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| <u>Submittal Type:</u> | GEO_REPORT |
| <u>Report Title:</u> | GROUNDWATER DISCHARGE MONITORING REPORT QUARTER 1, 2019 |
| <u>Report Type:</u> | Monitoring Report - Quarterly |
| <u>Report Date:</u> | 4/12/2019 |
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| <u>Facility Name:</u> | Norwalk, Fuel Terminal DFSP - DOD - NORWALK DFSP |
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DEFENSE LOGISTICS AGENCY
ENERGY
8725 JOHN J. KINGMAN ROAD
FORT BELVOIR, VIRGINIA 22060-6222

April 12, 2019

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

Dear Mr. Kai:

In reference to General National Pollutant Discharge Elimination System (NPDES) Permit (NPDES No. CAG994004) CFN# CI-7585, please accept this letter as DLA's certification of the *Groundwater Discharge Monitoring Report – Quarter 1* of calendar year 2019 for the Defense Fuel Support Point (DFSP) Norwalk facility in Norwalk, California.

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

If you have any questions or need additional information concerning this document, please contact Ms. Carol Devier-Heeney at (571) 767-9813 or carol.devier-heeney@dla.mil.

Sincerely,


Digitally signed by
POTTER, WILLIAM.Y.1394566272
Date: 2019.04.12 10:16:26 -04'00'

William Y. Potter
Chief, Restoration Branch

Enclosure
As stated

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



April 12, 2019

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

Subject: **GROUNDWATER DISCHARGE MONITORING REPORT - QUARTER 1, 2019**
NPDES No. CAG994004; Compliance File No. CI-7585
Defense Fuel Support Point, Norwalk
15306 Norwalk Boulevard
Norwalk, California

On behalf of The Defense Logistics Agency Installation Management - Operations for Energy, DM-FE (DLA), The Source Group, Inc. (SGI) presents the subject report to summarize the National Pollutant Discharge Elimination System (NPDES) monitoring activities for Quarter 1, 2019 at Defense Fuel Support Point (DFSP), Norwalk located at 15306 Norwalk Boulevard, in Norwalk, California (Site).

SUMMARY OF REMEDIATION PROGRESS AND DISCHARGE VOLUMES

Active remediation systems at the Site include soil vapor extraction systems and a groundwater extraction and treatment system (GWETS). The treatment of extracted soil vapors and groundwater is ongoing at the Site to address historical impacts within the entire former tank farm, former water tank, former truck fueling, and pump house areas.

The GWETS consists of five vertical extraction wells (four 6-inch diameter wells and one 4-inch diameter well), three bag filter vessels, two MYCELX oil separator vessels, three granular activated carbon (GAC) vessels, and two ion exchange vessels. Four wells (GW-2, GW-13, GW-15, and GW-16) were in operation during the current reporting period. All treated groundwater was discharged in accordance with NPDES Permit No. CAG994004, Compliance File No. CI-7585 (see Summary of Compliance Results section).

GWETS discharge volumes and field notes for January, February and March 2019 are summarized in Tables 2A, 2B, and 2C, respectively (note that as Table 2C indicates, no discharge occurred during March 2019 as the system has been off-line since February 27, 2019 pending the completion of an alternative waste discharge evaluation study). Periodic site visits were conducted to assess and optimize system operation and record operational data. The total volume of groundwater extracted by the GWETS during Quarter 1, 2019 was approximately 126,436 gallons. Based on the total petroleum hydrocarbons as diesel (TPHd) results for influent water samples and total groundwater extracted, the mass of TPHd removed by the GWETS this period was approximately 0.03 pounds (Table 2C).

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

SUMMARY OF COMPLIANCE RESULTS

Representative samples of treated groundwater were collected from the system effluent in accordance with NPDES permit requirements with all parameters specified by the Monitoring and Reporting Program (MRP) either being measured analytically or in the field using applicable test equipment. A summary of the Quarter 1, 2019 monitoring results, including sample dates, is provided as Table 1.

As Table 1 indicates, all concentrations were below detection levels and/or did not exceed any of the permit discharge limits. Per the tabulated notes, accelerated monthly acute toxicity test samples were collected during the reporting period (see SGI's December 20, 2018 *Acute Toxicity Testing Exceedance Report* and January 15, 2019 *Groundwater Discharge Monitoring Report* for notification details, as well as investigative and action measures taken to help ensure permit compliance) with all the results demonstrating full compliance with the effluent permit limitation such that regular annual monitoring for this parameter will resume during November 2019 per Section IV, Part A.4 of the MRP. Laboratory analytical reports and chain-of-custody documents for all the samples collected this period are included in Appendix A.

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

LABORATORY CERTIFICATION

All analyses were conducted at laboratories 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. Additionally, the primary laboratory (American Analytics) is accredited under the Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP). All laboratory quality control data is included in the analytical reports provided in Appendix A. A copy of American Analytics ELAP Certification is provided in Appendix B.

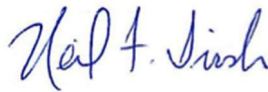
REPORT CERTIFICATION

The DLA report certification is provided in Appendix C.

Sincerely,



Michael Wood, P.E.
Senior Engineer



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

Attachments:

Table 1 – Summary of Effluent Groundwater Monitoring Results - 1st Quarter 2019
Table 2A – Groundwater Extraction and Treatment System Operations Summary - January
Table 2B – Groundwater Extraction and Treatment System Operations Summary - February
Table 2C – Groundwater Extraction and Treatment System Operations Summary - March

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

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

TABLES

TABLE 1
Summary of Effluent Groundwater Monitoring Results - 1st Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

| Sampling Frequency | | | Monthly | | | | | | | Quarterly | | | | | | | | | | Annually | | |
|-------------------------------|-------|------------------------------|-------------------|-----------------|--------------|---------------|-----------|-----------|----------|--------------|----------|-----------|--------------|-------------------|------------------------|------------------------|-------------------|-----------|-----------|-----------------------|------------------|------------------|
| Laboratory Analysis Methods | | | -- | SM 4500 H+B | -- | EPA 8015B (M) | EPA 8260B | EPA 8260B | EPA 6020 | SM 5520 B | EPA 6020 | SM 2130 B | SM 4500 S2-D | SM 4500-Cl F | SM 2540 C | SM 2540 D | SM 2540 F | SM 5540 C | EPA 420.1 | SM 5210 B | EPA 2000.0 | |
| Daily Discharge Limitations | | | -- | -- | -- | 100 µg/L | 5 µg/L | 12 µg/L | 10 µg/L | 15 mg/L | 30 µg/L | 150 NTU | 1.0 mg/L | 0.1 mg/L | -- | 75 mg/L | 0.3 mL/L | 0.5 mg/L | 1.0 mg/L | 30 mg/L | -- | |
| Monthly Discharge Limitations | | | -- | -- | -- | -- | -- | -- | -- | 10 mg/L | 15 µg/L | 50 NTU | -- | -- | -- | 50 mg/L | 0.1 mL/L | -- | -- | 20 mg/L | -- | |
| Sample Date | Notes | GWETS Wells On Line | Average Flow Rate | pH ^A | Temp-erature | TPH | MTBE | TBA | Arsenic | Oil & Grease | Copper | Turbidity | Sulfides | Residual Chlorine | Total Dissolved Solids | Total Suspended Solids | Settleable Solids | MBAS | Phenols | BOD ₅ 20°C | Acute Toxicity | |
| | | | (gpm) | pH units | °C | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (mg/L) | (µg/L) | (NTU) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mL/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (% Survival) |
| 1/8/19 | 1 | GW-2, GW-13 GW-15, GW-16 | 5.2 | 7.41 | 22.1 | <40 | <0.40 | <7.0 | <6.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 100 ^B |
| 2/6/19 | 1,2 | GW-2, GW-13, GW-15, GW-16 | 4.8 | 7.47 | 18.6 | <40 | <0.40 | <7.0 | <6.9 | <5.0 | <14 | 1.3 | <0.027 | <0.1 ^C | 1,000 | 6.2 J | <0.1 | <0.05 | <0.15 | <5.0 | 100 ^D | |

Legend / Notes:

GWETS = Groundwater extraction and treatment system

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

MTBE = Methyl tertiary-butyl ether

TBA = tertiary-Butyl alcohol

MBAS = Methylene blue active substances

BOD = Biochemical oxygen demand

gpm = Gallons per minute

µg/L = Micrograms per liter

mg/L = Milligrams per liter

NTU = Nephelometric Turbidity Units

mL/L = Milliliters per liter

<0.40 = Not detected at or above the Method Detection Limit (MDL) shown.

-- = Not measured or analyzed

J = Laboratory estimated value since analyte detected below Method Reporting Limit (MRL) but above MDL.

A = Measured in the field using an Oakton[®] pH Tester Model 30.

B = Second consecutive monthly passing result of required accelerated permit compliance monitoring per General Monitoring Provision V of Monitoring and Reporting Program No. CI-7585 (MRP; see SGI's January 15, 2019 *Groundwater Discharge Monitoring Report* for December 2018 result, and December 20, 2018 *Acute Toxicity Testing Exceedance Report* for initial notification details, investigative measures and follow up actions taken to help ensure continued permit compliance).

C = Measured in the field using a HACH[®] Chlorine Test Kit Model CN-70.

D = Third and final consecutive monthly passing result of required accelerated permit compliance monitoring with regular annual acute toxicity testing to therefore resume during November 2019 per Section IV, Part A.4 of the MRP.

1 = GWETS temporarily operated from January 7-8, 2019 and February 4-6, 2019 with all treated water going to holding tank as a precautionary measure followed by manual system shutdown pending confirmation of compliance with all permit limits (regular operations resumed from January 15-22, 2019 and February 18-27, 2019, respectively, after it was verified the treatment system was meeting all waste discharge requirements).

2 = GWETS manually shutdown on February 27, 2019 to conduct an alternative waste discharge evaluation study, and remained off-line through March 2019 pending completion of that study.

TABLE 2A
Groundwater Extraction and Treatment System Operations Summary - January
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

