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Report Title: GROUNDWATER DISCHARGE MONITORING REPORT

**QUARTER 4, 2016** 

Report Type: NPDES / WDR Reports

Report Date: 1/13/2017

Facility Global ID: SLT43185183

Facility Name: Norwalk, Fuel Terminal DFSP - DOD - NORWALK DFSP

File Name: Groundwater Discharge Monitoring Report Quarter 4,

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Organization Name: The Source Group, Inc.

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Telephone: 562-597-1055

Facsimile: 562-597-1070

January 13, 2017

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

Subject: GROUNDWATER DISCHARGE MONITORING REPORT

**QUARTER 4, 2016** 

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

Defense Fuel Support Point, Norwalk

15306 Norwalk Boulevard

Norwalk, California

On behalf of The Defense Logistics Agency Installation Support for Energy (DLA Energy), The Source Group, Inc. (SGI) presents this groundwater discharge monitoring report to summarize the National Pollutant Discharge Elimination System (NPDES) monitoring activities for Quarter 4, 2016 at Defense Fuel Support Point (DFSP), Norwalk located at 15306 Norwalk Boulevard, in Norwalk, California (Site).

#### SUMMARY OF REMEDIATION PROGRESS AND DISCHARGE VOLUMES

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

The GWETS consists of five vertical extraction wells (four 6-inch diameter wells and one 4-inch diameter well), three bag filter vessels, two MYCELX oil separator vessels, three granular activated carbon (GAC) vessels, and two ion exchange vessels. Four wells (GW-2, GW-13, GW-15, and GW-16) were in operation during this reporting period. As summarized in Table 1, the treated groundwater was discharged in accordance with NPDES Permit No. CAG994004, Compliance File No. CI-7585 with the exception that the annual acute toxicity sample collected on November 1, 2016 yielded a result of 0% survival (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 382,910 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 0.9 pounds (Table 2c) during Quarter 4, 2016.

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

#### SUMMARY OF COMPLIANCE RESULTS

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

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

#### SUMMARY OF NON-COMPLIANCE

The GWETS operated in compliance with NPDES No. CAG994004, CI-7585 during this reporting period with the exception that the annual acute toxicity sampled collected on November 1, 2016 yielded a result of 0% survival. As indicated on Table 1, this result was received on November 7, 2016 and discharge was immediately terminated the same day after collecting a confirmation sample for laboratory analysis. Discharge resumed on November 23, 2016 based on a confirmation sample result of 98% survival per SGI's November 22, 2016 Acute Toxicity Testing Exceedance Report which also includes all of the associated notification details, investigative measures, and follow up actions taken and planned to help ensure continued permit compliance.

Per SGI's November 22, 2016 report, the anomalous November 1, 2016 acute toxicity test result was not repeatable and is considered suspect since no definitive cause could be identified. The system has been operating under normal conditions since before the annual toxicity sample was collected and no new chemicals have been introduced into the treatment train. 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 Monitoring and Reporting Program, accelerated monthly acute toxicity testing will be conducted for at least three consecutive months with the December 2016 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.

#### LABORATORY CERTIFICATION

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

#### REPORT CERTIFICATION

The DLA Energy report certification is provided in Appendix C.

Sincerely,

Michael Wood, P.E.

Muhul Wool

Senior Engineer

Neil F. Irish, P.G. 5484

Principal Geologist

Weil & Sish

#### Attachments:

Table 1 — Summary of Effluent Groundwater Analytical Sampling Results - 4<sup>th</sup> Quarter 2016 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

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**TABLES** 

# TABLE 1 Summary of Effluent Groundwater Analytical Sampling Results - 4th Quarter 2016

DFSP, Norwalk

15306 Norwalk Blvd., Norwalk, CA

	Sam	pling Frequency			Monthly Quarterly						Annually										
Lab	oratory A	analysis Methods		SM 4500 H+B <sup>a</sup>		EPA 8015B (M)	EPA 8260B	EPA 8260B	EPA 6020	SM 5520 B	EPA 6020	SM 2130 B	SM 4500 S2-D	SM 4500-CI F <sup>b</sup>	SM 2540 C	SM 2540 D	SM 2540 F	SM 5540 C	EPA 420.1	SM 5210 B	EPA 2000.0
Da	aily Disch	narge Limitations				100 μg/L	5 μg/L	12 μg/L	10 μg/L	15 mg/L	30 μg/L	150 NTU	1.0 mg/L	0.1 mg/L		75 mg/L	0.3 mL/L	0.5 mg/L	1.0 mg/L	30 mg/L	
Mont	hly Disch	narge Limitations								10 mg/L	15 μg/L	50 NTU				50 mg/L	0.1 mL/L			20 mg/L	
Sample Date	Notes	GWETS Wells On Line	Average Flow Rate	рН	Temp- erature	ТРН	МТВЕ	ТВА	Arsenic	Oil & Grease	Copper	Turbidity	Sulfides	Residual Chlorine	Total Dissolved Solids	Total Suspended Solids	Settleable Solids	MBAS	Phenois	BOD₅ 20°C	Acute Toxicity
			(gpm)	pH units	°C	(μg/L)	(μg/L)	(µg/L)	(μg/L)	(mg/L)	(µg/L)	(NTU)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mL/L)	(mg/L)	(mg/L)	(mg/L)	(% Survival)
10/12/16	1	GW-2, GW-13, GW-15, GW-16	3.8	7.55	20.5	<100	<0.40	<7.0	8.0		1		1	1						1	
11/01/16		GW-2, GW-13, GW-15, GW-16	4.2	7.50	22.0	<100	<0.40	<7.0	<6.0	2.0 J	<2.0	0.35 J	<0.027	<0.1	1,200	<5.0	<0.1	<0.05	<0.15	<5.0	0 *
11/07/16	2,3,4	GW-2, GW-13, GW-15, GW-16	5.3		1			1		-	1		1	1						1	98
12/05/16	5	GW-2, GW-13, GW-15	3.2	7.60	19.8	<100	<0.40	<7.0	<6.0				-							-	100

#### 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 available or not analyzed
- $\label{eq:J-Laboratory} \textbf{J} = \textbf{Laboratory estimated value since analyte detected below Method Reporting Limit (MRL) but above MDL.}$
- a = Measured in the field using an Oakton® pH Tester Model 30.
- b = Measured in the field using a HACH® Chlorine Test Kit Model CN-70.
- 1 = GWETS restarted following completion of groundwater monitoring and sampling activities (system off-line since 09/26/16).
- 2 = Annual acute toxicity testing result from 11/01/16 sampling event received on 11/07/16 (GWETS manually shutdown the same day after collecting confirmation sample for laboratory analysis).
- 3 = GWETS restarted on 11/23/16 based on acute toxicity testing result from 11/07/16 confirmation sample (i.e., 98% survival) and following associated regulatory notifications and NPDES permit required reporting.
- 4 = Pumps in wells GW-13, GW-15 and GW-16 off-line for maintenance from 11/23/16 to 11/28/16, 11/28/16 to 12/1/16 and 11/23/16 to 12/19/16, respectively.
- 5 = Results of additional monthly acute toxicity test samples collected as part of accelerated permit compliance monitoring (duplicate samples collected and sent to independent laboratories as a precautionary measure with both results yielding 100% survival).

<sup>\* =</sup> See SGI's November 22, 2016 Acute Toxicity Testing Exceedance Report for notification details, investigative measures and follow up actions taken and planned to help ensure continued permit compliance.

# 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)	Influent DRO (ug/L)	Cumulative DRO Removed <sup>A</sup> (lb)
10/01/16	Off line	1	772,573	3,903,274	2,041,678	7,731,911	9,773,589	4,675,847	75,461,337		9,943
10/02/16	Off line		772,573	3,903,274	2,041,678	7,731,911	9,773,589	4,675,847	75,461,337		9,943
10/03/16	Off line		772,573	3,903,274	2,041,678	7,731,911	9,773,589	4,675,847	75,461,337		9,943
10/04/16	Off line		772,573	3,903,274	2,041,678	7,731,911	9,773,589	4,675,847	75,461,337		9,943
10/05/16	Off line		772,573	3,903,274	2,041,678	7,731,911	9,773,589	4,675,847	75,461,337		9,943
10/06/16	Off line		772,573	3,903,274	2,041,678	7,731,911	9,773,589	4,675,847	75,461,337		9,943
10/07/16	Off line		772,573	3,903,274	2,041,678	7,731,911	9,773,589	4,675,847	75,461,337		9,943
10/08/16	Off line		772,573	3,903,274	2,041,678	7,731,911	9,773,589	4,675,847	75,461,337		9,943
10/09/16	Off line		772,573	3,903,274	2,041,678	7,731,911	9,773,589	4,675,847	75,461,337		9,943
10/10/16	Off line		772,573	3,903,274	2,041,678	7,731,911	9,773,589	4,675,847	75,461,337		9,943
10/11/16	Off line		772,573	3,903,274	2,041,678	7,731,911	9,773,589	4,675,847	75,461,337		9,943
10/12/16	Technician	2,3	772,573	3,903,274	2,041,678	7,731,911	9,773,589	4,675,847	75,461,337	230	9,943
10/13/16	*		773,971	3,906,920	2,043,531	7,733,291	9,776,822	4,680,891	75,466,751		9,943
10/14/16	*		775,369	3,910,566	2,045,383	7,734,671	9,780,054	4,685,935	75,472,165		9,943
10/15/16	*		776,766	3,914,213	2,047,236	7,736,051	9,783,287	4,690,979	75,477,578		9,943
10/16/16	*		778,164	3,917,859	2,049,088	7,737,431	9,786,519	4,696,023	75,482,992		9,943
10/17/16	*		779,562	3,921,505	2,050,941	7,738,811	9,789,752	4,701,067	75,488,406		9,943
10/18/16	Technician		781,120	3,925,569	2,053,006	7,740,349	9,793,355	4,706,689	75,494,440		9,943
10/19/16	*		781,131	3,925,578	2,053,022	7,740,364	9,793,386	4,706,709	75,494,473		9,943
10/20/16	*		781,143	3,925,587	2,053,038	7,740,379	9,793,417	4,706,730	75,494,507		9,943
10/21/16	*		781,154	3,925,596	2,053,054	7,740,395	9,793,449	4,706,750	75,494,540		9,943
10/22/16	*		781,165	3,925,605	2,053,070	7,740,410	9,793,480	4,706,770	75,494,573		9,943
10/23/16	*		781,176	3,925,614	2,053,086	7,740,425	9,793,511	4,706,790	75,494,606		9,943
10/24/16	*		781,188	3,925,623	2,053,102	7,740,440	9,793,542	4,706,811	75,494,640		9,943
10/25/16	*		781,199	3,925,632	2,053,118	7,740,456	9,793,573	4,706,831	75,494,673		9,943
10/26/16	Technician		791,334	3,945,110	2,072,111	7,758,892	9,831,003	4,736,444	75,539,262		9,943
10/27/16	*		792,635	3,947,358	2,074,648	7,761,164	9,835,812	4,739,993	75,545,328		9,943
10/28/16	*		793,936	3,949,606	2,077,185	7,763,436	9,840,621	4,743,542	75,551,394		9,943
10/29/16	*		795,237	3,951,854	2,079,722	7,765,708	9,845,430	4,747,092	75,557,460		9,943
10/30/16	*		796,539	3,954,102	2,082,259	7,767,980	9,850,239	4,750,641	75,563,526		9,943
10/31/16	*		797,840	3,956,350	2,084,796	7,770,252	9,855,048	4,754,190	75,569,591		9,943

Cumulative Groundwater Discharged by the GWETS to Date (gallons)									
Period	October	Quarter 1, 2016	Quarter 2, 2016	Quarter 3, 2016	Quarter 4, 2016	2016 to Date	April 1996 to Date		
Volume	108,254	496,032	407,531	698,046	108,254	1,709,863	75,569,591		

Cumulative Mass DRO Removed by the GWETS A (Ib)									
Period	October	Quarter 4 to Date	April 1996 to Date						
Mass	0.21	0.21	9,943.1						



#### Legend / Notes:

- 1 = GWETS off-line since 09/26/16 to conduct groundwater monitoring and sampling activities.
- 2 = GWETS restarted following completion of groundwater monitoring and sampling activities.
- 3 = Collected monthly influent, intermediate, and effluent water samples for laboratory analysis.

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

GWETS = Groundwater extraction and treatment system

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: 10/12/16 (laboratory report attached).
- -- = Not applicable

<sup>\* =</sup> 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)	Influent DRO (ug/L)	Cumulative DRO Removed <sup>A</sup> (lb)
11/01/16	Technician	1,2,3,4	0	3,958,177	2,086,857	7,772,098	9,858,955	4,757,074	75,574,520	120	9,943
11/02/16	*		0	3,958,964	2,091,204	7,773,265	9,864,469	4,630,165	75,582,179		9,943
11/03/16	*		0	3,959,751	2,095,550	7,774,433	9,869,983	4,503,257	75,589,838		9,943
11/04/16	*		0	3,960,538	2,099,897	7,775,600	9,875,498	4,376,348	75,597,497		9,943
11/05/16	*		0	3,961,324	2,104,244	7,776,768	9,881,012	4,249,440	75,605,156		9,943
11/06/16	*		0	3,962,111	2,108,591	7,777,935	9,886,526	4,122,531	75,612,815		9,943
11/07/16	Technician	5	15,876	3,963,002	2,113,511	7,779,257	9,892,768	3,978,878	75,621,485		9,943
11/08/16	Off line		15,876	3,963,002	2,113,511	7,779,257	9,892,768	3,978,878	75,621,485		9,943
11/09/16	Off line		15,876	3,963,002	2,113,511	7,779,257	9,892,768	3,978,878	75,621,485		9,943
11/10/16	Off line		15,876	3,963,002	2,113,511	7,779,257	9,892,768	3,978,878	75,621,485		9,943
11/11/16	Off line		15,876	3,963,002	2,113,511	7,779,257	9,892,768	3,978,878	75,621,485		9,943
11/12/16	Off line		15,876	3,963,002	2,113,511	7,779,257	9,892,768	3,978,878	75,621,485		9,943
11/13/16	Off line		15,876	3,963,002	2,113,511	7,779,257	9,892,768	3,978,878	75,621,485		9,943
11/14/16	Off line		15,876	3,963,002	2,113,511	7,779,257	9,892,768	3,978,878	75,621,485		9,943
11/15/16	Off line		15,876	3,963,002	2,113,511	7,779,257	9,892,768	3,978,878	75,621,485		9,943
11/16/16	Off line		15,876	3,963,002	2,113,511	7,779,257	9,892,768	3,978,878	75,621,485		9,943
11/17/16	Off line		15,876	3,963,002	2,113,511	7,779,257	9,892,768	3,978,878	75,621,485		9,943
11/18/16	Off line		15,876	3,963,002	2,113,511	7,779,257	9,892,768	3,978,878	75,621,485		9,943
11/19/16	Off line		15,876	3,963,002	2,113,511	7,779,257	9,892,768	3,978,878	75,621,485		9,943
11/20/16	Off line		15,876	3,963,002	2,113,511	7,779,257	9,892,768	3,978,878	75,621,485		9,943
11/21/16	Off line		15,876	3,963,002	2,113,511	7,779,257	9,892,768	3,978,878	75,621,485		9,943
11/22/16	Off line		15,876	3,963,002	2,113,511	7,779,257	9,892,768	3,978,878	75,621,485		9,943
11/23/16	Technician	6,7	15,876	3,963,002	2,113,511	7,779,257	9,892,768	3,978,878	75,621,485		9,943
11/24/16	*		19,060	3,963,002	2,115,138	7,779,257	9,894,395	3,982,062	75,625,852		9,943
11/25/16	*		22,243	3,963,002	2,116,764	7,779,257	9,896,021	3,985,245	75,630,218		9,943
11/26/16	*		25,427	3,963,002	2,118,391	7,779,257	9,897,648	3,988,429	75,634,585		9,943
11/27/16	*		28,610	3,963,002	2,120,017	7,779,257	9,899,274	3,991,612	75,638,951		9,943
11/28/16	Technician	8	31,595	3,963,002	2,121,542	7,779,257	9,900,799	3,994,597	75,643,045		9,943
11/29/16	*		33,908	3,963,875	2,121,542	7,779,257	9,900,799	3,997,783	75,647,229		9,943
11/30/16	*		36,221	3,964,748	2,121,542	7,779,257	9,900,799	4,000,969	75,651,414		9,943

Cumulative Groundwater Discharged by the GWETS (gallons)										
Period	November	Quarter 1, 2016	Quarter 2, 2016	Quarter 3, 2016	Quarter 4, 2016	2016 to Date	April 1996 to Date			
Volume	81,823	496,032	407,531	698,046	190,077	1,791,686	75,651,414			

Cumu	lative Mass DRO Ro	emoved by the GWI	ETS <sup>A</sup> (lb)
Period	November	Quarter 4 to Date	April 1996 to Date
Mass	0.08	0.29	9,943.2

#### Legend / Notes:

- 1 = Collected monthly process, intermediate and effluent water samples for laboratory analysis.
- 2 = Collected annual effluent water samples for laboratory analysis.
- 3 = Measured residual chlorine in the field using HACH Test Kit Model CN-70.
- 4 = GW-2 totalizer replaced.
- 5 = GWETS manually shut down due to annual acute toxicity testing result exceedance (collected confirmation sample for laboratory analysis prior to system shutdown).
- 6 = GWETS restarted based on confirmation acute toxicity testing result and following associated regulatory notifications and NPDES permit required reporting.
- 7 = Manually shutdown GW-13 and GW-16 for pump maintenance.
- 8 = GW-15 manually shut down for pump maintenance and GW-13 brought back online.

GWETS = Groundwater extraction and treatment system  $\mu g/L$  - 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: 11/01/16 (laboratory report attached).
- -- = Not applicable
- \* = Operational values interpolated from chart recorder data or previous monitoring event.

