January 15, 2018

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, 2017
NPDES No. CAG994004; Compliance File No. CI-7585
Defense Fuel Support Point, Norwalk
15306 Norwalk Boulevard
Norwalk, California

On behalf of The Defense Logistics Agency Installation Operations Energy (DLA), The Source Group, Inc. (SGI) presents this groundwater discharge monitoring report to summarize the National Pollutant Discharge Elimination System (NPDES) monitoring activities for Quarter 4, 2017 at Defense Fuel Support Point (DFSP), Norwalk located at 15306 Norwalk Boulevard, in Norwalk, California (Site).

SUMMARY OF REMEDIATION PROGRESS AND DISCHARGE VOLUMES

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

The GWETS consists of five vertical extraction wells (four 6-inch diameter wells and one 4-inch diameter well), three bag filter vessels, two MYCELX oil separator vessels, three granular activated carbon (GAC) vessels, and two ion exchange vessels. Four wells (GW-2, GW-13, GW-15, and GW-16) were in operation during this reporting period. As summarized in Table 1, the treated groundwater was discharged in accordance with NPDES Permit No. CAG994004, Compliance File No. CI-7585 with the exceptions of the quarterly copper and annual acute toxicity samples collected on November 13, 2017 (see Summary of Non-Compliance section).

The GWETS discharge volumes and field notes for the reporting period are summarized in Tables 2A, 2B, and 2C. Periodic site visits were conducted to assess and optimize system operation and record operational data. The total volume of groundwater extracted by the GWETS during this reporting period was approximately 396,896 gallons. Based on the total petroleum hydrocarbons as diesel (TPHd) results for influent water samples and total groundwater extracted, the mass of TPHd removed by the GWETS was approximately 0.2 pounds (Table 2C) during Quarter 4, 2017.

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

SUMMARY OF COMPLIANCE RESULTS

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

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

SUMMARY OF NON-COMPLIANCE

The GWETS operated in compliance with NPDES No. CAG994004, CI-7585 during this reporting period with the exceptions of the quarterly copper and annual acute toxicity samples collected on November 13, 2017. As indicated on Table 1, SGI was notified by the laboratory on November 16, 2017 regarding the acute toxicity testing result with the GWETS being manually shutdown on November 17, 2017 to inspect the system and implement corrective action measures per SGI's November 30, 2017 *Acute Toxicity Testing Exceedance Report.*

The system was subsequently flushed with duplicate samples being collected on November 20, 2017. The samples were submitted to two independent analytical laboratories as a precautionary measure to help isolate the cause of the exceedance and virtually eliminate the possibility of test method variability and/or some other false positive being the cause of another potential exceedance. The GWETS remained off-line for the remainder of the month pending the results from each of the laboratories which both yielded 100% survival (laboratory reports attached).

Per SGI's November 30, 2017 report, the anomalous November 13, 2017 acute toxicity test result was not repeatable. In subsequent discussions with both state-certified laboratories, as well as an internal review of our sampling policies and procedures, no definitive cause for the initial exceedance could be identified aside from perhaps some solidified carbon and sediment discovered within the primary vessel (i.e., not a probable cause since both the secondary and tertiary vessels were confirmed to have no such issues). Thus, test method variability and/or some other false positive has been determined to be the most likely cause.

To help verify this is the case and in accordance with Section IV, Part A.4 of the MRP, accelerated monthly acute toxicity testing will be conducted for at least three consecutive months with the December 2017 results (100% survival) provided herein. Discharge will therefore continue with regular annual acute toxicity testing resuming once three consecutive monthly results show full compliance with the effluent limitation.

The regular quarterly monitoring result for copper from the sampling event conducted on November 13, 2017 was reported by the laboratory on November 30, 2017 (GWETS already off-line due to the acute toxicity result exceedance), and yielded an analytical result of 160 µg/L which is well above the daily discharge limit of 30 µg/L. The GWETS was temporarily restarted on December 4, 2017 following the completion of ion exchange media change out work to collect a confirmation sample with the system subsequently being shutdown pending the analytical result.

Since the result of the December 4, 2017 resampling event (laboratory report attached) was the same as the initial exceedance, it was suspected that metal fittings within the treatment train were responsible for the elevated copper levels. Ion exchange drums were subsequently installed at the end of the treatment train to help isolate the cause, and the GWETS was again temporarily restated on December 20, 2017 to collect another copper sample with the system subsequently being shutdown pending the analytical result.

As indicated on Table 1, the result from the December 20, 2017 resampling event (laboratory report attached) was 89 µg/L so additional ion exchange media drums were added to the end of the treatment train. The regular 10-micron bag filters were also changed out with 1-micron filters for the purpose of reducing the potential for false positives caused by excessive solids in the water. The above measures were completed on December 28, 2017 with the GWETS again being temporarily restarted the same day to collect a final effluent copper sample for the quarter. Additionally, influent and intermediate samples were collected together with effluent samples for both total and dissolved copper analysis to further isolate the cause.

The attached results from the December 28, 2017 sampling event show full compliance with the copper discharge limit. Per Section I, Part V of the MRP, accelerated monthly copper testing will be conducted during 1st Quarter 2018 with regular quarterly monitoring for this constituent resuming once three consecutive monthly results show full compliance with the effluent limitation.

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:

Table 1 – Summary of Effluent Groundwater Analytical Sampling Results - 4th Quarter 2017
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
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Ms. Mary Jane McIntosh, RAB Community Member
Ms. Tracy Winkler, RAB Community Member

TABLES

TABLE 1
Summary of Effluent Groundwater Analytical Sampling Results - 4th Quarter 2017
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-Cl 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]	**Temp-erature**	**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)	(mL/L)	(mg/L)	(mg/L)	(mg/L)	(% Survival)
10/16/17		GW-2, GW-15, GW-16	6.1	7.17	23.7	<100	<0.40	<7.0	<6.0	--	--	--	--	--	--	--	--	--	--	--	--
11/13/17		GW-2, GW-15, GW-16	7.2	7.61	18.7	<100	<0.40	<7.0	<6.0	<5.0	**160** [B]	**0.26 J**	<0.027	<0.1 [C]	**1,000**	**13**	<0.1	<0.05	<0.15	<5.0	**0** [D]
11/20/17	1,2	GW-2, GW-15, GW-16	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**100**
12/04/17	3,4	GW-2, GW-13, GW-15, GW-16	6.2	--	--	--	--	--	--	--	**160** [B]	--	--	--	--	--	--	--	--	-	**100**
12/11/17		GW-2, GW-13, GW-15, GW-16	5.3	7.51	18.7	<100	<0.40	<7.0	<6.0	--	--	--	--	--	--	--	--	--	--	-	--
12/20/17	5	GW-2, GW-13, GW-15, GW-16	9.8	--	--	--	--	--	--	--	**89** [B]	--	--	--	--	--	--	--	--	--	--
12/28/17	6,7	GW-2, GW-13, GW-15, GW-16	12.8	--	--	--	--	--	--	--	<7.0	--	--	--	--	--	--	--	--	--	--

Legend / Notes:

GWETS = Groundwater extraction and treatment system
TPH = Total petroleum hydrocarbons (gasoline range organics [GRO] and diesel range organics [DRO])
MTBE = Methyl tertiary-butyl ether
TBA = tertiary-Butyl alcohol
MBAS = Methylene blue active substances
BOD = Biochemical oxygen demand
gpm = Gallons per minute
mg/L = Micrograms per liter
mg/L = Milligrams per liter
NTU = Nephelometric Turbidity Units
mL/L = Milliliters per liter
<0.40 = Not detected at or above the Method Detection Limit (MDL) shown.
-- = Not measured or analyzed
J = Laboratory estimated value since analyte detected below Method Reporting Limit (MRL) but above MDL.

A = Measured in the field using an Oakton® pH Tester Model 30.
B = Analytical result over specified daily maximum discharge limit with corrective actions being implemented, as discussed in Notes 1 through 7 below.
C = Measured in the field using a HACH® Chlorine Test Kit Model CN-70.
D = See SGI's November 30, 2017 *Acute Toxicity Testing Exceedance Report* for notification details, investigative measures and follow up actions taken and planned to help ensure continued permit compliance.

1 = SGI notified by laboratory on 11/16/17 regarding annual acute toxicity testing result from 11/13/17 sampling event (GWETS manually shutdown on 11/17/17 for inspection and implementation of corrective action measures per SGI's 11/30/17 report).
2 = GWETS manually shutdown on 11/20/17 following the collection of duplicate confirmation acute toxicity samples as a precautionary measure pending the analytical results which both yielded 100% survival (laboratory reports attached).
3 = Additional monthly acute toxicity test sample collected as part of accelerated permit compliance monitoring required per Section IV, Part A.4 of Monitoring and Reporting Program No. CI-7585 (MRP).
4 = Analytical result from 11/13/17 quarterly effluent copper sampling event reported by laboratory on 11/30/17 (GWETS already off-line per SGI's 11/30/17 report) with system temporarily restarted on 12/4/17 following the completion of ion exchange media change out work to collect a confirmation effluent copper sample followed by shutting down pending the analytical result.
5 = Additional effluent copper sample collected after installing ion exchange drums at end of treatment train based on 12/4/17 analytical result (laboratory report attached).
6 = Additional effluent copper sample collected after installing finer bag filters (10 micron to 1 micron) and another set of ion exchange drums to end of treatment train based on 12/20/17 analytical result (laboratory report attached).
7 = Accelerated monthly permit compliance monitoring for copper to be conducted during 1st Quarter 2018 as required per Section I, Part V 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)
10/1/17	Off line		504,110	4,208,957	24,533	75,815	11,135,575	4,713,067	77,316,317	0	--	9,945
10/2/17	Off line		504,110	4,208,957	24,533	75,815	11,135,575	4,713,067	77,316,317	0	--	9,945
10/3/17	Off line		504,110	4,208,957	24,533	75,815	11,135,575	4,713,067	77,316,317	0	--	9,945
10/4/17	Off line		504,110	4,208,957	24,533	75,815	11,135,575	4,713,067	77,316,317	0	--	9,945
10/5/17	Off line		504,110	4,208,957	24,533	75,815	11,135,575	4,713,067	77,316,317	0	--	9,945
10/6/17	Off line		504,110	4,208,957	24,533	75,815	11,135,575	4,713,067	77,316,317	0	--	9,945
10/7/17	Off line		504,110	4,208,957	24,533	75,815	11,135,575	4,713,067	77,316,317	0	--	9,945
10/8/17	Off line		504,110	4,208,957	24,533	75,815	11,135,575	4,713,067	77,316,317	0	--	9,945
10/9/17	Technician	1	504,110	4,208,957	24,533	75,815	11,135,575	4,713,067	77,316,317	0	--	9,945
10/10/17	*		506,268	4,208,957	27,680	78,734	11,141,641	4,715,225	77,324,253	7,936	--	9,945
10/11/17	*		508,425	4,208,957	30,826	81,653	11,147,706	4,717,382	77,332,188	7,936	--	9,945
10/12/17	*		510,583	4,208,957	33,973	84,572	11,153,772	4,719,540	77,340,124	7,936	--	9,945
10/13/17	*		512,740	4,208,957	37,120	87,491	11,159,837	4,721,697	77,348,059	7,936	--	9,945
10/14/17	*		514,898	4,208,957	40,266	90,410	11,165,903	4,723,855	77,355,995	7,936	--	9,945
10/15/17	*		517,055	4,208,957	43,413	93,329	11,171,968	4,726,012	77,363,930	7,936	--	9,945
10/16/17	Technician	2	519,460	4,208,957	46,920	96,582	11,178,729	4,728,417	77,372,775	8,845	64	9,945
10/17/17	*		521,686	4,208,957	50,736	99,945	11,185,908	4,730,643	77,381,881	9,106	--	9,945
10/18/17	*		523,912	4,208,957	54,553	103,307	11,193,087	4,732,869	77,390,986	9,106	--	9,945
10/19/17	*		526,138	4,208,957	58,369	106,670	11,200,266	4,735,095	77,400,092	9,106	--	9,945
10/20/17	*		528,364	4,208,957	62,185	110,033	11,207,445	4,737,321	77,409,198	9,106	--	9,945
10/21/17	*		530,590	4,208,957	66,002	113,396	11,214,624	4,739,547	77,418,303	9,106	--	9,945
10/22/17	*		532,815	4,208,957	69,818	116,758	11,221,803	4,741,772	77,427,409	9,106	--	9,945
10/23/17	Technician		534,995	4,208,957	73,555	120,051	11,228,833	4,743,952	77,436,325	8,916	--	9,945
10/24/17	*		535,582	4,208,957	74,588	123,377	11,233,192	4,744,539	77,444,834	8,509	--	9,945
10/25/17	*		536,169	4,208,957	75,622	126,703	11,237,552	4,745,126	77,453,342	8,509	--	9,945
10/26/17	*		536,756	4,208,957	76,655	130,029	11,241,911	4,745,713	77,461,851	8,509	--	9,945
10/27/17	*		537,343	4,208,957	77,689	133,355	11,246,270	4,746,300	77,470,360	8,509	--	9,945
10/28/17	*		537,930	4,208,957	78,722	136,680	11,250,629	4,746,887	77,478,868	8,509	--	9,945
10/29/17	*		538,517	4,208,957	79,755	140,006	11,254,989	4,747,474	77,487,377	8,509	--	9,945
10/30/17	*		539,104	4,208,957	80,789	143,332	11,259,348	4,748,061	77,495,885	8,509	--	9,945
10/31/17	Technician	3	539,642	4,208,957	81,736	146,381	11,263,344	4,748,599	77,503,685	7,800	--	9,945

Cumulative Groundwater Discharged by the GWETS to Date (gallons)							
Period	October	Quarter 1, 2017	Quarter 2, 2017	Quarter 3, 2017	Quarter 4, 2017	2017 to Date	April 1996 to Date
Volume	187,368	467,663	487,446	516,961	187,368	1,659,438	77,503,685

Cumulative Mass DRO Removed by the GWETS [A] (lb)			
Period	October	Quarter 4 to Date	April 1996 to Date
Mass	0.11	0.11	9,945.1

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

Legend / Notes:

1 = GWETS restarted (off-line since 9/25/17) following completion of groundwater monitoring and sampling activities.

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

3 = Replaced GW-15 totalizer after taking final reading as a precautionary measure based on assessment of gauge condition during routine maintenance inspection.

Groundwater extraction wells on line this month: GW-2, 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 sample collected on: 10/16/17 (laboratory report attached).

-- = Not applicable

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

TABLE 2B

Groundwater Extraction and Treatment System Operations Summary - 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)
11/1/17	*		541,624	4,208,957	3,166	149,802	11,269,931	4,750,581	77,511,766	8,081	--	9,945
11/2/17	*		543,606	4,208,957	6,332	153,223	11,276,518	4,752,563	77,519,847	8,081	--	9,945
11/3/17	*		545,587	4,208,957	9,498	156,643	11,283,104	4,754,544	77,527,928	8,081	--	9,945
11/4/17	*		547,569	4,208,957	12,664	160,064	11,289,691	4,756,526	77,536,009	8,081	--	9,945
11/5/17	*		549,551	4,208,957	15,830	163,485	11,296,278	4,758,508	77,544,090	8,081	--	9,945
11/6/17	*		551,533	4,208,957	18,996	166,906	11,302,865	4,760,490	77,552,171	8,081	--	9,945
11/7/17	Technician		553,556	4,208,957	22,160	170,398	11,309,521	4,762,513	77,560,420	8,249	--	9,945
11/8/17	*		555,066	4,208,957	28,192	173,765	11,318,920	4,764,023	77,571,079	10,659	--	9,945
11/9/17	*		556,575	4,208,957	34,224	177,132	11,328,319	4,765,532	77,581,737	10,659	--	9,945
11/10/17	*		558,085	4,208,957	40,256	180,498	11,337,718	4,767,042	77,592,396	10,659	--	9,945
11/11/17	*		559,595	4,208,957	46,289	183,865	11,347,117	4,768,552	77,603,055	10,659	--	9,945
11/12/17	*		561,105	4,208,957	52,321	187,232	11,356,516	4,770,062	77,613,713	10,659	--	9,945
11/13/17	Technician	1,2,3	562,565	4,208,957	58,156	190,489	11,365,608	4,771,522	77,624,024	10,311	78	9,945
11/14/17	*		563,376	4,208,957	62,897	193,565	11,373,425	4,772,333	77,633,871	9,847	--	9,945
11/15/17	*		564,187	4,208,957	67,638	196,641	11,381,241	4,773,144	77,643,718	9,847	--	9,945
11/16/17	*		564,998	4,208,957	72,379	199,716	11,389,058	4,773,955	77,653,565	9,847	--	9,945
11/17/17	Technician	4	565,920	4,208,957	77,768	203,213	11,397,944	4,774,877	77,664,759	11,194	--	9,945
11/18/17	*		566,877	4,208,957	79,625	206,461	11,403,049	4,775,834	77,675,529	10,770	--	9,945
11/19/17	*		567,834	4,208,957	81,481	209,710	11,408,154	4,776,791	77,686,298	10,770	--	9,945
11/20/17	Technician	5	568,635	4,208,957	83,035	212,428	11,412,426	4,777,592	77,695,310	9,012	--	9,945
11/21/17	Off line		568,635	4,208,957	83,035	212,428	11,412,426	4,777,592	77,695,310	0	--	9,945
11/22/17	Off line		568,635	4,208,957	83,035	212,428	11,412,426	4,777,592	77,695,310	0	--	9,945
11/23/17	Off line		568,635	4,208,957	83,035	212,428	11,412,426	4,777,592	77,695,310	0	--	9,945
11/24/17	Off line		568,635	4,208,957	83,035	212,428	11,412,426	4,777,592	77,695,310	0	--	9,945
11/25/17	Off line		568,635	4,208,957	83,035	212,428	11,412,426	4,777,592	77,695,310	0	--	9,945
11/26/17	Off line		568,635	4,208,957	83,035	212,428	11,412,426	4,777,592	77,695,310	0	--	9,945
11/27/17	Off line		568,635	4,208,957	83,035	212,428	11,412,426	4,777,592	77,695,310	0	--	9,945
11/28/17	Off line		568,635	4,208,957	83,035	212,428	11,412,426	4,777,592	77,695,310	0	--	9,945
11/29/17	Off line		568,635	4,208,957	83,035	212,428	11,412,426	4,777,592	77,695,310	0	--	9,945
11/30/17	Technician	6	568,635	4,208,957	83,035	212,428	11,412,426	4,777,592	77,695,310	0	--	9,945

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	November	Quarter 1, 2017	Quarter 2, 2017	Quarter 3, 2017	Quarter 4, 2017	2017 to Date	April 1996 to Date
Volume	191,625	467,663	487,446	516,961	378,993	1,851,063	77,695,310

Cumulative Mass DRO Removed by the GWETS [A] (lb)			
Period	November	Quarter 4 to Date	April 1996 to Date
Mass	0.11	0.22	9,945.3

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

Legend / Notes:

1 = Collected monthly process and intermediate samples for laboratory analysis.
2 = Collected quarterly and annual effluent samples for laboratory analysis.
3 = Measured residual chlorine in the field using HACH Test Kit Model CN-70.
4 = GWETS temporarily off-line to conduct system inspection and carbon change out work per SGI's November 30, 2017 *Acute Toxicity Testing Exceedance Report.*
5 = Collected confirmation acute toxicity samples followed by manually shutting down the GWETS per SGI's November 30, 2017 *Acute Toxicity Testing Exceedance Report.*
6 = GWETS left off-line to conduct ion exchange media change out work based on quarterly copper result (see Table 1, and replaced GW-2 and GW-13 totalizers as part of routine maintenance.