| Date | Data Source | Notes | GW-2 Totalizer Reading (gallons) | GW-13 Totalizer Reading (gallons) | GW-15 Totalizer Reading (gallons) | GW-16 Totalizer Reading (gallons) | Groundwater Extracted from North-East Area (gallons) | Groundwater Extracted from North-West Area (gallons) | NPDES Discharge Totalizer Reading (gallons) | Groundwater Extracted and Treated Per Day (gallons) | Influent DRO (ug/L) | Cumulative DRO Removed ^A (lb) |
|---------|-------------|---------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|--|--|---|---|---------------------|--|
| 1/1/19 | Off line | | 297,022 | 117,496 | 597,204 | 804,328 | 12,518,494 | 5,193,555 | 875,245 | 0 | -- | 9,946 |
| 1/2/19 | Off line | | 297,022 | 117,496 | 597,204 | 804,328 | 12,518,494 | 5,193,555 | 875,245 | 0 | -- | 9,946 |
| 1/3/19 | Off line | | 297,022 | 117,496 | 597,204 | 804,328 | 12,518,494 | 5,193,555 | 875,245 | 0 | -- | 9,946 |
| 1/4/19 | Off line | | 297,022 | 117,496 | 597,204 | 804,328 | 12,518,494 | 5,193,555 | 875,245 | 0 | -- | 9,946 |
| 1/5/19 | Off line | | 297,022 | 117,496 | 597,204 | 804,328 | 12,518,494 | 5,193,555 | 875,245 | 0 | -- | 9,946 |
| 1/6/19 | Off line | | 297,022 | 117,496 | 597,204 | 804,328 | 12,518,494 | 5,193,555 | 875,245 | 0 | -- | 9,946 |
| 1/7/19 | Technician | 1 | 297,022 | 117,496 | 597,204 | 804,328 | 12,518,494 | 5,193,555 | 875,245 | 0 | -- | 9,946 |
| 1/8/19 | Technician | 2,3,4,5 | 298,838 | 119,081 | 601,324 | 807,991 | 12,526,278 | 5,196,955 | 875,245 | 0 | ND <60 | 9,946 |
| 1/9/19 | Off line | | 298,838 | 119,081 | 601,324 | 807,991 | 12,526,278 | 5,196,955 | 875,245 | 0 | -- | 9,946 |
| 1/10/19 | Off line | | 298,838 | 119,081 | 601,324 | 807,991 | 12,526,278 | 5,196,955 | 875,245 | 0 | -- | 9,946 |
| 1/11/19 | Off line | | 298,838 | 119,081 | 601,324 | 807,991 | 12,526,278 | 5,196,955 | 875,245 | 0 | -- | 9,946 |
| 1/12/19 | Off line | | 298,838 | 119,081 | 601,324 | 807,991 | 12,526,278 | 5,196,955 | 875,245 | 0 | -- | 9,946 |
| 1/13/19 | Off line | | 298,838 | 119,081 | 601,324 | 807,991 | 12,526,278 | 5,196,955 | 875,245 | 0 | -- | 9,946 |
| 1/14/19 | Off line | | 298,838 | 119,081 | 601,324 | 807,991 | 12,526,278 | 5,196,955 | 875,245 | 0 | -- | 9,946 |
| 1/15/19 | Technician | 6 | 298,838 | 119,081 | 601,324 | 807,991 | 12,526,278 | 5,196,955 | 878,566 | 3,321 | -- | 9,946 |
| 1/16/19 | * | | 299,835 | 119,872 | 602,029 | 810,440 | 12,529,432 | 5,198,743 | 884,302 | 5,736 | -- | 9,946 |
| 1/17/19 | * | | 300,832 | 120,663 | 602,735 | 812,888 | 12,532,586 | 5,200,532 | 890,038 | 5,736 | -- | 9,946 |
| 1/18/19 | * | | 301,829 | 121,454 | 603,440 | 815,337 | 12,535,740 | 5,202,320 | 895,774 | 5,736 | -- | 9,946 |
| 1/19/19 | * | | 302,826 | 122,245 | 604,146 | 817,786 | 12,538,894 | 5,204,108 | 901,510 | 5,736 | -- | 9,946 |
| 1/20/19 | * | | 303,824 | 123,036 | 604,851 | 820,234 | 12,542,048 | 5,205,896 | 907,246 | 5,736 | -- | 9,946 |
| 1/21/19 | * | | 304,821 | 123,826 | 605,556 | 822,683 | 12,545,202 | 5,207,684 | 912,982 | 5,736 | -- | 9,946 |
| 1/22/19 | Technician | 7 | 305,960 | 124,730 | 606,362 | 825,480 | 12,548,805 | 5,209,727 | 919,534 | 6,552 | -- | 9,946 |
| 1/23/19 | Off line | | 305,960 | 124,730 | 606,362 | 825,480 | 12,548,805 | 5,209,727 | 919,534 | 0 | -- | 9,946 |
| 1/24/19 | Off line | | 305,960 | 124,730 | 606,362 | 825,480 | 12,548,805 | 5,209,727 | 919,534 | 0 | -- | 9,946 |
| 1/25/19 | Off line | | 305,960 | 124,730 | 606,362 | 825,480 | 12,548,805 | 5,209,727 | 919,534 | 0 | -- | 9,946 |
| 1/26/19 | Off line | | 305,960 | 124,730 | 606,362 | 825,480 | 12,548,805 | 5,209,727 | 919,534 | 0 | -- | 9,946 |
| 1/27/19 | Off line | | 305,960 | 124,730 | 606,362 | 825,480 | 12,548,805 | 5,209,727 | 919,534 | 0 | -- | 9,946 |
| 1/28/19 | Off line | | 305,960 | 124,730 | 606,362 | 825,480 | 12,548,805 | 5,209,727 | 919,534 | 0 | -- | 9,946 |
| 1/29/19 | Off line | | 305,960 | 124,730 | 606,362 | 825,480 | 12,548,805 | 5,209,727 | 919,534 | 0 | -- | 9,946 |
| 1/30/19 | Off line | | 305,960 | 124,730 | 606,362 | 825,480 | 12,548,805 | 5,209,727 | 919,534 | 0 | -- | 9,946 |
| 1/31/19 | Off line | | 305,960 | 124,730 | 606,362 | 825,480 | 12,548,805 | 5,209,727 | 919,534 | 0 | -- | 9,946 |

| Cumulative Groundwater Discharged by the GWETS to Date (gallons) | | | | | | | |
|--|---------|-----------------|-----------------|-----------------|-----------------|--------------|--------------------|
| Period | January | Quarter 1, 2019 | Quarter 2, 2019 | Quarter 3, 2019 | Quarter 4, 2019 | 2019 to Date | April 1996 to Date |
| Volume | 44,289 | 44,289 | -- | -- | -- | 44,289 | 79,332,241 |

| Cumulative Mass DRO Removed by the GWETS ^A (lb) | | | |
|--|---------|-------------------|--------------------|
| Period | January | Quarter 1 to Date | April 1996 to Date |
| Mass | 0.01 | 0.01 | 9,945.9 |

$$Liquid-Phase\ DRO\ Mass\ [lb] = \left(Conc. \left[\frac{\mu g}{L} \right] \right) \cdot \left(\frac{3,785\ L}{gal} \right) \cdot \left(\frac{1\ g}{1,000,000\ \mu g} \right) \cdot \left(\frac{1\ lb}{453.59\ g} \right) \cdot (Volume\ [gal])$$

Legend / Notes:

- 1 = GWETS restarted (off-line since 12/20/18) with all discharge going to a temporary holding tank.
- 2 = Collected monthly effluent field data and samples for laboratory analysis (see Table 1).
- 3 = Collected second consecutive monthly effluent acute toxicity sample for laboratory analysis as part of required accelerated permit compliance monitoring (see Table 1).
- 4 = Collected monthly process and intermediate samples for laboratory analysis.
- 5 = GWETS manually shut down as a precautionary measure pending confirmation of compliance with all permit limits.
- 6 = GWETS restarted with regular discharge resuming following confirmation of compliance with all permit limits.
- 7 = GWETS manually shut down in advance of February 2019 sampling activities.

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

lb = Pounds
 DRO = Diesel range organics

A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit used) from sample collected on: 1/8/19

-- = Not applicable

* = Operational totalizer values extrapolated from previous and subsequent monitoring event data.

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

TABLE 2B
Groundwater Extraction and Treatment System Operations Summary - February
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

| Date | Data Source | Notes | GW-2 Totalizer Reading (gallons) | GW-13 Totalizer Reading (gallons) | GW-15 Totalizer Reading (gallons) | GW-16 Totalizer Reading (gallons) | Groundwater Extracted from North-East Area (gallons) | Groundwater Extracted from North-West Area (gallons) | NPDES Discharge Totalizer Reading (gallons) | Groundwater Extracted and Treated Per Day (gallons) | Influent DRO (ug/L) | Cumulative DRO Removed ^A (lb) |
|---------|-------------|---------|---|--|--|--|---|---|---|--|---------------------------|---|
| 2/1/19 | Off line | | 305,960 | 124,730 | 606,362 | 825,480 | 12,548,805 | 5,209,727 | 919,534 | 0 | -- | 9,946 |
| 2/2/19 | Off line | | 305,960 | 124,730 | 606,362 | 825,480 | 12,548,805 | 5,209,727 | 919,534 | 0 | -- | 9,946 |
| 2/3/19 | Off line | | 305,960 | 124,730 | 606,362 | 825,480 | 12,548,805 | 5,209,727 | 919,534 | 0 | -- | 9,946 |
| 2/4/19 | Technician | 1 | 305,960 | 124,730 | 606,362 | 825,480 | 12,548,805 | 5,209,727 | 919,534 | 0 | -- | 9,946 |
| 2/5/19 | * | | 307,112 | 126,789 | 606,362 | 829,395 | 12,552,720 | 5,212,938 | 919,534 | 0 | -- | 9,946 |
| 2/6/19 | Technician | 2,3,4,5 | 308,180 | 128,697 | 606,362 | 833,024 | 12,556,349 | 5,215,914 | 919,534 | 0 | ND <60 | 9,946 |
| 2/7/19 | Off line | | 308,180 | 128,697 | 606,362 | 833,024 | 12,556,349 | 5,215,914 | 919,534 | 0 | -- | 9,946 |
| 2/8/19 | Off line | | 308,180 | 128,697 | 606,362 | 833,024 | 12,556,349 | 5,215,914 | 919,534 | 0 | -- | 9,946 |
| 2/9/19 | Off line | | 308,180 | 128,697 | 606,362 | 833,024 | 12,556,349 | 5,215,914 | 919,534 | 0 | -- | 9,946 |
| 2/10/19 | Off line | | 308,180 | 128,697 | 606,362 | 833,024 | 12,556,349 | 5,215,914 | 919,534 | 0 | -- | 9,946 |
| 2/11/19 | Off line | | 308,180 | 128,697 | 606,362 | 833,024 | 12,556,349 | 5,215,914 | 919,534 | 0 | -- | 9,946 |
| 2/12/19 | Off line | | 308,180 | 128,697 | 606,362 | 760,833 | 12,556,349 | 5,215,914 | 919,534 | 0 | -- | 9,946 |
| 2/13/19 | Off line | | 308,180 | 128,697 | 606,362 | 833,024 | 12,556,349 | 5,215,914 | 919,534 | 0 | -- | 9,946 |
| 2/14/19 | Off line | | 308,180 | 128,697 | 606,362 | 833,024 | 12,556,349 | 5,215,914 | 919,534 | 0 | -- | 9,946 |
| 2/15/19 | Off line | | 308,180 | 128,697 | 606,362 | 833,024 | 12,556,349 | 5,215,914 | 919,534 | 0 | -- | 9,946 |
| 2/16/19 | Off line | | 308,180 | 128,697 | 606,362 | 833,024 | 12,556,349 | 5,215,914 | 919,534 | 0 | -- | 9,946 |
| 2/17/19 | Off line | | 308,180 | 128,697 | 606,362 | 833,024 | 12,556,349 | 5,215,914 | 919,534 | 0 | -- | 9,946 |
| 2/18/19 | Technician | 6 | 308,180 | 128,697 | 606,362 | 833,024 | 12,556,349 | 5,215,914 | 922,101 | 2,567 | -- | 9,946 |
| 2/19/19 | * | | 308,877 | 129,516 | 606,479 | 836,824 | 12,560,266 | 5,217,430 | 931,019 | 8,918 | -- | 9,946 |
| 2/20/19 | * | | 309,573 | 130,335 | 606,596 | 840,624 | 12,564,184 | 5,218,946 | 939,937 | 8,918 | -- | 9,946 |
| 2/21/19 | * | | 310,270 | 131,154 | 606,713 | 844,424 | 12,568,101 | 5,220,461 | 948,855 | 8,918 | -- | 9,946 |
| 2/22/19 | * | | 310,967 | 131,973 | 606,830 | 848,225 | 12,572,018 | 5,221,977 | 957,773 | 8,918 | -- | 9,946 |
| 2/23/19 | * | | 311,664 | 132,793 | 606,947 | 852,025 | 12,575,935 | 5,223,493 | 966,691 | 8,918 | -- | 9,946 |
| 2/24/19 | * | | 312,360 | 133,612 | 607,064 | 855,825 | 12,579,852 | 5,225,009 | 975,608 | 8,918 | -- | 9,946 |
| 2/25/19 | * | | 313,057 | 134,431 | 607,181 | 859,625 | 12,583,769 | 5,226,525 | 984,526 | 8,918 | -- | 9,946 |
| 2/26/19 | * | | 313,754 | 135,250 | 607,298 | 863,425 | 12,587,686 | 5,228,041 | 993,444 | 8,918 | -- | 9,946 |
| 2/27/19 | Technician | 7,8 | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 8,237 | -- | 9,946 |
| 2/28/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/1/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/2/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |

| Cumulative Groundwater Discharged by the GWETS (gallons) | | | | | | | |
|--|----------|-----------------|-----------------|-----------------|-----------------|--------------|--------------------|
| Period | February | Quarter 1, 2019 | Quarter 2, 2019 | Quarter 3, 2019 | Quarter 4, 2019 | 2019 to Date | April 1996 to Date |
| Volume | 82,147 | 126,436 | -- | -- | -- | 126,436 | 79,414,388 |

| Cumulative Mass DRO Removed by the GWETS ^A (lb) | | | |
|--|----------|-------------------|--------------------|
| Period | February | Quarter 1 to Date | April 1996 to Date |
| Mass | 0.02 | 0.03 | 9,945.9 |

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

Legend / Notes:

- 1 = GWETS restarted (off-line since 1/22/19) with all discharge going to a temporary holding tank.
- 2 = Collected monthly and quarterly effluent field data and samples for laboratory analysis (see Table 1).
- 3 = Collected third and final consecutive monthly effluent acute toxicity sample for laboratory analysis to complete accelerated permit compliance monitoring requirement (see Table 1).
- 4 = Collected monthly process and intermediate samples for laboratory analysis.
- 5 = GWETS manually shut down as a precautionary measure pending confirmation of compliance with all permit limits.
- 6 = GWETS restarted with regular discharge resuming following confirmation of compliance with all permit limits.
- 7 = GWETS manually shut down to conduct an alternative waste discharge evaluation study.
- 8 = GW-15 totalizer determined to not be functioning properly and removed for service.

