C	DO	pH	# Dead			
						A	B				A	B			
Control	<u>19.8</u>	<u>8.5</u>	<u>7.9</u>	<u>19.9</u>	<u>7.4</u>	<u>7.7</u>	<u>0</u>	<u>0</u>	<u>19.9</u>	<u>7.8</u>	<u>7.8</u>	<u>0</u>	<u>0</u>		
1.0 mg/l	<u>19.7</u>	<u>8.4</u>	<u>7.9</u>	<u>19.8</u>	<u>7.6</u>	<u>7.7</u>	<u>0</u>	<u>0</u>	<u>19.8</u>	<u>8.0</u>	<u>7.8</u>	<u>0</u>	<u>0</u>		
2.0 mg/l	<u>19.6</u>	<u>8.4</u>	<u>7.8</u>	<u>19.8</u>	<u>7.7</u>	<u>7.7</u>	<u>0</u>	<u>0</u>	<u>19.8</u>	<u>8.1</u>	<u>7.8</u>	<u>0</u>	<u>0</u>		
4.0 mg/l	<u>19.7</u>	<u>8.4</u>	<u>7.9</u>	<u>19.7</u>	<u>7.8</u>	<u>7.8</u>	<u>0</u>	<u>0</u>	<u>19.7</u>	<u>8.1</u>	<u>7.9</u>	<u>0</u>	<u>0</u>		
8.0 mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-		
16.0 mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-		

Comments: Control: Alkalinity: 60 mg/l; Hardness: 86 mg/l; Conductivity: 295 umho.
 SDS: Alkalinity: 60 mg/l; Hardness: 85 mg/l; Conductivity: 287 umho.
 Dissolved Oxygen (DO) readings in mg/l O₂.

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: 12/4/2018 10:45 Test ID: RT181204f Sample ID: REF-Ref Toxicant
 End Date: 12/8/2018 10:30 Lab ID: CAATL-Aquatic Testing Labs Sample Type: SDS-Sodium dodecyl sulfate
 Sample Date: 12/4/2018 Protocol: EPAAW02-EPA/821/R-02-01 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	1.0000	0.9000
8	0.0000	0.0000
16	0.0000	0.0000

Conc-mg/L	Mean	N-Mean	Transform: Arcsin Square Root					N	Number Resp	Total Number
			Mean	Min	Max	CV%				
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	0.9500	0.9500	1.3305	1.2490	1.4120	8.661	2	1	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	

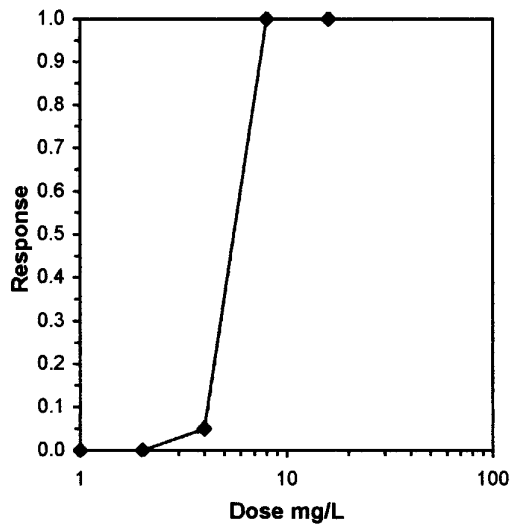
Auxiliary Tests

Normality of the data set cannot be confirmed
 Equality of variance cannot be confirmed