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: 11/13/17 (laboratory report attached).
-- = Not applicable

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

Groundwater extraction wells on line this month: GW-2, GW-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)
12/1/17	Off line		0	0	83,035	212,428	11,412,426	4,777,592	77,695,310	0	--	9,945
12/2/17	Off line		0	0	83,035	212,428	11,412,426	4,777,592	77,695,310	0	--	9,945
12/3/17	Off line		0	0	83,035	212,428	11,412,426	4,777,592	77,695,310	0	--	9,945
12/4/17	Technician	1,2	665	780	83,880	213,313	11,414,156	4,779,037	77,698,280	2,970	--	9,945
12/5/17	Off line		665	780	83,880	213,313	11,414,156	4,779,037	77,698,280	0	--	9,945
12/6/17	Off line		665	780	83,880	213,313	11,414,156	4,779,037	77,698,280	0	--	9,945
12/7/17	Off line		665	780	83,880	213,313	11,414,156	4,779,037	77,698,280	0	--	9,945
12/8/17	Off line		665	780	83,880	213,313	11,414,156	4,779,037	77,698,280	0	--	9,945
12/9/17	Off line		665	780	83,880	213,313	11,414,156	4,779,037	77,698,280	0	--	9,945
12/10/17	Off line		665	780	83,880	213,313	11,414,156	4,779,037	77,698,280	0	--	9,945
12/11/17	Technician	3,4,5	1,310	1,482	84,354	214,102	11,415,419	4,781,829	77,700,825	2,545	78	9,945
12/12/17	Off line		1,310	1,482	84,354	214,102	11,415,419	4,781,829	77,700,825	0	--	9,945
12/13/17	Off line		1,310	1,482	84,354	214,102	11,415,419	4,781,829	77,700,825	0	--	9,945
12/14/17	Off line		1,310	1,482	84,354	214,102	11,415,419	4,781,829	77,700,825	0	--	9,945
12/15/17	Off line		1,310	1,482	84,354	214,102	11,415,419	4,781,829	77,700,825	0	--	9,945
12/16/17	Off line		1,310	1,482	84,354	214,102	11,415,419	4,781,829	77,700,825	0	--	9,945
12/17/17	Off line		1,310	1,482	84,354	214,102	11,415,419	4,781,829	77,700,825	0	--	9,945
12/18/17	Off line		1,310	1,482	84,354	214,102	11,415,419	4,781,829	77,700,825	0	--	9,945
12/19/17	Off line		1,310	1,482	84,354	214,102	11,415,419	4,781,829	77,700,825	0	--	9,945
12/20/17	Technician	6	1,310	2,412	86,202	215,616	11,418,781	4,782,759	77,705,523	4,698	--	9,945
12/21/17	Off line		1,310	2,412	86,202	215,616	11,418,781	4,782,759	77,705,523	0	--	9,945
12/22/17	Off line		1,310	2,412	86,202	215,616	11,418,781	4,782,759	77,705,523	0	--	9,945
12/23/17	Off line		1,310	2,412	86,202	215,616	11,418,781	4,782,759	77,705,523	0	--	9,945
12/24/17	Off line		1,310	2,412	86,202	215,616	11,418,781	4,782,759	77,705,523	0	--	9,945
12/25/17	Off line		1,310	2,412	86,202	215,616	11,418,781	4,782,759	77,705,523	0	--	9,945
12/26/17	Off line		1,310	2,412	86,202	215,616	11,418,781	4,782,759	77,705,523	0	--	9,945
12/27/17	Off line		1,310	2,412	86,202	215,616	11,418,781	4,782,759	77,705,523	0	--	9,945
12/28/17	Technician	6,7	1,310	3,663	88,317	217,779	11,423,059	4,784,010	77,713,213	7,690	--	9,945
12/29/17	Off line		1,310	3,663	88,317	217,779	11,423,059	4,784,010	77,713,213	0	--	9,945
12/30/17	Off line		1,310	3,663	88,317	217,779	11,423,059	4,784,010	77,713,213	0	--	9,945
12/31/17	Off line		1,310	3,663	88,317	217,779	11,423,059	4,784,010	77,713,213	0	--	9,945

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	December	Quarter 1, 2017	Quarter 2, 2017	Quarter 3, 2017	Quarter 4, 2017	2017 to Date	April 1996 to Date
Volume	17,903	467,663	487,446	516,961	396,896	1,868,966	77,713,213

Cumulative Mass DRO Removed by the GWETS [A] (lb)			
Period	December	Quarter 4 to Date	April 1996 to Date
Mass	0.01	0.23	9,945.3

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

Legend / Notes:

1 = Completed ion exchange media change out work and temporarily restarted GWETS to collect confirmation effluent copper sample followed by system shutdown pending analytical result.
2 = Collected monthly acute toxicity testing sample for laboratory analysis as part of required accelerated permit compliance monitoring (see Table 1).
3 = Installed ion exchange drums to the end of the treatment train based on 12/4/17 effluent copper result and temporarily restarted system to flush lines in advance of scheduled resampling.
4 = Collected monthly influent, intermediate, and effluent samples for laboratory analysis.
5 = Pump in well GW-2 disconnected and determined to require replacement.
6 = Temporarily restarted system to collect another confirmation effluent copper sample.
7 = Replaced system bag filters (10 to 1 micron) and added another set of ion exchange drums to the end of the treatment train based on 12/20/17 effluent copper 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 results for DRO (if not detected, half the detection limit is used) from sample collected on: 12/11/17 (laboratory report attached).
-- = Not applicable

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

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

APPENDIX A

Laboratory Analytical Reports and Chain-of-Custody Documents

AMERICAN ANALYTICS

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

October 24, 2017

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

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

A5332328 / 7J16005

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 10/16/17 13:08 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332328
Date Received: 10/16/17
Date Reported: 10/24/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B TPHGASOLINEBTEXOXY					
Effluent	7J16005-01	Water	5	10/16/17 11:15	10/16/17 13:08
Arsenic Total EPA 200.7					
Effluent	7J16005-01	Water	5	10/16/17 11:15	10/16/17 13:08
Diesel Range Organics 8015M					
Effluent	7J16005-01	Water	5	10/16/17 11:15	10/16/17 13:08

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5332328
Project No:	04-NDLA-013	**Date Received:**	10/16/17
Project Name:	DFSP Norwalk GWETS NPDES Monthly	**Date Reported:**	10/24/17
Method:	TPHG/BTEX/Oxygenates by GC/MS	**Units:**	ug/L

Date Sampled:	10/16/17		
Date Prepared:	10/18/17		
Date Analyzed:	10/18/17		
AA ID No:	7J16005-01		
Client ID No:	Effluent		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

8260B TPHGASOLINEBTEXOXY (EPA 8260B)

tert-Amyl Methyl Ether (TAME)	<0.30	0.30	2.0
Benzene	<0.20	0.20	0.50
tert-Butyl alcohol (TBA)	<7.0	7.0	10
Diisopropyl ether (DIPE)	<0.50	0.50	2.0
Ethylbenzene	<0.20	0.20	0.50
Ethyl-tert-Butyl Ether (ETBE)	<0.40	0.40	2.0
Gasoline Range Organics (GRO)	<40	40	100
Methyl-tert-Butyl Ether (MTBE)	<0.40	0.40	2.0
Toluene	<0.30	0.30	0.50
o-Xylene	<0.30	0.30	0.50
m,p-Xylenes	<0.40	0.40	1.0

Surrogates		**%REC Limits**
4-Bromofluorobenzene	94%	70-140
Dibromofluoromethane	112%	70-140
Toluene-d8	94%	70-140

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5332328
Project No:	04-NDLA-013	**Date Received:**	10/16/17
Project Name:	DFSP Norwalk GWETS NPDES Monthly	**Date Reported:**	10/24/17
Method:	Diesel Range Organics by GC/FID	**Units:**	ug/L

Date Sampled:	10/16/17		
Date Prepared:	10/17/17		
Date Analyzed:	10/18/17		
AA ID No:	7J16005-01		
Client ID No:	Effluent		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL
Diesel Range Organics 8015M (EPA 8015M)			
Diesel Range Organics as Diesel	<60	60	100

Surrogates		**%REC Limits**
o-Terphenyl	76%	50-150

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: A5332328
Date Received: 10/16/17
Date Reported: 10/24/17

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
Arsenic Total EPA 200.7 (EPA 200.7)									
7J16005-01	Effluent	10/16/17	10/17/17	10/20/17	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: A5332328
Date Received: 10/16/17
Date Reported: 10/24/17

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
Batch B7J1829 - EPA 5030B										
Blank (B7J1829-BLK1)				Prepared & Analyzed: 10/18/17						
tert-Amyl Methyl Ether (TAME)	<0.30	0.30	ug/L							
Benzene	<0.20	0.20	ug/L							
tert-Butyl alcohol (TBA)	<7.0	7.0	ug/L							
Diisopropyl ether (DIPE)	<0.50	0.50	ug/L							
Ethylbenzene	<0.20	0.20	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	<0.40	0.40	ug/L							
Gasoline Range Organics (GRO)	<40	40	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<0.40	0.40	ug/L							
Toluene	<0.30	0.30	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.40	0.40	ug/L							
Surrogate: 4-Bromofluorobenzene	*49.2*		*ug/L*	*50*		*98.4*	*70-140*			
Surrogate: Dibromofluoromethane	*53.5*		*ug/L*	*50*		*107*	*70-140*			
Surrogate: Toluene-d8	*47.6*		*ug/L*	*50*		*95.2*	*70-140*			
LCS (B7J1829-BS1)				Prepared & Analyzed: 10/18/17						
tert-Amyl Methyl Ether (TAME)	**18.9**	0.30	ug/L	20		94.4	70-130			
Benzene	**20.6**	0.20	ug/L	20		103	75-125			
tert-Butyl alcohol (TBA)	**88.3**	7.0	ug/L	100		88.3	70-130			
Diisopropyl ether (DIPE)	**20.4**	0.50	ug/L	20		102	70-130			
Ethylbenzene	**21.4**	0.20	ug/L	20		107	75-125			
Ethyl-tert-Butyl Ether (ETBE)	**19.9**	0.40	ug/L	20		99.3	70-130			
Gasoline Range Organics (GRO)	**435**	40	ug/L	500		87.0	70-130			
Methyl-tert-Butyl Ether (MTBE)	**37.1**	0.40	ug/L	40		92.7	70-135			
Toluene	**20.3**	0.30	ug/L	20		102	75-125			
o-Xylene	**20.2**	0.30	ug/L	20		101	75-125			
m,p-Xylenes	**41.5**	0.40	ug/L	40		104	70-130			
Surrogate: 4-Bromofluorobenzene	*48.8*		*ug/L*	*50*		*97.7*	*70-140*			
Surrogate: Dibromofluoromethane	*46.0*		*ug/L*	*50*		*92.0*	*70-140*			
Surrogate: Toluene-d8	*45.9*		*ug/L*	*50*		*91.9*	*70-140*			
Matrix Spike (B7J1829-MS1)				**Source: 7J13004-02**		Prepared & Analyzed: 10/18/17				

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: A5332328
Date Received: 10/16/17
Date Reported: 10/24/17

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
Batch B7J1829 - EPA 5030B										
Matrix Spike (B7J1829-MS1) Continued				**Source: 7J13004-02**			Prepared & Analyzed: 10/18/17			
tert-Amyl Methyl Ether (TAME)	**19.8**	0.30	ug/L	20		98.8	70-130			
Benzene	**21.9**	0.20	ug/L	20		110	70-130			
tert-Butyl alcohol (TBA)	**91.7**	7.0	ug/L	100		91.7	70-130			
Diisopropyl ether (DIPE)	**21.8**	0.50	ug/L	20		109	70-130			
Ethylbenzene	**21.4**	0.20	ug/L	20		107	70-130			
Ethyl-tert-Butyl Ether (ETBE)	**21.6**	0.40	ug/L	20		108	70-130			
Methyl-tert-Butyl Ether (MTBE)	**40.1**	0.40	ug/L	40		100	70-130			
Toluene	**23.1**	0.30	ug/L	20		116	70-130			
o-Xylene	**20.0**	0.30	ug/L	20		100	70-130			
m,p-Xylenes	**41.4**	0.40	ug/L	40		104	70-130			
Surrogate: 4-Bromofluorobenzene	*49.3*		*ug/L*	*50*		*98.6*	*70-140*			
Surrogate: Dibromofluoromethane	*47.8*		*ug/L*	*50*		*95.7*	*70-140*			
Surrogate: Toluene-d8	*45.3*		*ug/L*	*50*		*90.7*	*70-140*			
Matrix Spike Dup (B7J1829-MSD1)				**Source: 7J13004-02**			Prepared & Analyzed: 10/18/17			
tert-Amyl Methyl Ether (TAME)	**19.5**	0.30	ug/L	20		97.4	70-130	1.48	30	
Benzene	**21.8**	0.20	ug/L	20		109	70-130	0.687	30	
tert-Butyl alcohol (TBA)	**88.4**	7.0	ug/L	100		88.4	70-130	3.61	30	
Diisopropyl ether (DIPE)	**21.8**	0.50	ug/L	20		109	70-130	0.275	30	
Ethylbenzene	**23.1**	0.20	ug/L	20		115	70-130	7.78	30	
Ethyl-tert-Butyl Ether (ETBE)	**21.2**	0.40	ug/L	20		106	70-130	2.10	30	
Methyl-tert-Butyl Ether (MTBE)	**40.4**	0.40	ug/L	40		101	70-130	0.572	30	
Toluene	**22.8**	0.30	ug/L	20		114	70-130	1.17	30	
o-Xylene	**21.5**	0.30	ug/L	20		108	70-130	7.27	30	
m,p-Xylenes	**43.9**	0.40	ug/L	40		110	70-130	5.70	30	
Surrogate: 4-Bromofluorobenzene	*48.5*		*ug/L*	*50*		*97.0*	*70-140*			
Surrogate: Dibromofluoromethane	*48.5*		*ug/L*	*50*		*97.0*	*70-140*			
Surrogate: Toluene-d8	*48.9*		*ug/L*	*50*		*97.8*	*70-140*			
Diesel Range Organics by GC/FID - Quality Control										
Batch B7J1729 - Default Prep GenChem										
Blank (B7J1729-BLK1)							Prepared: 10/17/17 Analyzed: 10/18/17			

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: A5332328
Date Received: 10/16/17
Date Reported: 10/24/17

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Diesel Range Organics by GC/FID - Quality Control										
Batch B7J1729 - Default Prep GenChem										
Blank (B7J1729-BLK1) Continued				Prepared: 10/17/17 Analyzed: 10/18/17						
Diesel Range Organics as Diesel	<60	60	ug/L							
Surrogate: o-Terphenyl	*30.3*		*ug/L*	*40*		*75.8*	*50-150*			
LCS (B7J1729-BS1)				Prepared: 10/17/17 Analyzed: 10/18/17						
Diesel Range Organics as Diesel	**706**	60	ug/L	800		88.2	75-125		30	
Surrogate: o-Terphenyl	*30.6*		*ug/L*	*40*		*76.6*	*50-150*			
LCS Dup (B7J1729-BSD1)				Prepared: 10/17/17 Analyzed: 10/18/17						
Diesel Range Organics as Diesel	**862**	60	ug/L	800		108	75-125	20.0	30	
Surrogate: o-Terphenyl	*36.6*		*ug/L*	*40*		*91.6*	*50-150*			
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control										
Batch B7J1731 - EPA 200.7										
Blank (B7J1731-BLK1)				Prepared: 10/17/17 Analyzed: 10/20/17						
Arsenic	<0.0060	0.0060	mg/L							
LCS (B7J1731-BS1)				Prepared: 10/17/17 Analyzed: 10/20/17						
Arsenic	**0.982**	0.0060	mg/L	1.0		98.2	80-120		20	
LCS Dup (B7J1731-BSD1)				Prepared: 10/17/17 Analyzed: 10/20/17						
Arsenic	**0.977**	0.0060	mg/L	1.0		97.7	80-120	0.531	20	
Duplicate (B7J1731-DUP1)		**Source: 7J16006-01**		Prepared: 10/17/17 Analyzed: 10/20/17						
Arsenic	**0.0305**	0.0060	mg/L		0.0306			0.327	30	
Matrix Spike (B7J1731-MS1)		**Source: 7J16005-01**		Prepared: 10/17/17 Analyzed: 10/20/17						
Arsenic	**0.926**	0.0060	mg/L	1.0	<0.0070	92.6	75-125		20	
Matrix Spike Dup (B7J1731-MSD1)		**Source: 7J16005-01**		Prepared: 10/17/17 Analyzed: 10/20/17						
Arsenic	**0.922**	0.0060	mg/L	1.0	<0.0070	92.2	75-125	0.379	20	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5332328
Project No:	04-NDLA-013	**Date Received:**	10/16/17
Project Name:	DFSP Norwalk GWETS NPDES Monthly	**Date Reported:**	10/24/17

Special Notes

Viorel Vasile
Operations Manager

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

13847

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

Client:	APEX/The Source Group, Inc.	**Project Name / No.:**	DFSP - Norwalk / 091-NDLA/ Monthly NPDES	**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)

Please enter the TAT Turnaround Codes ** below

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	TPHd 8015M	TPHg/MTBE/TBA 8260B	Arsenic 200.7	Special Instructions
Effluent	7J16005-01	10-16-17	1115	Water	5	✓	✓	✓	Report J-Flags

REVISED Date 10/16/17 Time 1345 Sign: TAT N Days

SAMPLE INTEGRITY INTACT Y N TEMP 2C

Relinquished by	Date	Time	Received by
Glenn Androsko	10-16-17	11:45	
Relinquished by	10/16/17	1308	Received by
Relinquished by	Date	Time	Received by

AS332328/7J16005

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.

AMERICAN ANALYTICS

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

November 30, 2017

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

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

A5332359 / 7K13011

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/13/17 13:38 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332359
Date Received: 11/13/17
Date Reported: 11/30/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B TPHGASOLINEBTEXOXY					
Effluent	7K13011-01	Water	5	11/13/17 10:34	11/13/17 13:38
Effluent-Dup	7K13011-02	Water	5	11/13/17 10:35	11/13/17 13:38
Arsenic Total EPA 200.7					
Effluent	7K13011-01	Water	5	11/13/17 10:34	11/13/17 13:38
BOD SM5210B					
Effluent	7K13011-01	Water	5	11/13/17 10:34	11/13/17 13:38
Copper Total EPA 200.7					
Effluent	7K13011-01	Water	5	11/13/17 10:34	11/13/17 13:38
Diesel Range Organics 8015M					
Effluent	7K13011-01	Water	5	11/13/17 10:34	11/13/17 13:38
Effluent-Dup	7K13011-02	Water	5	11/13/17 10:35	11/13/17 13:38
HEM Oil and Grease 1664					
Effluent	7K13011-01	Water	5	11/13/17 10:34	11/13/17 13:38
MBAS SM5540C					
Effluent	7K13011-01	Water	5	11/13/17 10:34	11/13/17 13:38

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: A5332359
Date Received: 11/13/17
Date Reported: 11/30/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
Phenols 420.1					
Effluent	7K13011-01	Water	5	11/13/17 10:34	11/13/17 13:38
SS SM2540F					
Effluent	7K13011-01	Water	5	11/13/17 10:34	11/13/17 13:38
Sulfide SM4500-S=D					
Effluent	7K13011-01	Water	5	11/13/17 10:34	11/13/17 13:38
TDS SM2540C					
Effluent	7K13011-01	Water	5	11/13/17 10:34	11/13/17 13:38
TSS SM2540D					
Effluent	7K13011-01	Water	5	11/13/17 10:34	11/13/17 13:38
Turbidity 180.1					
Effluent	7K13011-01	Water	5	11/13/17 10:34	11/13/17 13:38

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: A5332359
Date Received: 11/13/17
Date Reported: 11/30/17

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MRL
BOD SM5210B (SM5210B) *								
7K13011-01	Effluent	11/13/17	11/15/17	11/20/17	1	<5.0	mg/L	5
HEM Oil and Grease 1664 (EPA 1664)								
7K13011-01	Effluent	11/13/17	11/20/17	11/21/17	1	<3.0	mg/L	5
MBAS SM5540C (SM5540C) *								
7K13011-01	Effluent	11/13/17	11/14/17	11/14/17	1	<0.050	mg/L	0.05
Phenols 420.1 (EPA 420.1) *								
7K13011-01	Effluent	11/13/17	11/15/17	11/15/17	1	<0.15	mg/L	0.3
SS SM2540F (SM2540F)								
7K13011-01	Effluent	11/13/17	11/13/17	11/13/17	1	<0.100	mL/L	0.1
Sulfide SM4500-S=D (SM4500-S=D)								
7K13011-01	Effluent	11/13/17	11/13/17	11/13/17	1	<0.027	mg/L	0.05
TDS SM2540C (SM2540C)								
7K13011-01	Effluent	11/13/17	11/15/17	11/16/17	100	**1000**	mg/L	10
TSS SM2540D (SM2540D)								
7K13011-01	Effluent	11/13/17	11/17/17	11/17/17	1	**13**	mg/L	10
Turbidity 180.1 (EPA 180.1)								
7K13011-01	Effluent	11/13/17	11/14/17	11/14/17	1	**0.26** J	NTU	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: General Chemistry Analyses