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

lb = Pounds
 DRO = Diesel range organics

A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit used) from sample collected on: 2/6/19

-- = Not applicable

* = Operational totalizer values extrapolated from previous and subsequent monitoring event data.

TABLE 2C
Groundwater Extraction and Treatment System Operations Summary - March
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

| Date | Data Source | Notes | GW-2 Totalizer Reading (gallons) | GW-13 Totalizer Reading (gallons) | GW-15 Totalizer Reading (gallons) | GW-16 Totalizer Reading (gallons) | Groundwater Extracted from North-East Area (gallons) | Groundwater Extracted from North-West Area (gallons) | NPDES Discharge Totalizer Reading (gallons) | Groundwater Extracted and Treated Per Day (gallons) | Influent DRO (ug/L) | Cumulative DRO Removed ^A (lb) |
|---------|-------------|-------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|--|--|---|---|---------------------|--|
| 3/1/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/2/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/3/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/4/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/5/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/6/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/7/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/8/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/9/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/10/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/11/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/12/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/13/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/14/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/15/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/16/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/17/19 | Off line | | 293,114 | 113,804 | 607,406 | 796,262 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/18/19 | Off line | | 314,397 | 136,007 | 607,406 | 798,740 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/19/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/20/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/21/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/22/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/23/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/24/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/25/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/26/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/27/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/28/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/29/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/30/19 | Off line | | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |
| 3/31/19 | Off line | 1 | 314,397 | 136,007 | 607,406 | 866,935 | 12,591,304 | 5,229,441 | 1,001,681 | 0 | -- | 9,946 |

| Cumulative Groundwater Discharged by the GWETS (gallons) | | | | | | | |
|--|-------|-----------------|-----------------|-----------------|-----------------|--------------|--------------------|
| Period | March | Quarter 1, 2019 | Quarter 2, 2019 | Quarter 3, 2019 | Quarter 4, 2019 | 2019 to Date | April 1996 to Date |
| Volume | 0 | 126,436 | -- | -- | -- | 126,436 | 79,414,388 |

| Cumulative Mass DRO Removed by the GWETS ^A (lb) | | | |
|--|-------|-------------------|--------------------|
| Period | March | Quarter 1 to Date | April 1996 to Date |
| Mass | 0.00 | 0.03 | 9,945.9 |

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

Legend / Notes:

1 = GWETS off-line the entire month pending the completion of an alternative waste discharge evaluation study.

Groundwater extraction wells on line this month: Off-line

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 used) from sample collected on: Off-line

-- = Not applicable

* = Operational totalizer values extrapolated from previous and subsequent monitoring event data.

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



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

January 15, 2019

Neil Irish

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

**Re : DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013
A5332967 / 9A08011**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 01/08/19 15:34 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332967
Date Received: 01/08/19
Date Reported: 01/15/19

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

8260B TPHGASOLINEBTEXOXY

| | | | | | |
|----------|------------|-------|---|----------------|----------------|
| Effluent | 9A08011-01 | Water | 5 | 01/08/19 11:57 | 01/08/19 15:34 |
|----------|------------|-------|---|----------------|----------------|

Arsenic Total EPA 200.7

| | | | | | |
|----------|------------|-------|---|----------------|----------------|
| Effluent | 9A08011-01 | Water | 5 | 01/08/19 11:57 | 01/08/19 15:34 |
|----------|------------|-------|---|----------------|----------------|

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332967
Date Received: 01/08/19
Date Reported: 01/15/19
Units: ug/L

| | | | |
|-------------------------|------------|-----|-----|
| Date Sampled: | 01/08/19 | | |
| Date Prepared: | 01/11/19 | | |
| Date Analyzed: | 01/11/19 | | |
| AA ID No: | 9A08011-01 | | |
| Client ID No: | Effluent | | |
| Matrix: | Water | | |
| Dilution Factor: | 1 | MDL | MRL |

8260B TPHGASOLINEBTEXOXY (EPA 8260B)

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

Surrogates

| | | |
|----------------------|------|---------------------------|
| | | <u>%REC Limits</u> |
| 4-Bromofluorobenzene | 110% | 70-140 |
| Dibromofluoromethane | 100% | 70-140 |
| Toluene-d8 | 107% | 70-140 |

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332967
Date Received: 01/08/19
Date Reported: 01/15/19

| AA I.D. No. | Client I.D. No. | Sampled | Prepared | Analyzed | Dilution | Result | Units | MDL | MRL |
|---|-----------------|----------|----------|----------|----------|---------|-------|-------|-------|
| <u>Arsenic Total EPA 200.7 (EPA 200.7)</u> | | | | | | | | | |
| 9A08011-01 | Effluent | 01/08/19 | 01/09/19 | 01/11/19 | 1 | <0.0060 | mg/L | 0.006 | 0.007 |

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332967
Date Received: 01/08/19
Date Reported: 01/15/19

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|-------------|-----------------|-------------|-------------|---------------|-------------|---------------|-----|-----------|-------|
| TPHG/BTEX/Oxygenates by GC/MS - Quality Control | | | | | | | | | | |
| <i>Batch B9A1106 - EPA 5030B</i> | | | | | | | | | | |
| Blank (B9A1106-BLK1) Prepared & Analyzed: 01/11/19 | | | | | | | | | | |
| tert-Amyl Methyl Ether (TAME) | <0.30 | 0.30 | ug/L | | | | | | | |
| Benzene | <0.20 | 0.20 | ug/L | | | | | | | |
| tert-Butyl alcohol (TBA) | <7.0 | 7.0 | ug/L | | | | | | | |
| Diisopropyl ether (DIPE) | <0.50 | 0.50 | ug/L | | | | | | | |
| Ethylbenzene | <0.20 | 0.20 | ug/L | | | | | | | |
| Ethyl-tert-Butyl Ether (ETBE) | <0.40 | 0.40 | ug/L | | | | | | | |
| Gasoline Range Organics (GRO) | <40 | 40 | ug/L | | | | | | | |
| Methyl-tert-Butyl Ether (MTBE) | <0.40 | 0.40 | ug/L | | | | | | | |
| Toluene | <0.30 | 0.30 | ug/L | | | | | | | |
| o-Xylene | <0.30 | 0.30 | ug/L | | | | | | | |
| m,p-Xylenes | <0.40 | 0.40 | ug/L | | | | | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>49.4</i> | | <i>ug/L</i> | <i>50</i> | | <i>98.9</i> | <i>70-140</i> | | | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>45.3</i> | | <i>ug/L</i> | <i>50</i> | | <i>90.6</i> | <i>70-140</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>49.5</i> | | <i>ug/L</i> | <i>50</i> | | <i>99.0</i> | <i>70-140</i> | | | |
| LCS (B9A1106-BS1) Prepared & Analyzed: 01/11/19 | | | | | | | | | | |
| tert-Amyl Methyl Ether (TAME) | 15.6 | 0.30 | ug/L | 20 | | 77.8 | 70-130 | | | |
| Benzene | 16.0 | 0.20 | ug/L | 20 | | 80.0 | 75-125 | | | |
| tert-Butyl alcohol (TBA) | 83.2 | 7.0 | ug/L | 100 | | 83.2 | 70-130 | | | |
| Diisopropyl ether (DIPE) | 16.4 | 0.50 | ug/L | 20 | | 81.8 | 70-130 | | | |
| Ethylbenzene | 22.5 | 0.20 | ug/L | 20 | | 112 | 75-125 | | | |
| Ethyl-tert-Butyl Ether (ETBE) | 15.3 | 0.40 | ug/L | 20 | | 76.6 | 70-130 | | | |
| Gasoline Range Organics (GRO) | 465 | 40 | ug/L | 500 | | 93.0 | 70-130 | | | |
| Methyl-tert-Butyl Ether (MTBE) | 32.8 | 0.40 | ug/L | 40 | | 81.9 | 70-135 | | | |
| Toluene | 21.1 | 0.30 | ug/L | 20 | | 106 | 75-125 | | | |
| o-Xylene | 21.7 | 0.30 | ug/L | 20 | | 109 | 75-125 | | | |
| m,p-Xylenes | 43.6 | 0.40 | ug/L | 40 | | 109 | 70-130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>47.9</i> | | <i>ug/L</i> | <i>50</i> | | <i>95.9</i> | <i>70-140</i> | | | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>43.8</i> | | <i>ug/L</i> | <i>50</i> | | <i>87.7</i> | <i>70-140</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>49.6</i> | | <i>ug/L</i> | <i>50</i> | | <i>99.1</i> | <i>70-140</i> | | | |
| Matrix Spike (B9A1106-MS1) Source: 9A08011-01 Prepared & Analyzed: 01/11/19 | | | | | | | | | | |
| tert-Amyl Methyl Ether (TAME) | 20.5 | 0.30 | ug/L | 20 | | 103 | 70-130 | | | |

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332967
Date Received: 01/08/19
Date Reported: 01/15/19

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

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

Batch B9A1106 - EPA 5030B

Matrix Spike (B9A1106-MS1) Continued Source: 9A08011-01 Prepared & Analyzed: 01/11/19

| | | | | | | | | | | |
|--------------------------------|------|------|------|-----|------|------|--------|--|--|--|
| Benzene | 19.4 | 0.20 | ug/L | 20 | | 96.9 | 70-130 | | | |
| tert-Butyl alcohol (TBA) | 116 | 7.0 | ug/L | 100 | <10 | 116 | 70-130 | | | |
| Diisopropyl ether (DIPE) | 19.9 | 0.50 | ug/L | 20 | | 99.3 | 70-130 | | | |
| Ethylbenzene | 23.2 | 0.20 | ug/L | 20 | | 116 | 70-130 | | | |
| Ethyl-tert-Butyl Ether (ETBE) | 20.2 | 0.40 | ug/L | 20 | | 101 | 70-130 | | | |
| Methyl-tert-Butyl Ether (MTBE) | 39.6 | 0.40 | ug/L | 40 | <2.0 | 98.9 | 70-130 | | | |
| Toluene | 21.9 | 0.30 | ug/L | 20 | | 110 | 70-130 | | | |
| o-Xylene | 23.3 | 0.30 | ug/L | 20 | | 116 | 70-130 | | | |
| m,p-Xylenes | 45.8 | 0.40 | ug/L | 40 | | 114 | 70-130 | | | |

| | | | | | | | | | | |
|---------------------------------|------|--|------|----|--|------|--------|--|--|--|
| Surrogate: 4-Bromofluorobenzene | 49.4 | | ug/L | 50 | | 98.8 | 70-140 | | | |
| Surrogate: Dibromofluoromethane | 49.3 | | ug/L | 50 | | 98.6 | 70-140 | | | |
| Surrogate: Toluene-d8 | 51.6 | | ug/L | 50 | | 103 | 70-140 | | | |

Matrix Spike Dup (B9A1106-MSD1) Source: 9A08011-01 Prepared & Analyzed: 01/11/19

| | | | | | | | | | | |
|--------------------------------|------|------|------|-----|------|------|--------|------|----|--|
| tert-Amyl Methyl Ether (TAME) | 19.7 | 0.30 | ug/L | 20 | | 98.6 | 70-130 | 3.93 | 30 | |
| Benzene | 18.2 | 0.20 | ug/L | 20 | | 90.8 | 70-130 | 6.55 | 30 | |
| tert-Butyl alcohol (TBA) | 121 | 7.0 | ug/L | 100 | <10 | 121 | 70-130 | 4.22 | 30 | |
| Diisopropyl ether (DIPE) | 20.2 | 0.50 | ug/L | 20 | | 101 | 70-130 | 1.70 | 30 | |
| Ethylbenzene | 22.6 | 0.20 | ug/L | 20 | | 113 | 70-130 | 2.66 | 30 | |
| Ethyl-tert-Butyl Ether (ETBE) | 19.5 | 0.40 | ug/L | 20 | | 97.7 | 70-130 | 3.27 | 30 | |
| Methyl-tert-Butyl Ether (MTBE) | 38.6 | 0.40 | ug/L | 40 | <2.0 | 96.4 | 70-130 | 2.51 | 30 | |
| Toluene | 21.0 | 0.30 | ug/L | 20 | | 105 | 70-130 | 4.28 | 30 | |
| o-Xylene | 22.2 | 0.30 | ug/L | 20 | | 111 | 70-130 | 4.48 | 30 | |
| m,p-Xylenes | 43.5 | 0.40 | ug/L | 40 | | 109 | 70-130 | 5.20 | 30 | |

| | | | | | | | | | | |
|---------------------------------|------|--|------|----|--|------|--------|--|--|--|
| Surrogate: 4-Bromofluorobenzene | 49.8 | | ug/L | 50 | | 99.6 | 70-140 | | | |
| Surrogate: Dibromofluoromethane | 45.3 | | ug/L | 50 | | 90.7 | 70-140 | | | |
| Surrogate: Toluene-d8 | 50.9 | | ug/L | 50 | | 102 | 70-140 | | | |