Statistic Critical Skew Kurt

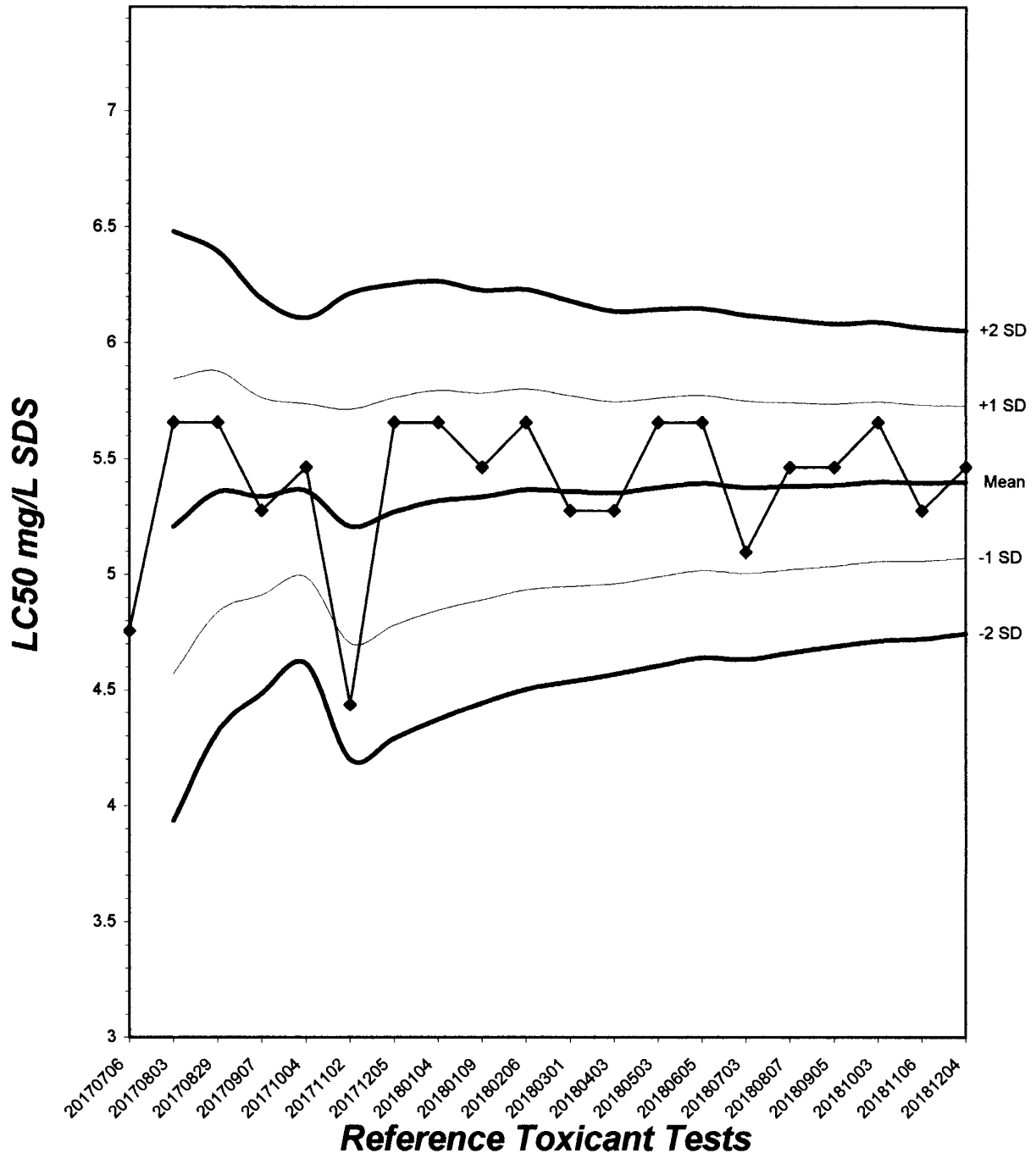
Trimmed Spearman-Kärber

Trim Level	EC50	95% CL	
0.0%	5.4642	5.1072	5.8461
5.0%	5.5546	5.3505	5.7664
10.0%	5.5546	5.3505	5.7664
20.0%	5.5546	5.3505	5.7664
Auto-0.0%	5.4642	5.1072	5.8461



Fathead Minnow Acute Laboratory Control Chart

CV% = 6.07





TEST ORGANISM LOG

FATHEAD MINNOW - LARVAL (*Pimephales promelas*)

QA/QC BATCH NO.: RT-181204

SOURCE: In-Lab Culture

DATE HATCHED: 11-20-18

APPROXIMATE QUANTITY: 400

GENERAL APPEARANCE: good

MORTALITIES 48 HOURS PRIOR TO
TO USE IN TESTING: 0

DATE USED IN LAB: 12/4/18

AVERAGE FISH WEIGHT: 0.004 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.: 19.9 °C

pH: 8.1 Ammonia: 0 mg/l NH₃-N

DO: 9.0 mg/l

Alkalinity: 60 mg/l

Hardness: 86 mg/l

READINGS RECORDED BY: [Signature]