AA Project No: A5332359
Date Received: 11/13/17
Date Reported: 11/30/17

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
BOD SM5210B (SM5210B) *									
7K13011-01	Effluent	11/13/17	11/15/17	11/20/17	1	<5.0	mg/L	5	5
HEM Oil and Grease 1664 (EPA 1664)									
7K13011-01	Effluent	11/13/17	11/20/17	11/21/17	1	<3.0	mg/L	3	5
MBAS SM5540C (SM5540C) *									
7K13011-01	Effluent	11/13/17	11/14/17	11/14/17	1	<0.050	mg/L	0.05	0.05
Phenols 420.1 (EPA 420.1) *									
7K13011-01	Effluent	11/13/17	11/15/17	11/15/17	1	<0.15	mg/L	0.15	0.3
SS SM2540F (SM2540F)									
7K13011-01	Effluent	11/13/17	11/13/17	11/13/17	1	<0.100	mL/L	0.1	0.1
Sulfide SM4500-S=D (SM4500-S=D)									
7K13011-01	Effluent	11/13/17	11/13/17	11/13/17	1	<0.027	mg/L	0.027	0.05
TDS SM2540C (SM2540C)									
7K13011-01	Effluent	11/13/17	11/15/17	11/16/17	100	**1000**	mg/L	6.2	10
TSS SM2540D (SM2540D)									
7K13011-01	Effluent	11/13/17	11/17/17	11/17/17	1	**13**	mg/L	5	10
Turbidity 180.1 (EPA 180.1)									
7K13011-01	Effluent	11/13/17	11/14/17	11/14/17	1	**0.26**J	NTU	0.168	1

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5332359
Project No:	04-NDLA-013	**Date Received:**	11/13/17
Project Name:	DFSP Norwalk GWETS NPDES Annually	**Date Reported:**	11/30/17
Method:	TPHG/BTEX/Oxygenates by GC/MS	**Units:**	ug/L

Date Sampled:	11/13/17	11/13/17		
Date Prepared:	11/20/17	11/20/17		
Date Analyzed:	11/20/17	11/20/17		
AA ID No:	7K13011-01	7K13011-02		
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
Surrogates				**%REC Limits**
4-Bromofluorobenzene	109%	110%		70-140
Dibromofluoromethane	135%	135%		70-140
Toluene-d8	103%	103%		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 Annually
Method: Diesel Range Organics by GC/FID

AA Project No: A5332359
Date Received: 11/13/17
Date Reported: 11/30/17
Units: ug/L

Date Sampled:	11/13/17	11/13/17		
Date Prepared:	11/21/17	11/21/17		
Date Analyzed:	11/21/17	11/21/17		
AA ID No:	7K13011-01	7K13011-02		
Client ID No:	Effluent	Effluent-Dup		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
Diesel Range Organics 8015M (EPA 8015M)				
Diesel Range Organics as Diesel	<60	<60	60	100
Surrogates			**%REC Limits**	
o-Terphenyl	61%	56%	50-150	

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: Total Metals by ICP Atomic Emission Spectroscopy

AA Project No: A5332359
Date Received: 11/13/17
Date Reported: 11/30/17

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
Arsenic Total EPA 200.7 (EPA 200.7)									
7K13011-01	Effluent	11/13/17	11/17/17	11/20/17	1	<0.0060	mg/L	0.006	0.007
Copper Total EPA 200.7 (EPA 200.7)									
7K13011-01	Effluent	11/13/17	11/17/17	11/20/17	1	**0.16**	mg/L	0.002	0.002

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: A5332359
Date Received: 11/13/17
Date Reported: 11/30/17

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
General Chemistry Analyses - Quality Control										
Batch B7K1327 - NO PREP										
Blank (B7K1327-BLK1)				Prepared & Analyzed: 11/13/17						
Sulfide	<0.027	0.027	mg/L							
LCS (B7K1327-BS1)				Prepared & Analyzed: 11/13/17						
Sulfide	**0.514**	0.027	mg/L	0.50		103	80-120		25	
LCS Dup (B7K1327-BSD1)				Prepared & Analyzed: 11/13/17						
Sulfide	**0.525**	0.027	mg/L	0.50		105	80-120	2.12	25	
Duplicate (B7K1327-DUP1)		**Source: 7K13011-01**		Prepared & Analyzed: 11/13/17						
Sulfide	**<0.027**	0.027	mg/L		<0.050				20	
Matrix Spike (B7K1327-MS1)		**Source: 7K08028-08**		Prepared & Analyzed: 11/13/17						
Sulfide	**0.532**	0.027	mg/L	0.50		106	75-125		25	
Matrix Spike Dup (B7K1327-MSD1)		**Source: 7K08028-08**		Prepared & Analyzed: 11/13/17						
Sulfide	**0.518**	0.027	mg/L	0.50		104	75-125	2.67	25	
Batch B7K1329 - NO PREP										
Blank (B7K1329-BLK1)				Prepared & Analyzed: 11/13/17						
Total Settleable Solids	<0.100	0.100	mL/L							
Batch B7K1421 - NO PREP										
Blank (B7K1421-BLK1)				Prepared & Analyzed: 11/14/17						
Turbidity	<0.17	0.17	NTU							
Duplicate (B7K1421-DUP1)		**Source: 7K14007-01**		Prepared & Analyzed: 11/14/17						
Turbidity	**5.85**	0.17	NTU		6.20			5.81	20	
Duplicate (B7K1421-DUP2)		**Source: 7K13011-01**		Prepared & Analyzed: 11/14/17						
Turbidity	**0.270**	0.17	NTU		0.260			3.77	20	J
Batch B7K1712 - NO PREP										
Blank (B7K1712-BLK1)				Prepared & Analyzed: 11/17/17						
Total Suspended Solids	<5.0	5.0	mg/L							
LCS (B7K1712-BS1)				Prepared & Analyzed: 11/17/17						
Total Suspended Solids	**45.0**	5.0	mg/L	50		90.0	80-120			
LCS Dup (B7K1712-BSD1)				Prepared & Analyzed: 11/17/17						
Total Suspended Solids	**47.0**	5.0	mg/L	50		94.0	80-120	4.35	20	
Duplicate (B7K1712-DUP1)		**Source: 7K14007-01**		Prepared & Analyzed: 11/17/17						

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: A5332359
Date Received: 11/13/17
Date Reported: 11/30/17

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
General Chemistry Analyses - Quality Control										
Batch B7K1712 - NO PREP										
Duplicate (B7K1712-DUP1) Continued		**Source: 7K14007-01**		Prepared & Analyzed: 11/17/17						
Total Suspended Solids	**6.25**	5.0	mg/L		5.80			7.47	20	J
Batch B7K1713 - NO PREP										
Blank (B7K1713-BLK1)				Prepared: 11/15/17			Analyzed: 11/16/17			
Total Dissolved Solids	<6.2	6.2	mg/L							
LCS (B7K1713-BS1)				Prepared: 11/15/17			Analyzed: 11/16/17			
Total Dissolved Solids	**43.0**	6.2	mg/L	50		86.0	80-120			
LCS Dup (B7K1713-BSD1)				Prepared: 11/15/17			Analyzed: 11/16/17			
Total Dissolved Solids	**48.0**	6.2	mg/L	50		96.0	80-120	11.0	25	
Duplicate (B7K1713-DUP1)		**Source: 7K14007-01**		Prepared: 11/15/17			Analyzed: 11/16/17			
Total Dissolved Solids	**472**	12	mg/L		528			11.2	20	
Batch B7K2124 - NO PREP										
Blank (B7K2124-BLK1)				Prepared: 11/20/17			Analyzed: 11/21/17			
HEM (Oil and Grease)	<3.0	3.0	mg/L							
LCS (B7K2124-BS1)				Prepared: 11/20/17			Analyzed: 11/21/17			
HEM (Oil and Grease)	**31.9**	3.0	mg/L	40		79.8	75-125			
LCS Dup (B7K2124-BSD1)				Prepared: 11/20/17			Analyzed: 11/21/17			
HEM (Oil and Grease)	**31.0**	3.0	mg/L	40		77.5	75-125	2.86	30	
*Batch B7K2929 - *** DEFAULT PREP ****										
Blank (B7K2929-BLK1)				Prepared: 11/15/17			Analyzed: 11/20/17			*
Biochemical Oxygen Demand	<5.0	5.0	mg/L							
LCS (B7K2929-BS1)				Prepared: 11/15/17			Analyzed: 11/20/17			*
Biochemical Oxygen Demand	**182**	5.0	mg/L	200		91.2	80-120			
LCS Dup (B7K2929-BSD1)				Prepared: 11/15/17			Analyzed: 11/20/17			*
Biochemical Oxygen Demand	**173**	5.0	mg/L	200		86.7	80-120	5.07	15	
Batch B7K2933 - NO PREP										
Blank (B7K2933-BLK1)				Prepared & Analyzed: 11/14/17						*
Methylene Blue Active Substances	<0.050	0.050	mg/L							
LCS (B7K2933-BS1)				Prepared & Analyzed: 11/14/17						*
Methylene Blue Active Substances	**0.165**	0.050	mg/L	0.20		82.5	80-120			

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: A5332359
Date Received: 11/13/17
Date Reported: 11/30/17

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
General Chemistry Analyses - Quality Control										
Batch B7K2933 - NO PREP										
LCS Dup (B7K2933-BSD1)				Prepared & Analyzed: 11/14/17						*
Methylene Blue Active Substances	**0.174**	0.050	mg/L	0.20		87.0	80-120	5.31	30	
Batch B7K2934 - NO PREP										
Blank (B7K2934-BLK1)				Prepared & Analyzed: 11/15/17						*
Phenolics	<0.15	0.15	mg/L							
LCS (B7K2934-BS1)				Prepared & Analyzed: 11/15/17						*
Phenolics	**0.446**	0.15	mg/L	0.50		89.1	80-120			
LCS Dup (B7K2934-BSD1)				Prepared & Analyzed: 11/15/17						*
Phenolics	**0.466**	0.15	mg/L	0.50		93.2	80-120	4.50	15	
Matrix Spike (B7K2934-MS1)		**Source: 7K13011-01**		Prepared & Analyzed: 11/15/17						*
Phenolics	**0.462**	0.15	mg/L	0.50	<0.30	92.4	80-120			
Matrix Spike Dup (B7K2934-MSD1)		**Source: 7K13011-01**		Prepared & Analyzed: 11/15/17						*
Phenolics	**0.455**	0.15	mg/L	0.50	<0.30	91.0	80-120	1.53	15	
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
Batch B7K2013 - EPA 5030B										
Blank (B7K2013-BLK1)				Prepared & Analyzed: 11/20/17						
tert-Amyl Methyl Ether (TAME)	<0.30	0.30	ug/L							
Benzene	<0.20	0.20	ug/L							
tert-Butyl alcohol (TBA)	<7.0	7.0	ug/L							
Diisopropyl ether (DIPE)	<0.50	0.50	ug/L							
Ethylbenzene	<0.20	0.20	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	<0.40	0.40	ug/L							
Gasoline Range Organics (GRO)	<40	40	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<0.40	0.40	ug/L							
Toluene	<0.30	0.30	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.40	0.40	ug/L							
Surrogate: 4-Bromofluorobenzene	*51.7*		*ug/L*	*50*		*103*	*70-140*			
Surrogate: Dibromofluoromethane	*63.2*		*ug/L*	*50*		*126*	*70-140*			
Surrogate: Toluene-d8	*49.6*		*ug/L*	*50*		*99.2*	*70-140*			
LCS (B7K2013-BS1)				Prepared: 11/20/17 Analyzed: 11/21/17						

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: A5332359
Date Received: 11/13/17
Date Reported: 11/30/17

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
Batch B7K2013 - EPA 5030B										
LCS (B7K2013-BS1) Continued				Prepared: 11/20/17 Analyzed: 11/21/17						
tert-Amyl Methyl Ether (TAME)	**17.8**	0.30	ug/L	20		89.2	70-130			
Benzene	**21.5**	0.20	ug/L	20		108	75-125			
tert-Butyl alcohol (TBA)	**99.8**	7.0	ug/L	100		99.8	70-130			
Diisopropyl ether (DIPE)	**20.0**	0.50	ug/L	20		100	70-130			
Ethylbenzene	**23.4**	0.20	ug/L	20		117	75-125			
Ethyl-tert-Butyl Ether (ETBE)	**17.8**	0.40	ug/L	20		88.8	70-130			
Gasoline Range Organics (GRO)	**472**	40	ug/L	500		94.4	70-130			
Methyl-tert-Butyl Ether (MTBE)	**35.0**	0.40	ug/L	40		87.6	70-135			
Toluene	**21.6**	0.30	ug/L	20		108	75-125			
o-Xylene	**21.3**	0.30	ug/L	20		107	75-125			
m,p-Xylenes	**43.6**	0.40	ug/L	40		109	70-130			
Surrogate: 4-Bromofluorobenzene	*52.1*		*ug/L*	*50*		*104*	*70-140*			
Surrogate: Dibromofluoromethane	*50.9*		*ug/L*	*50*		*102*	*70-140*			
Surrogate: Toluene-d8	*52.7*		*ug/L*	*50*		*105*	*70-140*			
Matrix Spike (B7K2013-MS1)			**Source: 7K13010-11** Prepared & Analyzed: 11/20/17							
tert-Amyl Methyl Ether (TAME)	**16.7**	0.30	ug/L	20		83.4	70-130			
Benzene	**21.5**	0.20	ug/L	20		108	70-130			
tert-Butyl alcohol (TBA)	**112**	7.0	ug/L	100		112	70-130			
Diisopropyl ether (DIPE)	**22.6**	0.50	ug/L	20	0.520	110	70-130			
Ethylbenzene	**22.7**	0.20	ug/L	20		114	70-130			
Ethyl-tert-Butyl Ether (ETBE)	**16.6**	0.40	ug/L	20		82.8	70-130			
Methyl-tert-Butyl Ether (MTBE)	**35.4**	0.40	ug/L	40		88.6	70-130			
Toluene	**20.3**	0.30	ug/L	20		102	70-130			
o-Xylene	**21.4**	0.30	ug/L	20		107	70-130			
m,p-Xylenes	**42.5**	0.40	ug/L	40		106	70-130			
Surrogate: 4-Bromofluorobenzene	*51.6*		*ug/L*	*50*		*103*	*70-140*			
Surrogate: Dibromofluoromethane	*52.6*		*ug/L*	*50*		*105*	*70-140*			
Surrogate: Toluene-d8	*51.0*		*ug/L*	*50*		*102*	*70-140*			
Matrix Spike Dup (B7K2013-MSD1)			**Source: 7K13010-11** Prepared & Analyzed: 11/20/17							
tert-Amyl Methyl Ether (TAME)	**16.9**	0.30	ug/L	20		84.4	70-130	1.07	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: A5332359
Date Received: 11/13/17
Date Reported: 11/30/17

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
Batch B7K2013 - EPA 5030B										
Matrix Spike Dup (B7K2013-MSD1) Continued				**Source: 7K13010-11**		Prepared & Analyzed: 11/20/17				
Benzene	**21.5**	0.20	ug/L	20		108	70-130	0.139	30	
tert-Butyl alcohol (TBA)	**107**	7.0	ug/L	100		107	70-130	4.57	30	
Diisopropyl ether (DIPE)	**22.9**	0.50	ug/L	20	0.520	112	70-130	1.41	30	
Ethylbenzene	**22.9**	0.20	ug/L	20		114	70-130	0.701	30	
Ethyl-tert-Butyl Ether (ETBE)	**16.7**	0.40	ug/L	20		83.3	70-130	0.602	30	
Methyl-tert-Butyl Ether (MTBE)	**38.0**	0.40	ug/L	40		95.1	70-130	7.16	30	
Toluene	**20.2**	0.30	ug/L	20		101	70-130	0.741	30	
o-Xylene	**21.5**	0.30	ug/L	20		108	70-130	0.326	30	
m,p-Xylenes	**42.6**	0.40	ug/L	40		106	70-130	0.0705	30	
Surrogate: 4-Bromofluorobenzene	*51.9*		*ug/L*	*50*		*104*	*70-140*			
Surrogate: Dibromofluoromethane	*53.3*		*ug/L*	*50*		*107*	*70-140*			
Surrogate: Toluene-d8	*51.2*		*ug/L*	*50*		*102*	*70-140*			
Diesel Range Organics by GC/FID - Quality Control										
Batch B7K2120 - EPA 3510C										
Blank (B7K2120-BLK1)						Prepared & Analyzed: 11/21/17				
Diesel Range Organics as Diesel	<60	60	ug/L							
Surrogate: o-Terphenyl	*33.2*		*ug/L*	*40*		*83.0*	*50-150*			
LCS (B7K2120-BS1)						Prepared & Analyzed: 11/21/17				
Diesel Range Organics as Diesel	**763**	60	ug/L	800		95.3	75-125		30	
Surrogate: o-Terphenyl	*36.4*		*ug/L*	*40*		*90.9*	*50-150*			
LCS Dup (B7K2120-BSD1)						Prepared & Analyzed: 11/21/17				
Diesel Range Organics as Diesel	**713**	60	ug/L	800		89.1	75-125	6.73	30	
Surrogate: o-Terphenyl	*36.4*		*ug/L*	*40*		*90.9*	*50-150*			
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control										
Batch B7K1705 - EPA 3010A										
Blank (B7K1705-BLK1)						Prepared: 11/17/17 Analyzed: 11/20/17				
Arsenic	<0.0060	0.0060	mg/L							
Copper	<0.0020	0.0020	mg/L							

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: A5332359
Date Received: 11/13/17
Date Reported: 11/30/17

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										
Batch B7K1705 - EPA 3010A										
LCS (B7K1705-BS1)				Prepared: 11/17/17		Analyzed: 11/20/17				
Arsenic	**1.01**	0.0060	mg/L	1.0		101	80-120		20	
Copper	**0.960**	0.0020	mg/L	1.0		96.0	80-120		20	
LCS Dup (B7K1705-BSD1)				Prepared: 11/17/17		Analyzed: 11/20/17				
Arsenic	**1.03**	0.0060	mg/L	1.0		103	80-120	2.36	20	
Copper	**0.984**	0.0020	mg/L	1.0		98.4	80-120	2.44	20	
Duplicate (B7K1705-DUP1)		**Source: 7K13012-05**		Prepared: 11/17/17		Analyzed: 11/20/17				
Copper	**<0.0020**	0.0020	mg/L						30	
Arsenic	**0.0179**	0.0060	mg/L		0.0186			3.84	30	
Matrix Spike (B7K1705-MS1)		**Source: 7K13011-01**		Prepared: 11/17/17		Analyzed: 11/20/17				
Arsenic	**0.977**	0.0060	mg/L	1.0	<0.0070	97.7	75-125		20	
Copper	**1.16**	0.0020	mg/L	1.0	0.160	99.9	75-125		20	
Matrix Spike Dup (B7K1705-MSD1)		**Source: 7K13011-01**		Prepared: 11/17/17		Analyzed: 11/20/17				
Arsenic	**1.02**	0.0060	mg/L	1.0	<0.0070	102	75-125	4.19	20	
Copper	**1.27**	0.0020	mg/L	1.0	0.160	111	75-125	9.06	20	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5332359
Project No:	04-NDLA-013	**Date Received:**	11/13/17
Project Name:	DFSP Norwalk GWETS NPDES Annually	**Date Reported:**	11/30/17

Special Notes

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

J : Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

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: November 19, 2017

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

Laboratory No.: A-17111401-001
Project No.: A5332359
Sample ID.: 7K13011-01

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

Date Sampled:	11/13/17
Date Received:	11/14/17
Temp. Received:	5.0°C
Chlorine (TRC):	0.0 mg/l
Date Tested:	11/14/17 to 11/18/17

Sample Analysis: The following analyses were performed on your sample:

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

Attached are the test data generated from the analysis of your sample. All testing was conducted under the direct supervision of Joseph A. LeMay. Daily test readings were taken by Joseph A. LeMay (initials: JAL) and Jacob LeMay (initials: J).

Result Summary:

Sample ID.	Results
7K13011-01	0% Survival (TUa > 1.0)

Quality Control: Reviewed and approved by:

Joseph A. LeMay
Laboratory Director

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0

Aquatic Testing Laboratories

Lab No.: A-17111401-001
Client/ID: American Analytics 7K13011-01 **Start Date: 11/14/2017**

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-171102.

TEST DATA

		°C	DO	pH	# Dead				Analyst & Time of Readings
					A	B	C	D	
INITIAL	Control	20.4	8.9	7.9	0	0	0	0	11-14-17 1400
	100%	20.4	8.5	7.5	0	0	0	0	
24 Hr	Control	19.8	8.1	7.8	0	0	0	0	11-15-17 1330
	100%	19.7	8.2	7.5	1	1	1	1	
48 Hr	Control	20.1	8.0	7.9	0	0	0	0	11-16-17 1330
	100%	20.1	7.6	7.8	9	9	9	9	
Renewal	Control	20.2	8.2	8.1	0	0	0	0	11-16-17 1330
	100%	—	—	—	—	—	—	—	
72 Hr	Control	20.5	8.2	7.9	0	0	0	0	11-17-17 1330
	100%	—	—	—	—	—	—	—	
96 Hr	Control	19.8	8.4	7.9	0	0	0	0	11-18-17 1400
	100%	—	—	—	—	—	—	—	

Comments:
Sample as received: Chlorine: 0 mg/l; Temp: 5.0 °C; DO: 4.2 mg/l; pH: 7.4;
Alkalinity: 573 mg/l; Hardness: 789 mg/l; Conductivity: 2337 umho; NH_3-N: 0.3 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: 324 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 O_2.