Total Metals by ICP Atomic Emission Spectroscopy - Quality Control

Batch B9A0922 - EPA 200.7

Blank (B9A0922-BLK1) Prepared: 01/09/19 Analyzed: 01/11/19

| | | | | | | | | | | |
|---------|---------|--------|------|--|--|--|--|--|--|--|
| Arsenic | <0.0060 | 0.0060 | mg/L | | | | | | | |
|---------|---------|--------|------|--|--|--|--|--|--|--|

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332967
Date Received: 01/08/19
Date Reported: 01/15/19

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|-----------------|-------|---|---------------|--------|-------------|------|-----------|-------|
| Total Metals by ICP Atomic Emission Spectroscopy - Quality Control | | | | | | | | | | |
| <i>Batch B9A0922 - EPA 200.7</i> | | | | | | | | | | |
| LCS (B9A0922-BS1) | | | | Prepared: 01/09/19 Analyzed: 01/11/19 | | | | | | |
| Arsenic | 1.01 | 0.0060 | mg/L | 1.0 | 101 | 80-120 | | | 20 | |
| LCS Dup (B9A0922-BSD1) | | | | Prepared: 01/09/19 Analyzed: 01/11/19 | | | | | | |
| Arsenic | 1.02 | 0.0060 | mg/L | 1.0 | 102 | 80-120 | 0.885 | | 20 | |
| Duplicate (B9A0922-DUP1) | | | | Source: 9A08014-08 Prepared: 01/09/19 Analyzed: 01/11/19 | | | | | | |
| Arsenic | 0.0151 | 0.0060 | mg/L | | 0.0141 | | | 6.85 | 30 | |
| Matrix Spike (B9A0922-MS1) | | | | Source: 9A08014-01 Prepared: 01/09/19 Analyzed: 01/11/19 | | | | | | |
| Arsenic | 0.931 | 0.0060 | mg/L | 1.0 | 0.0241 | 90.7 | 75-125 | | 20 | |
| Matrix Spike Dup (B9A0922-MSD1) | | | | Source: 9A08014-01 Prepared: 01/09/19 Analyzed: 01/11/19 | | | | | | |
| Arsenic | 0.942 | 0.0060 | mg/L | 1.0 | 0.0241 | 91.8 | 75-125 | 1.19 | 20 | |

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332967
Date Received: 01/08/19
Date Reported: 01/15/19

Special Notes

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

Viorel Vasile
Operations Manager



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

COC: 17361

Page 1 of 1

Client: APEX/The Source Group, Inc. Project Name / No.: DFSP - Norwalk / 091-NDLA Monthly NPDES Sampler's Name: Glenn Androska
 Project Manager: Neil Irish Site Address: 15306 Norwalk Blvd Sampler's Signature: *[Signature]*
 Phone: 562-597-1055 City: Norwalk P.O. No.:
 Fax: 569-597-1070 State & Zip: CA 90650 Quote No.:

TAT Turnaround Codes **

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

ANALYSIS REQUESTED (Test Name)

| Client I.D. | Date | Time | Sample Matrix | No. of Cont | TAT Turnaround Codes ** below | Special Instructions | Report J-Flags | Relinquished by | Date | Time | Received by | Date | Time |
|-------------|--------|-------|---------------|-------------|--|----------------------|----------------|-----------------|--------|-------|-------------|--------|-------|
| | | | | | | | | Relinquished by | Date | Time | Received by | Date | Time |
| A08011-01 | 1-8-19 | 11:57 | Water | 4 | TPHd 8015M, TPgMTBE/TBA 8200B, Arsenic 200.7 | | | Glenn Androska | 1-8-19 | 13:40 | [Signature] | 1-8-19 | 13:40 |
| | | | | | | | | | | | | | |
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RECEIVED
 1/13/19
 10:30 AM
 DATE SIGNATURE
 TAT

19 JAN 8 3:53 PM

A5332967/9A08011

Note: By relinquishing samples to American Analytcs, 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 Analytcs.



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

January 15, 2019

Neil Irish

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

**Re : DFSP Norwalk / 091-NDLA
A5332969 / 9A08013**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 01/08/19 15:34 and analyzed in accordance with the attached chain-of-custody.

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

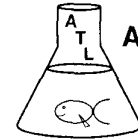
If you have any questions regarding this report or require additional information please call me at American Analytix.

Sincerely,

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

Viorel Vasile
Operations Manager

LABORATORY REPORT



**Aquatic
Testing
Laboratories**

"dedicated to providing quality aquatic toxicity testing"

4350 Transport Street, Unit 107
Ventura, CA 93003
(805) 650-0546 FAX (805) 650-0756
CA ELAP Cert. No.: 1775

Date: January 13, 2019
Client: American Analytics
9765 Eton Avenue
Chatsworth, CA 91311
Attn: Viorel Vasile

Laboratory No.: A-19010901-001
Project No.: A5332969
Sample ID.: 9A08013-01

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

Date Sampled: 01/08/19
Date Received: 01/09/19
Temp. Received: 3.0°C
Chlorine (TRC): 0.0 mg/l
Date Tested: 01/09/19 to 01/13/19

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

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

Result Summary:

| <u>Sample ID.</u> | <u>Results</u> |
|-------------------|---------------------------|
| 9A08013-01 | 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-19010901-001
 Client/ID: American Analytics 9A08013-01

Start Date: 01/09/2019

TEST SUMMARY

Species: *Pimephales promelas*.
 Age: 13 (1-14) days.
 Regulations: NPDES.
 Test solution volume: 250 ml.
 Feeding: prior to renewal at 48 hrs.
 Number of replicates: 4.
 Control water: Moderately hard reconstituted water.
 Photoperiod: 16/8 hrs light/dark.

Source: In-laboratory Culture.
 Test type: Static-Renewal.
 Test Protocol: EPA-821-R-02-012.
 Endpoints: Percent Survival at 96 hrs.
 Test chamber: 600 ml beakers.
 Temperature: 20 +/- 1°C.
 Number of fish per chamber: 10.
 QA/QC No.: RT-190108.

TEST DATA

| | | °C | DO | pH | # Dead | | | | Analyst & Time of Readings |
|---------|---------|------|-----|-----|--------|---|---|---|----------------------------|
| | | | | | A | B | C | D | |
| INITIAL | Control | 20.6 | 8.9 | 8.0 | 0 | 0 | 0 | 0 | 2 1330 |
| | 100% | 20.5 | 6.2 | 7.4 | 0 | 0 | 0 | 0 | 1-9-19 |
| 24 Hr | Control | 20.3 | 8.2 | 8.1 | 0 | 0 | 0 | 0 | 2 1300 |
| | 100% | 20.2 | 7.1 | 8.0 | 0 | 0 | 0 | 0 | 1-10-19 |
| 48 Hr | Control | 20.4 | 8.1 | 8.0 | 0 | 0 | 0 | 0 | 2 1300 |
| | 100% | 20.3 | 8.2 | 8.1 | 0 | 0 | 0 | 0 | 1-11-19 |
| Renewal | Control | 20.2 | 8.2 | 8.1 | 0 | 0 | 0 | 0 | 2 1300 |
| | 100% | 20.2 | 8.3 | 7.9 | 0 | 0 | 0 | 0 | 1-11-19 |
| 72 Hr | Control | 20.3 | 8.1 | 8.1 | 0 | 0 | 0 | 0 | 2 1300 |
| | 100% | 20.3 | 8.1 | 8.0 | 0 | 0 | 0 | 0 | 1-12-19 |
| 96 Hr | Control | 20.3 | 8.2 | 8.0 | 0 | 0 | 0 | 0 | 2 1330 |
| | 100% | 20.3 | 8.2 | 8.0 | 0 | 0 | 0 | 0 | 1-12-19 |

Comments:

Sample as received: Chlorine: 0 mg/l; Temp: 3.0 °C; DO: 6.2 mg/l; pH: 7.4 ;
 Alkalinity: 501 mg/l; Hardness: 733 mg/l; Conductivity: 2034 umho; NH₃-N: 1.5 mg/l.
 Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / .
 Control: Alkalinity: 58 mg/l; Hardness: 89 mg/l; Conductivity: 304 umho.
 Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / .
 Original sample used for renewal kept at 0-6°C with minimal headspace.
 Dissolved Oxygen (DO) readings in mg/l O₂.

RESULTS

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

Analytic Testing Lab



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

A.A. COC No.:
70054181
Page 1 of 1

Client: **AMERICAN ANALYTICS** Project Name / No.: **AS332969/9A08013** Sampler's Name:
 Project Manager: **Nicole Valle** Site Address: Sampler's Signature:
 Phone: P.O. No.: **URC 3697-AS332969**
 Fax: State & Zip: Quote No.:

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

| Client I.D. | A.A. I.D. | Date | Time | Sample Matrix | No. of Cont | ANALYSIS REQUESTED (Test Name) | | | | | | | | | | | | Special Instructions | | | | | | | | | |
|-------------|-----------|--------|------|---------------|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--------------------------------|--|--|--|--|--|--|--|------------------|--------------------|
| | | | | | | Please enter the TAT Turnaround Codes ** below | | | | | | | | | | | | | | | | | | | | | |
| 9A08013-01 | | 1/8/19 | WS2 | Water | 1 | X | | | | | | | | | | | | | | | | | | | | Agilent Survival | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | Federal Mitigation |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | EPA 821-R02-012 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | Normal TAT |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | Thank you |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Relinquished by <i>[Signature]</i> | | | | | | | | | | | | Received by <i>[Signature]</i> | | | | | | | | | |
| | | | | | | Relinquished by | | | | | | | | | | | | Time 12:25 | | | | | | | | | |
| | | | | | | Relinquished by | | | | | | | | | | | | Date 1/9/19 | | | | | | | | | |
| | | | | | | Relinquished by | | | | | | | | | | | | Date | | | | | | | | | |
| | | | | | | Relinquished by | | | | | | | | | | | | Date | | | | | | | | | |
| | | | | | | Relinquished by | | | | | | | | | | | | Date | | | | | | | | | |

A.A. Project No.:

For Laboratory Use

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.



***REFERENCE
TOXICANT
DATA***

FATHEAD MINNOW ACUTE Reference Toxicant - SDS



QA/QC Batch No.: RT-190108

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: 810

Photoperiod: 16/8 hrs light/dark.