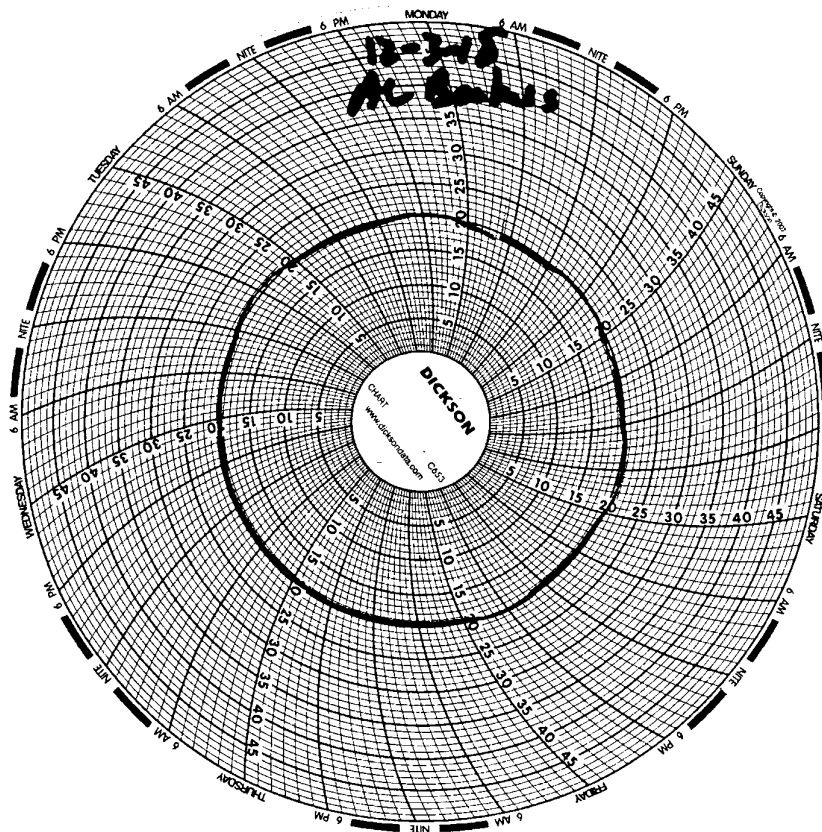
DATE: 12-5-18

Test Temperature Chart

Test No: *RT-181204*

Date Tested: *12/04/18 to 12/08/18*

Acceptable Range: *20 +/- 1°C*





AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5647 FAX: 818-998-7258

17259

Page 1 of 1

Client: APEX/The Source Group, Inc. **Project Name / No.:** DFSP - Norwalk / 091-NDLA **Sampler's Name:** Glenn Androsko

Project Manager: Neil Irish **Site Address:** 15306 Norwalk Blvd **Sampler's Signature:** *Glenn Androsko*

Phone: 562-597-1055 **City:** Norwalk **P.O. No.:**

Fax: 569-597-1070 **State & Zip:** CA 90650 **Quote No.:**

TAT Turnaround Codes **

- ① = Same Day Rush
- ② = 24 Hour Rush
- ③ = 48 Hour Rush
- ④ = 72 Hour Rush
- ⑤ = 5 Day Rush
- X = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Client I.D.	Date	Time	Sample Matrix	No. of Cont	Please enter the TAT Turnaround Codes ** below					Special Instructions	
					TPHd 8015M	TPHgM/TBE/TBA 8288B	Arsenic 200.7	Fish Toxicity	Report J-Flags		
Effluent	8/20/01	1020	Water	1							

Relinquished by	Date	Time	Received by	Time
<i>Glenn Androsko</i>	12-12-18	11:30	<i>[Signature]</i>	
<i>[Signature]</i>	12-12-18	18:05	<i>[Signature]</i>	
<i>[Signature]</i>			<i>[Signature]</i>	

RECEIVED
 12/18/18
 07:00
 10 WORKING DAYS
 TAT

AS332942/8L12021

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

December 28, 2018

Neil Irish

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

**Re : DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013
A5332943 / 8L12022**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 12/12/18 18:05 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 Analytix.

Sincerely,

A handwritten signature in black ink, appearing to be 'V. Vasile'.

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332943
Date Received: 12/12/18
Date Reported: 12/28/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
-----------	---------------	--------	-----	--------------	---------------

8260B TPHGASOLINEBTEXOXY

Effluent	8L12022-01	Water	5	12/12/18 10:20	12/12/18 18:05
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Arsenic Total EPA 200.7

Effluent	8L12022-01	Water	5	12/12/18 10:20	12/12/18 18:05
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: TPHG/BTEX/Oxygenates by GC/MS

AA Project No: A5332943
Date Received: 12/12/18
Date Reported: 12/28/18
Units: ug/L

Date Sampled:	12/12/18		
Date Prepared:	12/20/18		
Date Analyzed:	12/20/18		
AA ID No:	8L12022-01		
Client ID No:	Effluent		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

8260B TPHGASOLINEBTEXOXY (EPA 8260B)

tert-Butyl alcohol (TBA)	<7.0	7.0	10
Gasoline Range Organics (GRO)	<40	40	100
Methyl-tert-Butyl Ether (MTBE)	<0.40	0.40	2.0