RESULTS

Percent Survival In: Control: 100 % 100% Sample: 0 %

Aquatic Testing Labs

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

A.A. COC No.: 70049777

Client: AMERICAN ANALYTICS	**Project Name / No.:** AS332359 / 7K13011	**Sampler's Name:**	
Project Manager: Viorel Vasile	**Site Address:**	**Sampler's Signature:**	
Phone:	**City:**	**P.O. No.:** 30082	
Fax:	**State & Zip:**	**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)

Acute Toxicity

Please enter the TAT Turnaround Codes ** below

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont										Special Instructions
7K13011-01		11/13/17	1034	Water	1	X									96 hr % Survival Fathead Minnow
															EPA-821-R-02-012

For Laboratory Use	Relinquished by	Date	Time	Received by
5.0 °C		11-14-17	11:15	
	Relinquished by	Date	Time	Received by
A.A. Project No.:	Relinquished by	Date	Time	Received by

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.

Aquatic
Testing
Laboratories

REFERENCE TOXICANT DATA

FATHEAD MINNOW ACUTE
Reference Toxicant - SDS

Aquatic Testing Laboratories

QA/QC Batch No.: RT-171102

TEST SUMMARY

Species: *Pimephales promelas.*
Age: 12 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

	INITIAL			24 Hr					48 Hr				
Date/Time:	11-2-17 1300			11-3-17 1230					11-4-17 1230				
Analyst:													
	°C	DO	pH	°C	DO	pH	# Dead A	# Dead B	°C	DO	pH	# Dead A	# Dead B
Control	20.0	9.0	8.0	20.0	8.4	8.0	0	0	20.1	8.0	8.0	0	0
1.0 mg/l	20.0	9.1	8.1	20.0	8.4	8.1	0	0	20.1	8.1	8.1	0	0
2.0 mg/l	20.0	9.0	8.0	20.0	8.1	8.1	0	0	20.0	8.0	8.2	0	0
4.0 mg/l	20.0	9.1	8.0	19.9	8.1	8.2	0	0	20.0	8.1	8.2	3	4
8.0 mg/l	20.0	9.1	8.0	19.8	8.2	8.1	10	10	–	–	–	–	–
16.0 mg/l	20.0	9.0	8.0	19.9	8.1	8.1	10	10	–	–	–	–	–

	RENEWAL			72 Hr					96 Hr				
Date/Time:	11-4-17 1230			11-5-17 1230					11-6-17 1300				
Analyst:													
	°C	DO	pH	°C	DO	pH	# Dead A	# Dead B	°C	DO	pH	# Dead A	# Dead B
Control	20.0	8.3	8.1	20.1	8.0	8.0	0	0	19.7	7.7	8.1	0	0
1.0 mg/l	20.0	8.4	8.0	20.1	8.0	8.0	0	0	19.7	7.5	8.0	0	0
2.0 mg/l	20.0	8.3	8.0	20.0	7.9	8.1	0	0	19.7	7.5	8.1	0	0
4.0 mg/l	20.0	8.4	8.1	20.0	7.9	8.1	0	0	19.7	7.6	8.1	0	0
8.0 mg/l	–	–	–	–	–	–	–	–	–	–	–	–	–
16.0 mg/l	–	–	–	–	–	–	–	–	–	–	–	–	–

Comments: Control: Alkalinity: 59 mg/l; Hardness: 89 mg/l; Conductivity: 332 umho.
SDS: Alkalinity: 54 mg/l; Hardness: 89 mg/l; Conductivity: 326 umho.
Dissolved Oxygen (DO) readings in mg/l O_2.

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:	11/2/2017 13:00	Test ID:	RT171102f	Sample ID:	REF-Ref Toxicant
End Date:	11/6/2017 13:00	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	SDS-Sodium dodecyl sulfate
Sample Date:	11/2/2017	Protocol:	EPAAW02-EPA/821/R-02-01	Test Species:	PP-Pimephales promelas

Comments:

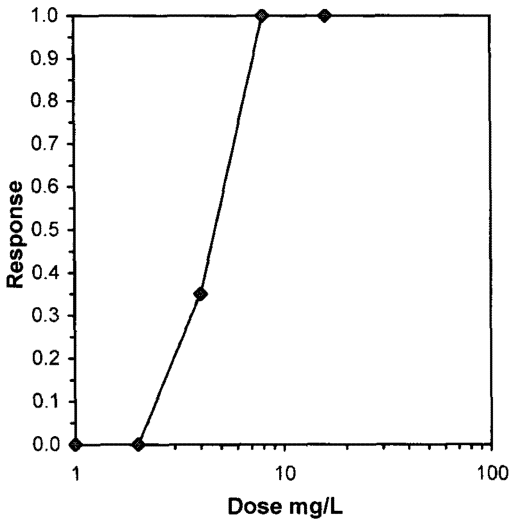
Conc-mg/L	1	2
D-Control	1.0000	1.0000
1	1.0000	1.0000
2	1.0000	1.0000
4	0.7000	0.6000
8	0.0000	0.0000
16	0.0000	0.0000

			Transform: Arcsin Square Root					Number	Total
Conc-mg/L	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	0.6500	0.6500	0.9386	0.8861	0.9912	7.916	2	7	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

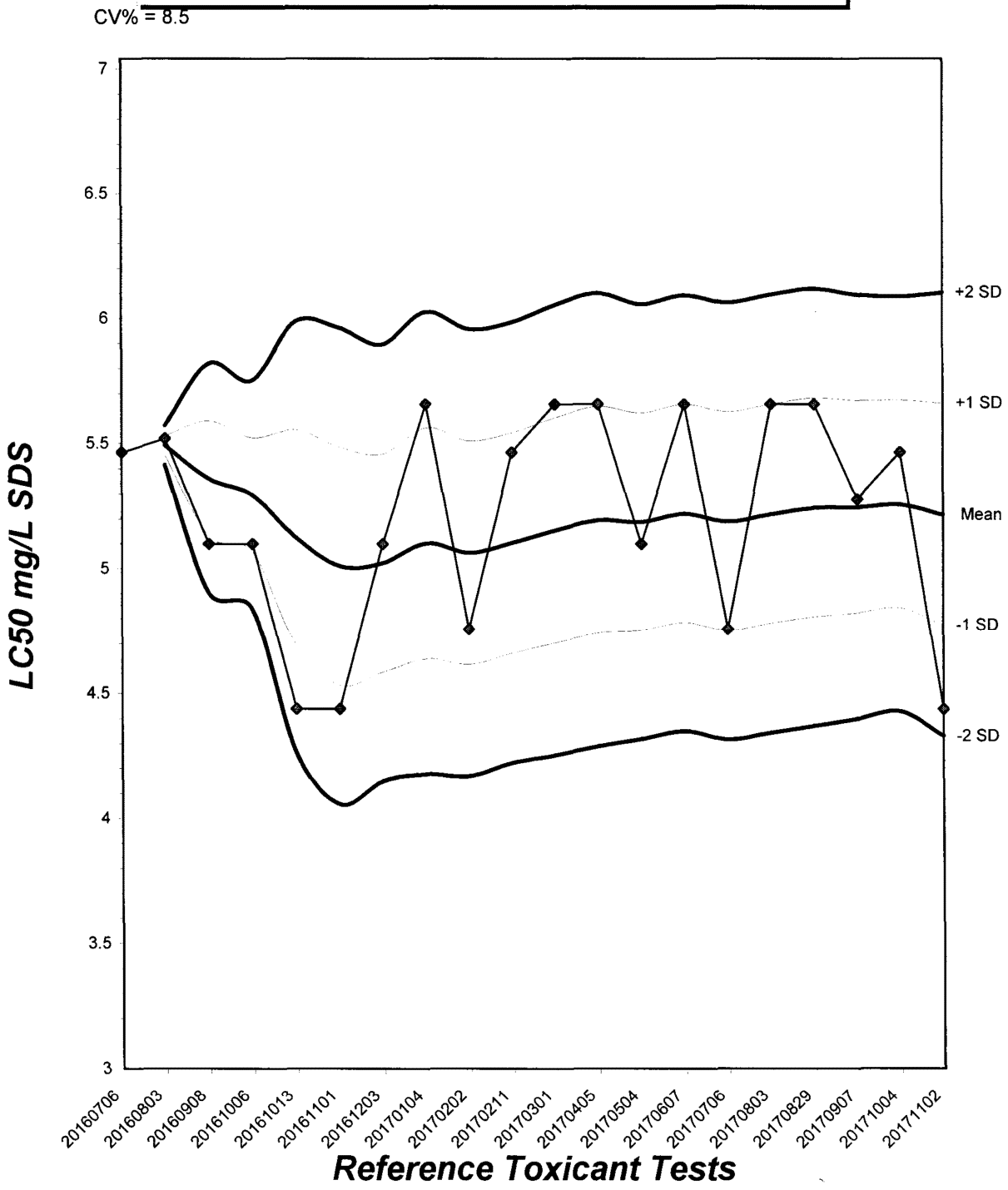
Auxiliary Tests	Statistic	Critical	Skew	Kurt
Normality of the data set cannot be confirmed				
Equality of variance cannot be confirmed				

Trimmed Spearman-Karber

Trim Level	EC50	95% CL	
0.0%	4.4383	3.8283	5.1455
5.0%	4.4842	3.8003	5.2911
10.0%	4.5292	3.7448	5.4779
20.0%	4.6141	3.5048	6.0745
Auto-0.0%	4.4383	3.8283	5.1455



Fathead Minnow Acute Laboratory Control Chart



Aquatic Testing Laboratories

TEST ORGANISM LOG

FATHEAD MINNOW - LARVAL
(Pimephales promelas)

QA/QC BATCH NO.: RT-171102

SOURCE: In-Lab Culture

DATE HATCHED: 10-21-17

APPROXIMATE QUANTITY: 400

GENERAL APPEARANCE: good

MORTALITIES 48 HOURS PRIOR TO TO USE IN TESTING: 0

DATE USED IN LAB: 11 / 2 / 17

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.: 20.0 °C pH: 8.0 Ammonia: 0 mg/l NH_3-N

DO: 9.0 mg/l Alkalinity: 59 mg/l Hardness: 89 mg/l

READINGS RECORDED BY: [signature] DATE: 11-3-17

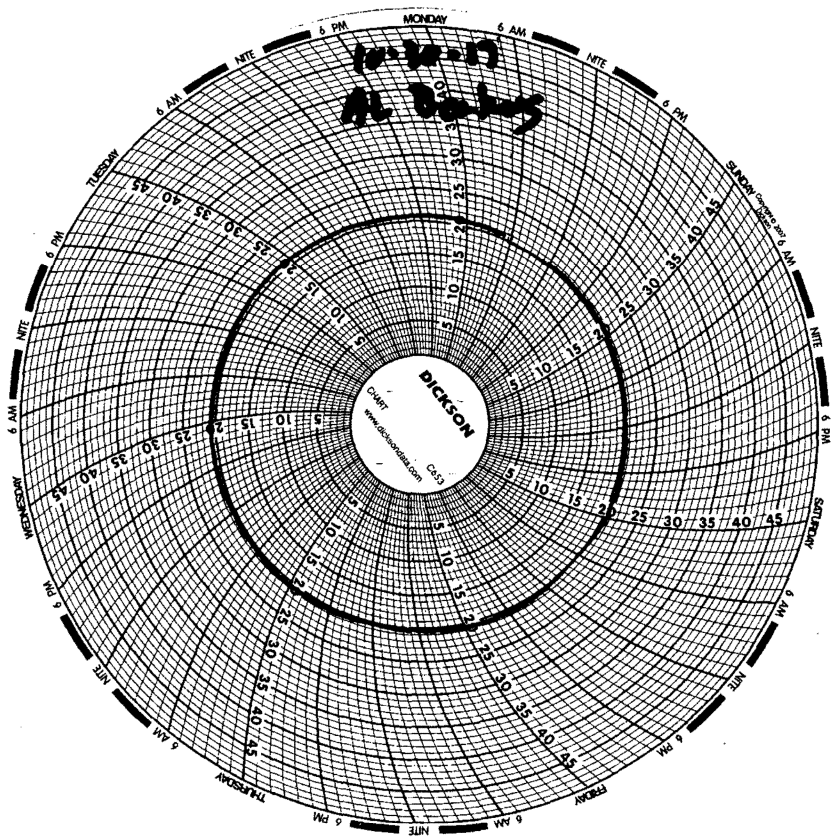
Aquatic Testing Laboratories

Test Temperature Chart

Test No: RT-171102

Date Tested: 11/02/17 to 11/06/17

Acceptable Range: 20 +/- 1°C



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 11/14/2017** **Date Reported 11/21/2017**

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

Job Number	Order Date	Client
90217	11/14/2017	AA

Project ID: A5332359/7K13011
Project Name: PO# 30081

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

AETL

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

90217

A.A. COC No.: 70049776

Page 1 of 1

Client: AMERICAN ANALYTICS | Project Name / No.: AS332359/7K13011 | Sampler's Name:

Project Manager: Viorel Vahle | Site Address: | Sampler's Signature:

Phone: | City: | P.O. No.: 30081

Fax: | State & Zip: | 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)

Please enter the TAT Turnaround Codes ** below

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	BOD5	MBAS	Phenols	Special Instructions
7K13011-01	90217.01	11/13/17	1034	Water	3	x	x	x	BOD5 SM5210B
									MBAS SM5540C
									Phenols EPA 420.1
									Normal TAT
									Thankyou

For Laboratory Use	Relinquished by	Date	Time	Received by
		11-14-17	10:00	
	Relinquished by	11/14/17	10:30	Received by
A.A. Project No.:	Relinquished by	Date	Time	Received by

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

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COOLER RECEIPT FORM

Client Name: American Analy.
Project Name:
AETL Job Number: 90217
Date Received: 11/14/17 Received by: AM
Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.4°C, No 2: _____, No 3: _____
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☐ Wide mouth jars, ☒ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify): _____
How are samples preserved: ☐ None, ☐ Ice, ☒ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify): H_2SO_4

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	Y		
2. Are the Sample labels legible?	Y		
3. Do samples match the COC?	Y		
4. Are the required analyses clear?	Y		
5. Is there enough samples for required analysis?	Y		
6. Are samples sealed with evidence tape?		Y	
7. Are sample containers in good condition?	Y		
8. Are samples preserved?	Y		
9. Are samples preserved properly for the intended analysis?	Y		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	Y		

Explain all "No" answers for above questions:

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Ordered By

American Analytics
9765 Eton Avenue
Chatsworth, CA 91311-4306

Project ID: A5332359/7K13011
Date Received 11/14/2017
Date Reported 11/21/2017

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

Job Number	Order Date	Client
90217	11/14/2017	AA

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 1 samples with the following specification on 11/14/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
90217.01	7K13011-01	11/13/2017	Aqueous	3

Method ^ Submethod	Req Date	Priority	TAT	Units
420.1	11/21/2017	2	Normal	mg/L
SM-5540C	11/21/2017	2	Normal	mg/L
SM5210B	11/21/2017	2	Normal	mg/L

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
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ANALYTICAL RESULTS

Ordered By

American Analytics
9765 Eton Avenue
Chatsworth, CA 91311-4306

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

Project ID: **A5332359/7K13011**
Project Name: **PO# 30081**

AETL Job Number	Submitted	Client
90217	11/14/2017	AA

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

QC Batch No: PH111517-1

Our Lab I.D.			Method Blank	**90217.01**			
Client Sample I.D.				7K13011-01			
Date Sampled				**11/13/2017**			
Date Prepared			**11/15/2017**	**11/15/2017**			
Preparation Method			**420.1**	**420.1**			
Date Analyzed			**11/15/2017**	**11/15/2017**			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	MDL	PQL	**Results**	**Results**			
Phenolic compounds as phenol	**0.15**	**0.30**	**ND**	**ND**			

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ANALYTICAL RESULTS

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Chatsworth, CA 91311-4306

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

Project ID: **A5332359/7K13011**
Project Name: **PO# 30081**

AETL Job Number	Submitted	Client
90217	11/14/2017	AA

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

QC Batch No: MB111417-1

Our Lab I.D.			Method Blank	90217.01			
Client Sample I.D.				7K13011-01			
Date Sampled				**11/13/2017**			
Date Prepared			**11/14/2017**	**11/14/2017**			
Preparation Method			**SM5540C**	**SM5540C**			
Date Analyzed			**11/14/2017**	**11/14/2017**			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	MDL	PQL	**Results**	**Results**			
Surfactants (MBAS)	**0.05**	**0.05**	**ND**	**ND**			

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ANALYTICAL RESULTS

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

Project ID: **A5332359/7K13011**
Project Name: **PO# 30081**

AETL Job Number	Submitted	Client
90217	11/14/2017	AA

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

QC Batch No: BO111517-1

Our Lab I.D.			Method Blank	90217.01			
Client Sample I.D.				7K13011-01			
Date Sampled				**11/13/2017**			
Date Prepared			**11/15/2017**	**11/15/2017**			
Preparation Method			**SM5210B**	**SM5210B**			
Date Analyzed			**11/20/2017**	**11/20/2017**			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	MDL	PQL	**Results**	**Results**			
Biochemical Oxygen Demand (BOD)	**5.0**	**5.0**	**ND**	**ND**			

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QUALITY CONTROL RESULTS

Ordered By

American Analytics
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Chatsworth, CA 91311-4306

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

Project ID: **A5332359/7K13011**
Project Name: **PO# 30081**

AETL Job Number	Submitted	Client
90217	11/14/2017	AA

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

QC Batch No: PH111517-1; Dup or Spiked Sample: 90217.01; LCS: Clean Water; QC Prepared: 11/15/2017; QC Analyzed: 11/15/2017; 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**	**0.462**	**92.4**	**0.500**	**0.455**	**91.0**	**1.5**	**80-120**	**<15**

QC Batch No: PH111517-1; Dup or Spiked Sample: 90217.01; LCS: Clean Water; QC Prepared: 11/15/2017; QC Analyzed: 11/15/2017; 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**	**0.445**	**89.0**	**0.500**	**0.466**	**93.2**	**4.6**	**80-120**	**<20**	

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QUALITY CONTROL RESULTS

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Telephone: (818)998-5547
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Page: **6**

Project ID: **A5332359/7K13011**
Project Name: **PO# 30081**

AETL Job Number	Submitted	Client
90217	11/14/2017	AA

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

QC Batch No: MB111417-1; Dup or Spiked Sample: 90212.01; LCS: Clean Water; QC Prepared: 11/14/2017; QC Analyzed: 11/14/2017; 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**	**0.200**	**0.178**	**89.0**	**0.200**	**0.170**	**85.2**	**4.4**	**80-120**	**<15**

QC Batch No: MB111417-1; Dup or Spiked Sample: 90212.01; LCS: Clean Water; QC Prepared: 11/14/2017; QC Analyzed: 11/14/2017; 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)	**0.200**	**0.165**	**82.4**	**0.200**	**0.174**	**87.2**	**5.7**	**80-120**	**<15**	

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QUALITY CONTROL RESULTS

Ordered By

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

Project ID: **A5332359/7K13011**
Project Name: **PO# 30081**

AETL Job Number	Submitted	Client
90217	11/14/2017	AA

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

QC Batch No: BO111517-1; Dup or Spiked Sample: 90210.01; LCS: Clean Water; LCS Prepared: 11/15/2017; LCS Analyzed: 11/20/2017; Units: mg/L

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

QC Batch No: BO111517-1; Dup or Spiked Sample: 90210.01; LCS: Clean Water; LCS Prepared: 11/15/2017; LCS Analyzed: 11/20/2017; 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**	**182**	**91.9**	**198**	**173**	**87.3**	**5.1**	**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

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

14035

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

Client: The Source Group, Inc.	**Project Name / No.:** DFSP - Norwalk / 04-SDLA / Quarterly NPDES	**Sampler's Name:**	Glenn Andrasko
Project Manager: Neil Irish	**Site Address:** 15306 Norwalk Blvd	**Sampler's Signature:**	Glenn Andrasko
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.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	TPHd 8015M	TPHg/MTBE/TBA 8260B	Arsenic 200.7	TDS, TSS, Turbidity	BOD5 20 deg C	Oil & Grease	Settleable Solids	Sulfides, Phenols	Residual Chlorine, Copper	Methylene Blue Active Substances	Acute Toxicity 40 CFR 136	Special Instructions
						Please enter the TAT Turnaround Codes ** below											
Effluent	7K13011-01	11-13-17	1034	Water	12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Report J-Flags
Effluent-Dup	-02	11-13-17	1035	Water	12	✓	✓										

SAMPLE INTEGRITY
INTACT (Y) N TEMP 5°C

PRIORITY
Rush Hrs SH
Date 11/13/17 Time 1532 Sign

Relinquished by	Date	Time	Received by
Glenn Andrasko	11-13-17	1150	
	11-13-17	1338	

A5332359 / 7K13011

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.