TEST DATA

| Date/Time: | INITIAL | | | 24 Hr | | | | | 48 Hr | | | | |
|------------|--------------------|------------|------------|--------------------|------------|------------|-----------|-----------|---------------------|------------|------------|----------|----------|
| | <u>1-8-19 1100</u> | | | <u>1-9-19 1100</u> | | | | | <u>1-10-19 1100</u> | | | | |
| | <u>?</u> | | | <u>?</u> | | | | | <u>?</u> | | | | |
| | °C | DO | pH | °C | DO | pH | # Dead | | °C | DO | pH | # Dead | |
| A | | | | | | | B | A | | | | B | |
| Control | <u>20.5</u> | <u>8.6</u> | <u>8.1</u> | <u>20.4</u> | <u>8.4</u> | <u>7.8</u> | <u>0</u> | <u>0</u> | <u>20.3</u> | <u>8.1</u> | <u>7.8</u> | <u>0</u> | <u>0</u> |
| 1.0 mg/l | <u>20.5</u> | <u>8.5</u> | <u>8.1</u> | <u>20.5</u> | <u>8.1</u> | <u>7.8</u> | <u>0</u> | <u>0</u> | <u>20.1</u> | <u>8.1</u> | <u>7.9</u> | <u>0</u> | <u>0</u> |
| 2.0 mg/l | <u>20.5</u> | <u>8.6</u> | <u>8.1</u> | <u>20.5</u> | <u>7.9</u> | <u>7.7</u> | <u>0</u> | <u>0</u> | <u>20.2</u> | <u>8.0</u> | <u>7.8</u> | <u>0</u> | <u>0</u> |
| 4.0 mg/l | <u>20.4</u> | <u>8.5</u> | <u>8.1</u> | <u>20.4</u> | <u>7.8</u> | <u>7.8</u> | <u>0</u> | <u>0</u> | <u>20.3</u> | <u>8.1</u> | <u>7.9</u> | <u>0</u> | <u>0</u> |
| 8.0 mg/l | <u>20.5</u> | <u>8.5</u> | <u>8.1</u> | <u>20.4</u> | <u>8.0</u> | <u>7.8</u> | <u>10</u> | <u>10</u> | - | - | - | - | - |
| 16.0 mg/l | <u>20.5</u> | <u>8.6</u> | <u>8.1</u> | <u>20.5</u> | <u>7.8</u> | <u>7.8</u> | <u>10</u> | <u>10</u> | - | - | - | - | <u>1</u> |

| Date/Time: | RENEWAL | | | 72 Hr | | | | | 96 Hr | | | | |
|------------|---------------------|------------|------------|---------------------|------------|------------|----------|----------|---------------------|------------|------------|----------|----------|
| | <u>1-10-19 1100</u> | | | <u>1-11-19 1100</u> | | | | | <u>1-12-19 1100</u> | | | | |
| | <u>?</u> | | | <u>?</u> | | | | | <u>?</u> | | | | |
| | °C | DO | pH | °C | DO | pH | # Dead | | °C | DO | pH | # Dead | |
| A | | | | | | | B | A | | | | B | |
| Control | <u>20.3</u> | <u>8.2</u> | <u>7.9</u> | <u>20.4</u> | <u>7.4</u> | <u>7.7</u> | <u>0</u> | <u>0</u> | <u>20.3</u> | <u>7.0</u> | <u>7.8</u> | <u>0</u> | <u>0</u> |
| 1.0 mg/l | <u>20.2</u> | <u>8.3</u> | <u>8.0</u> | <u>20.5</u> | <u>7.3</u> | <u>7.8</u> | <u>0</u> | <u>0</u> | <u>20.2</u> | <u>7.1</u> | <u>7.9</u> | <u>0</u> | <u>0</u> |
| 2.0 mg/l | <u>20.4</u> | <u>8.4</u> | <u>8.0</u> | <u>20.4</u> | <u>7.7</u> | <u>7.7</u> | <u>0</u> | <u>0</u> | <u>20.2</u> | <u>7.1</u> | <u>7.9</u> | <u>0</u> | <u>0</u> |
| 4.0 mg/l | <u>20.3</u> | <u>8.5</u> | <u>8.0</u> | <u>20.4</u> | <u>7.8</u> | <u>7.8</u> | <u>0</u> | <u>0</u> | <u>20.2</u> | <u>7.2</u> | <u>7.8</u> | <u>1</u> | <u>0</u> |
| 8.0 mg/l | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16.0 mg/l | - | - | - | - | - | - | - | - | - | - | - | - | - |

Comments: Control: Alkalinity: 59 mg/l; Hardness: 89 mg/l; Conductivity: 309 umho.
 SDS: Alkalinity: 60 mg/l; Hardness: 88 mg/l; Conductivity: 305 umho.
 Dissolved Oxygen (DO) readings in mg/l O₂.

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

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

Acute Fish Test-96 Hr Survival

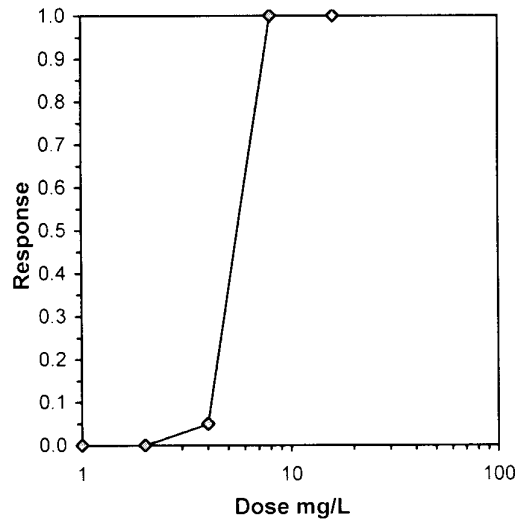
Start Date: 1/8/2019 11:00 Test ID: RT190108 Sample ID: REF-Ref Toxicant
 End Date: 1/12/2019 11:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: SDS-Sodium dodecyl sulfate
 Sample Date: 1/8/2019 Protocol: EPAAW02-EPA/821/R-02-01 Test Species: PP-Pimephales promelas
 Comments:

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

| Conc-mg/L | Mean | N-Mean | Transform: Arcsin Square Root | | | | | N | Number Resp | Total Number |
|-----------|--------|--------|-------------------------------|--------|--------|-------|---|----|-------------|--------------|
| | | | Mean | Min | Max | CV% | | | | |
| D-Control | 1.0000 | 1.0000 | 1.4120 | 1.4120 | 1.4120 | 0.000 | 2 | 0 | 20 | |
| 1 | 1.0000 | 1.0000 | 1.4120 | 1.4120 | 1.4120 | 0.000 | 2 | 0 | 20 | |
| 2 | 1.0000 | 1.0000 | 1.4120 | 1.4120 | 1.4120 | 0.000 | 2 | 0 | 20 | |
| 4 | 0.9500 | 0.9500 | 1.3305 | 1.2490 | 1.4120 | 8.661 | 2 | 1 | 20 | |
| 8 | 0.0000 | 0.0000 | 0.1588 | 0.1588 | 0.1588 | 0.000 | 2 | 20 | 20 | |
| 16 | 0.0000 | 0.0000 | 0.1588 | 0.1588 | 0.1588 | 0.000 | 2 | 20 | 20 | |

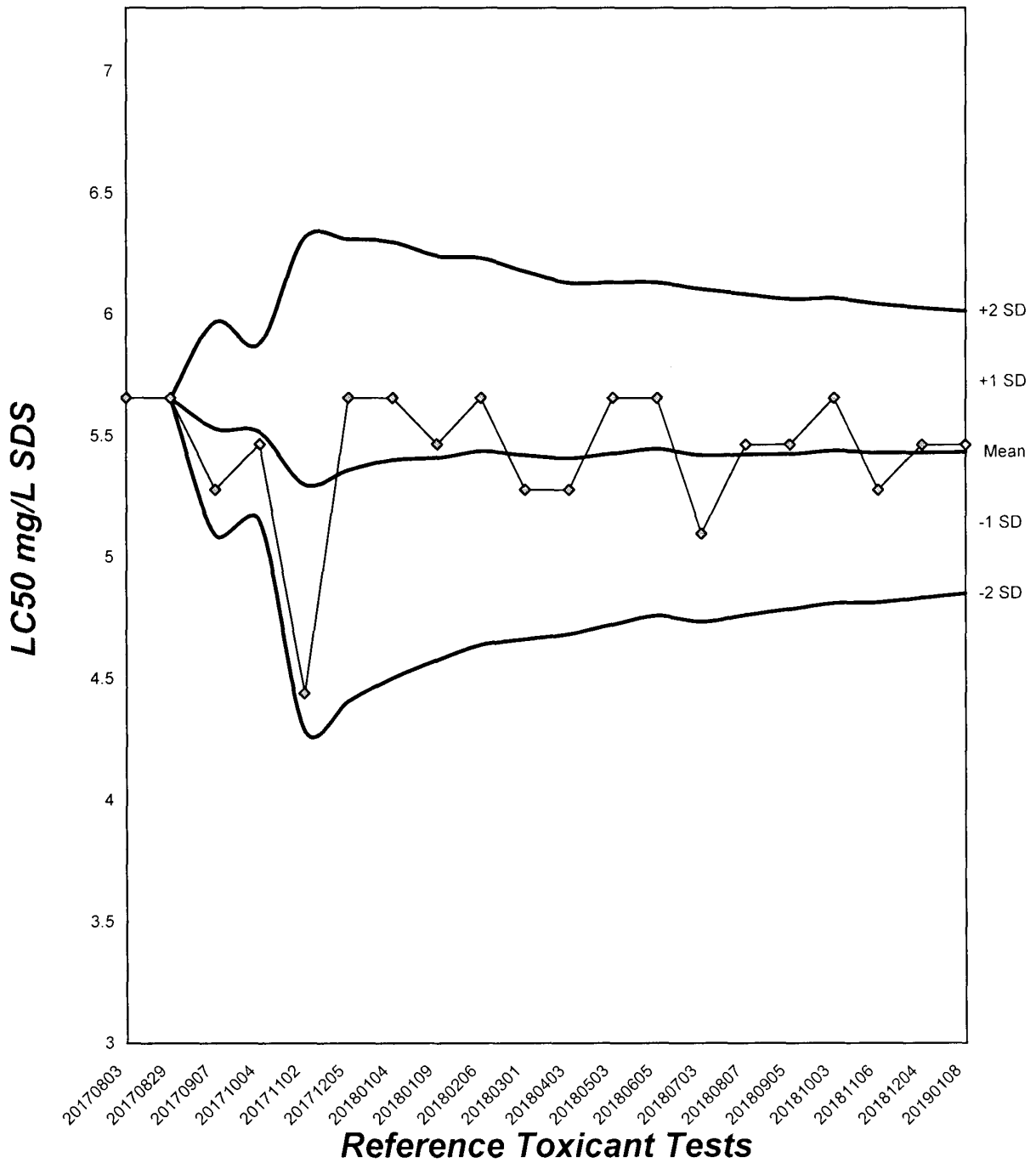
| Auxiliary Tests | Statistic | Critical | Skew | Kurt |
|---|-----------|----------|------|------|
| Normality of the data set cannot be confirmed | | | | |
| Equality of variance cannot be confirmed | | | | |

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



Fathead Minnow Acute Laboratory Control Chart

CV% = 5.35





TEST ORGANISM LOG
FATHEAD MINNOW - LARVAL
(*Pimephales promelas*)

QA/QC BATCH NO.: RT-190108

SOURCE: In-Lab Culture

DATE HATCHED: 12-25-18

APPROXIMATE QUANTITY: 2400

GENERAL APPEARANCE: good

MORTALITIES 48 HOURS PRIOR TO
TO USE IN TESTING: 0

DATE USED IN LAB: 1 / 8 / 19

AVERAGE FISH WEIGHT: 0.0056 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.: 20.5 °C

pH: 8.1 Ammonia: 0 mg/l NH₃-N

DO: 8.6 mg/l

Alkalinity: 55 mg/l

Hardness: 89 mg/l

READINGS RECORDED BY: [Signature]

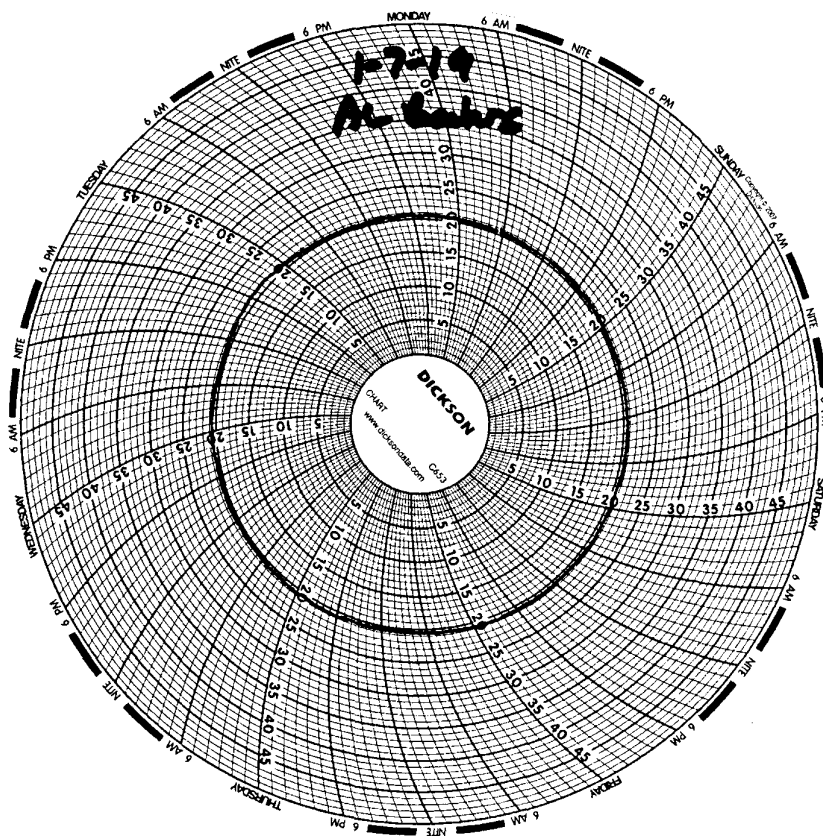
DATE: 1-2-19

Test Temperature Chart

Test No: *RT-190108*

Date Tested: *01/08/19 to 01/12/19*

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

COC: 17363

Page 1 of 1

Client: APEX/The Source Group, Inc. **Project Name / No.:** DFSP - Norwalk / 091-NDLA
Project Manager: Neil Irish **Site Address:** 15306 Norwalk Blvd
Phone: 562-597-1055 **City:** Norwalk
Fax: 569-597-1070 **State & Zip:** CA 90650