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

# 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)	Influent DRO (ug/L)	Cumulative DRO Removed <sup>A</sup> (lb)
12/01/16	Technician	1	38,678	3,965,676	2,121,542	7,779,257	9,900,799	4,004,354	75,655,860		9,943
12/02/16	*		40,851	3,966,535	2,126,268	7,779,257	9,905,525	4,007,386	75,662,504		9,943
12/03/16	*		43,023	3,967,394	2,130,995	7,779,257	9,910,252	4,010,417	75,669,148		9,943
12/04/16	*		45,196	3,968,253	2,135,721	7,779,257	9,914,978	4,013,449	75,675,792		9,943
12/05/16	Technician	2,3	46,984	3,968,960	2,139,611	7,779,257	9,918,868	4,015,944	75,681,260	450	9,943
12/06/16	*		48,950	3,970,086	2,142,352	7,779,257	9,921,609	4,019,036	75,685,909		9,943
12/07/16	*		50,915	3,971,212	2,145,093	7,779,257	9,924,350	4,022,127	75,690,559		9,943
12/08/16	*		52,881	3,972,338	2,147,833	7,779,257	9,927,090	4,025,219	75,695,208		9,943
12/09/16	*		54,847	3,973,464	2,150,574	7,779,257	9,929,831	4,028,310	75,699,857		9,943
12/10/16	*		56,812	3,974,590	2,153,315	7,779,257	9,932,572	4,031,402	75,704,507		9,943
12/11/16	*		58,778	3,975,716	2,156,056	7,779,257	9,935,313	4,034,494	75,709,156		9,943
12/12/16	Technician		61,160	3,977,080	2,159,377	7,779,257	9,938,634	4,038,240	75,714,790		9,943
12/13/16	*		62,874	3,978,615	2,162,775	7,779,257	9,942,032	4,041,489	75,721,914		9,943
12/14/16	*		64,587	3,980,151	2,166,173	7,779,257	9,945,430	4,044,738	75,729,038		9,943
12/15/16	*		66,301	3,981,686	2,169,571	7,779,257	9,948,828	4,047,987	75,736,162		9,943
12/16/16	Technician		67,848	3,983,072	2,172,638	7,779,257	9,951,895	4,050,920	75,742,594		9,943
12/17/16	*		68,381	3,986,062	2,176,665	7,779,257	9,955,922	4,054,443	75,749,506		9,943
12/18/16	*		68,914	3,989,052	2,180,692	7,779,257	9,959,949	4,057,966	75,756,419		9,943
12/19/16	Technician	4	69,384	3,991,689	2,184,244	7,779,257	9,963,501	4,061,073	75,762,515		9,944
12/20/16	*		71,107	3,992,446	2,188,346	7,783,224	9,971,570	4,063,553	75,771,303		9,944
12/21/16	Technician		73,051	3,993,300	2,192,976	7,787,700	9,980,676	4,066,351	75,781,220		9,944
12/22/16	*		74,489	3,994,255	2,195,148	7,791,068	9,986,216	4,068,743	75,787,703		9,944
12/23/16	*		75,926	3,995,209	2,197,320	7,794,437	9,991,757	4,071,135	75,794,186		9,944
12/24/16	*		77,364	3,996,164	2,199,493	7,797,805	9,997,297	4,073,527	75,800,670		9,944
12/25/16	*		78,801	3,997,118	2,201,665	7,801,173	10,002,838	4,075,919	75,807,153		9,944
12/26/16	*		80,239	3,998,073	2,203,837	7,804,541	10,008,378	4,078,311	75,813,636		9,944
12/27/16	Technician		81,721	3,999,057	2,206,077	7,808,015	10,014,092	4,080,778	75,820,322		9,944
12/28/16	*		83,007	3,999,867	2,208,611	7,810,839	10,019,450	4,082,874	75,827,115		9,944
12/29/16	*		84,293	4,000,677	2,211,145	7,813,663	10,024,807	4,084,970	75,833,908		9,944
12/30/16	Technician		85,298	4,001,310	2,213,124	7,815,869	10,028,993	4,086,608	75,839,215		9,944
12/31/16	*		86,138	4,001,765	2,216,072	7,817,562	10,033,634	4,087,903	75,844,247		9,944

	Cumulative Groundwater Discharged by the GWETS (gallons)									
Period	December	Quarter 1, 2016	Quarter 2, 2016	Quarter 3, 2016	Quarter 4, 2016	2016 to Date	April 1996 to Date			
Volume	192,833	496,032	407,531	698,046	382,910	1,984,519	75,844,247			

Cumulative Mass DRO Removed by the GWETS A (Ib)									
Period	December	Quarter 4 to Date	April 1996 to Date						
Mass	0.66	0.95	9,943.8						

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

#### Legend / Notes:

- 1 = GW-15 brought back online (off-line for pump maintenance since 11/28/16).
- 2 = Collected monthly influent, intermediate, and effluent water samples for laboratory analysis.
- 3 = Collected monthly acute toxicity testing sample for laboratory analysis as part of required accelerated permit compliance monitoring.
- 4 = GW-16 brought back online (off-line for pump maintenance since 11/23/16).

Groundwater extraction wells on line this month: GW-2, GW-13, 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 results for DRO (if not detected, half the detection limit is used) from sample collected on: 12/05/16 (laboratory report attached).
- -- = Not applicable

<sup>\* =</sup> Operational values interpolated from chart recorder data or previous monitoring event.

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



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

Fax: (818) 998-7258

October 26, 2016

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

Re: **DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013** A5331960 / 6J12014

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 10/12/16 16:45 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile

**Operations Manager** 



Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5331960

Date Received: 10/12/16

Date Reported: 10/26/16

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B TPHGASOLINEBTEXOXY					
Effluent	6J12014-01	Water	5	10/12/16 11:04	10/12/16 16:45
Arsenic Total EPA 200.7					
Effluent	6J12014-01	Water	5	10/12/16 11:04	10/12/16 16:45
Diesel Range Organics 8015M					
Effluent	6J12014-01	Water	5	10/12/16 11:04	10/12/16 16:45





Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

Method: TPHG/BTEX/Oxygenates by GC/MS

AA Project No: A5331960

Date Received: 10/12/16

Date Reported: 10/26/16

Units: ug/L

Date Sampled:10/12/16Date Prepared:10/19/16Date Analyzed:10/19/16AA ID No:6J12014-01Client ID No:EffluentMatrix:WaterDilution Factor:1

Dilution Factor:	1	MDL	MRL
8260B TPHGASOLINEBTEXOXY	(EPA 8260B)		
tert-Butyl alcohol (TBA) Gasoline Range Organics	<7.0 <40	7.0 40	10 100
(GRO) Methyl-tert-Butyl Ether (MTBE)	<0.40	0.40	2.0

Surrogates		%REC Limits
4-Bromofluorobenzene	108%	70-140
Dibromofluoromethane	121%	70-140
Toluene-d8	97%	70-140





The Source Group, Inc. (SH) Client: AA Project No: A5331960 **Project No:** 04-NDLA-013 Date Received: 10/12/16 **Project Name: DFSP Norwalk GWETS NPDES Monthly** Date Reported: 10/26/16 Method: Diesel Range Organics by GC/FID

Units: ug/L

**Date Sampled:** 10/12/16 **Date Prepared:** 10/17/16 **Date Analyzed:** 10/17/16 AA ID No: 6J12014-01 **Client ID No:** Effluent Water Matrix:

**Dilution Factor:** MDL MRL 1

Diesel Range Organics 8015M (EPA 8015M)

60 100 Diesel Range Organics as <60

Diesel

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



Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5331960

Date Received: 10/12/16

Date Reported: 10/26/16

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

AA I.D. No.	Client I.D. No.		Prepared Analyzed [	Dilution	Result	Units	MDL	MRL
Arsenic Tota	I EPA 200.7 (EPA 20	0.7)						
6J12014-01	Effluent	10/12/16	10/17/16 10/17/16	1	0.0080	mg/L	0.006	0.007

A



Client:The Source Group, Inc. (SH)AA Project No: A5331960Project No:04-NDLA-013Date Received: 10/12/16Project Name:DFSP Norwalk GWETS NPDES MonthlyDate Reported: 10/26/16

Analyte	F Result	Reporting Limit	Units		Source Result		%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS										
Batch B6J1932 - EPA 5030B										
Blank (B6J1932-BLK1)				Prepare	ed & Anal	yzed: 1	0/19/16			
tert-Amyl Methyl Ether (TAME)	<0.30	0.30	ug/L	· ·		<u>-</u>				
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	51.8		ug/L	50		104	70-140			
Surrogate: Dibromofluoromethane	59.0		ug/L	50		118	70-140			
Surrogate: Toluene-d8	48.9		ug/L	50		97.8	70-140			
LCS (B6J1932-BS1)			-	Prepare	ed & Anal	yzed: 1	0/19/16			
tert-Amyl Methyl Ether (TAME)	19.9	0.30	ug/L	20	·	99.4	70-130	·	·	
Benzene	23.1	0.20	ug/L	20		116	75-125			
tert-Butyl alcohol (TBA)	118	7.0	ug/L	100		118	70-130			
Diisopropyl ether (DIPE)	23.1	0.50	ug/L	20		116	70-130			
Ethylbenzene	20.5	0.20	ug/L	20		102	75-125			
Ethyl-tert-Butyl Ether (ETBE)	21.4	0.40	ug/L	20		107	70-130			
Gasoline Range Organics (GRO)	442	40	ug/L	500		88.4	70-130			
Methyl-tert-Butyl Ether (MTBE)	42.1	0.40	ug/L	40		105	70-135			
Toluene	21.2	0.30	ug/L	20		106	75-125			
o-Xylene	19.7	0.30	ug/L	20		98.4	75-125			
m,p-Xylenes	40.0	0.40	ug/L	40		100	70-130			
Surrogate: 4-Bromofluorobenzene	53.8		ug/L	50		108	70-140			
Surrogate: Dibromofluoromethane	50.7		ug/L	50		101	70-140			
Surrogate: Toluene-d8	49.4		ug/L	50		98.9	70-140			
Matrix Spike (B6J1932-MS1)	S	ource: 6J1		Prepare	ed & Anal	yzed: 1	0/19/16			





Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5331960

Date Received: 10/12/16

Date Reported: 10/26/16

Analyte	F Result	Reporting Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS	S - Qualit	y Control								
Batch B6J1932 - EPA 5030B		-								
Matrix Spike (B6J1932-MS1) Con	tinued S	ource: 6J1	2015-03	Prepare	ed & Analy	yzed: 10	0/19/16			
tert-Amyl Methyl Ether (TAME)	18.8	0.30	ug/L	20		93.8	70-130			
Benzene	23.0	0.20	ug/L	20		115	70-130			
tert-Butyl alcohol (TBA)	111	7.0	ug/L	100		111	70-130			
Diisopropyl ether (DIPE)	22.6	0.50	ug/L	20		113	70-130			
Ethylbenzene	23.2	0.20	ug/L	20		116	70-130			
Ethyl-tert-Butyl Ether (ETBE)	20.5	0.40	ug/L	20		102	70-130			
Gasoline Range Organics (GRO)	476	40	ug/L	500		95.2	70-130			
Methyl-tert-Butyl Ether (MTBE)	38.8	0.40	ug/L	40	0.410		70-130			
Toluene	24.4	0.30	ug/L	20		122	70-130			
o-Xylene	21.8	0.30	ug/L	20		109	70-130			
m,p-Xylenes	43.8	0.40	ug/L	40		109	70-130			
Surrogate: 4-Bromofluorobenzene	54.0		ug/L	50		108	70-140			
Surrogate: Dibromofluoromethane	48.0		ug/L	50		95.9	70-140			
Surrogate: Toluene-d8	<i>53.0</i>		ug/L	50		106	70-140			
Matrix Spike Dup (B6J1932-MSD	1) S	ource: 6J1	2015-03	Prepare	ed: 10/19/	16 Ana	lyzed: 10	0/20/16		
tert-Amyl Methyl Ether (TAME)	21.2	0.30	ug/L	20		106	70-130	12.0	30	
Benzene	23.3	0.20	ug/L	20		117	70-130	1.29	30	
tert-Butyl alcohol (TBA)	108	7.0	ug/L	100		108	70-130	2.74	30	
Diisopropyl ether (DIPE)	23.9	0.50	ug/L	20		120	70-130	5.37	30	
Ethylbenzene	20.2	0.20	ug/L	20		101	70-130	13.4	30	
Ethyl-tert-Butyl Ether (ETBE)	22.9	0.40	ug/L	20		114	70-130	11.2	30	
Gasoline Range Organics (GRO)	545	40	ug/L	500		109	70-130	13.5	30	
Methyl-tert-Butyl Ether (MTBE)	43.6	0.40	ug/L	40	0.410	108	70-130	11.7	30	
Toluene	20.5	0.30	ug/L	20		102	70-130	17.4	30	
o-Xylene	19.5	0.30	ug/L	20		97.4	70-130	11.3	30	
m,p-Xylenes	39.3	0.40	ug/L	40		98.2	70-130	10.7	30	
Surrogate: 4-Bromofluorobenzene	53.3		ug/L	50		107	70-140			
Surrogate: Dibromofluoromethane	50.9		ug/L	50		102	70-140			
Surrogate: Toluene-d8	48.9		ug/L	50		97.8	70-140			
Diesel Range Organics by GC/FID	- Quality	Control	-							

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Client:The Source Group, Inc. (SH)AA Project No: A5331960Project No:04-NDLA-013Date Received: 10/12/16Project Name:DFSP Norwalk GWETS NPDES MonthlyDate Reported: 10/26/16

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Diesel Range Organics by GC/FID	- Quality	y Control								
Batch B6J1720 - EPA 3510C	•	•								
Blank (B6J1720-BLK1)				Prepare	ed & Anal	yzed: 1	0/17/16			
Diesel Range Organics as Diesel	<60	60	ug/L							
Surrogate: o-Terphenyl	51.0		ug/L	40		128	50-150			
LCS (B6J1720-BS1)			J	Prepare	ed & Analy	yzed: 1	0/17/16			
Diesel Range Organics as Diesel	748	60	ug/L	800		93.6	75-125		30	
Surrogate: o-Terphenyl	52.9		ug/L	40		132	50-150			
LCS Dup (B6J1720-BSD1)			Ū	Prepare	ed & Anal	yzed: 1	0/17/16			
Diesel Range Organics as Diesel	757	60	ug/L	800		94.6	75-125	1.13	30	
Surrogate: o-Terphenyl	53.2		ug/L	40		133	50-150			
Total Metals by ICP Atomic Emiss	ion Spec	ctroscopy -	_	Control						
Batch B6J1730 - EPA 200.7	•	1,7								
Blank (B6J1730-BLK1)				Prepare	ed & Anal	yzed: 1	0/17/16			
	<0.0060	0.0060	mg/L		•	,				
LCS (B6J1730-BS1)			_	Prepare	ed & Anal	yzed: 1	0/17/16			
Arsenic	0.203	0.0060	mg/L	0.20		102	80-120		20	
LCS Dup (B6J1730-BSD1)				Prepare	ed & Anal	yzed: 1	0/17/16			
Arsenic	0.182	0.0060	mg/L	0.20		91.2	80-120	10.7	20	
Duplicate (B6J1730-DUP1)		Source: 6J1	2015-05	Prepare		yzed: 1	0/17/16			
Arsenic	0.0120	0.0060	mg/L		0.0110			8.70	30	
Matrix Spike (B6J1730-MS1)		Source: 6J1		•		<u> </u>				
Arsenic	0.202		mg/L		0.00800				20	
Matrix Spike Dup (B6J1730-MSD		Source: 6J1		•		•				
Arsenic	0.223	0.0060	mg/L	0.20	0.00800	108	75-125	10.2	20	





Client: The Source Group, Inc. (SH)

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

Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5331960 Date Received: 10/12/16 Date Reported: 10/26/16

**Special Notes** 



# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

125925

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Project Manager: Neil Irish		Site	Site Address:	15306 Norwalk Blvd	rwałk E	glvd		O	Sampler's Signature:	nafatro:	Man	Show On draster
Phone: 562-597-1055			CIÁ:	Norwalk					Q.	P.O. No.:		- The state of the
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Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.