AMERICAN ANALYTICS

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

December 04, 2017

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

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

A5332370 / 7K20018

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/20/17 14:27 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile

Operations Manager

aquatic bioassay & consulting laboratories, inc

December 1, 2017

Mr. Viorel Vasile
American Analytics
9765 Eton Avenue
Chatsworth, CA 91311

Dear Mr. Vasile:

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

CLIENT:	American Analytics
SAMPLE I.D.:	7K20018-01
DATE RECEIVED:	21 Nov - 2017
ABC LAB. NO.:	AAN1117.145

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 = 100 % Survival in 100 % Sample
*TU(a) = 0.00
* TU(a) Is calculated by: log (% Mortality)/1.7

Yours very truly,

Scott Johnson
Laboratory Director

CETIS Summary Report

Test Code: AAN1117.145 | 19-7514-9376

Fathead Minnow 96-h Acute Survival Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	07-3357-8732	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	21 Nov-17 14:50	**Protocol:**	EPA/821/R-02-012 (2002)	**Diluent:**	Laboratory Water
Ending Date:	25 Nov-17 14:10	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	95h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	10-9209-8046	**Code:**	AAN1117.145	**Client:**	American Analytics
Sample Date:	20 Nov-17 09:31	**Material:**	Sample Water	**Project:**	A5332370/7K20018
Receipt Date:	21 Nov-17 12:24	**Source:**	Bioassay Report		
Sample Age:	29h (10.6 °C)	**Station:**	7K20018-01		

Single Comparison Summary

Analysis ID	Endpoint	Comparison Method	P-Value	Comparison Result
16-9770-9665	96h Survival Rate	Wilcoxon Rank Sum Two-Sample Test	1.0000	100% passed 96h survival rate

Test Acceptability

				TAC Limits			
Analysis ID	Endpoint	Attribute	Test Stat	Lower	Upper	Overlap	Decision
16-9770-9665	96h Survival Rate	Control Resp	0.95	0.9	>>	Yes	Passes Criteria

96h Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	N	4	0.9500	0.7909	1.0000	0.8000	1.0000	0.0500	0.1000	10.53%	0.00%
100		4	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	-5.26%

96h Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	N	0.8000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000

96h Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	N	8/10	10/10	10/10	10/10
100		10/10	10/10	10/10	10/10

Analyst: _____ QA: PASS

CETIS Analytical Report

Fathead Minnow 96-h Acute Survival Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	16-9770-9665	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.9.2
Analyzed:	29 Nov-17 15:28	**Analysis:**	Nonparametric-Two Sample	**Official Results:**	Yes
Batch ID:	07-3357-8732	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	21 Nov-17 14:50	**Protocol:**	EPA/821/R-02-012 (2002)	**Diluent:**	Laboratory Water
Ending Date:	25 Nov-17 14:10	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	95h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	10-9209-8046	**Code:**	AAN1117.145	**Client:**	American Analytics
Sample Date:	20 Nov-17 09:31	**Material:**	Sample Water	**Project:**	A5332370/7K20018
Receipt Date:	21 Nov-17 12:24	**Source:**	Bioassay Report		
Sample Age:	29h (10.6 °C)	**Station:**	7K20018-01		

Data Transform	Alt Hyp	Comparison Result	PMSD
Angular (Corrected)	C > T	100% passed 96h survival rate	9.44%

Wilcoxon Rank Sum Two-Sample Test

Control	vs	Conc-%	Test Stat	Critical	Ties	DF	P-Type	P-Value	Decision(α:5%)
Negative Control		100	20	n/a	1	6	Exact	1.0000	Non-Significant Effect

Test Acceptability Criteria

		TAC Limits			
Attribute	**Test Stat**	**Lower**	**Upper**	**Overlap**	**Decision**
Control Resp	0.95	0.9	>>	Yes	Passes Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.011618	0.011618	1	1	0.3559	Non-Significant Effect
Error	0.0697081	0.011618	6			
Total	0.0813261		7			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Levene Equality of Variance Test	9	13.75	0.0240	Equal Variances
Variances	Mod Levene Equality of Variance Test	1	13.75	0.3559	Equal Variances
Distribution	Anderson-Darling A2 Normality Test	1.162	3.878	0.0049	Non-Normal Distribution
Distribution	Kolmogorov-Smirnov D Test	0.375	0.3313	0.0015	Non-Normal Distribution
Distribution	Shapiro-Wilk W Normality Test	0.7065	0.6451	0.0027	Non-Normal Distribution

96h Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	N	4	0.9500	0.7909	1.0000	1.0000	0.8000	1.0000	0.0500	10.53%	0.00%
100		4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	-5.26%

Angular (Corrected) Transformed Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	N	4	1.336	1.093	1.578	1.412	1.107	1.412	0.07622	11.41%	0.00%
100		4	1.412	1.412	1.412	1.412	1.412	1.412	0	0.00%	-5.71%

96h Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	N	0.8000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000

Angular (Corrected) Transformed Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	N	1.107	1.412	1.412	1.412
100		1.412	1.412	1.412	1.412

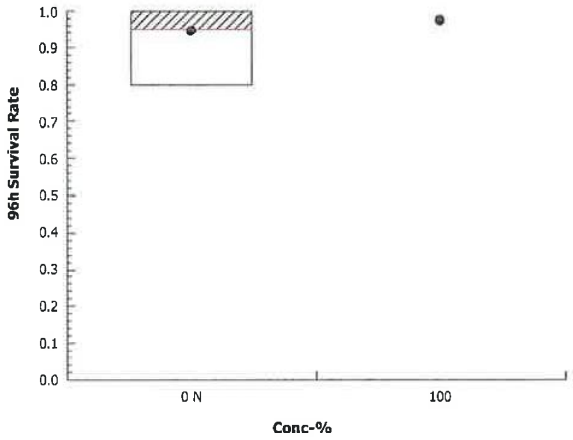
Fathead Minnow 96-h Acute Survival Test — **Aquatic Bioassay & Consulting Labs, Inc.**

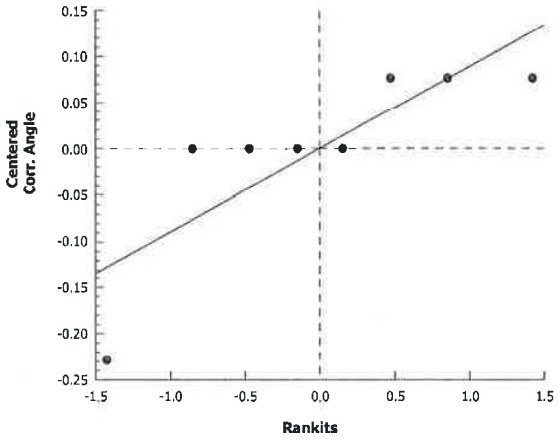
Analysis ID:	16-9770-9665	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.9.2
Analyzed:	29 Nov-17 15:28	**Analysis:**	Nonparametric-Two Sample	**Official Results:**	Yes

96h Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	N	8/10	10/10	10/10	10/10
100		10/10	10/10	10/10	10/10

Graphics





CETIS Measurement Report

Test Code: AAN1117.145 | 19-7514-9376

Fathead Minnow 96-h Acute Survival Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	07-3357-8732	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	21 Nov-17 14:50	**Protocol:**	EPA/821/R-02-012 (2002)	**Diluent:**	Laboratory Water
Ending Date:	25 Nov-17 14:10	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	95h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	10-9209-8046	**Code:**	AAN1117.145	**Client:**	American Analytics
Sample Date:	20 Nov-17 09:31	**Material:**	Sample Water	**Project:**	A5332370/7K20018
Receipt Date:	21 Nov-17 12:24	**Source:**	Bioassay Report		
Sample Age:	29h (10.6 °C)	**Station:**	7K20018-01		

Alkalinity (CaCO3)-mg/L

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	3	63	63	63	63	63	0	0	0.0%	0
100		3	435	435	435	435	435	0	0	0.0%	0
Overall		6	249	35.17	462.8	63	435	83.18	203.8	81.83%	0 (0%)

Conductivity-µmhos

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	3	339.7	328.5	350.9	335	344	2.603	4.509	1.33%	0
100		3	1916	1617	2216	1777	1988	69.68	120.7	6.3%	0
Overall		6	1128	218.2	2038	335	1988	353.9	866.9	76.86%	0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	3	7.633	6.874	8.392	7.3	7.9	0.1764	0.3055	4.0%	0
100		3	7.6	6.855	8.345	7.3	7.9	0.1732	0.3	3.95%	0
Overall		6	7.617	7.332	7.902	7.3	7.9	0.1108	0.2714	3.56%	0 (0%)

Hardness (CaCO3)-mg/L

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	3	96	96	96	96	96	0	0	0.0%	0
100		3	659	659	659	659	659	0	0	0.0%	0
Overall		6	377.5	53.89	701.1	96	659	125.9	308.4	81.69%	0 (0%)

pH-Units

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	3	7.9	7.243	8.557	7.6	8.1	0.1528	0.2646	3.35%	0
100		3	8.033	7.516	8.55	7.8	8.2	0.1202	0.2082	2.59%	0
Overall		6	7.967	7.73	8.203	7.6	8.2	0.09189	0.2251	2.83%	0 (0%)

Temperature-°C

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	3	24	24	24	24	24	0	0	0.0%	0
100		3	24	24	24	24	24	0	0	0.0%	0
Overall		6	24	24	24	24	24	0	0	0.00%	0 (0%)

Fathead Minnow 96-h Acute Survival Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Alkalinity (CaCO3)-mg/L

Conc-%	Code	1	2	3
0	N	63	63	63
100		435	435	435

Conductivity-µmhos

Conc-%	Code	1	2	3
0	N	344	340	335
100		1984	1988	1777

Dissolved Oxygen-mg/L

Conc-%	Code	1	2	3
0	N	7.3	7.7	7.9
100		7.9	7.3	7.6

Hardness (CaCO3)-mg/L

Conc-%	Code	1	2	3
0	N	96	96	96
100		659	659	659

pH-Units

Conc-%	Code	1	2	3
0	N	8.1	8	7.6
100		8.2	8.1	7.8

Temperature-°C

Conc-%	Code	1	2	3
0	N	24	24	24
100		24	24	24

Aquatic Biossay Consultity

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

A.A. COC No.: 70050173

Page 1 of 1

Client: AMERICAN ANALYTICS	**Project Name / No.:** A5332370/7K20018	**Sampler's Name:**
Project Manager: Viorel Vasile	**Site Address:**	**Sampler's Signature:**
Phone:	**City:**	**P.O. No.:** 30087
Fax:	**State & Zip:**	**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.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	Acute Bioassay	Special Instructions
						Please enter the TAT Turnaround Codes ** below	
7K20018-01		11/20/17	0931	Water	1	X	96Hr % Survival Fathead Minnow EPA-821-R-02-012
						Temp. deg. C = 10.6 °C	
						Chlorine (mg/L) = <0.1	
						NH3 (mg/L) = <0.1	

For Laboratory Use	Relinquished by	Date	Time	Received by
		11-21-17	1234	
	Relinquished by	Date	Time	Received by
A.A. Project No.:	Relinquished by	Date	Time	Received by

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.

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

AA coc# 14084

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

Client: The Source Group, Inc.		**Project Name / No.:** DFSP - Norwalk / 04-SDLA / Quarterly NPDES		**Sampler's Name:**	Glenn Andrusko
Project Manager: Neil Irish		**Site Address:** 15306 Norwalk Blvd		**Sampler's Signature:**	Glenn Andrusko
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) — Please enter the TAT Turnaround Codes ** below

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	TPHd 8015M	TPHg/MTBE/TBA 8260B	Arsenic 200.7	TDS, TSS, Turbidity	BOD5 20 deg C	Oil & Grease	Settleable Solids	Sulfides, Phenols	Residual Chlorine, Copper	Methylene Blue Active Substances	Acute Toxicity 40 CFR 136	Special Instructions
Effluent	7K20018-01	11-20-17	0931	Water	1											X	Report J-Flags

PRIORITY
Rush ___ Hrs SH ✓
Date 11/24/17 Time 15:00 Sign [signature]
A5332370 / 7K20018

Relinquished by	Date	Time	Received by
Glenn Andrusko	11-20-17	1210	[signature]
[signature]	11/20/17	14:27	[signature]

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.

AMERICAN ANALYTICS

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

November 30, 2017

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

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

A5332369 / 7K20017

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/20/17 14:26 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile

Operations Manager

LABORATORY REPORT

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: November 26, 2017

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

Laboratory No.: A-17112104-001
Project No.: A5332369
Sample ID.: 7K20017-01

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

Date Sampled:	11/20/17
Date Received:	11/2114/17
Temp. Received:	9.5°C
Chlorine (TRC):	0.0 mg/l
Date Tested:	11/21/17 to 11/25/17

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

Attached are the test data generated from the analysis of your sample. All testing was conducted under the direct supervision of Joseph A. LeMay. Daily test readings were taken by Joseph A. LeMay (initials: JAL) and Jacob LeMay (initials: J).

Result Summary:

Sample ID.	Results
7K20017-01	100% Survival (TUa = 0.0)

Quality Control: Reviewed and approved by:

Joseph A. LeMay
Laboratory Director

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0

Aquatic Testing Laboratories

Lab No.: A-17112104-003
Client/ID: American Analytics 7K20017-01 **Start Date: 11/21/2017**

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-171102.

TEST DATA

		°C	DO	pH	# Dead				Analyst & Time of Readings
					A	B	C	D	
INITIAL	Control	20.4	8.9	8.1	0	0	0	0	J 11-21-17
	100%	20.8	7.5	7.6	0	0	0	0	1430
24 Hr	Control	20.0	8.2	7.8	0	0	0	0	J 11-22-17
	100%	19.9	7.8	7.9	0	0	0	0	1400
48 Hr	Control	20.1	8.1	7.8	0	0	0	0	J 11-23-17
	100%	20.2	8.0	7.6	0	0	0	0	1400
Renewal	Control	20.5	8.4	8.0	0	0	0	0	J 11-23-17
	100%	20.4	8.3	7.5	0	0	0	0	1400
72 Hr	Control	20.3	8.1	7.7	0	0	0	0	J 11-24-17
	100%	20.2	8.0	7.3	0	0	0	0	1400
96 Hr	Control	20.1	8.3	7.6	0	0	0	0	J 11-25-17
	100%	20.0	8.1	7.4	0	0	0	0	1430

Comments:
Sample as received: Chlorine: ~~0~~ mg/l; Temp: 9.5 °C; DO: 4.4 mg/l; pH: 7.4 ;
Alkalinity: 488 mg/l; Hardness: 688 mg/l; Conductivity: 1968 umho; NH_3-N: 0.7 mg/l.
Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / No.
Control: Alkalinity: 62 mg/l; Hardness: 89 mg/l.; Conductivity: 320 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 O_2.

RESULTS

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

Aquatic Testing Labs

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

A.A. COC No.: 70050172

Page 1 of 1

Client: AMERICAN ANALYTICS	Project Name / No.: A533236 / 7K2017	Sampler's Name:
Project Manager: Vivek Vaidya	Site Address:	Sampler's Signature:
Phone:	City:	P.O. No.: 30086
Fax:	State & Zip:	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.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	Acute Toxicity	Special Instructions
7K2017-01		11/20/17	0930	Water	1	X	96 Hr. % Survival Fathead Minnow EPA-821-R-02-012

Please enter the TAT Turnaround Codes ** below

For Laboratory Use	Relinquished by	Date	Time	Received by
		11-21-17	12a	
	Relinquished by	Date	Time	Received by
	Relinquished by	Date	Time	Received by
A.A. Project No.:				

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.

Aquatic
Testing
Laboratories

REFERENCE TOXICANT DATA

FATHEAD MINNOW ACUTE
Reference Toxicant - SDS

Aquatic Testing Laboratories

QA/QC Batch No.: RT-171102

TEST SUMMARY

Species: *Pimephales promelas.*
Age: 12 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

	INITIAL			24 Hr					48 Hr				
Date/Time:	11-2-17 1300			11-3-17 1230					11-4-17 1230				
Analyst:													
	°C	DO	pH	°C	DO	pH	# Dead A	# Dead B	°C	DO	pH	# Dead A	# Dead B
Control	20.0	9.0	8.0	20.0	8.4	8.0	0	0	20.1	8.0	8.0	0	0
1.0 mg/l	20.0	9.1	8.1	20.0	8.4	8.1	0	0	20.1	8.1	8.1	0	0
2.0 mg/l	20.0	9.0	8.0	20.0	8.1	8.1	0	0	20.0	8.0	8.2	0	0
4.0 mg/l	20.0	9.1	8.0	19.9	8.1	8.2	0	0	20.0	8.1	8.2	3	4
8.0 mg/l	20.0	9.1	8.0	19.8	8.2	8.1	10	10	–	–	–	–	–
16.0 mg/l	20.0	9.0	8.0	19.5	8.1	8.1	10	10	–	–	–	–	–

	RENEWAL			72 Hr					96 Hr				
Date/Time:	11-4-17 1230			11-5-17 1230					11-6-17 1300				
Analyst:													
	°C	DO	pH	°C	DO	pH	# Dead A	# Dead B	°C	DO	pH	# Dead A	# Dead B
Control	20.0	8.3	8.1	20.1	8.0	8.0	0	0	19.7	7.7	8.1	0	0
1.0 mg/l	20.0	8.4	8.0	20.1	8.0	8.0	0	0	19.7	7.5	8.0	0	0
2.0 mg/l	20.0	8.3	8.0	20.0	7.9	8.1	0	0	19.7	7.5	8.1	0	0
4.0 mg/l	20.0	8.4	8.1	20.0	7.9	8.1	0	0	19.7	7.6	8.1	0	0
8.0 mg/l	–	–	–	–	–	–	–	–	–	–	–	–	–
16.0 mg/l	–	–	–	–	–	–	–	–	–	–	–	–	–

Comments: Control: Alkalinity: 54 mg/l; Hardness: 89 mg/l; Conductivity: 332 umho.
SDS: Alkalinity: 54 mg/l; Hardness: 89 mg/l; Conductivity: 326 umho.
Dissolved Oxygen (DO) readings in mg/l O_2.