Surrogates

		<u>%REC Limits</u>
4-Bromofluorobenzene	118%	70-140
Dibromofluoromethane	103%	70-140
Toluene-d8	120%	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: Total Metals by ICP Atomic Emission Spectroscopy

AA Project No: A5332943
Date Received: 12/12/18
Date Reported: 12/28/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
<u>Arsenic Total EPA 200.7 (EPA 200.7)</u>									
8L12022-01	Effluent	12/12/18	12/14/18	12/18/18	1	<0.0060	mg/L	0.006	0.007

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332943
Date Received: 12/12/18
Date Reported: 12/28/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
<i>Batch B8L2020 - EPA 5030B</i>										
Blank (B8L2020-BLK1)				Prepared & Analyzed: 12/20/18						
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							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>56.3</i>		<i>ug/L</i>	<i>50</i>		<i>113</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>58.5</i>		<i>ug/L</i>	<i>50</i>		<i>117</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>56.1</i>		<i>ug/L</i>	<i>50</i>		<i>112</i>	<i>70-140</i>			
LCS (B8L2020-BS1)				Prepared & Analyzed: 12/20/18						
tert-Amyl Methyl Ether (TAME)	21.2	0.30	ug/L	20		106	70-130			
Benzene	22.7	0.20	ug/L	20		113	75-125			
tert-Butyl alcohol (TBA)	95.1	7.0	ug/L	100		95.1	70-130			
Diisopropyl ether (DIPE)	22.2	0.50	ug/L	20		111	70-130			
Ethylbenzene	21.8	0.20	ug/L	20		109	75-125			
Ethyl-tert-Butyl Ether (ETBE)	21.4	0.40	ug/L	20		107	70-130			
Gasoline Range Organics (GRO)	478	40	ug/L	500		95.6	70-130			
Methyl-tert-Butyl Ether (MTBE)	42.4	0.40	ug/L	40		106	70-135			
Toluene	21.4	0.30	ug/L	20		107	75-125			
o-Xylene	21.3	0.30	ug/L	20		106	75-125			
m,p-Xylenes	43.4	0.40	ug/L	40		108	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>57.0</i>		<i>ug/L</i>	<i>50</i>		<i>114</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>57.2</i>		<i>ug/L</i>	<i>50</i>		<i>114</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>57.5</i>		<i>ug/L</i>	<i>50</i>		<i>115</i>	<i>70-140</i>			
LCS Dup (B8L2020-BSD1)				Prepared & Analyzed: 12/20/18						
tert-Amyl Methyl Ether (TAME)	23.0	0.30	ug/L	20		115	70-130	8.60	30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332943
Date Received: 12/12/18
Date Reported: 12/28/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
<i>Batch B8L2020 - EPA 5030B</i>										
LCS Dup (B8L2020-BSD1) Continued Prepared & Analyzed: 12/20/18										
Benzene	23.5	0.20	ug/L	20		117	75-125	3.51	30	
tert-Butyl alcohol (TBA)	103	7.0	ug/L	100		103	70-130	8.04	30	
Diisopropyl ether (DIPE)	23.5	0.50	ug/L	20		117	70-130	5.47	30	
Ethylbenzene	22.1	0.20	ug/L	20		110	75-125	1.23	30	
Ethyl-tert-Butyl Ether (ETBE)	22.6	0.40	ug/L	20		113	70-130	5.82	30	
Gasoline Range Organics (GRO)	452	40	ug/L	500		90.4	70-130	5.59	30	
Methyl-tert-Butyl Ether (MTBE)	46.8	0.40	ug/L	40		117	70-135	9.84	30	
Toluene	21.7	0.30	ug/L	20		109	75-125	1.67	30	
o-Xylene	21.3	0.30	ug/L	20		107	75-125	0.376	30	
m,p-Xylenes	42.8	0.40	ug/L	40		107	70-130	1.39	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	56.7		ug/L	50		113	70-140			
<i>Surrogate: Dibromofluoromethane</i>	60.0		ug/L	50		120	70-140			
<i>Surrogate: Toluene-d8</i>	57.5		ug/L	50		115	70-140			
Matrix Spike (B8L2020-MS1) Source: 8L12027-01 Prepared & Analyzed: 12/20/18										
tert-Amyl Methyl Ether (TAME)	19.8	0.30	ug/L	20		98.8	70-130			
Benzene	24.7	0.20	ug/L	20		123	70-130			
tert-Butyl alcohol (TBA)	91.1	7.0	ug/L	100	12.4	78.8	70-130			
Diisopropyl ether (DIPE)	22.9	0.50	ug/L	20		114	70-130			
Ethylbenzene	25.0	0.20	ug/L	20		125	70-130			
Ethyl-tert-Butyl Ether (ETBE)	20.6	0.40	ug/L	20		103	70-130			
Methyl-tert-Butyl Ether (MTBE)	38.9	0.40	ug/L	40		97.2	70-130			
Toluene	23.9	0.30	ug/L	20		120	70-130			
o-Xylene	23.6	0.30	ug/L	20		118	70-130			
m,p-Xylenes	49.0	0.40	ug/L	40		122	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	56.1		ug/L	50		112	70-140			
<i>Surrogate: Dibromofluoromethane</i>	54.0		ug/L	50		108	70-140			
<i>Surrogate: Toluene-d8</i>	59.4		ug/L	50		119	70-140			
Matrix Spike Dup (B8L2020-MSD1) Source: 8L12027-01 Prepared & Analyzed: 12/20/18										
tert-Amyl Methyl Ether (TAME)	20.5	0.30	ug/L	20		103	70-130	3.78	30	
Benzene	24.8	0.20	ug/L	20		124	70-130	0.526	30	
tert-Butyl alcohol (TBA)	104	7.0	ug/L	100	12.4	91.9	70-130	13.4	30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332943
Date Received: 12/12/18
Date Reported: 12/28/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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TPHG/BTEX/Oxygenates by GC/MS - Quality Control