SECULIAR SECURIAR SECURIAR SECURIAR SECURIAR SECU



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

Fax: (818) 998-7258

November 17, 2016

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

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

A5331985 / 6K01013

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/01/16 15:12 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile

**Operations Manager** 



Client:The Source Group, Inc. (SH)AA Project No: A5331985Project No:04-NDLA-013Date Received: 11/01/16Project Name:DFSP Norwalk GWETS NPDES AnnuallyDate Reported: 11/17/16

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B TPHGASOLINEBTEXOXY					
Effluent	6K01013-01	Water	5	11/01/16 11:05	11/01/16 15:12
Effluent-Dup	6K01013-02	Water	5	11/01/16 11:06	11/01/16 15:12
Arsenic Total EPA 200.7					
Effluent	6K01013-01	Water	5	11/01/16 11:05	11/01/16 15:12
BOD SM5210B					
Effluent	6K01013-01	Water	5	11/01/16 11:05	11/01/16 15:12
Copper Total EPA 200.7					
Effluent	6K01013-01	Water	5	11/01/16 11:05	11/01/16 15:12
Diesel Range Organics 8015M					
Effluent	6K01013-01	Water	5	11/01/16 11:05	11/01/16 15:12
Effluent-Dup	6K01013-02	Water	5	11/01/16 11:06	11/01/16 15:12
HEM Oil and Grease 1664					
Effluent	6K01013-01	Water	5	11/01/16 11:05	11/01/16 15:12
MBAS SM5540C					
Effluent	6K01013-01	Water	5	11/01/16 11:05	11/01/16 15:12

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Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Annually

AA Project No: A5331985

Date Received: 11/01/16

Date Reported: 11/17/16

	· · · · · · · · · · · · · · · · · · ·			2 410 110 PC	
Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
Phenois 420.1					
Effluent	6K01013-01	Water	5	11/01/16 11:05	11/01/16 15:12
SS SM2540F					
Effluent	6K01013-01	Water	5	11/01/16 11:05	11/01/16 15:12
Sulfide SM4500-S=D					
Effluent	6K01013-01	Water	5	11/01/16 11:05	11/01/16 15:12
TDS SM2540C					
Effluent	6K01013-01	Water	5	11/01/16 11:05	11/01/16 15:12
TSS SM2540D					
Effluent	6K01013-01	Water	5	11/01/16 11:05	11/01/16 15:12
Turbidity 180.1					
Effluent	6K01013-01	Water	5	11/01/16 11:05	11/01/16 15:12





Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Annually

AA Project No: A5331985

Date Received: 11/01/16

Date Reported: 11/17/16

Method: General Chemistry Analyses

Method:	General Chemistry	/ Analyses						
AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MRL
BOD SM5210	B (SM5210B) *							
6K01013-01	Effluent	11/01/16	11/02/16	11/07/16	1	<5.0	mg/L	5
HEM Oil and	<u> Grease 1664 (EPA 16</u>	<u>664)</u>						
6K01013-01	Effluent	11/01/16	11/07/16	11/07/16	1	<b>2.0</b> J	mg/L	5
MBAS SM554	0C (SM5540C) *							
6K01013-01	Effluent	11/01/16	11/02/16	11/02/16	1	<0.050	mg/L	0.05
<u>Phenols 420.1</u>	I (EPA 420.1) *							
6K01013-01	Effluent	11/01/16	11/08/16	11/08/16	1	<0.15	mg/L	0.3
SS SM2540F	(SM2540F)							
6K01013-01	Effluent	11/01/16	11/02/16	11/02/16	1	<0.100	mL/L	0.1
Sulfide SM450	00-S=D (SM4500-S=I	<u>)</u>						
6K01013-01	Effluent	11/01/16	11/03/16	11/03/16	1	<0.027	mg/L	0.05
TDS SM25400	C (SM2540C)							
6K01013-01	Effluent	11/01/16	11/03/16	11/04/16	100	1200	mg/L	10
TSS SM2540E	) (SM2540D)							
6K01013-01	Effluent	11/01/16	11/03/16	11/03/16	1	<5.0	mg/L	10
Turbidity 180.	.1 (EPA 180.1)							
6K01013-01	Effluent	11/01/16	11/02/16	11/02/16	1	<b>0.35</b> J	NTU	1





Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Annually

AA Project No: A5331985

Date Received: 11/01/16

Date Reported: 11/17/16

Method: General Chemistry Analyses

Method:	General Chemistry	<sup>,</sup> Analyses							
AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
BOD SM5210	B (SM5210B) *								
6K01013-01	Effluent	11/01/16	11/02/16	11/07/16	1	<5.0	mg/L	5	5
HEM Oil and	<u> Grease 1664 (EPA 16</u>	<u>664)</u>							
6K01013-01	Effluent	11/01/16	11/07/16	11/07/16	1	<b>2.0</b> J	mg/L	1	5
MBAS SM554	0C (SM5540C) *								
6K01013-01	Effluent	11/01/16	11/02/16	11/02/16	1	<0.050	mg/L	0.05	0.05
Phenois 420.1	I (EPA 420.1) *								
6K01013-01	Effluent	11/01/16	11/08/16	11/08/16	1	<0.15	mg/L	0.15	0.3
SS SM2540F	(SM2540F)								
6K01013-01	Effluent	11/01/16	11/02/16	11/02/16	1	<0.100	mL/L	0.1	0.1
Sulfide SM450	00-S=D (SM4500-S=E	<u>)</u>							
6K01013-01	Effluent	11/01/16	11/03/16	11/03/16	1	<0.027	mg/L	0.027	0.05
TDS SM25400	C (SM2540C)								
6K01013-01	Effluent	11/01/16	11/03/16	11/04/16	100	1200	mg/L	6.2	10
TSS SM2540E	) (SM2540D)								
6K01013-01	Effluent	11/01/16	11/03/16	11/03/16	1	<5.0	mg/L	5	10
Turbidity 180.	1 (EPA 180.1)								
6K01013-01	Effluent	11/01/16	11/02/16	11/02/16	1	<b>0.35</b> J	NTU	0.168	1



70-140



#### LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Annually

Method: TPHG/BTEX/Oxygenates by GC/MS

AA Project No: A5331985

Date Received: 11/01/16

Date Reported: 11/17/16

Method: TPHG/BTEX/Oxygenates by GC/MS Units: ug/L **Date Sampled:** 11/01/16 11/01/16 **Date Prepared:** 11/02/16 11/02/16 **Date Analyzed:** 11/02/16 11/02/16 AA ID No: 6K01013-01 6K01013-02 **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 0.50 < 0.20 < 0.20 Ethyl-tert-Butyl Ether (ETBE) < 0.40 < 0.40 0.40 2.0 Gasoline Range Organics <40 40 100 <40 (GRO) Methyl-tert-Butyl Ether (MTBE) < 0.40 < 0.40 0.40 2.0 Toluene < 0.30 0.30 < 0.30 0.50 o-Xvlene < 0.30 < 0.30 0.30 0.50 m,p-Xylenes < 0.40 < 0.40 0.40 1.0 **%REC Limits Surrogates** 4-Bromofluorobenzene 113% 116% 70-140 Dibromofluoromethane 70-140 123% 120%

100%

99%



Viorel Vasile Operations Manager

Toluene-d8



The Source Group, Inc. (SH) Client: AA Project No: A5331985 **Project No:** 04-NDLA-013 Date Received: 11/01/16 **Project Name:** DFSP Norwalk GWETS NPDES Annually Date Reported: 11/17/16 Method: Diesel Range Organics by GC/FID

Units: ug/L

**Date Sampled:** 11/01/16 11/01/16 **Date Prepared:** 11/04/16 11/04/16 **Date Analyzed:** 11/04/16 11/04/16 AA ID No: 6K01013-01 6K01013-02 **Client ID No:** Effluent Effluent-Dup Water Matrix: Water

**Dilution Factor:** 1 MDL 1 MRL

Diesel Range Organics 8015M (EPA 8015M)

<60 Diesel Range Organics as <60 60 100

Diesel

**Surrogates** %REC Limits o-Terphenyl 72% 109% 50-150





Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Annually

AA Project No: A5331985

Date Received: 11/01/16

Date Reported: 11/17/16

Method: Total Metals by ICP Atomic Emission Spectroscopy

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
Arsenic Total	EPA 200.7 (EPA 200.7)	<u>.</u>							
6K01013-01	Effluent	11/01/16	11/07/16	11/07/16	1	<0.0060	mg/L	0.006	0.007
Copper Total E	EPA 200.7 (EPA 200.7)	_							
6K01013-01	Effluent	11/01/16	11/07/16	11/07/16	1	<0.0020	mg/L	0.002	0.002





Client:The Source Group, Inc. (SH)AA Project No: A5331985Project No:04-NDLA-013Date Received: 11/01/16Project Name:DFSP Norwalk GWETS NPDES AnnuallyDate Reported: 11/17/16

Analyte	F Result	Reporting Limit	Units		Source Result		%REC Limits	RPD	RPD Limit	Notes
General Chemistry Analyses - Qu						70.120				
Batch B6K0224 - NO PREP	anty Cont	101								
Blank (B6K0224-BLK1)				Prenare	d & Ana	lvzed: 1	1/02/16			
Total Settleable Solids	<0.100	0.100	mL/L	Tropare	, a a / iiia	iyzcu. i	1/02/10			
Batch B6K0231 - NO PREP	10.100	0.100	111L/L							
Blank (B6K0231-BLK1)				Prepare	d & Ana	lyzed: 1	1/02/16			
Turbidity	<0.17	0.17	NTU							
Duplicate (B6K0231-DUP1)	S	ource: 6K0	01013-01	Prepare	d & Ana	lyzed: 1	1/02/16			
Turbidity	0.320	0.17	NTU	·	0.350	1		8.96	20	J
Batch B6K0232 - NO PREP										
Blank (B6K0232-BLK1)				Prepare	ed & Ana	lyzed: 1	1/03/16			
Total Suspended Solids	<5.0	5.0	mg/L							
LCS (B6K0232-BS1)				Prepare	d & Ana	lyzed: 1	1/03/16			
Total Suspended Solids	42.0	5.0	mg/L	50		84.0	80-120			
LCS Dup (B6K0232-BSD1)				Prepare	d & Ana	lyzed: 1	1/03/16			
Total Suspended Solids	45.0	5.0	mg/L	50		90.0	80-120	6.90	20	
Duplicate (B6K0232-DUP1)	S	ource: 6J2	8004-01	Prepare	ed & Ana	lyzed: 1	1/03/16			
Total Suspended Solids	28.0	5.0	mg/L		30.0			6.90	20	
Duplicate (B6K0232-DUP2)	S	ource: 6J3	1007-04	Prepare	ed & Ana	lyzed: 1	1/03/16			
Total Suspended Solids	47.0	5.0	mg/L		46.5	1		1.07	20	
Duplicate (B6K0232-DUP3)	S	ource: 6J2	8002-01	Prepare	ed & Ana	lyzed: 1	1/03/16			
Total Suspended Solids	34.0	5.0	mg/L		35.6	;		4.60	20	
Batch B6K0326 - NO PREP										
Blank (B6K0326-BLK1)				Prepare	d & Ana	lyzed: 1	1/03/16			
Sulfide	<0.027	0.027	mg/L							
LCS (B6K0326-BS1)				Prepare	d & Ana	lyzed: 1	1/03/16			
Sulfide	0.494	0.027	mg/L	0.50		98.8	80-120		25	
LCS Dup (B6K0326-BSD1)				Prepare	ed & Ana	lyzed: 1	1/03/16			
Sulfide	0.483	0.027	mg/L	0.50		96.6	80-120	2.25	25	
Duplicate (B6K0326-DUP1)	S	ource: 6K0	01013-01	Prepare	ed & Ana	lyzed: 1	1/03/16			
Sulfide	<0.027	0.027	mg/L		<0.050				20	
Matrix Spike (B6K0326-MS1)	S	ource: 6J2	8002-02	Prepare	ed & Ana	lyzed: 1	1/03/16			

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Client:The Source Group, Inc. (SH)AA Project No: A5331985Project No:04-NDLA-013Date Received: 11/01/16Project Name:DFSP Norwalk GWETS NPDES AnnuallyDate Reported: 11/17/16

Analyte	Result	Reporting Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
General Chemistry Analyses - Qua										
Batch B6K0326 - NO PREP										
Matrix Spike (B6K0326-MS1) Cor	ntinued S	Source: 6J2	8002-02	Prepare	ed & Anal	vzed: 1	1/03/16			
Sulfide	0.552	0.027	mg/L	0.50		110	75-125		25	
Matrix Spike Dup (B6K0326-MSD	)1) §	Source: 6J2	_		ed & Anal	yzed: 1				
Sulfide	0.559	0.027	mg/L	0.50		•	75-125	1.26	25	
Batch B6K0411 - NO PREP			J							
Blank (B6K0411-BLK1)				Prepare	ed: 11/03	/16 Ana	alyzed: 1	1/04/16		
Total Dissolved Solids	<6.2	6.2	mg/L							
LCS (B6K0411-BS1)				Prepare	ed: 11/03	/16 Ana	alyzed: 1	1/04/16		
Total Dissolved Solids	46.0	6.2	mg/L	50		92.0	80-120			
LCS Dup (B6K0411-BSD1)				Prepare	ed: 11/03		alyzed: 1	1/04/16		
Total Dissolved Solids	51.0	6.2	mg/L	50		102	80-120	10.3	25	
Duplicate (B6K0411-DUP1)	5	Source: 6K0	1013-01	Prepare	ed: 11/03	/16 Ana	alyzed: 1	1/04/16		
Total Dissolved Solids	1130	620	mg/L		1160			2.62	20	
Batch B6K0718 - NO PREP										
Blank (B6K0718-BLK1)				Prepare	ed & Anal	yzed: 1	1/07/16			
HEM (Oil and Grease)	<1.0	1.0	mg/L							
LCS (B6K0718-BS1)				· ·	ed & Anal	•				
HEM (Oil and Grease)	35.0	1.0	mg/L	40			75-125			
LCS Dup (B6K0718-BSD1)				<u> </u>	ed & Anal	•				
HEM (Oil and Grease)	33.1	1.0	mg/L	40		82.8	75-125	5.58	30	
Batch B6K1737 - *** DEFAULT PR	EP ***									
Blank (B6K1737-BLK1)				Prepare	ed: 11/02	/16 Ana	alyzed: 1	1/07/16		*
Biochemical Oxygen Demand	<5.0	5.0	mg/L							
LCS (B6K1737-BS1)					ed: 11/02/		alyzed: 1	1/07/16		*
Biochemical Oxygen Demand	189	5.0	mg/L	200		94.7	80-120			
Batch B6K1738 - NO PREP				_						
Blank (B6K1738-BLK1)		0.055		Prepare	ed & Anal	yzed: 1	1/02/16			*
Methylene Blue Active Substances	<0.050	0.050	mg/L	_						_
LCS (B6K1738-BS1)				•	ed & Anal	•				*
Methylene Blue Active Substances	0.410	0.050	mg/L	0.50		82.0	80-120			

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Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Annually

AA Project No: A5331985

Date Received: 11/01/16

Date Reported: 11/17/16

Analyte	Result	Reporting Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
General Chemistry Analyses - Quality Control										
Batch B6K1738 - NO PREP										
LCS Dup (B6K1738-BSD1)				Prepare	ed & Anal	yzed: 1	1/02/16			*
Methylene Blue Active Substances	0.415	0.050	mg/L	0.50		83.0	80-120	1.21	30	
Matrix Spike (B6K1738-MS1)		Source: 6K0	1013-01	Prepare	ed & Anal	yzed: 1	1/02/16			*
Methylene Blue Active Substances			mg/L	0.50	<0.050		70-130			
Matrix Spike Dup (B6K1738-MSD	1)	Source: 6K0	1013-01	Prepare	ed & Anal	yzed: 1	1/02/16			*
Methylene Blue Active Substances	0.495	0.050	mg/L	0.50	<0.050	99.0	70-130	4.12	30	
Batch B6K1739 - NO PREP										
Blank (B6K1739-BLK1)				Prepare	ed & Anal	yzed: 1	1/08/16			*
Phenolics	<0.15	0.15	mg/L							
LCS (B6K1739-BS1)				Prepare	ed & Anal	yzed: 1	1/08/16			*
Phenolics	0.451	0.15	mg/L	0.50		90.2	80-120			
LCS Dup (B6K1739-BSD1)				Prepare	ed & Anal	yzed: 1	1/08/16			*
Phenolics	0.422	0.15	mg/L	0.50		84.4	80-120	6.64	15	
Matrix Spike (B6K1739-MS1)		Source: 6K0	1013-01	Prepare	ed & Anal	yzed: 1	1/08/16			*
Phenolics	0.426	0.15	mg/L	0.50	< 0.30	85.2	80-120			
Matrix Spike Dup (B6K1739-MSD	1)	Source: 6K0	1013-01	Prepare	ed & Anal	yzed: 1	1/08/16			*
Phenolics	0.438	0.15	mg/L	0.50	< 0.30	87.6	80-120	2.78	15	
TPHG/BTEX/Oxygenates by GC/MS	S - Qual	ity Control								
Batch B6K0215 - EPA 5030B		_								
Blank (B6K0215-BLK1)				Prepare	ed & Anal	yzed: 1	1/02/16			
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		ug/L							
Methyl-tert-Butyl Ether (MTBE)	<0.40		ug/L							
Toluene	<0.30		ug/L							
o-Xylene	< 0.30		ug/L							
m,p-Xylenes	<0.40	0.40	ug/L							





Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Annually

AA Project No: A5331985

Date Received: 11/01/16

Date Reported: 11/17/16

Analyte	F Result	Reporting Limit	Units		Source Result %REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS	S - Qualit	y Control							
Batch B6K0215 - EPA 5030B		•							
Blank (B6K0215-BLK1) Continue	d			Prepare	ed & Analyzed: 1	1/02/16			
Surrogate: 4-Bromofluorobenzene	55.5		ug/L	50	111	70-140			_
Surrogate: Dibromofluoromethane	59.2		ug/L	50	118	70-140			
Surrogate: Toluene-d8	50.0		ug/L	50	99.9	70-140			
LCS (B6K0215-BS1)				Prepare	ed & Analyzed: 1	1/02/16			
tert-Amyl Methyl Ether (TAME)	20.1	0.30	ug/L	20	100	70-130			
Benzene	24.0	0.20	ug/L	20	120	75-125			
tert-Butyl alcohol (TBA)	96.8	7.0	ug/L	100	96.8	70-130			
Diisopropyl ether (DIPE)	24.5	0.50	ug/L	20	123	70-130			
Ethylbenzene	21.0	0.20	ug/L	20	105	75-125			
Ethyl-tert-Butyl Ether (ETBE)	22.7	0.40	ug/L	20	114	70-130			
Gasoline Range Organics (GRO)	530	40	ug/L	500	106	70-130			
Methyl-tert-Butyl Ether (MTBE)	42.0	0.40	ug/L	40	105	70-135			
Toluene	19.8	0.30	ug/L	20	99.0	75-125			
o-Xylene	19.2	0.30	ug/L	20	96.1	75-125			
m,p-Xylenes	38.5	0.40	ug/L	40	96.2	70-130			
Surrogate: 4-Bromofluorobenzene	55.9		ug/L	50	112	70-140			
Surrogate: Dibromofluoromethane	54.9		ug/L	50	110	70-140			
Surrogate: Toluene-d8	50.3		ug/L	50	101	70-140			
LCS Dup (B6K0215-BSD1)				Prepare	ed & Analyzed: 1	1/02/16			
tert-Amyl Methyl Ether (TAME)	19.7	0.30	ug/L	20	98.7	70-130	1.66	30	
Benzene	22.8	0.20	ug/L	20	114	75-125	5.26	30	
tert-Butyl alcohol (TBA)	95.0	7.0	ug/L	100	95.0	70-130	1.91	30	
Diisopropyl ether (DIPE)	23.4	0.50	ug/L	20	117	70-130	4.50	30	
Ethylbenzene	20.4	0.20	ug/L	20	102	75-125	2.89	30	
Ethyl-tert-Butyl Ether (ETBE)	22.1	0.40	ug/L	20	111	70-130	2.54	30	
Gasoline Range Organics (GRO)	545	40	ug/L	500	109	70-130	2.79	30	
Methyl-tert-Butyl Ether (MTBE)	39.4	0.40	ug/L	40	98.4	70-135	6.51	30	
Toluene	20.2	0.30	ug/L	20	101	75-125	2.10	30	
o-Xylene	19.4	0.30	ug/L	20	96.9	75-125		30	
m,p-Xylenes	38.5	0.40	ug/L	40	96.2	70-130	0.0520	30	