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:	11/2/2017 13:00	Test ID:	RT171102f	Sample ID:	REF-Ref Toxicant
End Date:	11/6/2017 13:00	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	SDS-Sodium dodecyl sulfate
Sample Date:	11/2/2017	Protocol:	EPAAW02-EPA/821/R-02-01	Test Species:	PP-Pimephales promelas
Comments:					

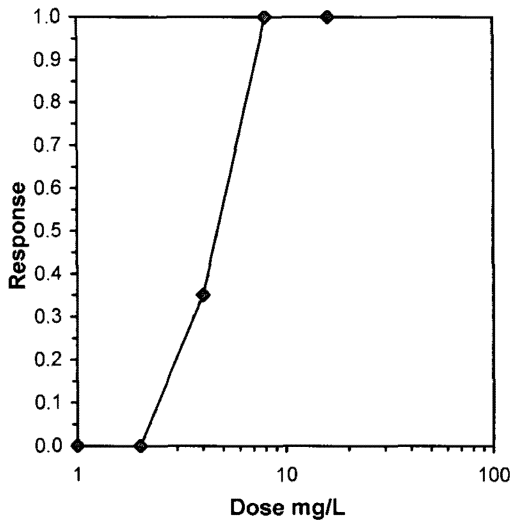
Conc-mg/L	1	2
D-Control	1.0000	1.0000
1	1.0000	1.0000
2	1.0000	1.0000
4	0.7000	0.6000
8	0.0000	0.0000
16	0.0000	0.0000

			Transform: Arcsin Square Root					Number	Total
Conc-mg/L	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	0.6500	0.6500	0.9386	0.8861	0.9912	7.916	2	7	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

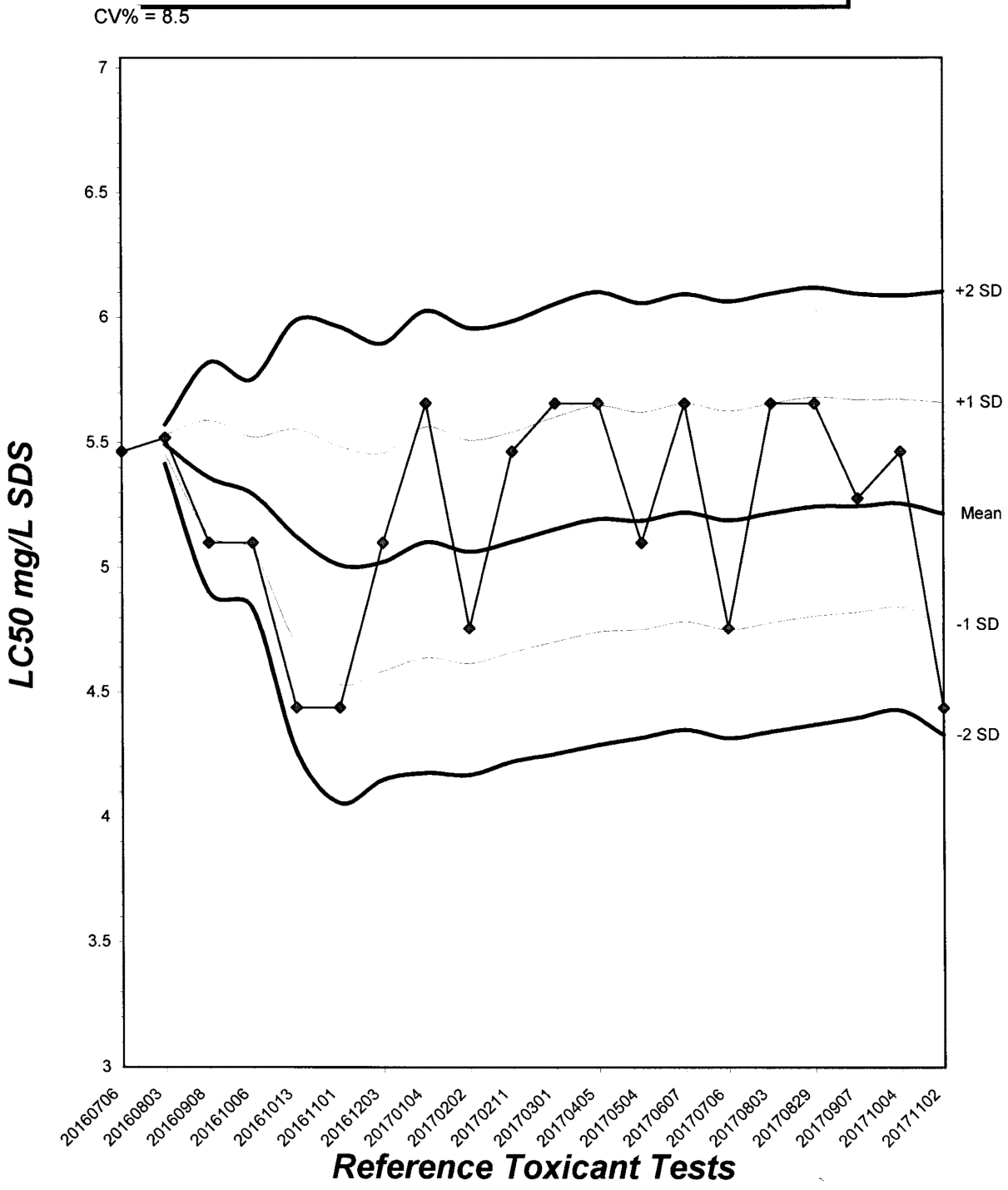
Auxiliary Tests	Statistic	Critical	Skew	Kurt
Normality of the data set cannot be confirmed				
Equality of variance cannot be confirmed				

Trimmed Spearman-Karber

Trim Level	EC50	95% CL	
0.0%	4.4383	3.8283	5.1455
5.0%	4.4842	3.8003	5.2911
10.0%	4.5292	3.7448	5.4779
20.0%	4.6141	3.5048	6.0745
Auto-0.0%	4.4383	3.8283	5.1455



Fathead Minnow Acute Laboratory Control Chart



Aquatic Testing Laboratories

TEST ORGANISM LOG

FATHEAD MINNOW - LARVAL
(*Pimephales promelas*)

QA/QC BATCH NO.: RT-171102

SOURCE: In-Lab Culture

DATE HATCHED: 10-21-17

APPROXIMATE QUANTITY: 400

GENERAL APPEARANCE: good

MORTALITIES 48 HOURS PRIOR TO TO USE IN TESTING: 0

DATE USED IN LAB: 11 / 2 / 17

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.: 20.0 °C pH: 8.0 Ammonia: 0 mg/l NH_3-N

DO: 9.0 mg/l Alkalinity: 59 mg/l Hardness: 89 mg/l

READINGS RECORDED BY: [signature] DATE: 11-3-17

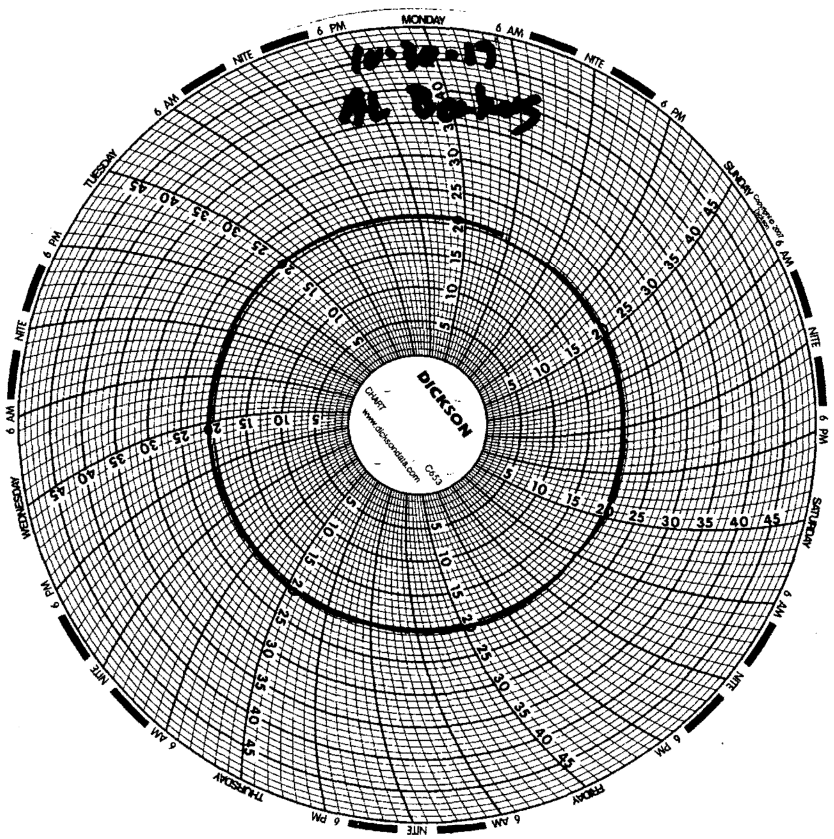
Aquatic Testing Laboratories

Test Temperature Chart

Test No: RT-171102

Date Tested: 11/02/17 to 11/06/17

Acceptable Range: 20 +/- 1°C



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

AA COC # 14083

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

Client: The Source Group, Inc.	**Project Name / No.:** DFSP - Norwalk / 04-SDLA / Quarterly NPDES	**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.	Lab I.D.	Date	Time	Sample Matrix	No. of Cont	TPHd 8015M	TPHg/MTBE/TBA 8260B	Arsenic 200.7	TDS, TSS, Turbidity	BOD5 20 deg.C	Oil & Grease	Settleable Solids	Sulfides, Phenols	Residual Chlorine, Copper	Methylene Blue Active Substances	Acute Toxicity 40 CFR 136	Special Instructions
						Please enter the TAT Turnaround Codes ** below											
Effluent	7K20017-01	11-20-17	0630	Water	1											X	Report J-Flags

Relinquished by	Date	Time	Received by
Glenn Androsko	11-20-17	12:10	
Relinquished by	Date	Time	Received by
	11/20/17	14:26	
Relinquished by	Date	Time	Received by

Priority Date 11/20/17 Time 5PM
TAT N Days Sign:
AS33236 / 7K20017

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.

AMERICAN ANALYTICS

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

December 13, 2017

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

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

A5332384 / 7L04018

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 12/04/17 16:32 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332384
Date Received: 12/04/17
Date Reported: 12/13/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
Copper Total EPA 200.7					
Eff	7L04018-01	Water	5	12/04/17 13:40	12/04/17 16:32

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: Total Metals by ICP Atomic Emission Spectroscopy

AA Project No: A5332384
Date Received: 12/04/17
Date Reported: 12/13/17

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MRL
Copper Total EPA 200.7 (EPA 200.7)								
7L04018-01	Eff	12/04/17	12/11/17	12/11/17	1	**0.16**	mg/L	0.002

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: A5332384
Date Received: 12/04/17
Date Reported: 12/13/17

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										
Batch B7L1121 - EPA 200.7										
Blank (B7L1121-BLK1)				Prepared & Analyzed: 12/11/17						
Copper	<0.0020	0.0020	mg/L							
LCS (B7L1121-BS1)				Prepared & Analyzed: 12/11/17						
Copper	**1.05**	0.0020	mg/L	1.0		105	80-120		20	
LCS Dup (B7L1121-BSD1)				Prepared & Analyzed: 12/11/17						
Copper	**1.09**	0.0020	mg/L	1.0		109	80-120	3.46	20	
Matrix Spike (B7L1121-MS1)		**Source: 7L04018-01**		Prepared & Analyzed: 12/11/17						
Copper	**1.23**	0.0020	mg/L	1.0	0.162	107	75-125		20	
Matrix Spike Dup (B7L1121-MSD1)		**Source: 7L04018-01**		Prepared & Analyzed: 12/11/17						
Copper	**1.21**	0.0020	mg/L	1.0	0.162	104	75-125	2.13	20	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5332384
Project No:	04-NDLA-013	**Date Received:**	12/04/17
Project Name:	DFSP Norwalk GWETS NPDES Annually	**Date Reported:**	12/13/17

Special Notes

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 10, 2017

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

Laboratory No.: A-17120505-001
Project No.: A5332384
Sample ID.: 7L04018-01

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

Date Sampled:	12/04/17
Date Received:	12/05/17
Temp. Received:	5.3°C
Chlorine (TRC):	0.0 mg/l
Date Tested:	12/05/17 to 12/09/17

Sample Analysis: The following analyses were performed on your sample:

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

Attached are the test data generated from the analysis of your sample. All testing was conducted under the direct supervision of Joseph A. LeMay. Daily test readings were taken by Joseph A. LeMay (initials: JAL) and Jacob LeMay (initials: J).

Result Summary:

Sample ID.	Results
7L04018-01	100% Survival (TUa = 0.0)

Quality Control: Reviewed and approved by:

Joseph A. LeMay
Laboratory Director

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0

Aquatic Testing Laboratories

Lab No.: A-17120505-001
Client/ID: American Analytics 7L04018-01 **Start Date: 12/05/2017**

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-171205.

TEST DATA

		°C	DO	pH	# Dead				Analyst & Time of Readings
					A	B	C	D	
INITIAL	Control	20.1	8.9	8.0	0	0	0	0	J 1330
	100%	20.2	7.5	7.4	0	0	0	0	12-5-17
24 Hr	Control	19.6	8.5	7.7	0	0	0	0	J 1300
	100%	19.5	8.0	7.7	0	0	0	0	12-6-17
48 Hr	Control	19.6	8.3	7.7	0	0	0	0	J 1300
	100%	19.4	8.0	7.7	0	0	0	0	12-7-17
Renewal	Control	20.0	8.7	7.9	0	0	0	0	J 1300
	100%	19.8	8.2	7.6	0	0	0	0	12-7-17
72 Hr	Control	19.4	8.3	7.6	0	0	0	0	J 1300
	100%	19.3	8.2	7.4	0	0	0	0	12-8-17
96 Hr	Control	19.6	8.3	7.7	0	0	0	0	J 1330
	100%	19.4	8.3	7.4	0	0	0	0	12-9-17

Comments:
Sample as received: Chlorine: 0 mg/l; Temp: 5.2 °C; DO: 11.0 mg/l; pH: 7.3 ;
Alkalinity: 446 mg/l; Hardness: 654 mg/l; Conductivity: 2132 umho; NH_3-N: 0.3 mg/l.
Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / No.
Control: Alkalinity: 60 mg/l; Hardness: 91 mg/l.; Conductivity: 311 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 O_2.

RESULTS

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

Aquatic Testing Labs

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

A.A. COC No.: 70050209

Page 1 of ___

Client: AMERICAN ANALYTICS	**Project Name / No.:** A533284/ 7L04018	**Sampler's Name:**	
Project Manager: Vidal Valle	**Site Address:**	**Sampler's Signature:**	
Phone:	**City:**	**P.O. No.:** 3093	
Fax:	**State & Zip:**	**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)

Please enter the TAT Turnaround Codes ** below

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	Acute Toxicity										Special Instructions
7L04018-01		12/4/17	1340	Water	1	X										96hr % Survival Fathead Minnow EPA-821-R-02-012

For Laboratory Use	Relinquished by	Date	Time	Received by
		12-5-17	1200	
	Relinquished by	Date	Time	Received by
	Relinquished by	Date	Time	Received by
A.A. Project No.:				

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.

Aquatic
Testing
Laboratories

REFERENCE TOXICANT DATA

FATHEAD MINNOW ACUTE
Reference Toxicant - SDS

Aquatic Testing Laboratories

QA/QC Batch No.: RT-171205

TEST SUMMARY

Species: *Pimephales promelas.*
Age: 13 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

	INITIAL			24 Hr					48 Hr				
Date/Time:	12-5-17 1330			12-6-17 1300					12-7-17 1300				
Analyst:	J			J					J				
	°C	DO	pH	°C	DO	pH	# Dead A	# Dead B	°C	DO	pH	# Dead A	# Dead B
Control	20.0	8.9	8.0	19.4	8.6	8.1	0	0	19.5	8.4	8.0	0	0
1.0 mg/l	19.9	8.8	8.0	19.4	8.5	8.0	0	0	19.6	8.3	8.0	0	0
2.0 mg/l	19.8	8.9	8.0	19.3	8.2	8.0	0	0	19.4	8.4	7.9	0	0
4.0 mg/l	19.7	8.9	7.9	19.3	8.3	8.0	0	0	19.4	8.0	7.9	0	0
8.0 mg/l	19.7	8.8	8.0	19.3	8.3	8.0	10	10	–	–	–	–	–
16.0 mg/l	19.8	8.4	8.0	19.3	8.3	8.0	10	10	–	–	–	–	–

	RENEWAL			72 Hr					96 Hr				
Date/Time:	12-7-17 1300			12-8-17 1300					12-9-17 1330				
Analyst:	J			J					J				
	°C	DO	pH	°C	DO	pH	# Dead A	# Dead B	°C	DO	pH	# Dead A	# Dead B
Control	19.8	8.6	8.1	19.6	8.1	7.9	0	0	19.6	8.1	7.9	0	0
1.0 mg/l	19.7	8.6	8.1	19.4	8.0	7.8	0	0	19.5	8.2	7.9	0	0
2.0 mg/l	19.8	8.7	8.1	19.4	8.1	7.8	0	0	19.5	8.1	7.9	0	0
4.0 mg/l	19.8	8.6	8.0	19.3	8.1	7.8	0	0	19.4	8.3	7.9	0	0
8.0 mg/l	–	–	–	–	–	–	–	–	–	–	–	–	–
16.0 mg/l	–	–	–	–	–	–	–	–	–	–	–	–	–

Comments: Control: Alkalinity: 60 mg/l; Hardness: 91 mg/l; Conductivity: 311 umho.
SDS: Alkalinity: 61 mg/l; Hardness: 90 mg/l; Conductivity: 318 umho.
Dissolved Oxygen (DO) readings in mg/l O_2.

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:	12/5/2017 13:30	Test ID:	RT171205	Sample ID:	REF-Ref Toxicant
End Date:	12/9/2017 13:30	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	SDS-Sodium dodecyl sulfate
Sample Date:	12/5/2017	Protocol:	EPAAW02-EPA/821/R-02-01	Test Species:	PP-Pimephales promelas
Comments:					

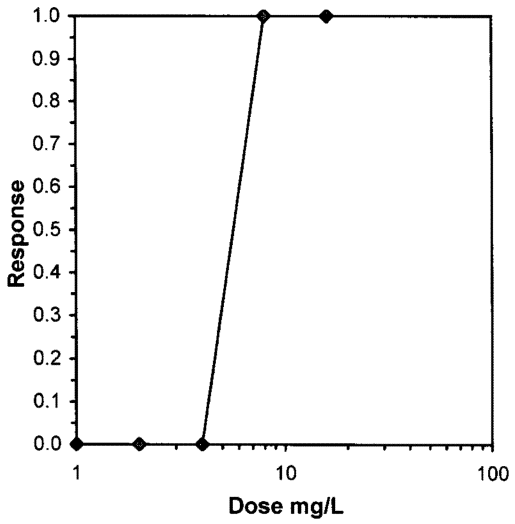
Conc-mg/L	1	2
D-Control	1.0000	1.0000
1	1.0000	1.0000
2	1.0000	1.0000
4	1.0000	1.0000
8	0.0000	0.0000
16	0.0000	0.0000

			Transform: Arcsin Square Root					Number	Total
Conc-mg/L	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	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	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				

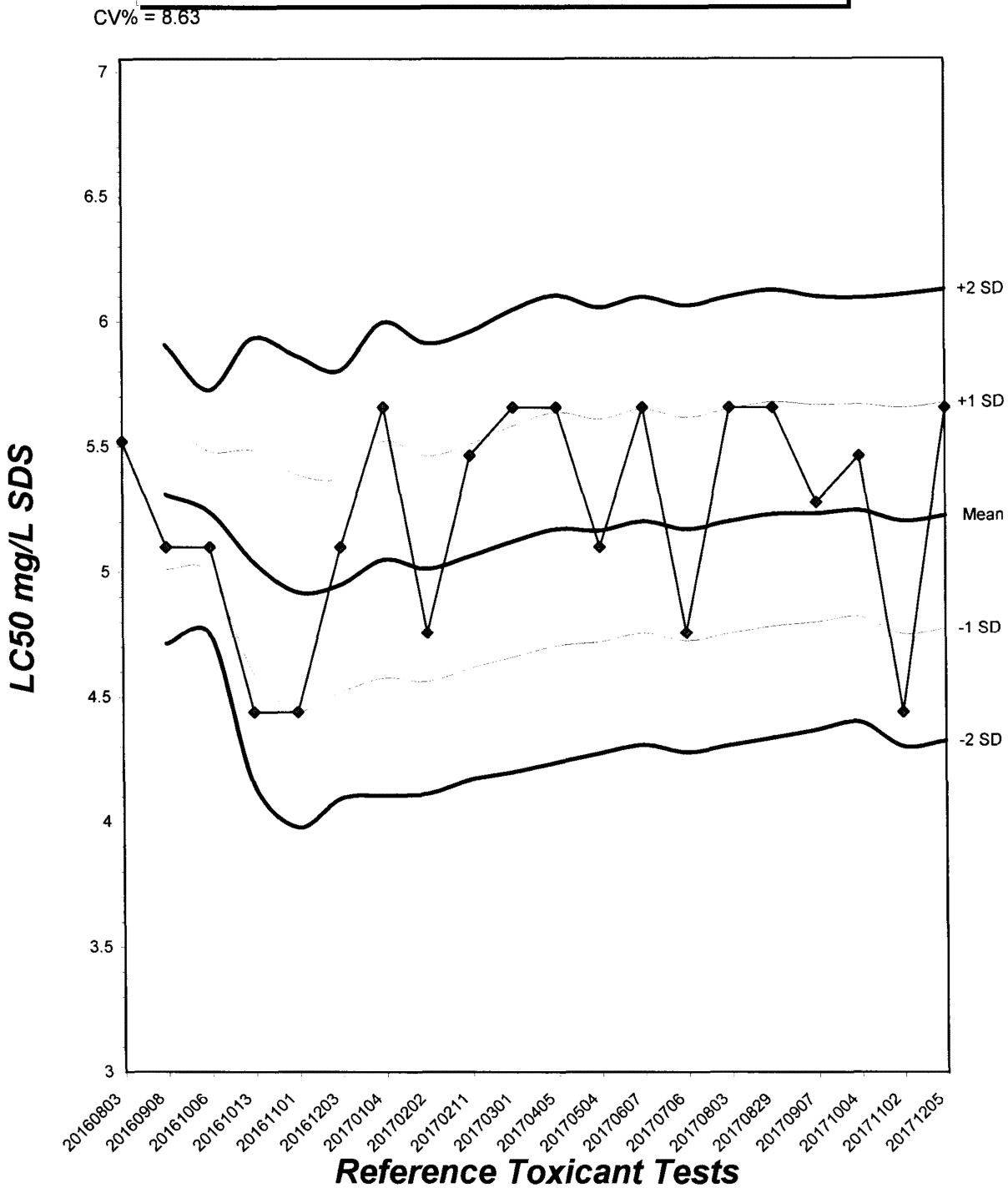
Graphical Method

Trim Level	EC50
0.0%	5.6569
	5.6569



Reviewed by:

Fathead Minnow Acute Laboratory Control Chart



Aquatic Testing Laboratories

TEST ORGANISM LOG

FATHEAD MINNOW - LARVAL
(*Pimephales promelas*)

QA/QC BATCH NO.: RT-171205

SOURCE: In-Lab Culture

DATE HATCHED: 11-22-17

APPROXIMATE QUANTITY: 400

GENERAL APPEARANCE: good

MORTALITIES 48 HOURS PRIOR TO TO USE IN TESTING: 0

DATE USED IN LAB: 12 / 5 / 17

AVERAGE FISH WEIGHT: 0.005 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.: 20.0 °C pH: 8.0 Ammonia: 0 mg/l NH_3-N

DO: 8.9 mg/l Alkalinity: 60 mg/l Hardness: 91 mg/l

READINGS RECORDED BY: [signature] DATE: 12-6-17

Aquatic Testing Laboratories

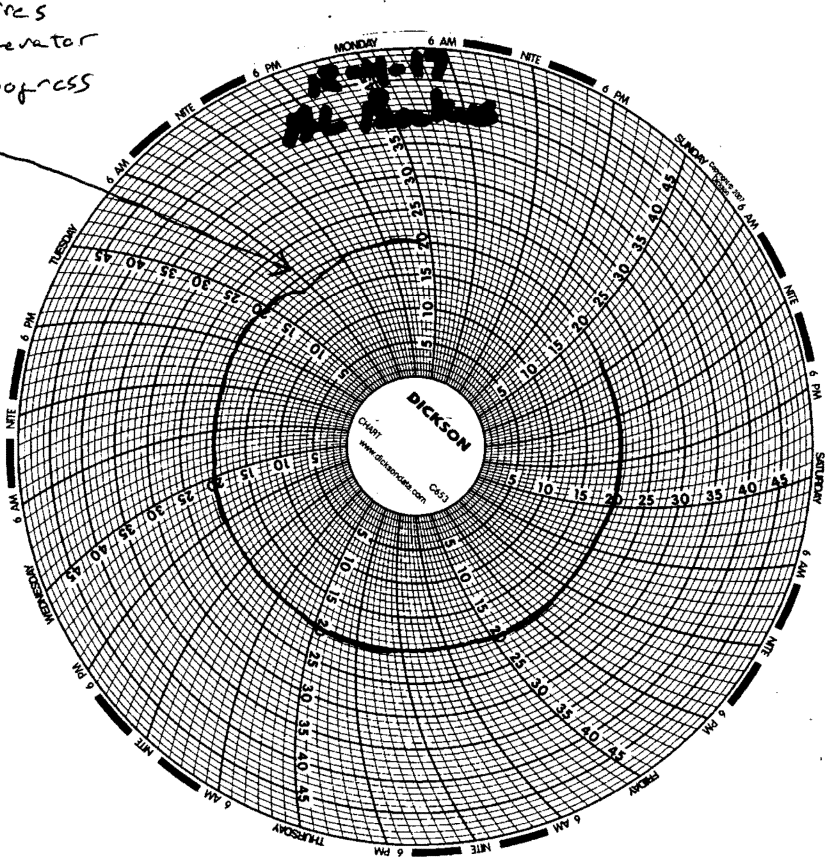
Test Temperature Chart

Test No: RT-171205

Date Tested: 12/05/17 to 12/09/17

Acceptable Range: 20 +/- 1°C

Power out due to fires
- switched to backup generator
- No NPDES tests in progress till Tuesday 12/5/17



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

14171

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

Client: The Source Group, Inc.	**Project Name / No.:** DFSP - Norwalk / 091-NDLA / Annual NPDES	**Sampler's Name:** Glenn Androsko	
Project Manager: Neil Irish	**Site Address:** 15306 Norwalk Blvd	**Sampler's Signature:**	
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)

Please enter the TAT Turnaround Codes ** below

Client I.D.	Lab ID	Date	Time	Sample Matrix	No. of Cont	TPHd 8015M	TPHg/MTBE/TBA 8260B	Arsenic 200.7	TDS, TSS, Turbidity	BOD5 20 deg C	Oil & Grease	Settleable Solids	Sulfides, Phenols	Residual Chlorine, Copper	Methylene Blue Active Substances	Acute Toxicity 40 CFR 136	Special Instructions
Effluent	7L04018-01	12-4-17	1340	Water	1									✓		✓	Report J-Flags

RECEIVED Date 12/4/17 Time 1645 Sign: TAT N Days

A5332384/7L04018

Relinquished by	Date	Time	Received by
Glenn Androsko	12-4-17	1345	
Relinquished by	Date	Time	Received by
	12/4/17	1632	
Relinquished by	Date	Time	Received by

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.

AMERICAN ANALYTICS

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

January 03, 2018

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

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

A5332399 / 7L11013

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 12/11/17 15:41 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332399
Date Received: 12/11/17
Date Reported: 01/03/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B TPHGASOLINEBTEXOXY					
Effluent	7L11013-01	Water	5	12/11/17 09:58	12/11/17 15:41
Arsenic Total EPA 200.7					
Effluent	7L11013-01	Water	5	12/11/17 09:58	12/11/17 15:41
Diesel Range Organics 8015M					
Effluent	7L11013-01	Water	5	12/11/17 09:58	12/11/17 15:41

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5332399
Project No:	04-NDLA-013	**Date Received:**	12/11/17
Project Name:	DFSP Norwalk GWETS NPDES Monthly	**Date Reported:**	01/03/18
Method:	TPHG/BTEX/Oxygenates by GC/MS	**Units:**	ug/L

Date Sampled:	12/11/17		
Date Prepared:	12/20/17		
Date Analyzed:	12/20/17		
AA ID No:	7L11013-01		
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		**%REC Limits**	
4-Bromofluorobenzene	104%	70-140	
Dibromofluoromethane	85%	70-140	
Toluene-d8	109%	70-140	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5332399
Project No:	04-NDLA-013	**Date Received:**	12/11/17
Project Name:	DFSP Norwalk GWETS NPDES Monthly	**Date Reported:**	01/03/18
Method:	Diesel Range Organics by GC/FID	**Units:**	ug/L

Date Sampled:	12/11/17		
Date Prepared:	12/21/17		
Date Analyzed:	12/21/17		
AA ID No:	7L11013-01		
Client ID No:	Effluent		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL
Diesel Range Organics 8015M (EPA 8015M)			
Diesel Range Organics as Diesel	<60	60	100

Surrogates		**%REC Limits**
o-Terphenyl	68%	50-150

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: A5332399
Date Received: 12/11/17
Date Reported: 01/03/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
Arsenic Total EPA 200.7 (EPA 200.7)									
7L11013-01	Effluent	12/11/17	12/15/17	12/18/17	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: A5332399
Date Received: 12/11/17
Date Reported: 01/03/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
Batch B7L2025 - EPA 5030B										
Blank (B7L2025-BLK1)				Prepared & Analyzed: 12/20/17						
tert-Amyl Methyl Ether (TAME)	<0.30	0.30	ug/L							
Benzene	<0.20	0.20	ug/L							
tert-Butyl alcohol (TBA)	<7.0	7.0	ug/L							
Diisopropyl ether (DIPE)	<0.50	0.50	ug/L							
Ethylbenzene	<0.20	0.20	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	<0.40	0.40	ug/L							
Gasoline Range Organics (GRO)	<40	40	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<0.40	0.40	ug/L							
Toluene	<0.30	0.30	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.40	0.40	ug/L							
Surrogate: 4-Bromofluorobenzene	*50.9*		*ug/L*	*50*		*102*	*70-140*			
Surrogate: Dibromofluoromethane	*45.0*		*ug/L*	*50*		*90.1*	*70-140*			
Surrogate: Toluene-d8	*50.8*		*ug/L*	*50*		*102*	*70-140*			
LCS (B7L2025-BS1)				Prepared: 12/20/17 Analyzed: 12/21/17						
tert-Amyl Methyl Ether (TAME)	**21.0**	0.30	ug/L	20		105	70-130			
Benzene	**20.4**	0.20	ug/L	20		102	75-125			
tert-Butyl alcohol (TBA)	**90.1**	7.0	ug/L	100		90.1	70-130			
Diisopropyl ether (DIPE)	**21.4**	0.50	ug/L	20		107	70-130			
Ethylbenzene	**21.0**	0.20	ug/L	20		105	75-125			
Ethyl-tert-Butyl Ether (ETBE)	**20.8**	0.40	ug/L	20		104	70-130			
Gasoline Range Organics (GRO)	**514**	40	ug/L	500		103	70-130			
Methyl-tert-Butyl Ether (MTBE)	**38.9**	0.40	ug/L	40		97.3	70-135			
Toluene	**21.2**	0.30	ug/L	20		106	75-125			
o-Xylene	**20.7**	0.30	ug/L	20		103	75-125			
m,p-Xylenes	**45.7**	0.40	ug/L	40		114	70-130			
Surrogate: 4-Bromofluorobenzene	*52.7*		*ug/L*	*50*		*105*	*70-140*			
Surrogate: Dibromofluoromethane	*52.1*		*ug/L*	*50*		*104*	*70-140*			
Surrogate: Toluene-d8	*53.3*		*ug/L*	*50*		*107*	*70-140*			
Matrix Spike (B7L2025-MS1)				**Source: 7L11013-01** Prepared & Analyzed: 12/20/17						

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: A5332399
Date Received: 12/11/17
Date Reported: 01/03/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
Batch B7L2025 - EPA 5030B										
Matrix Spike (B7L2025-MS1) Continued	**Source: 7L11013-01**			Prepared & Analyzed: 12/20/17						
tert-Amyl Methyl Ether (TAME)	**20.8**	0.30	ug/L	20		104	70-130			
Benzene	**19.7**	0.20	ug/L	20		98.3	70-130			
tert-Butyl alcohol (TBA)	**92.4**	7.0	ug/L	100	<10	92.4	70-130			
Diisopropyl ether (DIPE)	**21.1**	0.50	ug/L	20		106	70-130			
Ethylbenzene	**23.5**	0.20	ug/L	20		117	70-130			
Ethyl-tert-Butyl Ether (ETBE)	**20.5**	0.40	ug/L	20		103	70-130			
Methyl-tert-Butyl Ether (MTBE)	**38.8**	0.40	ug/L	40	<2.0	96.9	70-130			
Toluene	**23.2**	0.30	ug/L	20		116	70-130			
o-Xylene	**21.8**	0.30	ug/L	20		109	70-130			
m,p-Xylenes	**43.9**	0.40	ug/L	40		110	70-130			
Surrogate: 4-Bromofluorobenzene	*51.7*		*ug/L*	*50*		*103*	*70-140*			
Surrogate: Dibromofluoromethane	*47.9*		*ug/L*	*50*		*95.7*	*70-140*			
Surrogate: Toluene-d8	*56.0*		*ug/L*	*50*		*112*	*70-140*			
Matrix Spike Dup (B7L2025-MSD1)	**Source: 7L11013-01**			Prepared: 12/20/17 Analyzed: 12/21/17						
tert-Amyl Methyl Ether (TAME)	**20.9**	0.30	ug/L	20		104	70-130	0.528	30	
Benzene	**20.0**	0.20	ug/L	20		99.8	70-130	1.56	30	
tert-Butyl alcohol (TBA)	**85.3**	7.0	ug/L	100	<10	85.3	70-130	8.07	30	
Diisopropyl ether (DIPE)	**20.8**	0.50	ug/L	20		104	70-130	1.29	30	
Ethylbenzene	**22.3**	0.20	ug/L	20		111	70-130	5.20	30	
Ethyl-tert-Butyl Ether (ETBE)	**20.9**	0.40	ug/L	20		104	70-130	1.69	30	
Methyl-tert-Butyl Ether (MTBE)	**37.8**	0.40	ug/L	40	<2.0	94.5	70-130	2.46	30	
Toluene	**22.4**	0.30	ug/L	20		112	70-130	3.82	30	
o-Xylene	**21.9**	0.30	ug/L	20		109	70-130	0.366	30	
m,p-Xylenes	**45.6**	0.40	ug/L	40		114	70-130	3.71	30	
Surrogate: 4-Bromofluorobenzene	*50.8*		*ug/L*	*50*		*102*	*70-140*			
Surrogate: Dibromofluoromethane	*47.8*		*ug/L*	*50*		*95.5*	*70-140*			
Surrogate: Toluene-d8	*53.3*		*ug/L*	*50*		*107*	*70-140*			
Diesel Range Organics by GC/FID - Quality Control										
Batch B7L2126 - EPA 3510C										
Blank (B7L2126-BLK1)				Prepared & Analyzed: 12/21/17						

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: A5332399
Date Received: 12/11/17
Date Reported: 01/03/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Diesel Range Organics by GC/FID - Quality Control										
Batch B7L2126 - EPA 3510C										
Blank (B7L2126-BLK1) Continued				Prepared & Analyzed: 12/21/17						
Diesel Range Organics as Diesel	<60	60	ug/L							
Surrogate: o-Terphenyl	*32.9*		*ug/L*	*40*		*82.2*	*50-150*			
LCS (B7L2126-BS1)				Prepared & Analyzed: 12/21/17						
Diesel Range Organics as Diesel	**606**	60	ug/L	800		75.8	75-125		30	
Surrogate: o-Terphenyl	*39.1*		*ug/L*	*40*		*97.8*	*50-150*			
LCS Dup (B7L2126-BSD1)				Prepared & Analyzed: 12/21/17						
Diesel Range Organics as Diesel	**633**	60	ug/L	800		79.1	75-125	4.35	30	
Surrogate: o-Terphenyl	*36.2*		*ug/L*	*40*		*90.4*	*50-150*			
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control										
Batch B7L1504 - EPA 200.7										
Blank (B7L1504-BLK1)				Prepared: 12/15/17 Analyzed: 12/18/17						
Arsenic	<0.0060	0.0060	mg/L							
LCS (B7L1504-BS1)				Prepared: 12/15/17 Analyzed: 12/18/17						
Arsenic	**1.09**	0.0060	mg/L	1.0		109	80-120		20	
LCS Dup (B7L1504-BSD1)				Prepared: 12/15/17 Analyzed: 12/18/17						
Arsenic	**1.08**	0.0060	mg/L	1.0		108	80-120	0.368	20	
Matrix Spike (B7L1504-MS1)		**Source: 7L11014-05**		Prepared: 12/15/17 Analyzed: 12/18/17						
Arsenic	**1.06**	0.0060	mg/L	1.0	0.0192	104	75-125		20	
Matrix Spike Dup (B7L1504-MSD1)		**Source: 7L11014-05**		Prepared: 12/15/17 Analyzed: 12/18/17						
Arsenic	**1.07**	0.0060	mg/L	1.0	0.0192	105	75-125	1.41	20	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5332399
Project No:	04-NDLA-013	**Date Received:**	12/11/17
Project Name:	DFSP Norwalk GWETS NPDES Monthly	**Date Reported:**	01/03/18

Special Notes

Viorel Vasile
Operations Manager

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

14246

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

Client:	APEX/The Source Group, Inc.	**Project Name / No.:**	DFSP - Norwalk / 091-NDLA/ Monthly NPDES	**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.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	TPHd 8015M	TPHg/MTBE/TBA 8260B	Arsenic 200.7	Special Instructions
						Please enter the TAT Turnaround Codes ** below			
Effluent	7L11013-01	12-11-17	0958	Water	5	✓	✓	✓	Report J-Flags

RECEIVED
Date 12/11/17 Time 1627
TAT 10 days Sign.

A5332399/7L11013

Relinquished by	Date	Time	Received by
Glenn Androsko	12-11-17	1550	
	12/11/17	1594	
Relinquished by	Date	Time	Received by

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.

AMERICAN ANALYTICS

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

December 26, 2017

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

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

A5332413 / 7L20023

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 12/20/17 16:07 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332413
Date Received: 12/20/17
Date Reported: 12/26/17

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
Copper Total EPA 200.7					
Effluent	7L20023-01	Water	2	12/20/17 12:55	12/20/17 16:07

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: Total Metals by ICP Atomic Emission Spectroscopy

AA Project No: A5332413
Date Received: 12/20/17
Date Reported: 12/26/17

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
Copper Total EPA 200.7 (EPA 200.7)									
7L20023-01	Effluent	12/20/17	12/22/17	12/22/17	1	**0.089**	mg/L	0.002	0.002

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: A5332413
Date Received: 12/20/17
Date Reported: 12/26/17

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										
Batch B7L2210 - EPA 200.7										
Blank (B7L2210-BLK1)				Prepared & Analyzed: 12/22/17						
Copper	<0.0020	0.0020	mg/L							
LCS (B7L2210-BS1)				Prepared & Analyzed: 12/22/17						
Copper	**1.08**	0.0020	mg/L	1.0		108	80-120		20	
LCS Dup (B7L2210-BSD1)				Prepared & Analyzed: 12/22/17						
Copper	**1.11**	0.0020	mg/L	1.0		111	80-120	2.74	20	
Matrix Spike (B7L2210-MS1)		**Source: 7L20023-01**		Prepared & Analyzed: 12/22/17						
Copper	**1.16**	0.0020	mg/L	1.0	0.0894	108	75-125		20	
Matrix Spike Dup (B7L2210-MSD1)		**Source: 7L20023-01**		Prepared & Analyzed: 12/22/17						
Copper	**1.18**	0.0020	mg/L	1.0	0.0894	109	75-125	1.62	20	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5332413
Project No:	04-NDLA-013	**Date Received:**	12/20/17
Project Name:	DFSP Norwalk GWETS NPDES Annually	**Date Reported:**	12/26/17

Special Notes

Viorel Vasile
Operations Manager

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

14331

Client: APEX/The Source Group, Inc.	**Project Name / No.:** DFSP - Norwalk / 091-NDLA/ Monthly NPDES	**Sampler's Name:** Glenn Andrusko	
Project Manager: Neil Irish	**Site Address:** 15306 Norwalk Blvd	**Sampler's Signature:** [signature]	
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) — Please enter the TAT Turnaround Codes ** below

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	TPHd 8015M	TPHg/MTBE/TBA 8260B	Arsenic 200.7	Copper							Special Instructions * 48 Hour Rush
Effluent	7L20023-01	12-20-17	1255	Water	1				✓							Report J-Flags

PRIORITY
Rush 48 Hrs SH
Date [illegible] Time [illegible] Sign [signature]

A533243/7L20023

Relinquished by	Date	Time	Received by
[signature]	12-20-17	13:30	[signature]
[signature]	12-20-17	14:02	[signature]

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.