Batch B8L2020 - EPA 5030B

Matrix Spike Dup (B8L2020-MSD1) Source: 8L12027-01 Prepared & Analyzed: 12/20/18
Continued

Diisopropyl ether (DIPE)	23.3	0.50	ug/L	20		116	70-130	1.73	30	
Ethylbenzene	25.0	0.20	ug/L	20		125	70-130	0.200	30	
Ethyl-tert-Butyl Ether (ETBE)	21.4	0.40	ug/L	20		107	70-130	3.71	30	
Methyl-tert-Butyl Ether (MTBE)	39.6	0.40	ug/L	40		99.1	70-130	2.01	30	
Toluene	24.4	0.30	ug/L	20		122	70-130	1.70	30	
o-Xylene	23.8	0.30	ug/L	20		119	70-130	0.928	30	
m,p-Xylenes	49.4	0.40	ug/L	40		124	70-130	0.955	30	
Surrogate: 4-Bromofluorobenzene	57.1		ug/L	50		114	70-140			
Surrogate: Dibromofluoromethane	53.8		ug/L	50		108	70-140			
Surrogate: Toluene-d8	59.8		ug/L	50		120	70-140			

Total Metals by ICP Atomic Emission Spectroscopy - Quality Control

Batch B8L1409 - EPA 200.7

Blank (B8L1409-BLK1) Prepared: 12/14/18 Analyzed: 12/18/18

Arsenic	<0.0060	0.0060	mg/L							
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LCS (B8L1409-BS1) Prepared: 12/14/18 Analyzed: 12/18/18

Arsenic	1.02	0.0060	mg/L	1.0		102	80-120		20	
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LCS Dup (B8L1409-BSD1) Prepared: 12/14/18 Analyzed: 12/18/18

Arsenic	1.04	0.0060	mg/L	1.0		104	80-120	1.26	20	
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Duplicate (B8L1409-DUP1) Source: 8L12022-01 Prepared: 12/14/18 Analyzed: 12/18/18

Arsenic	<0.0060	0.0060	mg/L			<0.0070			30	
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332943
Date Received: 12/12/18
Date Reported: 12/28/18

Special Notes

A handwritten signature in black ink, appearing to read 'Viorel Vasile', written over a horizontal line.

Viorel Vasile
Operations Manager

APPENDIX B
Laboratory ELAP Certification



STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

Interim



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: **3/31/2019**

Effective Date: **4/1/2018**

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

APPENDIX C
Report Certification



DEFENSE LOGISTICS AGENCY
INSTALLATION MANAGEMENT – OPERATIONS FOR ENERGY
8725 JOHN J. KINGMAN ROAD
FORT BELVOIR VIRGINIA 22060-6221

January 8, 2019

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 4* of calendar year 2018 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 (571) 767-9813 or carol.devier-heeney@dla.mil.

Sincerely,

Digitally signed by
POTTER.WILLIAM.Y.1394566272
Date: 2019.01.09 06:27:14 -05'00'

William Y. Potter
Chief, Restoration Branch

Enclosure
As stated

cc:
CRWQB Information Technology Unit
Mike Wood, P.E., Senior Engineer, The Source Group, Inc.