Client:The Source Group, Inc. (SH)AA Project No: A5331985Project No:04-NDLA-013Date Received: 11/01/16Project Name:DFSP Norwalk GWETS NPDES AnnuallyDate Reported: 11/17/16

Analyte	Result	Reporting Limit	Units		Source Result %REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS	S - Qualit	y Control							
Batch B6K0215 - EPA 5030B									
LCS Dup (B6K0215-BSD1) Conti	nued			Prepare	d & Analyzed: 1	1/02/16			
Surrogate: 4-Bromofluorobenzene	57.4		ug/L	50	115	70-140			
Surrogate: Dibromofluoromethane	54.1		ug/L	50	108	70-140			
Surrogate: Toluene-d8	50.9		ug/L	50	102	70-140			
Diesel Range Organics by GC/FID	- Quality	Control							
Batch B6K0401 - EPA 3510C									
Blank (B6K0401-BLK1)				Prepare	ed & Analyzed: 1	1/04/16			
Diesel Range Organics as Diesel	<60	60	ug/L						
Surrogate: o-Terphenyl	59.2		ug/L	40	148	50-150			
LCS (B6K0401-BS1)				Prepare	d & Analyzed: 1	1/04/16			
Diesel Range Organics as Diesel	789	60	ug/L	800	98.7	75-125		30	
Surrogate: o-Terphenyl	54.8		ug/L	40	137	50-150			
LCS Dup (B6K0401-BSD1)				Prepare	ed & Analyzed: 1	1/04/16			
Diesel Range Organics as Diesel	718	60	ug/L	800	89.8	75-125	9.44	30	
Surrogate: o-Terphenyl	44.4		ug/L	40	111	50-150			
<b>Total Metals by ICP Atomic Emissi</b>	on Spec	troscopy -	Quality (	Control					
Batch B6K0714 - EPA 200.7	•		-						
Blank (B6K0714-BLK1)				Prepare	ed & Analyzed: 1	1/07/16			
Arsenic	<0.0060	0.0060	mg/L		-				
Copper	<0.0020	0.0020	mg/L						
LCS (B6K0714-BS1)				Prepare	ed & Analyzed: 1	1/07/16			
Copper	0.208	0.0020	mg/L	0.20	104	80-120		20	
Arsenic	0.208	0.0060	mg/L	0.20	104	80-120		20	
LCS Dup (B6K0714-BSD1)					ed & Analyzed: 1				
Arsenic	0.211	0.0060	mg/L	0.20	105	80-120	1.34	20	
Copper	0.208	0.0020	mg/L	0.20	104	80-120	0.192	20	
Duplicate (B6K0714-DUP1)				Prepare	ed & Analyzed: 1	1/07/16			
Arsenic	0.0170	0.0060	mg/L		0.0150		12.5	30	
Copper	<0.0020	0.0020	mg/L					30	





Client:The Source Group, Inc. (SH)AA Project No: A5331985Project No:04-NDLA-013Date Received: 11/01/16Project Name:DFSP Norwalk GWETS NPDES AnnuallyDate Reported: 11/17/16

Analyte	Result	Reporting Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Metals by ICP Atomic Emiss	ion Spec	troscopy -	Quality C	Control						
Batch B6K0714 - EPA 200.7										
Matrix Spike (B6K0714-MS1)	S	Source: 6K	01013-01	Prepare	ed & Analy	zed: 1	1/07/16			
Arsenic	0.197	0.0060	mg/L	0.20	<0.0070	98.4	75-125		20	
Copper	0.206	0.0020	mg/L	0.20	<0.0020	103	75-125		20	
Matrix Spike Dup (B6K0714-MSD1) Source: 6K01013-01 Prepared & Analyzed: 11/07/16										
Arsenic	0.212	0.0060	mg/L	0.20	<0.0070	106	75-125	7.39	20	
Copper	0.214	0.0020	mg/L	0.20	<0.0020	107	75-125	3.62	20	





Client: The Source Group, Inc. (SH)

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

Project Name: DFSP Norwalk GWETS NPDES Annually

AA Project No: A5331985 Date Received: 11/01/16 Date Reported: 11/17/16

**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).

M



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## Ordered By

American Analytics 9765 Eton Avenue Chatsworth, CA 91311-4306

Telephone: (818)998-5547 Attention: Viorel Vasile Number of Pages 4

Date Received 11/02/2016
Date Reported 11/17/2016

Job Number	Order Date	Client
85089	11/02/2016	AA

Project ID: A5331985/6K01013
Project Name: PO# SUB3279-A5331985

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

Checked By: Approved By: C. Raymana

Cyrus Razmara, Ph.D. Laboratory Director

## AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD 9765 ETON AVE., CHATSWORTH, CA 91311 SSOS 9 Tel: 818-998-5547 FAX: 818-998-7258

A.A. COC No.:

						-		7	2					
Client: American	American Analytics	Project Name	Name / No.:	A5331985	1985	19/	16401013	2		Sample	Sampler's Name:			
Project Manager: Viorel	rel Vasile	Site Address:	ress:						Ö	Sampler's Signature:	Signatur	:: 6:		
Phone:			City:								P.O. N	P.O. No.: 508 3279-	379-A5331985	785
Fax:		State & Zip:	³ Zip:				3	<b>&gt;</b> 0			Quote No	.:.		
	TAT Turnaround Codes **	教教					101	ANAL	YSIS REQ	UESTED (	Test Nam	(a		
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(3) = 48 Hour Rush	ır Rush X =	10 Working Days (Standard TAT)	's (Stanc	dard TAT)		50	are	iou:	_	_		_	/ Special /	S
Client I.D.	A.A. I.D.	Date T	Time	Sample Matrix		Plea	Se enter	# The T	Turna	S E S S P P P P P P P P P P P P P P P P	des ** be	below		
6K01013-61	85089.01	11/1/16 [1]	J 20:11	wk.ter	34	××	X							
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				Refili	Refinquished by	d by			Date	Time	9		Received by	
A.A. Project No.:											V		de estado e de estado de estado e de estado de est	

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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Page: 1 A Ordered By

American Analytics 9765 Eton Avenue Chatsworth, CA 91311-4306

Telephone: (818)998-5547

Attention: Viorel Vasile

Proje	ect ID: A53	331985/6K01013
Date	Received	11/02/2016
Date	Reported	11/17/2016

Job Number	Order Date	Client
85089	11/02/2016	AA

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 1 samples with the following specification on 11/02/2016.

La	b ID	Sample ID	Sample D	ate Ma	trix		Quantity Of Containers
8508	9.01	6K01013-01	11/01/20	)16 Aq	ueous		2
•	Method	^ Submethod		Req Date	Priority	TAT	Units
	420.1			11/09/2016	2	Normal	mg/L
	SM-5540	)C		11/09/2016	2	Normal	mg/L
	SM5210	В		11/09/2016	2	Normal	mg/L

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

Checked By: Approved By:

> Cyrus Razmara, Ph.D. Laboratory Director



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## **ANALYTICAL RESULTS**

## Ordered By

American Analytics 9765 Eton Avenue Chatsworth, CA 91311-4306

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

 Project ID:
 A5331985/6K01013

 Project Name:
 PO# SUB3279-A5331985

AETL Job Number Submitted Client
85089 11/02/2016 AA

Method: 420.1, Phenolics, Total Recoverable, Spectrophotometric, Manual QC Batch No: MB110816-1

Our Lab I.D.			Method Blank	85089.01		
Client Sample I.D.				6K01013-01		
Date Sampled				11/01/2016		
Date Prepared			11/08/2016	11/08/2016		
Preparation Method			420.1	420.1		
Date Analyzed			11/08/2016	11/08/2016		
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		

## **QUALITY CONTROL REPORT**

QC Batch No: MB110816-1; Dup or Spiked Sample: 85089.01; LCS: Clean Water; QC Prepared: 11/08/2016; QC Analyzed: 11/08/2016; Units: mg/L

	Sample	MS	MS	MS	MS DUP	MS DUP	MS DUP	RPD	MS/MSD	MS RPD
Analytes	Result	Concen	Recov	% REC	Concen	Recov	% REC	%	% Limit	% Limit
Phenol	0.00	0.500	0.426	85.2	0.500	0.438	87.6	2.8	80-120	<15

QC Batch No: MB110816-1; Dup or Spiked Sample: 85089.01; LCS: Clean Water; QC Prepared: 11/08/2016; QC Analyzed: 11/08/2016; Units: mg/L

Analytes	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Phenol	0.500	0.451	90.2	0.500	0.422	84.4	6.6	80-120	<20	



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## ANALYTICAL RESULTS

## Ordered By

American Analytics 9765 Eton Avenue Chatsworth, CA 91311-4306

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

Project ID: A5331985/6K01013
Project Name: PO# SUB3279-A5331985

AETL Job Number Submitted Client
85089 11/02/2016 AA

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

QC Batch No: CO110216-1

Our Lab I.D.			Method Blank	85089.01		
Client Sample I.D.				6K01013-01		
Date Sampled				11/01/2016		
Date Prepared			11/02/2016	11/02/2016		
Preparation Method			SM5540C	SM5540C		
Date Analyzed			11/02/2016	11/02/2016		
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		

## **QUALITY CONTROL REPORT**

QC Batch No: CO110216-1; Dup or Spiked Sample: 85089.01; LCS: Clean Water; QC Prepared: 11/02/2016; QC Analyzed: 11/02/2016; Units: mg/L

	Sample	MS	MS	MS	MS DUP	MS DUP	MS DUP	RPD	MS/MSD	MS RPD
Analytes	Result	Concen	Recov	% REC	Concen	Recov	% REC	%	% Limit	% Limit
Surfactants (MBAS)	0.00	200	190	94.9	200	198	98.9	4.1	80-120	<15

QC Batch No: CO110216-1; Dup or Spiked Sample: 85089.01; LCS: Clean Water; QC Prepared: 11/02/2016; QC Analyzed: 11/02/2016; Units: mg/L

	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
Analytes	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Surfactants (MBAS)	200	164	82.0	200	166	83.0	1.2	80-120	<15	



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## **ANALYTICAL RESULTS**

## Ordered By

American Analytics 9765 Eton Avenue Chatsworth, CA 91311-4306

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

Project ID: A5331985/6K01013
Project Name: PO# SUB3279-A5331985

AETL Job Number Submitted Client
85089 11/02/2016 AA

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

QC Batch No: BO110216-1

Our Lab I.D.			Method Blank	85089.01		
Client Sample I.D.				6K01013-01		
Date Sampled				11/01/2016		
Date Prepared			11/02/2016	11/02/2016		
Preparation Method			SM5210B	SM5210B		
Date Analyzed			11/07/2016	11/07/2016		
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		

## **QUALITY CONTROL REPORT**

QC Batch No: BO110216-1; Dup or Spiked Sample: 85063.01; LCS: Clean Water; LCS Prepared: 11/02/2016; LCS Analyzed: 11/07/2016; Units: mg/L

	SM	SM DUP	RPD	SM RPD	LCS	LCS	LCS	LCS/LCSD	
Analytes	Result	Result	%	% Limit	Concen	Recov	% REC	% Limit	
Biochemical Oxygen Demand (BOD)	ND	ND	<1	<15	198	189	95.4	80-120	



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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

## LABORATORY REPORT

Date: November 7, 2016

Client: American Analytics

9765 Eton Avenue Chatsworth, CA 91311 Attn: Viorel Vasile Aquatic
Testing
Laboratories

"dedicated to providing quality aquatic toxicity testing"

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

CA ELAP Cert. No.: 1775

**Laboratory No.:** A-16110208-001

Project No.: A5331985 Sample ID.: 6K01013-01

Sample Control: The sample was received by ATL chilled directly from the field and with the chain of

custody record attached.

Date Sampled: 11/01/16
Date Received: 11/02/16
Temp. Received: 3.8°C
Chlorine (TRC): 0.0 mg/l

Date Tested: 11/02/16 to 11/06/16

**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

6K01013-01 0% Survival (TUa > 1.0)

**Quality Control:** Reviewed and approved by:

aboratory Director

Laboratory Director

## FATHEAD MINNOW PERCENT SURVIVAL TEST EPA Method 2000.0



Lab No.: A-16110208-001

Client/ID: American Analytics 6K01013-01

Start Date: 11/02/2016

## TEST SUMMARY

Species: Pimephales promelas.

Age: 11-14) 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-161101.

## TEST DATA

			I DOI						
		°C	DO			# D	ead		Analyst & Time
		٠٠	DÓ	pН	Α	В	С	Ď	of Readings
INITTIAL	Control	₹0, ₹	9.0	7.4	0	Ó	٥	Ò	2 1700
INITIAL	100%	₹4. ₹	9.0	8.0	S	0	0	0	11-2-16
24 11	Control	2.05	8.6	۶. ۹	0	0	0	0	2 1300
24 Hr	100%	20.0	8.8	8.2	4	q	9	4	11-7-16
40 11	Control	20.1	8.6	8.0	v	0	0	0	2 1300
48 Hr	100%	20.0	8. 7	8,1	2	ι	- 1	6	11-4-16
Damanual	Control	کی. 1	8.6	8.0	O	0	0	G	2 1300
Renewal	100%	_	_	` .	-	~	ł	•	11-4-16
23.11	Control	20.7	8.5	8.0	0	0	0	O	2 1300
72 Hr	100%	_	-	`	_	-	}		11-5-16
06 Un	Control	که. ک	8.4	8.0	0	0	0	0	2 1300
96 Hr	100%	_	-	~	-	-	•	~	11-6-16

$\sim$	am	•	94	+-	٠

Sample as received: Chlorine: mg/l; Temp: 3-8 °C; DO: 4-7 mg/l; pH: 7-4; Alkalinity: 484 mg/l; Hardness: 824 mg/l; Conductivity: 23/4 umho; NH<sub>3</sub>-N: 1/2 mg

Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes. / No. Control: Alkalinity: \_sq \_ mg/l; Hardness: \_qo \_ mg/l.; Conductivity: \_\_Jo? \_ umho.

Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / Yes

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

Dissolved Oxygen (DO) readings in mg/I O,

## RESULTS

rcent Survival In: Control: 100 % Sample: 0 %
---

## Aguaric TESTING LABS

## AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

70047393

A.A. COC No.:

		(4) = 72 Hour Rush	(1) = Same Day Rush	
ANAL YSIS REQUESTED (Test Name)	ANALYSIS ANALYSIS	des **	TAT Turnaround Codes **	
Quote No.:		State & Zip:	X	Fax:
P.O. No.: 5-483220- A5331425		City:	Phone:	<u>-</u>
Sampler's Signature:	***************************************	Site Address:	Project Manager: Verel V45,10	٦
Sampler's Name:	Project Name / No.: 75331985/6べ01013	Project Name / No.:	Client: American Analytics	히
				IJ

(1) = Same Day Rush (2) == 24 Hour Rush	4 (4)	(4) = 72  Hour Rush (5) = 5  Day Rush	£			TONG							
(3) = 48 Hour Rush	≡ ×	10 Working Days (Standard TAT)	Days (Star	idard TAT)		- ZZ	_	_		_		_	/ Special Instructions
Client I.D. A.A. I.D.	Ċ.	Date	Time	Sample Matrix	5 %		Please enter the TAT	AT TAT	Turnaround Codes " helow	Codes	- Indian		
		1//	:		_	leas.	ביוונבו ו			-			
6K01013 C.		11/11/16	50.77	1.05 WATER		×						ž	40 GR Part 136
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				/ Relin	Relinquished by	d by		Date		Time	2	<u>.</u>	Received by
A.A. Project No.:			$\rangle$	ر							7		)

Note: By reinquishing 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.



## REFERENCE TOXICANT DATA

## FATHEAD MINNOW ACUTE Reference Toxicant - SDS



QA/QC Batch No.: RT-161101

**TEST SUMMARY** 

Species: Pimephales promelas.

Age: 14 days old. Regulations: NPDES.

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

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

Test type: Static-Renewal.

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

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

Aeration: None.