Sampler's Name: Glenn Andrasko

Sampler's Signature: *[Signature]*

P.O. No.:

Quote No.:

TAT Turnaround Codes **

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

ANALYSIS REQUESTED (Test Name)

| Client I.D. | Date | Time | Sample Matrix | No. of Cont | TPH/MTBE/TBA 820PB | Arsenic 200.7 | Fish Toxicity | Special Instructions |
|---|--------|------|---------------|-------------|--------------------|---------------|---------------|---------------------------------|
| 9A08013-01 | 1-8-19 | 1652 | Water | 1 | | ✓ | | Report J-Flags 1 gallon Poly |
| <p style="text-align: center;">Please enter the TAT Turnaround Codes ** below</p> | | | | | | | | |
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RECEIVED
 1/8/19
 DEPT. SIGN: [Signature]
 TAT NDLAS

| Relinquished by | Date | Time | Received by |
|--------------------|--------|-------|--------------------|
| <i>[Signature]</i> | 1-8-19 | 17:00 | <i>[Signature]</i> |
| <i>[Signature]</i> | 1/8/19 | 15:34 | <i>[Signature]</i> |
| | | | |

A53329169/9A08013

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
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February 20, 2019

Neil Irish

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

**Re : DFSP Norwalk GWETS NPDES Quarterly / 04-NDLA-013
A5332995 / 9B06023**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 02/06/19 17:02 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332995
Date Received: 02/06/19
Date Reported: 02/20/19

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

8260B TPHGASOLINEBTEXOXY

| | | | | | |
|--------------|------------|-------|---|----------------|----------------|
| Effluent | 9B06023-01 | Water | 5 | 02/06/19 10:50 | 02/06/19 17:02 |
| Effluent-Dup | 9B06023-02 | Water | 5 | 02/06/19 10:51 | 02/06/19 17:02 |

Arsenic Total EPA 200.7

| | | | | | |
|----------|------------|-------|---|----------------|----------------|
| Effluent | 9B06023-01 | Water | 5 | 02/06/19 10:50 | 02/06/19 17:02 |
|----------|------------|-------|---|----------------|----------------|

BOD SM5210B

| | | | | | |
|----------|------------|-------|---|----------------|----------------|
| Effluent | 9B06023-01 | Water | 5 | 02/06/19 10:50 | 02/06/19 17:02 |
|----------|------------|-------|---|----------------|----------------|

Copper Dissolved EPA 200.7

| | | | | | |
|----------|------------|-------|---|----------------|----------------|
| Effluent | 9B06023-01 | Water | 5 | 02/06/19 10:50 | 02/06/19 17:02 |
|----------|------------|-------|---|----------------|----------------|

Copper Total EPA 200.7

| | | | | | |
|----------|------------|-------|---|----------------|----------------|
| Effluent | 9B06023-01 | Water | 5 | 02/06/19 10:50 | 02/06/19 17:02 |
|----------|------------|-------|---|----------------|----------------|

HEM Oil and Grease 1664

| | | | | | |
|----------|------------|-------|---|----------------|----------------|
| Effluent | 9B06023-01 | Water | 5 | 02/06/19 10:50 | 02/06/19 17:02 |
|----------|------------|-------|---|----------------|----------------|

MBAS SM5540C

| | | | | | |
|----------|------------|-------|---|----------------|----------------|
| Effluent | 9B06023-01 | Water | 5 | 02/06/19 10:50 | 02/06/19 17:02 |
|----------|------------|-------|---|----------------|----------------|

Phenols 420.1

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**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332995
Date Received: 02/06/19
Date Reported: 02/20/19

| Sample ID | Laboratory ID | Matrix | TAT | Date Sampled | Date Received |
|----------------------------------|---------------|--------|-----|----------------|----------------|
| Effluent | 9B06023-01 | Water | 5 | 02/06/19 10:50 | 02/06/19 17:02 |
| <u>SS SM2540F</u> | | | | | |
| Effluent | 9B06023-01 | Water | 5 | 02/06/19 10:50 | 02/06/19 17:02 |
| <u>Sulfide SM4500-S=D</u> | | | | | |
| Effluent | 9B06023-01 | Water | 5 | 02/06/19 10:50 | 02/06/19 17:02 |
| <u>TDS SM2540C</u> | | | | | |
| Effluent | 9B06023-01 | Water | 5 | 02/06/19 10:50 | 02/06/19 17:02 |
| <u>TSS SM2540D</u> | | | | | |
| Effluent | 9B06023-01 | Water | 5 | 02/06/19 10:50 | 02/06/19 17:02 |
| <u>Turbidity 180.1</u> | | | | | |
| Effluent | 9B06023-01 | Water | 5 | 02/06/19 10:50 | 02/06/19 17:02 |

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LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332995
Date Received: 02/06/19
Date Reported: 02/20/19

| AA I.D. No. | Client I.D. No. | Sampled | Prepared | Analyzed | Dilution | Result | Units | MDL | MRL |
|--|-----------------|----------|----------|----------|----------|-------------|-------|-------|------|
| <u>BOD SM5210B (SM5210B) *</u> | | | | | | | | | |
| 9B06023-01 | Effluent | 02/06/19 | 02/08/19 | 02/13/19 | 1 | <5.0 | mg/L | 5 | 5 |
| <u>HEM Oil and Grease 1664 (EPA 1664)</u> | | | | | | | | | |
| 9B06023-01 | Effluent | 02/06/19 | 02/13/19 | 02/13/19 | 1 | <5.0 | mg/L | 5 | 10 |
| <u>MBAS SM5540C (SM5540C) *</u> | | | | | | | | | |
| 9B06023-01 | Effluent | 02/06/19 | 02/07/19 | 02/07/19 | 1 | <0.050 | mg/L | 0.05 | 0.05 |
| <u>Phenols 420.1 (EPA 420.1) *</u> | | | | | | | | | |
| 9B06023-01 | Effluent | 02/06/19 | 02/07/19 | 02/07/19 | 1 | <0.15 | mg/L | 0.15 | 0.3 |
| <u>SS SM2540F (SM2540F)</u> | | | | | | | | | |
| 9B06023-01 | Effluent | 02/06/19 | 02/07/19 | 02/07/19 | 1 | <0.100 | mL/L | 0.1 | 0.1 |
| <u>Sulfide SM4500-S=D (SM4500-S=D)</u> | | | | | | | | | |
| 9B06023-01 | Effluent | 02/06/19 | 02/11/19 | 02/11/19 | 1 | <0.027 | mg/L | 0.027 | 0.05 |
| <u>TDS SM2540C (SM2540C)</u> | | | | | | | | | |
| 9B06023-01 | Effluent | 02/06/19 | 02/11/19 | 02/12/19 | 1 | 1000 | mg/L | 6.2 | 10 |
| <u>TSS SM2540D (SM2540D)</u> | | | | | | | | | |
| 9B06023-01 | Effluent | 02/06/19 | 02/11/19 | 02/11/19 | 1 | 6.2J | mg/L | 5 | 10 |
| <u>Turbidity 180.1 (EPA 180.1)</u> | | | | | | | | | |
| 9B06023-01 | Effluent | 02/06/19 | 02/07/19 | 02/07/19 | 1 | 1.3 | NTU | 0.168 | 1 |

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 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332995
Date Received: 02/06/19
Date Reported: 02/20/19
Units: ug/L

| | | | | |
|-------------------------|------------|--------------|-----|-----|
| Date Sampled: | 02/06/19 | 02/06/19 | | |
| Date Prepared: | 02/14/19 | 02/14/19 | | |
| Date Analyzed: | 02/14/19 | 02/14/19 | | |
| AA ID No: | 9B06023-01 | 9B06023-02 | | |
| Client ID No: | Effluent | Effluent-Dup | | |
| Matrix: | Water | Water | | |
| Dilution Factor: | 1 | 1 | MDL | MRL |

8260B TPHGASOLINEBTEXOXY (EPA 8260B)

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

| <u>Surrogates</u> | | | <u>%REC Limits</u> | |
|----------------------|------|------|--------------------|--|
| 4-Bromofluorobenzene | 108% | 107% | 70-140 | |
| Dibromofluoromethane | 125% | 115% | 70-140 | |
| Toluene-d8 | 103% | 101% | 70-140 | |

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LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk GWETS NPDES Quarterly

Method: Dissolved Metals by ICP Atomic Emission Spectroscopy

AA Project No: A5332995

Date Received: 02/06/19

Date Reported: 02/20/19

| AA I.D. No. | Client I.D. No. | Sampled | Prepared | Analyzed | Dilution | Result | Units | MDL | MRL |
|--|------------------------|----------------|-----------------|-----------------|-----------------|---------------|--------------|------------|------------|
| <u>Copper Dissolved EPA 200.7 (EPA 200.7)</u> | | | | | | | | | |
| 9B06023-01 | Effluent | 02/06/19 | 02/11/19 | 02/12/19 | 1 | <0.014 | mg/L | 0.014 | 0.014 |

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LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332995
Date Received: 02/06/19
Date Reported: 02/20/19

| AA I.D. No. | Client I.D. No. | Sampled | Prepared | Analyzed | Dilution | Result | Units | MDL | MRL |
|---|-----------------|----------|----------|----------|----------|---------|-------|-------|-------|
| <u>Arsenic Total EPA 200.7 (EPA 200.7)</u> | | | | | | | | | |
| 9B06023-01 | Effluent | 02/06/19 | 02/11/19 | 02/12/19 | 1 | <0.0060 | mg/L | 0.006 | 0.007 |
| <u>Copper Total EPA 200.7 (EPA 200.7)</u> | | | | | | | | | |
| 9B06023-01 | Effluent | 02/06/19 | 02/11/19 | 02/12/19 | 1 | <0.014 | mg/L | 0.014 | 0.014 |

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LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332995
Date Received: 02/06/19
Date Reported: 02/20/19