AMERICAN ANALYTICS

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

January 05, 2018

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

Re : DFSP Norwalk / 04-NDLA-013

A5332420 / 7L28014

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 12/28/17 13:51 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332420
Date Received: 12/28/17
Date Reported: 01/05/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
Copper Dissolved EPA 200.7					
Effluent	7L28014-01	Water	3	12/28/17 09:50	12/28/17 13:51
Copper Total EPA 200.7					
Effluent	7L28014-01	Water	3	12/28/17 09:50	12/28/17 13:51

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332420
Date Received: 12/28/17
Date Reported: 01/05/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
Copper Dissolved EPA 200.7 (EPA 200.7)									
7L28014-01	Effluent	12/28/17	01/03/18	01/03/18	1	<0.0070	mg/L	0.007	0.007

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332420
Date Received: 12/28/17
Date Reported: 01/05/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
Copper Total EPA 200.7 (EPA 200.7)									
7L28014-01	Effluent	12/28/17	01/03/18	01/03/18	1	<0.0070	mg/L	0.007	0.007

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332420
Date Received: 12/28/17
Date Reported: 01/05/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Dissolved Metals by ICP Atomic Emission Spectroscopy - Quality Control										
Batch B8A0318 - EPA 200.7										
Blank (B8A0318-BLK1)				Prepared & Analyzed: 01/03/18						
Copper	<0.0070	0.0070	mg/L							
LCS (B8A0318-BS1)				Prepared & Analyzed: 01/03/18						
Copper	**1.06**	0.0070	mg/L	1.0		106	80-120		20	
LCS Dup (B8A0318-BSD1)				Prepared & Analyzed: 01/03/18						
Copper	**1.04**	0.0070	mg/L	1.0		104	80-120	2.18	20	
Duplicate (B8A0318-DUP1)			**Source: 7L28015-02**	Prepared & Analyzed: 01/03/18						
Copper	**<0.0070**	0.0070	mg/L						30	
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control										
Batch B8A0319 - EPA 200.7										
Blank (B8A0319-BLK1)				Prepared & Analyzed: 01/03/18						
Copper	<0.0070	0.0070	mg/L							
LCS (B8A0319-BS1)				Prepared & Analyzed: 01/03/18						
Copper	**1.06**	0.0070	mg/L	1.0		106	80-120		20	
LCS Dup (B8A0319-BSD1)				Prepared & Analyzed: 01/03/18						
Copper	**1.04**	0.0070	mg/L	1.0		104	80-120	2.18	20	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5332420
Project No:	04-NDLA-013	**Date Received:**	12/28/17
Project Name:	DFSP Norwalk	**Date Reported:**	01/05/18

Special Notes

Viorel Vasile
Operations Manager

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

14376

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

Client:	APEX/The Source Group, Inc.	**Project Name / No.:**	DFSP - Norwalk / 091-NDLA-018	**Sampler's Name:**	Glenn Androsico
Project Manager:	Neil Irish	**Site Address:**	15306 Norwalk Blvd	**Sampler's Signature:**	Glenn Androsico
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.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	Total Copper 6010B	Dissolved Copper 6010B	Special Instructions
						Please enter the TAT Turnaround Codes ** below		
Effluent	7L28014-01	12-28-17	0950	Water	2	✓	✓	Report J-Flags
								✓ : 72-hr Push as per M. Wood 12/28/17

PRIORITY
72 Hrs
Rush
Date 12/28/17 Time 1630 Sign SH

AS33242O/7L28014

Relinquished by	Date	Time	Received by
Glenn Androsico	12-28-17	1310	
Relinquished by	12/28/17	1547	Received by
Relinquished by	Date	Time	Received by

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.

APPENDIX B

Laboratory ELAP Certification

CALIFORNIA
Water Boards
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

CERTIFICATE OF ENVIRONMENTAL ACCREDITATION

Is hereby granted to

American Analytics Inc.

Stationary Laboratory

9765 Eton Avenue

Chatsworth, CA 91311

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

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

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

Certificate No.: **1471**

Expiration Date: **3/31/2018**

Effective Date: **4/1/2017**

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

State Water Resources Control Board

April 19, 2017

George Havalias
American Analytics Inc.
9765 Eton Avenue
Chatsworth, CA 91311

Dear George Havalias: Certificate No. 1471

This notice advises that the laboratory named above has been certified as an environmental testing laboratory pursuant to the provisions of the Health and Safety Code (HSC), Division 101, Part 1, Chapter 4, Section 100825, *et seq.*

The Fields of Testing for which this laboratory has been certified are indicated on the enclosed "Fields of Testing" list. The certificate shall remain in effect until **March 31, 2018** unless it is revoked. This certificate is subject to an annual fee as determined by HSC 100860.1(a).

The application for renewal of this certificate must be received 90 days prior to the expiration date to remain in force according to HSC 100845(a). You must submit annual Proficiency Testing results before the due date of your annual fee to remain in compliance.

Any change in laboratory location or alteration to laboratory structure that could adversely affect quality of analysis in certified methods require notification prior to the change. Notification is also required for a transfer in ownership or appointment of new laboratory director within 30 days of the change (HSC, Section 100845(b) and (d)).

Your continued cooperation with the above requirements is essential for maintaining the high quality of the data produced by environmental laboratories certified by the State of California.

Please contact our office at (916) 323-3431 or elapca@waterboards.ca.gov with questions.

Sincerely,

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

Enclosure

CALIFORNIA STATE
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Accredited Fields of Testing

American Analytics Inc.
Stationary Laboratory
9765 Eton Avenue
Chatsworth, CA 91311
Phone: (818) 998-5547

Certificate No. **1471**
Expiration Date **3/31/2018**

Field of Testing: 102 - Inorganic Chemistry of Drinking Water

102.015	001	Hydrogen Ion (pH)	EPA 150.1
102.026	001	Calcium	EPA 200.7
102.026	002	Magnesium	EPA 200.7
102.026	003	Potassium	EPA 200.7
102.026	004	Silica	EPA 200.7
102.026	005	Sodium	EPA 200.7
102.026	006	Hardness (calculation)	EPA 200.7
102.030	001	Bromide	EPA 300.0
102.030	003	Chloride	EPA 300.0
102.030	005	Fluoride	EPA 300.0
102.030	006	Nitrate (as N)	EPA 300.0
102.030	007	Nitrite (as N)	EPA 300.0
102.030	008	Phosphate, Ortho (as P)	EPA 300.0
102.030	009	Sulfate	EPA 300.0
102.045	001	Perchlorate	EPA 314.0
102.100	001	Alkalinity	SM2320B-1997
102.121	001	Hardness	SM2340C-1997
102.130	001	Conductivity	SM2510B-1997
102.140	001	Residue, Filterable TDS	SM2540C-1997
102.175	002	Chlorine, Total Residual	SM4500-Cl G-2000
102.190	001	Cyanide, Total	SM4500-CN E
102.260	001	Total Organic Carbon TOC	SM5310B-2000

Field of Testing: 103 - Toxic Chemical Elements of Drinking Water

103.130	001	Aluminum	EPA 200.7
103.130	003	Barium	EPA 200.7
103.130	004	Beryllium	EPA 200.7
103.130	005	Cadmium	EPA 200.7
103.130	007	Chromium	EPA 200.7
103.130	009	Iron	EPA 200.7
103.130	011	Manganese	EPA 200.7
103.130	012	Nickel	EPA 200.7
103.130	015	Silver	EPA 200.7
103.130	017	Zinc	EPA 200.7
103.130	018	Boron	EPA 200.7
103.140	002	Antimony	EPA 200.8
103.140	003	Arsenic	EPA 200.8
103.140	004	Barium	EPA 200.8
103.140	005	Beryllium	EPA 200.8

103.140	006	Cadmium	EPA 200.8
103.140	007	Chromium	EPA 200.8
103.140	008	Copper	EPA 200.8
103.140	009	Lead	EPA 200.8
103.140	010	Manganese	EPA 200.8
103.140	012	Nickel	EPA 200.8
103.140	013	Selenium	EPA 200.8
103.140	014	Silver	EPA 200.8
103.140	015	Thallium	EPA 200.8
103.140	016	Zinc	EPA 200.8
103.140	018	Vanadium	EPA 200.8
103.160	001	Mercury	EPA 245.1
103.310	001	Chromium (VI)	EPA 218.6

Field of Testing: 104 - Volatile Organic Chemistry of Drinking Water

104.040	000	Volatile Organic Compounds	EPA 524.2
104.040	001	Benzene	EPA 524.2
104.040	007	n-Butylbenzene	EPA 524.2
104.040	008	sec-Butylbenzene	EPA 524.2
104.040	009	tert-Butylbenzene	EPA 524.2
104.040	010	Carbon Tetrachloride	EPA 524.2
104.040	011	Chlorobenzene	EPA 524.2
104.040	015	2-Chlorotoluene	EPA 524.2
104.040	016	4-Chlorotoluene	EPA 524.2
104.040	019	1,3-Dichlorobenzene	EPA 524.2
104.040	020	1,2-Dichlorobenzene	EPA 524.2
104.040	021	1,4-Dichlorobenzene	EPA 524.2
104.040	022	Dichlorodifluoromethane	EPA 524.2
104.040	023	1,1-Dichloroethane	EPA 524.2
104.040	024	1,2-Dichloroethane	EPA 524.2
104.040	025	1,1-Dichloroethene	EPA 524.2
104.040	026	cis-1,2-Dichloroethene	EPA 524.2
104.040	027	trans-1,2-Dichloroethene	EPA 524.2
104.040	028	Dichloromethane	EPA 524.2
104.040	029	1,2-Dichloropropane	EPA 524.2
104.040	033	cis-1,3-Dichloropropene	EPA 524.2
104.040	034	trans-1,3-Dichloropropene	EPA 524.2
104.040	035	Ethylbenzene	EPA 524.2
104.040	037	Isopropylbenzene	EPA 524.2
104.040	039	Naphthalene	EPA 524.2
104.040	041	N-propylbenzene	EPA 524.2
104.040	042	Styrene	EPA 524.2
104.040	043	1,1,1,2-Tetrachloroethane	EPA 524.2
104.040	044	1,1,2,2-Tetrachloroethane	EPA 524.2
104.040	045	Tetrachloroethene	EPA 524.2
104.040	046	Toluene	EPA 524.2
104.040	047	1,2,3-Trichlorobenzene	EPA 524.2
104.040	048	1,2,4-Trichlorobenzene	EPA 524.2

104.040	049	1,1,1-Trichloroethane	EPA 524.2
104.040	050	1,1,2-Trichloroethane	EPA 524.2
104.040	051	Trichloroethene	EPA 524.2
104.040	052	Trichlorofluoromethane	EPA 524.2
104.040	054	1,2,4-Trimethylbenzene	EPA 524.2
104.040	055	1,3,5-Trimethylbenzene	EPA 524.2
104.040	056	Vinyl Chloride	EPA 524.2
104.040	057	Xylenes, Total	EPA 524.2
104.045	004	Dibromochloromethane	EPA 524.2
104.050	002	Methyl tert-butyl Ether (MTBE)	EPA 524.2
104.050	003	tert-Amyl Methyl Ether (TAME)	EPA 524.2
104.050	004	Ethyl tert-butyl Ether (ETBE)	EPA 524.2
104.050	006	tert-Butyl Alcohol (TBA)	EPA 524.2

Field of Testing: 108 - Inorganic Chemistry of Wastewater

108.110	001	Turbidity	EPA 180.1
108.112	001	Boron	EPA 200.7
108.112	002	Calcium	EPA 200.7
108.112	003	Hardness (calculation)	EPA 200.7
108.112	004	Magnesium	EPA 200.7
108.112	005	Potassium	EPA 200.7
108.112	006	Silica, Dissolved	EPA 200.7
108.112	007	Sodium	EPA 200.7
108.120	001	Bromide	EPA 300.0
108.120	002	Chloride	EPA 300.0
108.120	003	Fluoride	EPA 300.0
108.120	008	Sulfate	EPA 300.0
108.120	012	Nitrate (as N)	EPA 300.0
108.120	013	Nitrate-Nitrite (as N)	EPA 300.0
108.120	014	Nitrite (as N)	EPA 300.0
108.120	015	Phosphate, Ortho (as P)	EPA 300.0
108.323	001	Chemical Oxygen Demand	EPA 410.4
108.381	001	Oil and Grease	EPA 1664A
108.390	001	Turbidity	SM2130B-2001
108.410	001	Alkalinity	SM2320B-1997
108.421	001	Hardness	SM2340C-1997
108.430	001	Conductivity	SM2510B-1997
108.440	001	Residue, Total	SM2540B-1997
108.441	001	Residue, Filterable TDS	SM2540C-1997
108.442	001	Residue, Non-filterable TSS	SM2540D-1997
108.443	001	Residue, Settleable	SM2540F-1997
108.465	001	Chlorine, Total Residual	SM4500-Cl G-2000
108.470	001	Cyanide, Total	SM4500-CN B or C-1999
108.472	001	Cyanide, Total	SM4500-CN E-1999
108.473	001	Cyanide, amenable	SM4500-CN G-1999
108.490	001	Hydrogen Ion (pH)	SM4500-H+ B-2000
108.502	002	Ammonia (as N)	SM4500-NH3 B,E-1997
108.536	001	Oxygen, dissolved	SM4500-O G-2001

108.584	001	Sulfide (as S)	SM4500-S= D-2000
108.592	001	Biochemical Oxygen Demand	SM5210B-2001
108.596	001	Organic Carbon-Total (TOC)	SM5310B-2000
108.660	001	Chemical Oxygen Demand	HACH8000

Field of Testing: 109 - Toxic Chemical Elements of Wastewater

109.010	001	Aluminum	EPA 200.7
109.010	002	Antimony	EPA 200.7
109.010	003	Arsenic	EPA 200.7
109.010	004	Barium	EPA 200.7
109.010	005	Beryllium	EPA 200.7
109.010	006	Boron	EPA 200.7
109.010	007	Cadmium	EPA 200.7
109.010	009	Chromium	EPA 200.7
109.010	010	Cobalt	EPA 200.7
109.010	011	Copper	EPA 200.7
109.010	012	Iron	EPA 200.7
109.010	013	Lead	EPA 200.7
109.010	015	Manganese	EPA 200.7
109.010	016	Molybdenum	EPA 200.7
109.010	017	Nickel	EPA 200.7
109.010	019	Selenium	EPA 200.7
109.010	021	Silver	EPA 200.7
109.010	023	Thallium	EPA 200.7
109.010	024	Tin	EPA 200.7
109.010	025	Titanium	EPA 200.7
109.010	026	Vanadium	EPA 200.7
109.010	027	Zinc	EPA 200.7
109.020	002	Antimony	EPA 200.8
109.020	003	Arsenic	EPA 200.8
109.020	004	Barium	EPA 200.8
109.020	005	Beryllium	EPA 200.8
109.020	006	Cadmium	EPA 200.8
109.020	007	Chromium	EPA 200.8
109.020	008	Cobalt	EPA 200.8
109.020	009	Copper	EPA 200.8
109.020	010	Lead	EPA 200.8
109.020	011	Manganese	EPA 200.8
109.020	012	Molybdenum	EPA 200.8
109.020	013	Nickel	EPA 200.8
109.020	014	Selenium	EPA 200.8
109.020	015	Silver	EPA 200.8
109.020	016	Thallium	EPA 200.8
109.020	017	Vanadium	EPA 200.8
109.020	018	Zinc	EPA 200.8
109.104	001	Chromium (VI)	EPA 218.6
109.190	001	Mercury	EPA 245.1
109.449	001	Iron	SM3500-Fe B-1997

Field of Testing: 110 - Volatile Organic Chemistry of Wastewater			
110.020	000	Purgeable Aromatics	EPA 602
110.040	000	Purgeable Organic Compounds	EPA 624
Field of Testing: 111 - Semi-volatile Organic Chemistry of Wastewater			
111.060	000	Polynuclear Aromatics	EPA 610
111.100	000	Base/Neutral & Acid Organics	EPA 625
111.103	000	Nitrosamines	EPA 625
111.170	000	Organochlorine Pesticides and PCBs	EPA 608
Field of Testing: 114 - Inorganic Chemistry of Hazardous Waste			
114.010	001	Antimony	EPA 6010B
114.010	002	Arsenic	EPA 6010B
114.010	003	Barium	EPA 6010B
114.010	004	Beryllium	EPA 6010B
114.010	005	Cadmium	EPA 6010B
114.010	006	Chromium	EPA 6010B
114.010	007	Cobalt	EPA 6010B
114.010	008	Copper	EPA 6010B
114.010	009	Lead	EPA 6010B
114.010	010	Molybdenum	EPA 6010B
114.010	011	Nickel	EPA 6010B
114.010	012	Selenium	EPA 6010B
114.010	013	Silver	EPA 6010B
114.010	014	Thallium	EPA 6010B
114.010	015	Vanadium	EPA 6010B
114.010	016	Zinc	EPA 6010B
114.020	001	Antimony	EPA 6020
114.020	002	Arsenic	EPA 6020
114.020	003	Barium	EPA 6020
114.020	004	Beryllium	EPA 6020
114.020	005	Cadmium	EPA 6020
114.020	006	Chromium	EPA 6020
114.020	007	Cobalt	EPA 6020
114.020	008	Copper	EPA 6020
114.020	009	Lead	EPA 6020
114.020	010	Molybdenum	EPA 6020
114.020	011	Nickel	EPA 6020
114.020	012	Selenium	EPA 6020
114.020	013	Silver	EPA 6020
114.020	014	Thallium	EPA 6020
114.020	015	Vanadium	EPA 6020
114.020	016	Zinc	EPA 6020
114.106	001	Chromium (VI)	EPA 7199
114.141	001	Mercury	EPA 7471A
114.241	001	Corrosivity - pH Determination	EPA 9045C
Field of Testing: 115 - Extraction Test of Hazardous Waste			
115.020	001	Toxicity Characteristic Leaching Procedure (TCLP)	EPA 1311

115.021	001	TCLP Inorganics	EPA 1311
115.022	001	TCLP Extractables	EPA 1311
115.023	001	TCLP Volatiles	EPA 1311
115.030	001	Waste Extraction Test (WET)	CCR Chapter11, Article 5, Appendix II
115.040	001	Synthetic Precipitation Leaching Procedure (SPLP)	EPA 1312

Field of Testing: 116 - Volatile Organic Chemistry of Hazardous Waste

116.030	001	Gasoline-range Organics	EPA 8015B
116.040	062	BTEX	EPA 8021B
116.080	000	Volatile Organic Compounds	EPA 8260B
116.100	001	Total Petroleum Hydrocarbons - Gasoline	LUFT GC/MS

Field of Testing: 117 - Semi-volatile Organic Chemistry of Hazardous Waste

117.010	001	Diesel-range Total Petroleum Hydrocarbons	EPA 8015B
117.017	001	TRPH Screening	EPA 418.1
117.110	000	Extractable Organics	EPA 8270C
117.140	000	Polynuclear Aromatic Hydrocarbons	EPA 8310
117.210	000	Organochlorine Pesticides	EPA 8081A
117.220	000	PCBs	EPA 8082

APPENDIX C

Report Certification

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

January 12, 2017

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

Dear Mr. Kai:

In reference to General National Pollutant Discharge Elimination System (NPDES) Permit (NPDES No. CAG994004) CFN# CI-7585, please accept this letter as DLA's certification of the Groundwater Discharge Monitoring Report – Quarter 4 of calendar year 2017 for the Defense Fuel Support Point (DFSP) Norwalk facility in Norwalk, California.

As discussed in the Report, the annual bioassay test was performed utilizing a sample collected on November 13, 2017, and it resulted in a percent survival below the required 90 percent threshold specified in Section IV, Part A.4 of the Monitoring and Reporting Program. To determine the cause of the increased mortality, an evaluation of the treatment system operations, sample collection procedures, and laboratory conditions was completed. However, no immediate cause of the reduced survival from the initial bioassay testing was determined. Subsequent to the initial testing results, split samples were collected on November 20, 2017, with bioassay testing performed by two separate laboratories. Both tests resulted in 100 percent survival.

Additionally, the November 13, 2017 copper sample was 160 micrograms per liter (µg/L) which exceeds the daily discharge limit of 30 µg/L. The groundwater extraction system was off-line due to the acute toxicity result exceedance. The system was temporarily restarted on December 4, 2017, following an ion exchange media change out, to collect a confirmation sample which also showed an elevated copper level of 160 µg/L. Ion exchange drums were installed at the end of the treatment train to help isolate the cause, and the system was temporarily restarted on December 20, 2017 to collect another copper sample, which contained 89 µg/L copper. Following the December 20, 2017 result, we added additional ion exchange media drums and replaced the10-micron bag filters with 1-micron filters for the purpose of reducing the potential for false positives caused by excessive solids in the water.

Results from the December 28, 2017 sampling event show compliance with the copper discharge limit. As further preventive measures we arranged additional sample collections to help define the source. Also, we are looking into adding holding tanks to the system to prevent potential releases in the future.

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

If you have any questions or need additional information concerning this document, please contact Ms. Carol Devier-Heeney at (703) 767-9813 or carol.devier-heeney@dla.mil.

Sincerely,

Digitally signed by
FLEMING.LAURA.ANN.1271112625
Date: 2018.01.12 07:24:09 -05'00'

Laura A. Fleming
Chief, Environmental Division

Enclosure
As stated

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

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_REPORT FILE

SUCCESS

Your GEO_REPORT file has been successfully submitted!

Submittal Type:	GEO_REPORT
Report Title:	Groundwater Discharge Monitoring Report Quarter 4, 2017
Report Type:	NPDES / WDR Reports
Report Date:	1/15/2018
Facility Global ID:	SLT43185183
Facility Name:	Norwalk, Fuel Terminal DFSP - DOD - NORWALK DFSP
File Name:	Groundwater Discharge Monitoring Report Quarter 4, 2017.pdf
Organization Name:	The Source Group, Inc.
Username:	SIGNAL HILL
IP Address:	66.214.148.134
Submittal Date/Time:	2/14/2018 11:03:13 AM
Confirmation Number:	4312637567