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

## TEST DATA

		INITIA	L			24 Hr		·			48 Hr		]
Date/Time:	11-1	6	1360	11.3	-16		1.	} <i>0</i> 0	۱۱-)-	16		17	3
Analyst:		2				7						2	
·	TC TC	DO	На	¹C	DO	pH	# D	ead	, °C	DO	рН	# D	ead
			ייע		50	pri (	А	В		150	ρι.	А	В
Control	203	8:5	8.1	201	8.6	ج .\$	0	2	20,1	8.7	7. 9	0	0
1.0 mg/l	20.1	8.6	8-1	20.0	8.6	\$. <u>[</u>	0	0	20.0	8.7	7.9	0	v
2.0 mg/l	20.2	8.6	8. D	20.0	2,5	8.0	O	U	20.1	8.8	7.4	0	O
4,0 mg/l	20.2	8.5	8.0	کی ہ	8.4	8 t	ર	3	20.1	8.6	7.9	₹	٥
8,0 mg/l	20)	8. y	<b>6.</b> 0	20.0	g. 3	8. [	(0	(-		1	•		
16.0 mg/l	ر يوز	\$.4	8. (	ن.دخ	8.3	8.1	(0	ιυ		-	4	-	-

	F	ENEWA	ıL		_	72 Hr				•	96 Hr	<u></u>	
Date/Time:	11-3	-(6	1300	[[- 4	-16		1)	00	11-5-	16		134	סע
Analyst:		1					2				2		
	''C	DO	pH	"C	DO	рН	# D	ead	"C	DO	pll	# D	ead
		Ю	pn ·			μn	A	В			pri	A	В
Control	ن . م	8.6	24	₹0.1	8.6	8.	O	0	₹0.0	8. 4	7. %	0	0
1.0 mg/l	20.0	8.6	8.2	20.0	5.6	8. [	0	O	₹0.0	8.5	2.8	0	0
2,0 mg/l	20.1	8.6	8.0	<b>∂o.</b> {	8.6	8.2	0	٥	20.0	8.5	28	0	٥
4.0 mg/l	ن بدا	8.8	8.0	20.1	8.6	8. /	0	0	19.9	8.5	7.8	0	0
8.0 mg/l	_	,		-	<u></u>	,	,	1	No.	_	_	-	_
16.0 mg/l	٠	-			-	1	_	4	-	-	-	_	-

Comments: Control: Alkalinity: for mg/l; Hardness: from mg/l; Conductivity: from mg/l; from mg/l;

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

(es/response curve normal)

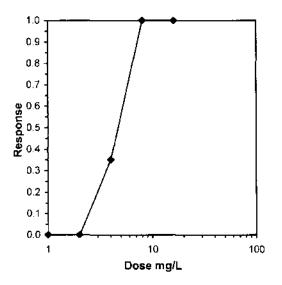
No (dose interrupted indicated or non-normal)

				Acute Fish Test-96	Hr Survival	
Start Date:	11/1/2016	13:00	Test ID:	RT161101f	Sample ID:	REF-Ref Toxicant
End Date:	11/5/2016	13:00	Lab ID:	<b>CAATL-Aquatic Testing Labs</b>	Sample Type:	SDS-Sodium dodecyl sulfate
Sample Date:	11/1/2016		Protocol:	EPAAW02-EPA/821/R-02-01	Test Species:	PP-Pimephales promelas
Comments:						
Conc-mg/L	1	2		· ·	-	<u>-</u>
D-Contral	1.0000	1.0000				
1	1.0000	1.0000				
2	1.0000	1.0000				
4	0.6000	0.7000				
8	0.0000	0.0000				
16	0.0000	0.0000				

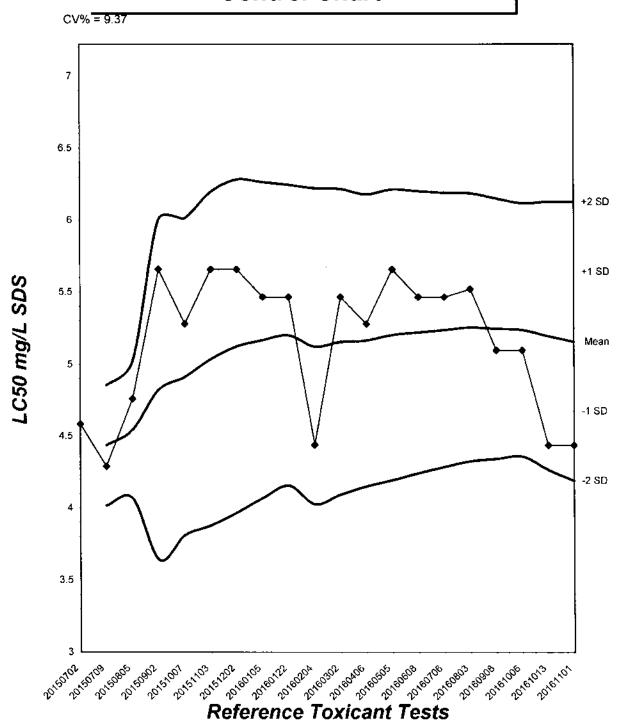
			Tra	ansform:	Arcsin Sc	uare Roof		Number	Total
Conc-mg/L	Mean	N-Mean	Mean	Min	Max	CV%	N	Resp	Number
D-Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
1	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
2	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
4	0.6500	0.6500	0.9386	0.8861	0.9912	7.916	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				
Trimn	ned 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



## **TEST ORGANISM LOG**

## FATHEAD MINNOW - LARVAL (Pimephales promelas)



QA/QC BATCH NO.: RT-161101
SOURCE: In-Lab Culture
DATE HATCHED: 10-18-16
APPROXIMATE QUANTITY:
APPROXIMATE QUANTITY: 4w  GENERAL APPEARANCE: 4w
# MORTALITIES 48 HOURS PRIOR TO TO USE IN TESTING:
DATE USED IN LAB:
AVERAGE FISH WEIGHT: 0-006 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.: 20.3 °C pH: 8.1 Ammonia: mg/l NH <sub>3</sub> -N
DO: 85 mg/l Alkalinity: 60 mg/l Hardness: 91 mg/l
READINGS RECORDED BY: DATE: DATE:

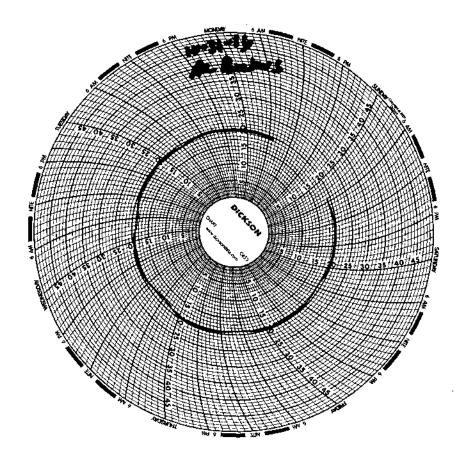


## Test Temperature Chart

Test No: RT-161101

Date Tested: 11/01/16 to 11/05/16

Acceptable Range: 20 +/- 1°C





## AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

Page 1 of

299921 #200

(ANALYTICS)	والمتعارفة	10: 818-	101: 818-998-5547	FAX: 818-996-7258	-986-17:		Appuel	ラファ	-			olina.	Page / of	-
Client: The Source Group, Inc.	up, hc.	Project Name	/No.:	DFSP - No	rwalk / C	DFSP - Norwalk / 04-SDLA / Quarterly NPDES	erterly	NPDES	Sample	Sampler's Name:		lenn	Glenn Androsto	***************************************
Project Manager: Neil Irish	35	Site A	Site Address:	15306 Norwalk Blvd	walk Bh	q		San	Sampler's Signature:	Signafi		Lems	Stone and water	
Phone: 562-597-1055			CIV.	Norwalk						P.O. No.:				
Fax: 569-597-1070		State	e & Zip:	CA 90650						Quote No.:	10:		erine e provincia de la companya de	
	TAT Turnaround Codes "*						ANALY	ANALYSIS REQUESTED (Test Name)	STED (	Test Na	110)	enderen de des des des des des des des des des	od best service in the second service in the second second second second second second second second second se	- COMMON CONTRACTOR CO
Same	Same Day Rush	(4) = 72 Hour Rush	_				Air.			-	10			Anti-wire observer
	24 Hour Rush $(5) =$	5 Day Rush			•	_	ojqin		<u>sbile</u>	Space	2111	74		aran ta oranit
3 = 48 Hou	48 Hour Rush X =	10 Working Days (Standard TAT)	ays (Star	idard TAT)	المحضد وو	. 1	r-est		<del>C</del> alde	ntd , se	)(	ances Toxie	Special	
Client i.D.	<b>5</b>	Date	96.5	Sample Matrix	1	\pH9T 80628 IneanA			Settles	#	Residi Coppe	Subsite Acute 40 CF		
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Effluent-Dup	20	11-1-11	NOB	Water	5	>		_		-			***************************************	
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4533198	AS331985/6K6,1013.			Relind	Relinquished by	\ <i>i</i>		Date	Time	9		Rece	Received by	
														O <del>ne sur</del>

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.

AND CONTROL OF CONTROL



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

Fax: (818) 998-7258

November 22, 2016

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

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

A5331992 / 6K07016

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/07/16 17:14 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



November 22, 2016

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.:

6K07016-01

DATE RECEIVED:

8 Nov - 2016

ABC LAB. NO.:

AAN1116.124

## 96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 = 98 % Survival in 100 % Sample

\*TU(a) = 0.18

\* TU(a) Is calculated by: log (% Mortality)/1.7

Yours very truly,

Scott Johnson

Laboratory Director

# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

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Client: AMERICAN	RNALACICS	Project Na	me / No.:	Project Name / No.: A533992	12/6K07016	016	Sampler's Name:	ame:
Project Manager: 1000	red Varile	Site	Site Address:			San	Sampler's Signature:	ture:
Phone:			City:				P.O.	P.O. No.: 50603288-A5331992
Fax:		St	State & Zip:				Quote No.:	No.:
	TAT Turnaround Codes **	**			4	ANALYSIS REQUESTED (Test Name)	ESTED (Test N	ame)
$\frac{1}{(2)} = \text{Same Day Ru}$ $\frac{2}{(2)} = 24 \text{ Hour Rush}$	Same Day Rush (4) = 24 Hour Rush (5) =	72 Hour Rush 5 Day Rush	ę,		PMQJ			
П		10 Working Days (Standard TAT)	Days (Sta	ndard TAT)	1940	//		Special (natructions
Client I.D.	A.A. I.D.	Date	Time	Sample No.	1			
6K07016-01		11 711	1150	Cont	1>	rease enter the LAT turnatouru codes	nua cones	DELOW LEDASTI-P-MAIN
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					1	-	0 0 11	
					dwa -	) Ban	12	)
					CINO	nne (mg/L) =	450	
				1		T B	G	
					7.3	III (   Daul)		7
					100			
For	For Laboratory Use			Relinguished by	thed by	Date	Time	Received by
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				Refinedished by	hed by	11-8-11		Received by O
				Relinquished by	shed 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.

## **CETIS Summary Report**

Report Date:

22 Nov-16 09:13 (p 1 of 1)

							Test	Code:	AAN1	116.124   0	4-7423-040
Fathead Minr	now 96-h Acute S	Survival Te	est				ř.	Aquatic	Bioassay &	Consulting	J Labs, Inc.
Batch ID:	02-4788-7411	Tes	st Type:	Survival (96h)			Anal	yst:			
Start Date:	08 Nov-16 14:30	) Pro	tocol:	EPA/821/R-02-	-012 (2002)		Dilu	ent: La	boratory Wat	er	
<b>Ending Date:</b>	12 Nov-16 12:45	Sp.	ecies:	Pimephales pro	omelas		Brin	e: No	t Applicable		
Duration:	94h	So	игсе:	Aquatic Biosys	tems, CO		Age				
Sample ID:	12-0542-6079	Co	de:	AAN1116.124			Clie	nt: Am	nerican Analy	rtics	
Sample Date:	: 07 Nov-16 11:55	Ma	terial:	Sample Water			Proj	ect: A5	331992/6K07	7016	
Receipt Date:	08 Nov-16 10:00	) Soi	urce:	Bioassay Repo	ort						
Sample Age:	27h (4.2 °C)	Sta	tion:	6K07016-01							
Single Compa	arison Summary	•									
Analysis ID	Endpoint		Comp	oarison Method			P-Value	Compar	ison Result		
15-4475-8302	96h Survival Rat	te	Wilco	xon Rank Sum	Two-Sample	Test	0.5000	100% pa	ssed 96h su	rvival rate	
Test Accepta	bility					TAC	Limits				
Analysis ID	Endpoint		Attrib	ute	Test Stat		Upper	Overlap	Decision		
15-4475-8302	96h Survival Rat	te	Contr	ol Resp	1	0.9	>>	Yes	Passes C	riteria	
96h Survival	Rate Summary										
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	N	4	1.000	0 1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
100		4	0.975	0 0.8954	1.0000	0.9000	1.0000	0.0250	0.0500	5.13%	2.50%
96h Survival	Rate Detail										
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4						
0	N	1.0000	1.000	0 1,0000	1.0000						
100		0.9000	1.000	0 1.0000	1.0000						
96h Survival	Rate Binomials										
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4						
0	N	10/10	10/10	10/10	10/10						

100

9/10

10/10

10/10

10/10

## **CETIS Analytical Report**

Report Date:

22 Nov-16 09:13 (p 1 of 2)

Test Code:

AAN1116.124 | 04-7423-0407

Fathead Minn	ow 96-h Acute	Survival Test	t					Aquatic	Bioassay &	Consultin	g Labs, Ind
Analysis ID:	15-4475-8302	Endp	oint:	96h Survival R	ate		CET	IS Version	: CETISv	.9.2	
Analyzed:	22 Nov-16 9:13	3 Analy	/sis:	Nonparametric	-Two Sampl	е	Offic	cial Result	s: Yes		
Batch ID:	02-4788-7411	Test	Type:	Survival (96h)			Anal	lyst:			
Start Date:	08 Nov-16 14:3			EPA/821/R-02-	-012 (2002)		Dilu	•	boratory Wat	er	
	12 Nov-16 12:4			Pimephales pro	` '		Brin		t Applicable		
Duration:	94h	Sour		Aquatic Biosys			Age		· · · · · · · · · · · · · · · · · · ·		
Sample ID:	12-0542-6079	Code		AAN1116.124			Clie	nt: Am	nerican Analy	tics.	
•	07 Nov-16 11:5			Sample Water			Proj		331992/6K0		
•	08 Nov-16 10:0			Bioassay Repo	ort		1 10	cot. Ao	001002/010	1010	
Sample Age:		Statio		5K07016-01							
Data Transfor	·m	Alt Hyp					Comparis	son Result			PMSD
Angular (Corre		C > T						sed 96h su			5.56%
Wilcoxon Ran	nk Sum Two-Sai	mple Test									
	vs Conc-%		Test St	at Critical	Ties DF	P-Type	P-Value	Decision	v(a:5%)		
Negative Conti			16	n/a	1 6	Exact	0.5000		ificant Effec	t	
Test Acceptab	oility Criteria	7401									
Attribute	Test Stat	TAC Lin	nits Upper	Overlap	Decision						
Control Resp	1	0.9	>>	Yes	Passes C	riteria		-117			100
ANOVA Table											
Source	Sum Squ	ares	Mean S	Square	DF	F Stat	P-Value	Decision	n(a:5%)		
Between	0.0033199		0.0033	<u> </u>	1	1	0.3559		ificant Effec	<u> </u>	
Error	0.019919		0.0033		6	'	0.0000	rton-oigi	modific Endo	•	
Total	0.0232394		0.0000	100	7						
Distributional	Tests										
Attribute	Test				Test Stat	Critical	P-Value	Decision	ı(a:1%)		
Variances		quality of Vari	ance Te	st	9	13.75	0.0240	Equal Va	<u> </u>		
Variances		ne Equality of			1	13.75	0.3559	Equal Va			
Distribution		-Darling A2 N			1.162	3.878	0.0049	•	mal Distributi	on	
Distribution		ov-Smirnov D	-		0.375	0.3313	0.0015		mal Distribut		
Distribution	-	Vilk W Normal			0.7065	0.6451	0.0027		mal Distribut		
96h Survival F	Rate Summary										
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	N		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
100	11	-	0.9750	0.8954	1.0000	1.0000	0.9000	1.0000	0.0250	5.13%	2.50%
	ected) Transfor		_								
Conc-%	Code		Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	N		1.412	1.412	1.412	1.412	1,412	1.412	0	0.00%	0.00%
100	11		1.371	1.242	1.501	1.412	1.249	1.412	0.04074	5.94%	2.89%
96h Survival F	Rate Detail										
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4						
0	N		1.0000	1.0000	1.0000						
100			1.0000	1.0000	1.0000						
Angular (Corre	ected) Transfor	med Detail									
Conc-%	Code		Rep 2	Rep 3	Rep 4						
0	N		1.412	1.412	1.412						
100	.,		1.412	1.412	1.412						
100		1.443	1.412	1.414	1.412						

## **CETIS Analytical Report**

Report Date:

22 Nov-16 09:13 (p 2 of 2)

Test Code:

AAN1116.124 | 04-7423-0407

Fathead Minnow 96-h Acute Survival Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 15-4

15-4475-8302

Endpoint: 96h Survival Rate

CETIS Version:

TTIO 4 0 0

Analyzed: 2

22 Nov-16 9:13

Analysis: Nonparametric-Two Sample

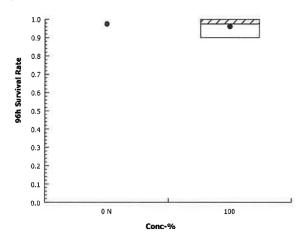
Official Results: Yes

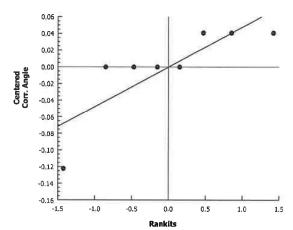
CETISv1.9.2

96h Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	
0	N	10/10	10/10	10/10	10/10	
100		9/10	10/10	10/10	10/10	

## Graphics





## **CETIS Measurement Report**

Report Date:

22 Nov-16 09:13 (p 1 of 2)

Test Code:

AAN1116.124 | 04-7423-0407

O         N         3         61.67         54.5         68.84         60         65         1.667         2.887         4.68%         0           100         3         525         525         525         525         0         0         0.0%         0           Overall         6         293.3         27         559.7         60         525         103.6         253.8         86.52%         0 (0)           Conductivity-µmhos         Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA C           0         N         3         335.3         321.7         349         329         339         3.18         5.508         1.64%         0           100         3         2137         2056         2218         2118         2175         18.84         32.62         1.53%         0         0           Dissolved Oxygen-rig/L         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA C           O         N         3         7.633	Fathead Minr	now 96-h Acute	Surviv	al Test					Aqua	atic Bioassay 8	Consultin	g Labs, Inc.
Part	Batch ID:	02-4788-7411		Test Type:	Survival (96h)				Analyst:			
Duration:         91 × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×				Protocol:	EPA/821/R-02	-012 (2002)			Diluent:	Laboratory Wa	ater	
Sample   Discription   2-0542-6079   Code:   AANI   116.124   Sample   Date:   Of Nov-16 10:05   Source   So	-		45	Species:					Brine:	Not Applicable	!	
Sample Date: 07 Nov-16 11:5	Duration:	94h		Source:	Aquatic Biosys	stems, CO			Age:			
Receipt Date: 08 Nov-16 10-00   Sarrer   Blossay Report   Sample Age: 27h (4.2°C)   Station:   GK07016-01   Station:   GK070	Sample ID:	12-0542-6079		Code:	AAN1116.124				Client:	American Ana	lytics	
Sample Age: 27h (4.2 °C)   Station   6K07016-01	Sample Date:	: 07 Nov-16 11:	55	Material:	Sample Water	•			Project:	A5331992/6K0	7016	
Conc-	Receipt Date:	: 08 Nov-16 10:0	00	Source:	Bioassay Rep	ort						
Conc-%         Code         Count         Mean         95% LCL         96% UCL         Min         Max         Std Err         Std Dev         CV%         QA C           0         N         3         61.67         54.5         68.84         60         65         1.667         2.887         4.68%         0           100         3         525         525         525         525         525         0         0         0.0%         0           Coverall         6         293.3         27         559.7         60         525         103.6         253.8         86.52%         0           Conductivity-µmb         8         6         293.3         321.7         349         329         339         3.18         5.508         1.64%         0           100         N         3         335.3         321.7         349         329         339         3.18         5.508         1.64%         0           100         N         3         2136         200.3         2272         329         2175         18.84         32.62         1.53%         0           Overall         S         6         1236         200.3         257 <td>Sample Age:</td> <td>27h (4.2 °C)</td> <td></td> <td>Station:</td> <td>6K07016-01</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Sample Age:	27h (4.2 °C)		Station:	6K07016-01							
O         N         3         61.67         54.5         68.84         60         65         1.667         2.887         4.68%         0           100         3         525         525         525         525         525         0         0         0.0%         0           Overall         6         293.3         27         559.7         60         525         103.6         253.8         86.52%         0 (0)           Conductivity-umbox           Cone-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA C         0           100         N         3         335.3         321.7         349         329         339         3.18         5.508         1.64%         0           100         3         2137         2056         2218         2118         2175         403         987.2         79.85%         0         0           Dissolved Oxygermy/L           Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev	Alkalinity (Ca	CO3)-mg/L										
100         3         525         525         525         525         525         103.6         253.8         86.52%         0           Corerall         6         293.3         27         559.7         60         525         103.6         253.8         86.52%         0 (0%)           Core-Weight-y-w	Conc-%	Code	Coun	t Mean	95% LCL	95% UCL	Min	Max	Std E	rr Std Dev	CV%	QA Count
Overall         6         293.3         27         559.7         60         525         103.6         253.8         86.52%         0 (0% Conductivity-µmhos/pmb/s           Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA Conductivity-µmhos/pmb/s           0         N         3         335.3         321.7         349         329         339         3.18         5.508         1.64%         0           100         3         2137         2056         2218         2118         2175         18.84         32.62         1.53%         0         0           Overall         6         1236         200.3         2272         329         2175         403         987.2         79.85%         0         0           Dissolved Oxygen-mg/L         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA Conductivity-µmhos         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	0	N	3	61.67	54.5	68.84	60	65	1.667	2.887	4.68%	0
Conductivity-µmhos           Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA C         QA C         QA C           0         N         3         335.3         321.7         349         329         339         3.18         5.508         1.64%         0           100         3         2137         2056         2218         2118         2175         403         987.2         79.85%         0         0           Dissolved Oxygen-mg/L           Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA C           0         N         3         7.633         6.383         8.84         7.1         8.1         0.2906         0.5033         6.59%         0           0         N         3         7.637         6.252         9.308         6.4         8.1         0.4978         0.8622         12.03%         0         0           Overall         6         7.46         6.685         8.115         6.4 <td>100</td> <td></td> <td>3</td> <td>525</td> <td>525</td> <td>525</td> <td>525</td> <td>525</td> <td>0</td> <td>0</td> <td>0.0%</td> <td>0</td>	100		3	525	525	525	525	525	0	0	0.0%	0
Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA OR           0         N         3         335.3         321.7         349         329         339         3.18         5.508         1.64%         0           100         -         3         2137         2056         2218         2118         2175         18.84         32.62         1.53%         0           Overall         6         1236         200.3         2272         329         2175         403         987.2         79.85%         0         0           Dissolved Oxyger/U           Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA C           0         N         3         7.633         6.884         7.1         8.1         0.4978         0.622         12.03%         0           0         Verall         6         7.4         6.685         8.115         6.4         8.1         0.4978         0.622         12.03%         0           0	Overall		6	293.3	27	559.7	60	525	103.6	253.8	86.52%	0 (0%)
0         N         3         335.3         321.7         349         329         339         3.18         5.508         1.64%         0           100         3         2137         2056         2218         2118         2175         18.84         32.62         1.53%         0           Overall         6         1236         200.3         2272         329         2175         403         987.2         79.85%         0 (0%)           Dissolved Oxygen-mg/L           Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA C           0         N         3         7.633         6.383         8.884         7.1         8.1         0.2906         0.5033         6.59%         0           100         3         7.167         5.025         9.308         6.4         8.1         0.4978         0.8622         12.03%         0           Overall         6         7.4         6.685         8.115         6.4         8.1         0.2781         0.6812         9.21%         0 (0%)           Ochec <td< td=""><td>Conductivity-</td><td>μmhos</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Conductivity-	μmhos										
100         3         2137         2056         2218         2118         2175         18.84         32.62         1.53%         0           Overall         6         1236         200.3         2272         329         2175         403         987.2         79.85%         0 (09           Dissolved Oxyger-reg/L           Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA	Conc-%	Code	Coun	t Mean	95% LCL	95% UCL	Min	Max	Std E	rr Std Dev	CV%	QA Count
Dissolved Oxygen-mg/L	0	N	3	335.3	321.7	349	329	339	3.18	5.508	1.64%	0
Dissolved Oxygen-mg/L   Conc-%   Code   Count   Mean   95% LCL   95% UCL   Min   Max   Std Err   Std Dev   CV%   QA CO	100			2137	2056	2218	2118	2175	18.84	32.62	1.53%	0
Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA CO           0         N         3         7.633         6.383         8.884         7.1         8.1         0.2906         0.5033         6.59%         0           100         3         7.167         5.025         9.308         6.4         8.1         0.4978         0.8622         12.03%         0           Overall         6         7.4         6.685         8.115         6.4         8.1         0.2781         0.6812         9.21%         0 (0%)           Hardness (CaCO3)-mg/L         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA CO         <	Overall		6	1236	200.3	2272	329	2175	403	987.2	79.85%	0 (0%)
O         N         3         7.633         6.383         8.884         7.1         8.1         0.2906         0.5033         6.99%         0           100         3         7.167         5.025         9.308         6.4         8.1         0.4978         0.8622         12.03%         0           Overall         6         7.4         6.685         8.115         6.4         8.1         0.2781         0.6812         9.21%         0 (0)           Hardness (CaCO3)-mg/L         Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA C           0         N         3         90.33         88.9         91.77         90         91         0.3333         0.5774         0.64%         0           Overall         6         99.17         89         109.3         90         108         3.953         9.683         9.77%         0 (0)           PH-Units           Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA C <t< td=""><td>Dissolved Ox</td><td>ygen-mg/L</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Dissolved Ox	ygen-mg/L										
100	Conc-%	Code	Coun	t Mean	95% LCL	95% UCL	Min	Max	Std E	rr Std Dev	CV%	QA Count
N   3   90.17   89   109.3   90.18   81.1   0.2781   0.6812   9.21%   0.692	0	N	3	7.633	6.383	8.884	7.1	8.1	0.290	6 0.5033	6.59%	0
Hardness (CaCO3)-mg/L  Conc-% Code Count Mean 95% LCL 95% UCL Min Max Std Err Std Dev CV% QA CO   100 N 3 90.33 88.9 91.77 90 91 0.3333 0.5774 0.64% 0 0 0 0 0.00% 0 0 0 0 0 0 0 0 0 0 0 0	100				5.025	9.308	6.4	8.1	0.497	8 0.8622	12.03%	0
Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA CO           0         N         3         90.33         88.9         91.77         90         91         0.3333         0.5774         0.64%         0           100         3         108         108         108         108         0         0         0.0%         0           Overall         6         99.17         89         109.3         90         108         3.953         9.683         9.77%         0 (0%)           pH-Units         Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA CO           0         N         3         7.967         7.68         8.254         7.9         8.1         0.06667         0.1155         1.45%         0           100         3         7.667         7.15         8.184         7.5         7.9         0.1202         0.2082         2.72%         0           Conc-%         Code         Count         Mean	Overall		6	7.4	6.685	8.115	6.4	8.1	0.278	1 0.6812	9.21%	0 (0%)
O         N         3         90.33         88.9         91.77         90         91         0.3333         0.5774         0.64%         0           100         3         108         108         108         108         108         0         0         0.0%         0           Overall         6         99.17         89         109.3         90         108         3.953         9.683         9.77%         0 (09)           pH-Units           Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA	Hardness (Ca	CO3)-mg/L										
100         3         108         108         108         108         108         0         0         0.0%         0           Overall         6         99.17         89         109.3         90         108         3.953         9.683         9.77%         0 (0%)           pH-Units           Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA C           0         N         3         7.967         7.68         8.254         7.9         8.1         0.06667         0.1155         1.45%         0           100         3         7.667         7.15         8.184         7.5         7.9         0.1202         0.2082         2.72%         0           Overall         6         7.817         7.583         8.051         7.5         8.1         0.09098         0.2229         2.85%         0 (0%)           Temperature-°C           Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA C           0	Conc-%	Code	Coun	t Mean	95% LCL	95% UCL	Min	Max	Std E	rr Std Dev	CV%	QA Count
Overall         6         99.17         89         109.3         90         108         3.953         9.683         9.77%         0 (09)           pH-Units           Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA C           0         N         3         7.967         7.68         8.254         7.9         8.1         0.06667         0.1155         1.45%         0           100         3         7.667         7.15         8.184         7.5         7.9         0.1202         0.2082         2.72%         0           Overall         6         7.817         7.583         8.051         7.5         8.1         0.09098         0.2229         2.85%         0 (0%)           Temperature-°C           Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA C           0         N         3         24         24         24         24         0         0         0.0%         0	0	N	3	90.33	88.9	91.77	90	91	0.333	3 0.5774	0.64%	0
pH-Units           Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA C           0         N         3         7.967         7.68         8.254         7.9         8.1         0.06667         0.1155         1.45%         0           100         3         7.667         7.15         8.184         7.5         7.9         0.1202         0.2082         2.72%         0           Overall         6         7.817         7.583         8.051         7.5         8.1         0.09098         0.2229         2.85%         0 (0%)           Temperature-°C           Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA C           0         N         3         24         24         24         24         0         0         0.0%         0	100			108	108	108	108	108	0	0	0.0%	0
Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA CO           0         N         3         7.967         7.68         8.254         7.9         8.1         0.06667         0.1155         1.45%         0           100         3         7.667         7.15         8.184         7.5         7.9         0.1202         0.2082         2.72%         0           Overall         6         7.817         7.583         8.051         7.5         8.1         0.09098         0.2229         2.85%         0 (0%)           Temperature-°C           Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA CO           0         N         3         24         24         24         24         0         0         0.0%         0	Overall		6	99.17	89	109.3	90	108	3.953	9.683	9.77%	0 (0%)
0         N         3         7.967         7.68         8.254         7.9         8.1         0.06667         0.1155         1.45%         0           100         3         7.667         7.15         8.184         7.5         7.9         0.1202         0.2082         2.72%         0           Overall         6         7.817         7.583         8.051         7.5         8.1         0.09098         0.2229         2.85%         0 (0%)           Temperature-°C           Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA CO           0         N         3         24         24         24         24         0         0         0.0%         0	pH-Units											
100         3         7.667         7.15         8.184         7.5         7.9         0.1202         0.2082         2.72%         0           Overall         6         7.817         7.583         8.051         7.5         8.1         0.09098         0.2229         2.85%         0 0%           Temperature-°C           Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA C           0         N         3         24         24         24         24         0         0         0.0%         0	Conc-%	Code	Coun	t Mean	95% LCL	95% UCL	Min	Max	Std E	rr Std Dev	CV%	QA Count
Overall         6         7.817         7.583         8.051         7.5         8.1         0.09098         0.2229         2.85%         0 (0%)           Temperature-°C           Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA C           0         N         3         24         24         24         24         0         0         0.0%         0	0	N	3	7.967	7.68	8.254	7.9	8.1	0.066	67 0.1155	1.45%	0
Temperature-°C  Conc-% Code Count Mean 95% LCL 95% UCL Min Max Std Err Std Dev CV% QA CO  N 3 24 24 24 24 24 0 0 0 0.0% 0	100		3	7.667	7.15	8.184	7.5	7.9	0.120	2 0.2082	2.72%	0
Conc-%         Code         Count         Mean         95% LCL         95% UCL         Min         Max         Std Err         Std Dev         CV%         QA           0         N         3         24         24         24         24         0         0         0.0%         0	Overall		6	7.817	7.583	8.051	7.5	8.1	0.090	98 0.2229	2.85%	0 (0%)
0 N 3 24 24 24 24 0 0 0.0% 0	Temperature-	·°C										
	Conc-%	Code	Coun	t Mean	95% LCL	95% UCL	Min	Max	Std E	rr Std Dev	CV%	QA Count
	0	N	3	24	24	24	24	24	0	0	0.0%	0
	100		3	24.07	23.78	24.35	24	24.2	0.066	64 0.1154	0.48%	0
Overall 6 24.03 23.95 24.12 24 24.2 0.03333 0.08165 0.34% 0 (0%	Overall		6	24.03	23.95	24.12	24	24.2	0.033	33 0.08165	0.34%	0 (0%)

Analyst: QA:

## **CETIS Measurement Report**

Report Date: Test Code: 22 Nov-16 09:13 (p 2 of 2) AAN1116.124 | 04-7423-0407

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Fathead Minnow	96-h Acute	Survival T	est		Aquatio	Bioassay & Consulting Labs, Inc.
Alkalinity (CaCO	3)-mg/L					
Conc-%	Code	1	2	3		
0	N	65	60	60		
100		525	525	525		
Conductivity-µm	hos					
Conc-%	Code	1	2	3		
0	N	339	329	338		
100		2175	2119	2118		
Dissolved Oxyge	n-mg/L					
Conc-%	Code	1	2	3		
0	N	7.7	8.1	7.1	· · · · · · · · · · · · · · · · · · ·	
100		6.4	8.1	7		
Hardness (CaCO	3)-mg/L					
Conc-%	Code	1	2	3		
0	N	91	90	90		
100		108	108	108		
pH-Units						
Conc-%	Code	1	2	3		
0	N	8.1	7.9	7.9		
100		7.5	7.6	7.9		
Temperature-°C						
Conc-%	Code	1	2	3		
0	N	24	24	24		
100		24	24.2	24		



## AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

(26107

ANALYTICS		Tel: 818	8-998-5547	1	FAX: 818-998-7258	58					Page / of /	. 1
client: The Source Group, Inc.	up, Inc.	Project Name / No.:	me / No.:	DFSP - N	orwalk /	04-SDLA / Q	DFSP - Norwalk / 04-SDLA / Quarterly NPDES	Sampler's Name:	Name:	GknnAr	Glenn Androsko	
Project Manager: Neil Irish	Ų	Sife	Site Address:	15306 Norwalk Blvd	rwalk Bl	٧d	ဟိ	Sampler's Signature:	ature:	Allen	andra	·
Phone: 562-597-1055		,	City	Norwalk				Q.	P.O. No.:			
Fax: 569-597-1070		ö	State & Zip:	CA 90650	0			Quo	Quote No.:			
	TAT Turnaround Codes **	ŧ.					ANALYSIS REQUESTED (Test Name)	JESTED (Test	Name)			1
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(2) = 24 Hour Rush	(C)	5 Day Rush				A8I/E	pid.it.	shile4	eninok	Again.	•	p (a rein medicina), rein
(3) = 48 Hour Rush	<b>₩</b> ×	10 Working Days (Standard TAT)	Days (Star	ndard TAT)		191108 WITE 19 19 19 19 19 19 19 19 19 19 19 19 19		e əlds anda	uar Ga	eanne annee eixol 6kh 71:	Special Instructions	handaring property and
Client I.D.	W. A.	Date	Time	Sample Matrix	-		Please after The Settle Settle Settle The Settle Se	Settle Sulfid	AND DESCRIPTION AND	Methy subst		in the special section of the sectio
Effluent	CK07016-01	11-7-16	1155	Water						×	Report J-Flags	· · · · · · · · · · · · · · · · · · ·
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Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.