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|-----------------|-------|--|---------------|------|-------------|------|-----------|-------|
| General Chemistry Analyses - Quality Control | | | | | | | | | | |
| <i>Batch B9B0716 - NO PREP</i> | | | | | | | | | | |
| Blank (B9B0716-BLK1) | | | | Prepared & Analyzed: 02/07/19 | | | | | | |
| Total Settleable Solids | <0.100 | 0.100 | mL/L | | | | | | | |
| <i>Batch B9B0717 - NO PREP</i> | | | | | | | | | | |
| Blank (B9B0717-BLK1) | | | | Prepared & Analyzed: 02/07/19 | | | | | | |
| Turbidity | <0.17 | 0.17 | NTU | | | | | | | |
| Duplicate (B9B0717-DUP1) | | | | Source: 9B06023-01 Prepared & Analyzed: 02/07/19 | | | | | | |
| Turbidity | 1.20 | 0.17 | NTU | | 1.29 | | | 7.23 | 15 | |
| <i>Batch B9B0805 - NO PREP</i> | | | | | | | | | | |
| Blank (B9B0805-BLK1) | | | | Prepared & Analyzed: 02/13/19 | | | | | | |
| HEM (Oil and Grease) | <5.0 | 5.0 | mg/L | | | | | | | |
| LCS (B9B0805-BS1) | | | | Prepared & Analyzed: 02/13/19 | | | | | | |
| HEM (Oil and Grease) | 39.1 | 5.0 | mg/L | 40 | | 97.8 | 75-125 | | | |
| LCS Dup (B9B0805-BSD1) | | | | Prepared & Analyzed: 02/13/19 | | | | | | |
| HEM (Oil and Grease) | 36.4 | 5.0 | mg/L | 40 | | 91.0 | 75-125 | 7.15 | 30 | |
| <i>Batch B9B1327 - NO PREP</i> | | | | | | | | | | |
| Blank (B9B1327-BLK1) | | | | Prepared: 02/11/19 Analyzed: 02/12/19 | | | | | | |
| Total Dissolved Solids | <6.2 | 6.2 | mg/L | | | | | | | |
| LCS (B9B1327-BS1) | | | | Prepared: 02/11/19 Analyzed: 02/12/19 | | | | | | |
| Total Dissolved Solids | 450 | 6.2 | mg/L | 500 | | 90.0 | 80-120 | | | |
| LCS Dup (B9B1327-BSD1) | | | | Prepared: 02/11/19 Analyzed: 02/12/19 | | | | | | |
| Total Dissolved Solids | 560 | 6.2 | mg/L | 500 | | 112 | 80-120 | 21.8 | 25 | |
| Duplicate (B9B1327-DUP1) | | | | Source: 9B06023-01 Prepared: 02/11/19 Analyzed: 02/12/19 | | | | | | |
| Total Dissolved Solids | 1020 | 31 | mg/L | | 1000 | | | 1.97 | 20 | |
| <i>Batch B9B1328 - NO PREP</i> | | | | | | | | | | |
| Blank (B9B1328-BLK1) | | | | Prepared & Analyzed: 02/11/19 | | | | | | |
| Total Suspended Solids | <5.0 | 5.0 | mg/L | | | | | | | |
| LCS (B9B1328-BS1) | | | | Prepared & Analyzed: 02/11/19 | | | | | | |
| Total Suspended Solids | 55.0 | 5.0 | mg/L | | | | 80-120 | | | |
| LCS Dup (B9B1328-BSD1) | | | | Prepared & Analyzed: 02/11/19 | | | | | | |
| Total Suspended Solids | 53.0 | 5.0 | mg/L | | | | 80-120 | 3.70 | 20 | |

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 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332995
Date Received: 02/06/19
Date Reported: 02/20/19

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---------------|------|-------------|------|-----------|-------|
| General Chemistry Analyses - Quality Control | | | | | | | | | | |
| <i>Batch B9B1328 - NO PREP</i> | | | | | | | | | | |
| Duplicate (B9B1328-DUP1) Source: 9B06023-01 Prepared & Analyzed: 02/11/19 | | | | | | | | | | |
| Total Suspended Solids | 6.33 | 5.0 | mg/L | | 6.20 | | | 2.08 | 20 | J |
| <i>Batch B9B1329 - NO PREP</i> | | | | | | | | | | |
| Blank (B9B1329-BLK1) Prepared & Analyzed: 02/11/19 | | | | | | | | | | |
| Sulfide | <0.027 | 0.027 | mg/L | | | | | | | |
| LCS (B9B1329-BS1) Prepared & Analyzed: 02/11/19 | | | | | | | | | | |
| Sulfide | 0.546 | 0.027 | mg/L | 0.50 | | 109 | 80-120 | | 25 | |
| LCS Dup (B9B1329-BSD1) Prepared & Analyzed: 02/11/19 | | | | | | | | | | |
| Sulfide | 0.521 | 0.027 | mg/L | 0.50 | | 104 | 80-120 | 4.69 | 25 | |
| Matrix Spike (B9B1329-MS1) Source: 9B06023-01 Prepared & Analyzed: 02/11/19 | | | | | | | | | | |
| Sulfide | 0.523 | 0.027 | mg/L | 0.50 | <0.050 | 105 | 75-125 | | 25 | |
| Matrix Spike Dup (B9B1329-MSD1) Source: 9B06023-01 Prepared & Analyzed: 02/11/19 | | | | | | | | | | |
| Sulfide | 0.516 | 0.027 | mg/L | 0.50 | <0.050 | 103 | 75-125 | 1.35 | 25 | |
| <i>Batch B9B2019 - *** DEFAULT PREP ***</i> | | | | | | | | | | |
| Blank (B9B2019-BLK1) Prepared: 02/08/19 Analyzed: 02/13/19 * | | | | | | | | | | |
| Biochemical Oxygen Demand | <5.0 | 5.0 | mg/L | | | | | | | |
| LCS (B9B2019-BS1) Prepared: 02/08/19 Analyzed: 02/13/19 * | | | | | | | | | | |
| Biochemical Oxygen Demand | 164 | 5.0 | mg/L | 200 | | 82.8 | 80-120 | | 15 | |
| LCS Dup (B9B2019-BSD1) Prepared: 02/08/19 Analyzed: 02/13/19 * | | | | | | | | | | |
| Biochemical Oxygen Demand | 210 | 5.0 | mg/L | 200 | | 106 | 80-120 | 24.6 | 15 | |
| Duplicate (B9B2019-DUP1) Source: 9B06023-01 Prepared: 02/08/19 Analyzed: 02/13/19 * | | | | | | | | | | |
| Biochemical Oxygen Demand | <5.0 | 5.0 | mg/L | | <5.0 | | | | 15 | |
| <i>Batch B9B2020 - NO PREP</i> | | | | | | | | | | |
| Blank (B9B2020-BLK1) Prepared & Analyzed: 02/07/19 * | | | | | | | | | | |
| Methylene Blue Active Substances | <0.050 | 0.050 | mg/L | | | | | | | |
| LCS (B9B2020-BS1) Prepared & Analyzed: 02/07/19 * | | | | | | | | | | |
| Methylene Blue Active Substances | 0.426 | 0.050 | mg/L | 0.50 | | 85.2 | 75-125 | | 15 | |
| LCS Dup (B9B2020-BSD1) Prepared & Analyzed: 02/07/19 * | | | | | | | | | | |
| Methylene Blue Active Substances | 0.435 | 0.050 | mg/L | 0.50 | | 87.0 | 75-125 | 2.09 | 15 | |
| Matrix Spike (B9B2020-MS1) Source: 9B06023-01 Prepared & Analyzed: 02/07/19 * | | | | | | | | | | |

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332995
Date Received: 02/06/19
Date Reported: 02/20/19

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---------------|------|-------------|------|-----------|-------|
| General Chemistry Analyses - Quality Control | | | | | | | | | | |
| <i>Batch B9B2020 - NO PREP</i> | | | | | | | | | | |
| Matrix Spike (B9B2020-MS1) Continued Source: 9B06023-01 Prepared & Analyzed: 02/07/19 * | | | | | | | | | | |
| Methylene Blue Active Substances | 0.430 | 0.050 | mg/L | 0.50 | <0.050 | 86.0 | 75-125 | | 15 | |
| Matrix Spike Dup (B9B2020-MSD1) Source: 9B06023-01 Prepared & Analyzed: 02/07/19 * | | | | | | | | | | |
| Methylene Blue Active Substances | 0.438 | 0.050 | mg/L | 0.50 | <0.050 | 87.6 | 75-125 | 1.84 | 15 | |
| <i>Batch B9B2021 - NO PREP</i> | | | | | | | | | | |
| Blank (B9B2021-BLK1) Prepared & Analyzed: 02/07/19 * | | | | | | | | | | |
| Phenolics | <0.15 | 0.15 | mg/L | | | | | | | |
| LCS (B9B2021-BS1) Prepared & Analyzed: 02/07/19 * | | | | | | | | | | |
| Phenolics | 0.466 | 0.15 | mg/L | 0.50 | | 93.2 | 80-120 | | 15 | |
| LCS Dup (B9B2021-BSD1) Prepared & Analyzed: 02/07/19 * | | | | | | | | | | |
| Phenolics | 0.445 | 0.15 | mg/L | 0.50 | | 89.0 | 80-120 | 4.61 | 15 | |
| TPHG/BTEX/Oxygenates by GC/MS - Quality Control | | | | | | | | | | |
| <i>Batch B9B1403 - EPA 5030B</i> | | | | | | | | | | |
| Blank (B9B1403-BLK1) Prepared & Analyzed: 02/14/19 | | | | | | | | | | |
| tert-Amyl Methyl Ether (TAME) | <0.30 | 0.30 | ug/L | | | | | | | |
| Benzene | <0.20 | 0.20 | ug/L | | | | | | | |
| tert-Butyl alcohol (TBA) | <7.0 | 7.0 | ug/L | | | | | | | |
| Diisopropyl ether (DIPE) | <0.50 | 0.50 | ug/L | | | | | | | |
| Ethylbenzene | <0.20 | 0.20 | ug/L | | | | | | | |
| Ethyl-tert-Butyl Ether (ETBE) | <0.40 | 0.40 | ug/L | | | | | | | |
| Gasoline Range Organics (GRO) | <40 | 40 | ug/L | | | | | | | |
| Methyl-tert-Butyl Ether (MTBE) | <0.40 | 0.40 | ug/L | | | | | | | |
| Toluene | <0.30 | 0.30 | ug/L | | | | | | | |
| o-Xylene | <0.30 | 0.30 | ug/L | | | | | | | |
| m,p-Xylenes | <0.40 | 0.40 | ug/L | | | | | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 50.4 | | ug/L | 50 | | 101 | 70-140 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 52.6 | | ug/L | 50 | | 105 | 70-140 | | | |
| <i>Surrogate: Toluene-d8</i> | 50.8 | | ug/L | 50 | | 102 | 70-140 | | | |
| LCS (B9B1403-BS1) Prepared & Analyzed: 02/14/19 | | | | | | | | | | |
| tert-Amyl Methyl Ether (TAME) | 21.8 | 0.30 | ug/L | 20 | | 109 | 70-130 | | | |
| Benzene | 22.8 | 0.20 | ug/L | 20 | | 114 | 75-125 | | | |

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332995
Date Received: 02/06/19
Date Reported: 02/20/19

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|-------------|-----------------|-------------|-------------|--|-------------|---------------|-------|-----------|-------|
| TPHG/BTEX/Oxygenates by GC/MS - Quality Control | | | | | | | | | | |
| <i>Batch B9B1403 - EPA 5030B</i> | | | | | | | | | | |
| LCS (B9B1403-BS1) Continued | | | | | Prepared & Analyzed: 02/14/19 | | | | | |
| tert-Butyl alcohol (TBA) | 96.0 | 7.0 | ug/L | 100 | | 96.0 | 70-130 | | | |
| Diisopropyl ether (DIPE) | 23.5 | 0.50 | ug/L | 20 | | 118 | 70-130 | | | |
| Ethylbenzene | 23.2 | 0.20 | ug/L | 20 | | 116 | 75-125 | | | |
| Ethyl-tert-Butyl Ether (ETBE) | 22.9 | 0.40 | ug/L | 20 | | 115 | 70-130 | | | |
| Gasoline Range Organics (GRO) | 455 | 40 | ug/L | 500 | | 91.0 | 70-130 | | | |
| Methyl-tert-Butyl Ether (MTBE) | 43.9 | 0.40 | ug/L | 40 | | 110 | 70-135 | | | |
| Toluene | 22.1 | 0.30 | ug/L | 20 | | 111 | 75-125 | | | |
| o-Xylene | 22.4 | 0.30 | ug/L | 20 | | 112 | 75-125 | | | |
| m,p-Xylenes | 45.3 | 0.40 | ug/L | 40 | | 113 | 70-130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>51.5</i> | | <i>ug/L</i> | <i>50</i> | | <i>103</i> | <i>70-140</i> | | | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>50.0</i> | | <i>ug/L</i> | <i>50</i> | | <i>99.9</i> | <i>70-140</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>50.2</i> | | <i>ug/L</i> | <i>50</i> | | <i>100</i> | <i>70-140</i> | | | |
| Matrix Spike (B9B1403-MS1) | | | | | Source: 9B06023-01 Prepared & Analyzed: 02/14/19 | | | | | |
| tert-Amyl Methyl Ether (TAME) | 23.9 | 0.30 | ug/L | 20 | <2.0 | 120 | 70-130 | | | |
| Benzene | 21.8 | 0.20 | ug/L | 20 | <0.50 | 109 | 70-130 | | | |
| tert-Butyl alcohol (TBA) | 137 | 7.0 | ug/L | 100 | <10 | 137 | 70-130 | | | ** |
| Diisopropyl ether (DIPE) | 24.9 | 0.50 | ug/L | 20 | <2.0 | 124 | 70-130 | | | |
| Ethylbenzene | 21.9 | 0.20 | ug/L | 20 | <0.50 | 110 | 70-130 | | | |
| Ethyl-tert-Butyl Ether (ETBE) | 25.5 | 0.40 | ug/L | 20 | <2.0 | 127 | 70-130 | | | |
| Methyl-tert-Butyl Ether (MTBE) | 48.7 | 0.40 | ug/L | 40 | <2.0 | 122 | 70-130 | | | |
| Toluene | 20.8 | 0.30 | ug/L | 20 | <0.50 | 104 | 70-130 | | | |
| o-Xylene | 21.4 | 0.30 | ug/L | 20 | <0.50 | 107 | 70-130 | | | |
| m,p-Xylenes | 43.0 | 0.40 | ug/L | 40 | <1.0 | 107 | 70-130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>51.8</i> | | <i>ug/L</i> | <i>50</i> | | <i>104</i> | <i>70-140</i> | | | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>52.8</i> | | <i>ug/L</i> | <i>50</i> | | <i>106</i> | <i>70-140</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>50.1</i> | | <i>ug/L</i> | <i>50</i> | | <i>100</i> | <i>70-140</i> | | | |
| Matrix Spike Dup (B9B1403-MSD1) | | | | | Source: 9B06023-01 Prepared & Analyzed: 02/14/19 | | | | | |
| tert-Amyl Methyl Ether (TAME) | 23.3 | 0.30 | ug/L | 20 | <2.0 | 117 | 70-130 | 2.54 | 30 | |
| Benzene | 22.1 | 0.20 | ug/L | 20 | <0.50 | 110 | 70-130 | 1.28 | 30 | |
| tert-Butyl alcohol (TBA) | 138 | 7.0 | ug/L | 100 | <10 | 138 | 70-130 | 0.727 | 30 | ** |
| Diisopropyl ether (DIPE) | 23.5 | 0.50 | ug/L | 20 | <2.0 | 117 | 70-130 | 5.79 | 30 | |