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

Fax: (818) 998-7258

December 22, 2016

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

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

A5332013 / 6L05013

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 12/05/16 13:19 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



December 22, 2016

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.:

6L05013-01

DATE RECEIVED:

6 Dec - 2016

ABC LAB. NO.:

AAN1216.041

## 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**

Report Date:

22 Dec-16 14:23 (p 1 of 1)

							Test	Code:	AAN1	216,041   1	9-8906-9365
Fathead Minr	now 96-h Acute S	Survival	Test		. 1.11	er (t. aranis ini	s 5:	Aquatic E	3ioassay &	Consulting	Labs, inc.
Batch ID:	21-0166-7510		Гest Туре:	Survival (96h)	The state of the same	-1.33	Anal	yst:	elle for experients despelle se	e in er eur flut er til ill. 1820.	* 24231224.3223432.32
Start Date:	06 Dec-16 15:35	5 I	Protocol:	EPA/821/R-02-	-012 (2002)		Dilu	ent: Lab	oratory Wat	er	
Ending Date:	10 Dec-16 14:50	) ;	Species:	Pimephales pro	omelas		Brin	e: Not	Applicable		
Duration:	95h		Source:	Aquatic Biosys	tems, CO		Age:				
Sample ID:	15-7596-8751	(	Code:	AAN1216.041		2.25	Clie	nt: Am	erican Analy	tics	
Sample Date:	05 Dec-16 11:27	7 I	Waterial:	Sample Water			Proj	ect; A53	332013/6L05	013	
Receipt Date:	06 Dec-16 12:00	) 5	Source:	Bioassay Repo	ort						
Sample Age:	28h (3.5 °C)	5	Station:	6L05013-01							name that the same
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Analysis ID	Endpoint		Comp	arison Method	L		P-Value	Comparis	son Result		
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Test Acceptal	oility					TAC	Limits				······································
Analysis ID	Endpoint		Attrib	ute	Test Stat	Lower	Upper	Overlap	Decision		
01-7528-0745	96h Survival Ral	le	Contr	ol Resp	1	0.9	>>	Yes	Passes C	riteria	
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Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4						
Conc-%	Code N	Rep 1 10/10	Rep 2 10/10	Rep 3	Rep 4 10/10				200.000		

## **CETIS Analytical Report**

Report Date:

22 Dec-16 14:23 (p 1 of 2)

Test Code:

AAN1216.041 | 19-8906-9365

and the second							lesi	Code:	AAN	216.041	19-8906-936
Fathead Mini	now 96-h Acute	Survival Te	est				W	Aquatic	Bioassay &	Consultin	g Labs, Ind
Analysis ID: Analyzed:	01-7528-0745 22 Dec-16 14:		•	96h Survival R Nonparametric		le		IS Version		1.9.2	
Batch ID: Start Date: Ending Date: Duration:	21-0166-7510 06 Dec-16 15:3 10 Dec-16 14:5 95h	5 Pro 0 Spo	otocol: ecies:	Survival (96h) EPA/821/R-02 Pimephales pr Aquatic Biosys	omelas		Anal Dilu Brin Age	ent: La e: No	iboratory Wa ot Applicable	ter	
•	15-7596-8751 : 05 Dec-16 11:2 : 06 Dec-16 12:0 : 28h (3.5 °C)	7 <b>M</b> a 0 <b>So</b>	terial: urce:	AAN1216.041 Sample Water Bioassay Repo 6L05013-01	ort		Clie Proj		nerican Anal 3332013/6L0	•	
Data Transfo	rm	Alt Hyp					Comparis	on Resul	t		
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	<del></del>		Test S	tat Critical n/a	Ties DF	P-Type Exact	P-Value 1,0000	Decision Non-Sign	n(α:5%) nificant Effec		
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Attribute Control Resp	Test Stat	Lower 0.9	Upper >>	Overlap Yes	Decision Passes C	riteria		·		·	***************************************
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96h Survival I	Rate Summary					atal to constant		**************************************	<del>duinten lia</del> immenen	.I. Inc	
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
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100		4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
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Analyst: \_\_\_\_\_ QA:\_\_\_\_

## **CETIS Analytical Report**

Report Date:

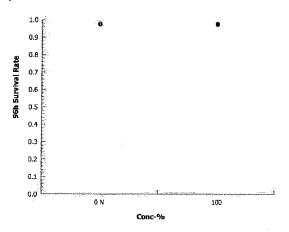
22 Dec-16 14:23 (p 2 of 2)

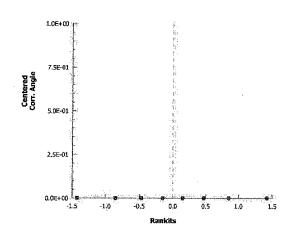
Test Code:

AAN1216.041 | 19-8906-9365

Fathead Minn	ow 96-h Acute Sur	vival Test			oassay & Consultir	g Labs, Inc.
Analysis ID:	01-7528-0745	Endpoint:	96h Survival Rate	CETIS Version:	CETISv1.9.2	
Analyzed:	22 Dec-16 14:23	Analysis:	Nonparametric-Two Sample	Official Results:	Yes	







Analyst: QA\_\_\_\_

## **CETIS Measurement Report**

Report Date:

22 Dec-16 14:23 (p 1 of 2)

Test Code:

AAN1216.041 | 19-8906-9365

								iest Gode.	WIN	1210.041	13-0300-330
Fathead Minr	now 96-h Acut	e Surviva	al Test		1			Aqua	itic Bioassay 8	Consultin	g Labs, Inc.
Batch ID: Start Date: Ending Date: Duration:	21-0166-7510 06 Dec-16 15: 10 Dec-16 14: 95h	:35	Test Type: Protocol: Species: Source:	Survival (96h) EPA/821/R-02 Pimephales p Aquatic Biosy	2-012 (2002) romelas			Analyst: Diluent: Brine: Age:	Laboratory Wa		
Sample ID:	15-7596-8751		Code:	AAN1216.041	(	***************************************	,	Client:	American Ana	hdian	-
•	05 Dec-16 11:	27	Material:	Sample Water				Project:	A5332013/6L0	•	
•	06 Dec-16 12:		Source:	Bioassay Rep				110,000	7100020107020	0010	
Sample Age:			Station:	6L05013-01							
Alkalinity (Ca	CO3)-ma/L									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Conc-%	Code	Count	t Mean	95% LCL	95% UCL	Min	Max	Std E	rr Std Dev	CV%	QA Coun
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100		3	480	480	480	480	480	0.	0	0.0%	0
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100		3	7.1	5.309	8.891	6.5	7.9	0.4163	0.7211	10.16%	0
Overall		6	7.283	6.719	7.848	6,5	7.9	0.2197	0.5382	7.39%	0 (0%)
Hardness (Ca	CO3)-mg/L										
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Er	r Std Dev	CV%	QA Coun
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100		3	674	674	674	674	674	0	0	0:0%	0
Overall		6	381	44.17	717.8	88	674	131	321	84.24%	0 (0%)
pH-Units								Camban Company			
Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Er	r Std Dev	CV%	QA Coun
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100		3	7.533	7.154	7.913	7.4	7.7	0.0881	9 0.1528	2.03%	0
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## **CETIS Measurement Report**

Report Date:

22 Dec-16 14:23 (p 2 of 2)

Test Code:

AAN1216.041 | 19-8906-9365

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pH-Units			.,					***************************************
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Tel: 818-998-5547 FAX: 818-998-7258

70047533 A.A. COC No.:

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	Sampler's Name:	Sampler's Signature:	P.O. 1	Quote No.	STED (Test Na				ind Codes **				100					1,6,		70				Time	e (;)		Time
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	roject Name / No	Site Address:	5	State & Zip:		72 Hour Rush 5 Dav Rush	10 Working Days (Standard TAT)	Date Time		9					The first of the second of the												
	Client: RMEPICAN, ANAL-CTICS Project Name / No.:	シスシス			TAT Turnaround Codes **	έ ΦΦΦ Π Π	" ) ×	A.A. L.D.		7														For Laboratory Use		÷	
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Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.

CONTRACTOR CONTRACTOR

## AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

292 921

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

AWALYTICS		Tel: 818	Tel: 818-998-5547	,	FAX; 818-998-7258				Page   of /	1
cilent: The Source Group, Inc.	up, Inc.	Project Name / No.:	me / No.:	DFSP - N	DFSP - Norwalk / 091-NDLA/ Monthly NPDES	/ Monthly NPDES	Sampler's Name:	-	Glan Androsta	<b></b>
Project Manager: Neil Irish	400	Site	Address:	15306 No	15306 Norwalk Blvd	Ç.	Sampler's Signature:	]	Man androh.	
Phone: 562-597-1055			Cità	Norwalk			P.O. No.			
Fax: 569-597-1070		Sta	State & Zip:	CA 90650	0		Quote No.:	No.:		nomen comm
	TAT Turnaround Codes **	£			9	ANALYSIS REQUESTED (Test Name)	ESTED (Test Na	me)		7
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45337013	45337012/6265013			Relin	Relinquished by	Date		, R	Received by	T

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



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

Fax: (818) 998-7258

December 13, 2016

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

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

A5332014 / 6L05014

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 12/05/16 13:19 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile

Operations Manager

### LABORATORY REPORT

Date: December 11, 2016

Client: American Analytics

9765 Eton Avenue Chatsworth, CA 91311 Attn: Viorel Vasile Aquatic Testing Laboratories

"dedicated to providing quality aquatic toxicity testing"

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

CA ELAP Cert. No.: 1775

**Laboratory No.:** A-16120605-001

**Project No.:** A5332014 **Sample ID.:** 6L05014-01

Sample Control: The sample was received by ATL chilled directly from the field and with the chain of

custody record attached.

Date Sampled: 12/05/16
Date Received: 12/06/16
Temp. Received: 1.3°C
Chlorine (TRC): 0.0 mg/l

Date Tested: 12/06/16 to 12/10/16

**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

6L05014-01 100% Survival (TUa = 0.0)

Quality Control: Reviewed and approved by:

Joseph A. LeMay

Laboratory Director

### FATHEAD MINNOW PERCENT SURVIVAL TEST EPA Method 2000.0



Lab No.: A-16120605-001

Client/ID: American Analytics 6L05014-01 Start Date: 12/06/2016

### TEST SUMMARY

Species: Pimephales promelas.
Age: 13 (1-14) days.
Regulations: NPDES.
Test solution volume: 250 ml.

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-161203.

### TEST DATA

	:	°C	DO	17		# D	ead		Analyst & Time
		٠٠.	DO	рН	Α	В	С	D	of Readings
INDEELA	Control	20.6	ş. S	<b>3</b> . 0	0	0	0	6	2
INITIAL	100%	20.7	6. >	7.5	0	0	0	0	1400 12-6-16
24.11	Control	14.9	815	79	0	0	0	0	7 12-7-16
24 Hr	100%	19.8	8.0	81-1	0	O	O	0	1230
48 Hr	Control	19.4	8,4	7. 🕏	0	0	O	0	1 12-8-16
46 [1]	100%	19.7	8.5	7.8	O	0	O	0	1330
n	Control	ر روح	8.5	8.0	0	0	0	6	7
Renewal	100%	20.0	e. 6	7. %	O	0	0	U	1330
73 11	Control	<b>ω</b> . /	8.2	7.9	0	0	0	0	2
72 Hr	100%	<u></u> 20. υ	ક. ર	7. 7	O	0	0	0	1330
06.11-	Control	20.7	8.1	7. 9	٥	0	0	0	2
96 Hr	100%	20.7	5.1	7.6	U	0	0	0	140 12706

### Comments:

Sample as received: Chlorine: \_\_\_\_\_ mg/l; Temp: \_\_\_\_\_ °C; DO: \_\_\_\_\_ 6. 6 \_\_ mg/l; pH: \_\_\_\_\_ 7. J \_\_; Alkalinity: \_\_\_\_\_ 489 \_\_ mg/l; Hardness: \_\_\_\_\_ f62 \_\_ mg/l; Conductivity: \_\_\_\_\_ 489 \_\_ umho; NH<sub>3</sub>-N: \_\_\_\_\_ J \_\_ mg/l. Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes /\_\_\_\_\_ No.

Control: Alkalinity: 59 mg/l; Hardness: 90 mg/l; Conductivity: 287 umho.

Test solution gerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Ves. /Old

Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes /No.

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

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

### RESULTS

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

# A quetic Testing lebs AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

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

70047534 C A.A. COC No.:

Client: RMECYCAN ANALKING	ANALKACS	Project Na	me / No.:	A533	2014	Project Name / No.: AS33201年 / 61.05014	14	Sampler's Name:	lame:		
Project Manager: \\\000000	el Varile	Site /	Address:					Sampler's Signature:	ature:		
Phone:			City:					P.0	P.O. NO.: 5'06.0'3 30 2-	3332- A5332014	
Fax:		Sta	State & Zip:			•		Quote	Quote No.:		
	TAT Turnaround Codes **					4	ANALYSIS REQUESTED (Test Name)	ESTED (Test N	Vame)		
	Same Day Rush	= 72 Hour Rus	<del>.</del> .			200					
(2) = 24 Hour Rush	. Rush (5) =	= 5 Day Rush					_	_	_		
3 = 48 Hour Rush	×	≈ 10 Working Days (Standard TAT)	Days (Sta	indard TAT)	-	) ju	_	_	_	Special	
Client I.D.	A.A. I.D.	Date	Time	Sample	No.	-\ -\ -\		/ /	//		
		•		Matrix	Cont	Please enter	Please enter the TAT Turnaround Codes **	und Codes	" below		
GL05014-01		11 दाक	1127	Water		×				1504821-ROLO12	
										•	
										18, 505 WILES	
										المراه المرام	
										Fothery Michol	
										l i	
		:									
					7						
For I	For Laboratory Use			Relin	Relinquispe	8	Date	Time	,	Afceived by	
		<b>-</b>					75-9-21	8:30		7/1/~	
				E /	Relinguished by	<b>b</b> y	Date (2 - 1/2)	Time   135	N. C.	Registed by	
				Refin	Relinquished by	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 project.

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



# REFERENCE TOXICANT DATA

### FATHEAD MINNOW ACUTE Reference Toxicant - SDS



QA/QC Batch No.: RT-161203

**TEST SUMMARY** 

Species: Pimephales promelas.

Age: <u>13</u> days old. Regulations: NPDES.

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

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

Source: In-lab culture. Test type: Static-Renewal.

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

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

Aeration: None.

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

### TEST DATA

		INITIAI				24 Hr					48 Hr		
Date/Time:	12-3-0	6	1130	(2	. 4-16	_	114	J	12-	5-lu		110	(
Analyst:		2				1					gr	<del></del>	
	TC T	DO	На	"C	DO		# D	Dead	"C	DO	pli	# D	ead
		<u> </u>	yn '		100	рН	Ä	В		100	ри	Α	В
Control	19.6	8.7	8.0	20. v	8.6	e. z	O	0	194	8.6	7-8		0
1.0 mg/l	17.6	9.0	8.0	17.4	2 - 1	g. (	0_	0	19.4	8.7	7-8	0	0
2.0 mg/l	127	8-8	810	125	6.5	8.1	0	0	19.3	87	7-8	U	0
4.0 mg/l	19.6	8.4	8.0	19.6	s. l	5.1	U	U	11.3	8.6	75	2	1
8.0 mg/l	(9.6	8.8	8.0	(1.5	8.3	z · f	10	to		-	•		,
16.0 mg/l	146	8. 7	8.0	17.5	8.4	B-(	(0	10	~	_	- "	-	Ļ

	R	ENEWA	AL.			72 Hr				<b>=</b>	96 Hr		
Date/Time:	12-5	-ly	110	12-6	.16		110	ა <sub>.</sub>	12-7	-16		113	0
Analyst:		pr	•		·	2					2		
	"C	DO	рН	TC.	DO	p}1	# I	)ead	"C	DO	рН	# D	cad
	<u> </u>	L			120	μπ 	Α	В			рn	A	В
Control	196	9.0	8.2	14.7	8. )	9.2	0	0	19.9	8.4	6. /	0	0
1.0 mg/l	19.5	9-1	8.2	19.6	8:3	8.2	O	0	19.8	8.2	8.2	U	0
2.0 mg/l	19.4	9.0	8,2	11.7	8.3	8. /	0	0	19.4	8. 2	8.2	O	0
4.0 mg/l	19.3	90	8.3	19.6	8,2	8.2	0	0	19.8	8./	8-2	0	υ
8.0 mg/l	_	-	ı	_	,	,	_	_				•	_
16.0 mg/l				-	-	1		_		-	_	-	-

Control: Alkalinity: <u>fv</u> mg/l; Hardness: <u>¶1</u> mg/l; Conductivity: <u>₹ ? ?</u> umho. Comments: Alkalinity: <u>61</u> mg/l; Hardness: <u>90</u> mg/l; Conductivity: <u>214</u> umho.

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

Yes (response curve normal)
No (dose interrupted indicated or non-normal)

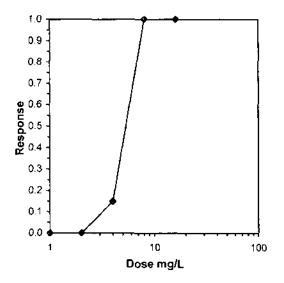
•				Acute Fish Test-96	Hr Survival	
Start Date:	12/3/2016	11:30	Test ID:	RT161203f	Sample ID:	REF-Ref Toxicant
End Date:	12/7/2016	11:30	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	SDS-Sodium dodecyl sulfate
Sample Date:	12/3/2016		Protocol:	EPAAW02-EPA/821/R-02-01	Test Species:	PP-Pimephales promelas
Comments:						
Conc-mg/L	1	2				
D-Control	1.0000	1.0000				
1	1.0000	1.0000				
2	1.0000	1.0000				
4	0.8000	0.9000				
8	0.0000	0.0000				
16	0.0000	0.0000				

			Tra	ansform:	Arcsin Sc	uare 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	0.8500	0.8500	1.1781	1.1071	1.2490	8.517	2	3	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

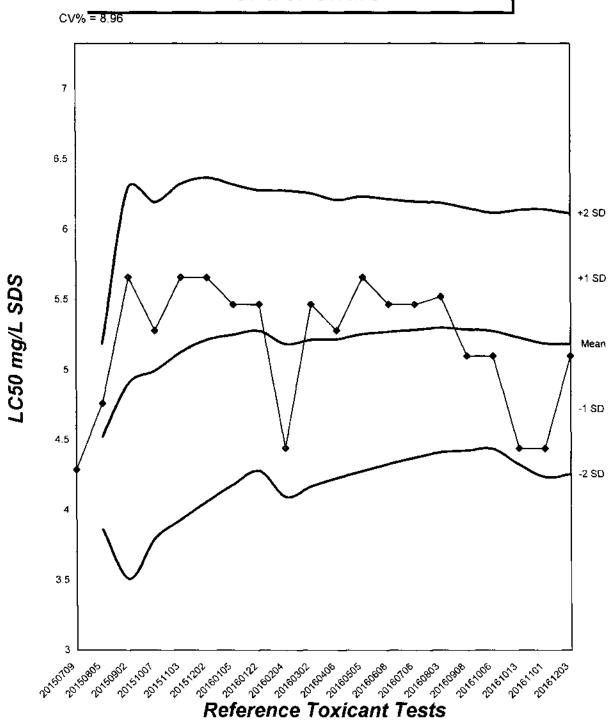
Auxiliary Tests	Statistic	Critical	Skew Kurt
Normality of the data set cannot be confirmed			
Facilities of continuous annual to a confirmed			

Equality of variance cannot be confirmed

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OL DO OOM	11100 00111	Equanty or raine
Trimmed Spearman-Karbe				
	CL	95%	EC50	Trim Level
<del></del>	5.6950	4.5640	5.0982	0.0%
	5.9309	4.5766	5.2099	5.0%
1.0	6.2583	4.4710	5.2897	10.0%
	5.7449	4.9289	5.3212	20.0%
0.9	5.6950	4.5640	5.0982	Auto-0.0%



# Fathead Minnow Acute Laboratory Control Chart



### **TEST ORGANISM LOG**

## FATHEAD MINNOW - LARVAL (Pimephales promelas)



SOURCE: In-Lab Culture
DATE HATCHED: 11-20-16
APPROXIMATE QUANTITY: y ov_
GENERAL APPEARANCE:
# MORTALITIES 48 HOURS PRIOR TO TO USE IN TESTING:
DATE USED IN LAB: 12/3/16
AVERAGE FISH WEIGHT: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 @ $20^{\circ}$ 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:

QA/QC BATCH NO.: RT-161203

Temp.: <u>19-6</u> °C pH: <u>8-0</u> Ammonia: <u>0-</u> mg/l NH<sub>3</sub>-N

DO: 8.7 mg/l Alkalinity: 60 mg/l Hardness: 97 mg/l

READINGS RECORDED BY: DATE: 12-4-16

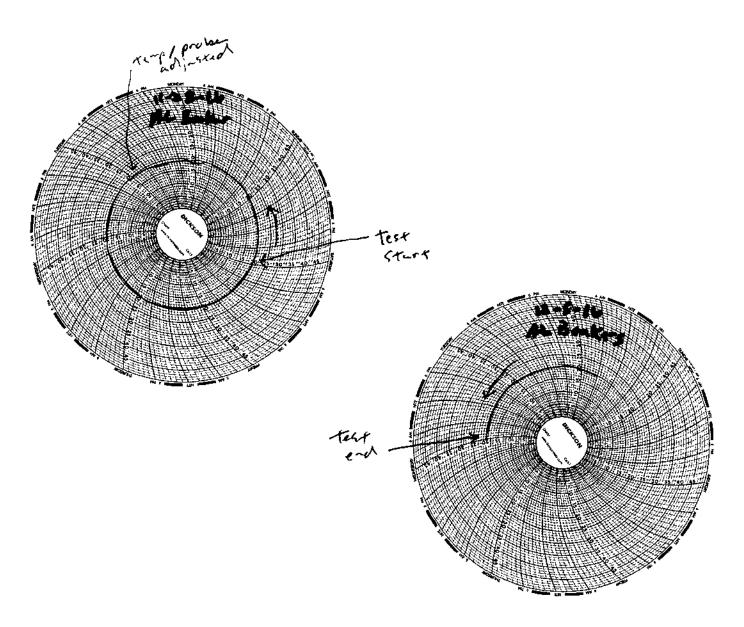


## Test Temperature Chart

Test No: RT-161203

Date Tested: 12/03/16 to 12/07/16

Acceptable Range: 20 +/- 1°C



# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

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

592921

ANALYTICS		Tel: 818-998-5547		FAX: 818-998-7258					Page of	[:
client: The Source Group, Inc.	p, Inc.	Project Name / No.:	1 1	DFSP - Norwalk / 091-NDLA/ Monthly NPDES	LA/ Month	y NPDES	Sampler's Name:	_	Slenn Androsku	
Project Manager: Neil Irish		Site Address:		15306 Norwalk Blvd		Sam	Sampler's Signature:		Glenn Online	
Phone: 562-597-1055		City:	y: Norwalk				Q.	P.O. No.:		
Fax: 569-597-1070		State & Zip:	p: CA 90650	0			Quo	Quote No.:	-	CALCOLATION POR
	TAT Turnaround Codes **	*				ANALYSIS REQUESTED (Test Name)	ESTED (Test	Name)		
(1) = Same D	ah A	= 72 Hour Rush			_	/ Kr.				<del>POWNERS.</del>
(2) = 24  Hour Rush $(3) = 46  Hour Rush$	Rush (5) =		The Wife Control of the Control of t	Control Spiritors		HO CE			Special	<del>17 - 16 M</del> (2011)
A TA MOUT RUSH	<	10 Working Days (Standard 1A1)	randard (A)	108 P	No Sin	√ usi-	-		mstructions	de l'ambie, <sub>plan</sub> es
Clent I.D.	<b>A.A. IC.</b>	Date	Sample	Q, Q,	HQT 981A	ਮੂ- <u>ਹਿਬ</u>				autono las depois qui in
			Y negative	Cont/ Please	enter the	enter the TAT Turnaround Codes ** below	und Codes	** below		<del>- La Option</del>
Effluent	10-6102079	12-5-16 1127	Water	<b>-</b>	>				Report J-Flags	
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				SAMPLE	4					<u> </u>
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	M 50	21 Laur, \$44.00						ruma o di de		
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									Entropy of the Control of the Contro	rő.
			-							
			Allens Of	Relinquished by		Date  2-5-16	Time // ½//	J.	Received by	POLETNIKUM
		·	Relin	Relinquished by		Date/ / < // (	Time		Received by	<u> </u>
/ h1028256	1 64.05014		Relin	Relinquished by		Date	Time		Received by	
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Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.



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

December 20, 2016

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

Re: DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013 A5332015 / 6L05015

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 12/05/16 13:19 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile

**Operations Manager** 



Client:The Source Group, Inc. (SH)AA Project No: A5332015Project No:04-NDLA-013Date Received: 12/05/16Project Name:DFSP Norwalk GWETS NPDES MonthlyDate Reported: 12/20/16

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B TPHGASOLINEBTEXOXY					
Effluent	6L05015-01	Water	5	12/05/16 10:49	12/05/16 13:19
Arsenic Total EPA 200.7					
Effluent	6L05015-01	Water	5	12/05/16 10:49	12/05/16 13:19
Diesel Range Organics 8015M					
Effluent	6L05015-01	Water	5	12/05/16 10:49	12/05/16 13:19



MDL

MRL



### **LABORATORY ANALYSIS RESULTS**

Client:The Source Group, Inc. (SH)AA Project No: A5332015Project No:04-NDLA-013Date Received: 12/05/16Project Name:DFSP Norwalk GWETS NPDES MonthlyDate Reported: 12/20/16Method:TPHG/BTEX/Oxygenates by GC/MSUnits: ug/L

Date Sampled:12/05/16Date Prepared:12/13/16Date Analyzed:12/13/16AA ID No:6L05015-01Client ID No:EffluentMatrix:WaterDilution Factor:1

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

<u>Surrogates</u>		%REC Limits
4-Bromofluorobenzene	97%	70-140
Dibromofluoromethane	123%	70-140
Toluene-d8	96%	70-140





Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

Method: Diesel Range Organics by GC/FID

AA Project No: A5332015

Date Received: 12/05/16

Date Reported: 12/20/16

Units: ug/L

 Date Sampled:
 12/05/16

 Date Prepared:
 12/06/16

 Date Analyzed:
 12/06/16

 AA ID No:
 6L05015-01

 Client ID No:
 Effluent

Matrix: Water

Dilution Factor: 1 MDL MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as <60 60 100

Diesel

Surrogates%REC Limitso-Terphenyl108%50-150



Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332015

Date Received: 12/05/16

Date Reported: 12/20/16

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

wethou:	Total Metals by ICI	P Atomic Emis	Sion Specific	oscopy					
AA I.D. No.	Client I.D. No.	Sampled	Prepared A	Analyzed [	Dilution	Result	Units	MDL	MRL
Arsenic Total	EPA 200.7 (EPA 200	.7)							
6L05015-01	Effluent	12/05/16	12/07/16	12/08/16	1	<0.0060	mg/L	0.006	0.007





Client:The Source Group, Inc. (SH)AA Project No: A5332015Project No:04-NDLA-013Date Received: 12/05/16Project Name:DFSP Norwalk GWETS NPDES MonthlyDate Reported: 12/20/16

Analyte	R Result	Reporting Limit	Units		Source Result		%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS										
Batch B6L1324 - EPA 5030B										
Blank (B6L1324-BLK1)				Prepare	ed & Anal	yzed: 1	2/13/16			
tert-Amyl Methyl Ether (TAME)	<0.30	0.30	ug/L	1			· -			
Benzene	<0.20	0.20	ug/L							
tert-Butyl alcohol (TBA)	<7.0	7.0	ug/L							
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L							
Ethylbenzene	<0.20	0.20	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	< 0.40	0.40	ug/L							
Gasoline Range Organics (GRO)	<40	40	ug/L							
Methyl-tert-Butyl Ether (MTBE)	< 0.40	0.40	ug/L							
Toluene	< 0.30	0.30	ug/L							
o-Xylene	< 0.30	0.30	ug/L							
m,p-Xylenes	<0.40	0.40	ug/L							
Surrogate: 4-Bromofluorobenzene	48.9		ug/L	50		97.8	70-140			
Surrogate: Dibromofluoromethane	<i>58.4</i>		ug/L	50		117	70-140			
Surrogate: Toluene-d8	47.7		ug/L	50		<i>95.4</i>	70-140			
LCS (B6L1324-BS1)			-	Prepare	ed & Anal	lyzed: 1	2/13/16			
tert-Amyl Methyl Ether (TAME)	17.7	0.30	ug/L	20		88.5	70-130	·		
Benzene	21.3	0.20	ug/L	20		106	75-125			
tert-Butyl alcohol (TBA)	115	7.0	ug/L	100		115	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)	18.9	0.40	ug/L	20		94.3	70-130			
Gasoline Range Organics (GRO)	471	40	ug/L	500		94.2	70-130			
Methyl-tert-Butyl Ether (MTBE)	38.8	0.40	ug/L	40		97.0	70-135			
Toluene	20.9	0.30	ug/L	20		104	75-125			
o-Xylene	20.4	0.30	ug/L	20		102	75-125			
m,p-Xylenes	42.3	0.40	ug/L	40		106	70-130	-	-	-
Surrogate: 4-Bromofluorobenzene	49.2		ug/L	50		98.5	70-140			
Surrogate: Dibromofluoromethane	49.4		ug/L	50		98.9	70-140			
Surrogate: Toluene-d8	<i>4</i> 9.6		ug/L	50		99.3	70-140			
Matrix Spike (B6L1324-MS1)	S	ource: 6L0	5015-01	Prepare	ed & Anal	lyzed: 1	2/13/16			





Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332015

Date Received: 12/05/16

Date Reported: 12/20/16

Analyte	Result	Reporting Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
ΓPHG/BTEX/Oxygenates by GC/MS	S - Qualit	v Control								
Batch B6L1324 - EPA 5030B		,								
Matrix Spike (B6L1324-MS1) Con	tinued S	ource: 6L0	5015-01	Prepare	ed & Anal	yzed: 12	2/13/16			
tert-Amyl Methyl Ether (TAME)	19.1	0.30	ug/L	20			70-130			
Benzene	20.8	0.20	ug/L	20		104	70-130			
tert-Butyl alcohol (TBA)	117	7.0	ug/L	100	<10	117	70-130			
Diisopropyl ether (DIPÉ)	20.2	0.50	ug/L	20		101	70-130			
Ethylbenzene	21.0	0.20	ug/L	20		105	70-130			
Ethyl-tert-Butyl Ether (ETBE)	19.6	0.40	ug/L	20		98.0	70-130			
Methyl-tert-Butyl Ether (MTBE)	40.4	0.40	ug/L	40	<2.0	101	70-130			
Toluene	20.0	0.30	ug/L	20		100	70-130			
o-Xylene	20.0	0.30	ug/L	20		100	70-130			
m,p-Xylenes	41.4	0.40	ug/L	40		103	70-130			
Surrogate: 4-Bromofluorobenzene	48.2		ug/L	50		96.5	70-140			
Surrogate: Dibromofluoromethane	49.2		ug/L	50		98.4	70-140			
Surrogate: Toluene-d8	49.3		ug/L	50		98.5	70-140			
Matrix Spike Dup (B6L1324-MSD	1) S	ource: 6L0	_	Prepare	ed & Anal	yzed: 12	2/13/16			
tert-Amyl Methyl Ether (TAME)	20.1	0.30	ug/L	20		100	70-130	5.15	30	
Benzene	20.5	0.20	ug/L	20		102	70-130	1.45	30	
tert-Butyl alcohol (TBA)	121	7.0	ug/L	100	<10	121	70-130	3.36	30	
Diisopropyl ether (DIPE)	20.3	0.50	ug/L	20		101	70-130	0.346	30	
Ethylbenzene	21.2	0.20	ug/L	20		106	70-130	1.19	30	
Ethyl-tert-Butyl Ether (ETBE)	20.4	0.40	ug/L	20		102	70-130	3.85	30	
Methyl-tert-Butyl Ether (MTBE)	45.8	0.40	ug/L	40	<2.0	115	70-130	12.7	30	
Toluene	20.2	0.30	ug/L	20		101	70-130	0.994	30	
o-Xylene	20.3	0.30	ug/L	20		101	70-130	1.29	30	
m,p-Xylenes	42.1	0.40	ug/L	40		105	70-130	1.63	30	
Surrogate: 4-Bromofluorobenzene	49.3		ug/L	50		98.6	70-140			
Surrogate: Dibromofluoromethane	49.6		ug/L	50		99.3	70-140			
Surrogate: Toluene-d8	49.1		ug/L	50		98.1	70-140			
Diesel Range Organics by GC/FID Batch B6L0618 - EPA 3510C	- Quality	Control								



Blank (B6L0618-BLK1)

Viorel Vasile Operations Manager Prepared & Analyzed: 12/06/16



Client:The Source Group, Inc. (SH)AA Project No: A5332015Project No:04-NDLA-013Date Received: 12/05/16Project Name:DFSP Norwalk GWETS NPDES MonthlyDate Reported: 12/20/16

•			•				•			
Analyte	Result	Reporting Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Diesel Range Organics by GC/FID	- Quality	/ Control								
Batch B6L0618 - EPA 3510C										
Blank (B6L0618-BLK1) Continue	d			Prepare	ed & Anal	yzed: 1	2/06/16			
Diesel Range Organics as Diesel	<60	60	ug/L							
Surrogate: o-Terphenyl	44.8		ug/L	40		112	50-150			
LCS (B6L0618-BS1)				Prepare	ed & Anal	yzed: 1	2/06/16			
Diesel Range Organics as Diesel	652	60	ug/L	800		81.5	75-125		30	
Surrogate: o-Terphenyl	40.7		ug/L	40		102	50-150			
LCS Dup (B6L0618-BSD1)				Prepare	ed & Anal	yzed: 1	2/06/16			
Diesel Range Organics as Diesel	880	60	ug/L	800		110	75-125	29.7	30	
Surrogate: o-Terphenyl	49.6		ug/L	40		124	50-150			
<b>Total Metals by ICP Atomic Emissi</b>	ion Spec	troscopy -	Quality (	Control						
Batch B6L0715 - EPA 200.7	-									
Blank (B6L0715-BLK1)				Prepare	ed: 12/07	/16 Ana	alyzed: 12	2/08/16		
Arsenic	<0.0060	0.0060	mg/L							
LCS (B6L0715-BS1)				Prepare	ed: 12/07/	/16 Ana	alyzed: 12	2/08/16		
Arsenic	0.186	0.0060	mg/L	0.20		92.8	80-120		20	_
LCS Dup (B6L0715-BSD1)				•	ed: 12/07		alyzed: 12			
Arsenic	0.194	0.0060	mg/L	0.20			80-120		20	
Duplicate (B6L0715-DUP1)		Source: 6L0		Prepare			alyzed: 12			
Arsenic	0.0186	0.0060	mg/L		0.0200			7.25	30	
Matrix Spike (B6L0715-MS1)		Source: 6L0		•				2/08/16		
Arsenic	0.206	0.0060	mg/L		<0.0070		75-125	2/00/40	20	
Matrix Spike Dup (B6L0715-MSD		Source: 6L0		•						
Arsenic	0.203	0.0060	mg/L	0.20	<0.0070	102	75-125	1.27	20	





Client: The Source Group, Inc. (SH)

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

Project Name: DFSP Norwalk GWETS NPDES Monthly

AA Project No: A5332015 Date Received: 12/05/16 Date Reported: 12/20/16

**Special Notes** 



# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

492921

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

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FAX: 818-998-7258	DFSP - Norwalk / 091-NDLA/ Monthly NPDES	15306 Norwalk Blvd	Norwalk	CA 90650				dard TAT)	Sample		Water		<del>(Stroklas</del> ya)													Relind	m Um	Relind	Reling
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ANALYTICS	Cilent: The Source Group, Inc.	Project Manager: Neil Irish	Phone: 562-597-1055	Fax: 569-597-1070		11	(2) = 24  Hour Rush	(3) = 48 Hour Rush	Client I.D.		Effluent									St.	Z								A533 7015

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



STATE WATER RESOURCES CONTROL BOARD REGIONAL WATER QUALITY CONTROL BOARDS

### CALIFORNIA STATE



### **ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM**

### CERTIFICATE OF ENVIRONMENTAL ACCREDITATION

Is hereby granted to

American Analytics Inc.

**Stationary Laboratory** 

9765 Eton Avenue

Chatsworth, CA 91311

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

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

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

Certificate No.:

1471

Expiration Date: 3/31/2017

Effective Date: 4/1/2015

Sacramento, California subject to forfeiture or revocation

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

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**APPENDIX C** 

Report Certification



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

January 11, 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 2016 for the Defense Fuel Support Point (DFSP) Norwalk facility in Norwalk, California.

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

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

Sincerely,

Digitally signed by POTTER.WILLIAM.Y.1394566272

Date: 2017.01.11 13:37:40 -05'00'

William Y. Potter Chief, Restoration Branch

Enclosure As stated

cc:

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