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332995
Date Received: 02/06/19
Date Reported: 02/20/19

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

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

Batch B9B1403 - EPA 5030B

Matrix Spike Dup (B9B1403-MSD1) Source: 9B06023-01 Prepared & Analyzed: 02/14/19**Continued**

| | | | | | | | | | | |
|---------------------------------|------|------|------|----|-------|-----|--------|------|----|--|
| Ethylbenzene | 22.8 | 0.20 | ug/L | 20 | <0.50 | 114 | 70-130 | 4.07 | 30 | |
| Ethyl-tert-Butyl Ether (ETBE) | 24.3 | 0.40 | ug/L | 20 | <2.0 | 122 | 70-130 | 4.62 | 30 | |
| Methyl-tert-Butyl Ether (MTBE) | 47.5 | 0.40 | ug/L | 40 | <2.0 | 119 | 70-130 | 2.39 | 30 | |
| Toluene | 21.5 | 0.30 | ug/L | 20 | <0.50 | 108 | 70-130 | 3.26 | 30 | |
| o-Xylene | 22.0 | 0.30 | ug/L | 20 | <0.50 | 110 | 70-130 | 2.81 | 30 | |
| m,p-Xylenes | 44.6 | 0.40 | ug/L | 40 | <1.0 | 111 | 70-130 | 3.61 | 30 | |
| Surrogate: 4-Bromofluorobenzene | 50.8 | | ug/L | 50 | | 102 | 70-140 | | | |
| Surrogate: Dibromofluoromethane | 51.6 | | ug/L | 50 | | 103 | 70-140 | | | |
| Surrogate: Toluene-d8 | 50.1 | | ug/L | 50 | | 100 | 70-140 | | | |

Dissolved Metals by ICP Atomic Emission Spectroscopy - Quality Control

Batch B9B1145 - EPA 200.7

Blank (B9B1145-BLK1)

Prepared: 02/11/19 Analyzed: 02/12/19

Copper <0.014 0.014 mg/L

LCS (B9B1145-BS1)

Prepared: 02/11/19 Analyzed: 02/12/19

Copper 1.14 0.014 mg/L 1.0 114 80-120 20

LCS Dup (B9B1145-BSD1)

Prepared: 02/11/19 Analyzed: 02/12/19

Copper 1.15 0.014 mg/L 1.0 115 80-120 1.57 20

Duplicate (B9B1145-DUP1)

Source: 9B06023-01 Prepared: 02/11/19 Analyzed: 02/12/19

Copper <0.014 0.014 mg/L <0.014 30

Total Metals by ICP Atomic Emission Spectroscopy - Quality Control

Batch B9B1143 - EPA 200.7

Blank (B9B1143-BLK1)

Prepared: 02/11/19 Analyzed: 02/12/19

Copper <0.014 0.014 mg/L

Arsenic <0.0060 0.0060 mg/L

LCS (B9B1143-BS1)

Prepared: 02/11/19 Analyzed: 02/12/19

Copper 1.14 0.014 mg/L 1.0 114 80-120 20

Arsenic 1.16 0.0060 mg/L 1.0 116 80-120 20

LCS Dup (B9B1143-BSD1)

Prepared: 02/11/19 Analyzed: 02/12/19

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332995
Date Received: 02/06/19
Date Reported: 02/20/19

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Total Metals by ICP Atomic Emission Spectroscopy - Quality Control

Batch B9B1143 - EPA 200.7

LCS Dup (B9B1143-BSD1) Continued

Prepared: 02/11/19 Analyzed: 02/12/19

| | | | | | | | | | |
|---------|------|--------|------|-----|-----|--------|------|----|--|
| Arsenic | 1.19 | 0.0060 | mg/L | 1.0 | 119 | 80-120 | 1.95 | 20 | |
| Copper | 1.15 | 0.014 | mg/L | 1.0 | 115 | 80-120 | 1.57 | 20 | |

Duplicate (B9B1143-DUP1)

Source: 9B06023-01 Prepared: 02/11/19 Analyzed: 02/12/19

| | | | | | | | | | |
|---------|---------|--------|------|---------|--|--|--|----|--|
| Copper | <0.014 | 0.014 | mg/L | <0.014 | | | | 30 | |
| Arsenic | <0.0060 | 0.0060 | mg/L | <0.0070 | | | | 30 | |

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332995
Date Received: 02/06/19
Date Reported: 02/20/19

Special Notes

- [1] = * : Subcontracted to a DOHS State-Certified Laboratory
- [2] = ** : Exceeds upper control limit.
- J : Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

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

Viorel Vasile
Operations Manager



American Environmental Testing Laboratory Inc.

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Ordered By

American Analytics
9765 Eton Avenue
Chatsworth, CA 91311-4306

Number of Pages 7
Date Received 02/07/2019
Date Reported 02/18/2019

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

| Job Number | Order Date | Client |
|------------|------------|--------|
| 96191 | 02/07/2019 | AA |

Project ID: A5332995/9B06023
Project Name: PO# SUB03712-A5332995

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

Checked By: _____

Approved By: _____

Cyrus Razmara, Ph.D.
Laboratory Director

AETL



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

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

A.A. COC No.:

70055682

Page 1 of 1

Client: **AMERICAN ANALYTICS** Project Name / No.: **AS332995/9B06023** Sampler's Name:

Project Manager: **Vivorel Yorkle** Site Address: P.O. No.: **SUB03712-AS33195**

Phone: City: Quote No.:

Fax: State & Zip:

TAT Turnaround Codes **

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

ANALYSIS REQUESTED (Test Name)

| Client I.D. | A.A. I.D. | Date | Time | Sample Matrix | No. of Cont | Please enter the TAT Turnaround Codes ** below | | | | | | Special Instructions | |
|-------------|-----------|--------|------|---------------|-------------|--|---|---|--|--|--|----------------------|--------------------------------------|
| | | | | | | | | | | | | | |
| 9B06023-01 | 96191.01 | 2/6/19 | 1050 | Water | 2 | X | X | X | | | | | by SM 5210B SM 5540C EPA 420.1 |
| | | | | | | | | | | | | | Normal TAT |
| | | | | | | | | | | | | | Thank you |

For Laboratory Use

| | | | |
|---------------------------------------|----------------|---------------|-----------------------------------|
| Relinquished by <i>[Signature]</i> | Date 2/7/19 | Time 10:00 | Received by <i>[Signature]</i> |
| Relinquished by | Date | Time | Received by |
| Relinquished by | Date | Time | Received by |

A.A. Project No.:

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



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COOLER RECEIPT FORM

| | | | |
|---|------------|---------------------------|-------------------------------|
| Client Name: <u>American Analy.</u> | | | |
| Project Name: | | | |
| AETL Job Number: <u>96191</u> | | | |
| Date Received: <u>04/07/19</u> | | Received by: <u>Antin</u> | |
| Carrier: <input type="checkbox"/> AETL Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS | | | |
| <input type="checkbox"/> Others: | | | |
| Samples were received in: <input checked="" type="checkbox"/> Cooler (<u>1</u>) <input type="checkbox"/> Other (Specify): | | | |
| Inside temperature of shipping container No 1: <u>3-3°</u> , No 2: _____, No 3: _____ | | | |
| Type of sample containers: <input type="checkbox"/> VOA, <input checked="" type="checkbox"/> Glass bottles, <input type="checkbox"/> Wide mouth jars, <input checked="" type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify): | | | |
| How are samples preserved: <input type="checkbox"/> None, <input type="checkbox"/> Ice, <input checked="" type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice | | | |
| None, <u>HNO₃</u> , <u>NaOH</u> , <u>ZnOAc</u> , <u>HCl</u> , <u>Na₂S₂O₃</u> , <u>MeOH</u> | | | |
| <input checked="" type="checkbox"/> Other (Specify): <u>H₂SO₄</u> | | | |
| | Yes | No, explain below | Name, if client was notified. |
| 1. Are the COCs Correct? | <u>X</u> | | |
| 2. Are the Sample labels legible? | <u>X</u> | | |
| 3. Do samples match the COC? | <u>X</u> | | |
| 4. Are the required analyses clear? | <u>X</u> | | |
| 5. Is there enough samples for required analysis? | <u>X</u> | | |
| 6. Are samples sealed with evidence tape? | | <u>0</u> | |
| 7. Are sample containers in good condition? | <u>0</u> | | |
| 8. Are samples preserved? | <u>X</u> | | |
| 9. Are samples preserved properly for the intended analysis? | <u>X</u> | | |
| 10. Are the VOAs free of headspace? | <u>N/A</u> | | |
| 11. Are the jars free of headspace? | <u>0</u> | | |

Explain all "No" answers for above questions:



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Page: 1 A

Ordered By

American Analytics
9765 Eton Avenue
Chatsworth, CA 91311-4306

Project ID: A5332995/9B06023
Date Received 02/07/2019
Date Reported 02/18/2019

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

| Job Number | Order Date | Client |
|------------|------------|--------|
| 96191 | 02/07/2019 | AA |

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 1 samples with the following specification on 02/07/2019.

| Lab ID | Sample ID | Sample Date | Matrix | Quantity Of Containers | |
|----------|------------|-------------|----------|------------------------|-------|
| 96191.01 | 9B06023-01 | 02/06/2019 | Aqueous | 2 | |
| Method ^ | Submethod | Req Date | Priority | TAT | Units |
| 420.1 | | 02/14/2019 | 2 | Normal | mg/L |
| SM-5540C | | 02/14/2019 | 2 | Normal | mg/L |
| SM5210B | | 02/14/2019 | 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: A5332995/9B06023

Project Name: PO# SUB03712-A5332995

| AETL Job Number | Submitted | Client |
|-----------------|------------|--------|
| 96191 | 02/07/2019 | AA |

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

QC Batch No: PH020719-1

| Our Lab I.D. | | Method Blank | 96191.01 | | | |
|------------------------------|------|--------------|------------|---------|--|--|
| Client Sample I.D. | | | 9B06023-01 | | | |
| Date Sampled | | | 02/06/2019 | | | |
| Date Prepared | | 02/07/2019 | 02/07/2019 | | | |
| Preparation Method | | 420.1 | 420.1 | | | |
| Date Analyzed | | 02/07/2019 | 02/07/2019 | | | |
| Matrix | | Aqueous | Aqueous | | | |
| Units | | mg/L | mg/L | | | |
| Dilution Factor | | 1 | 1 | | | |
| Analytes | MDL | PQL | Results | Results | | |
| Phenolic compounds as phenol | 0.15 | 0.30 | ND | ND | | |



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ANALYTICAL RESULTS

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Telephone: (818)998-5547

Attn: Viorel Vasile

Page: 3

Project ID: A5332995/9B06023

Project Name: PO# SUB03712-A5332995

| AETL Job Number | Submitted | Client |
|-----------------|------------|--------|
| 96191 | 02/07/2019 | AA |

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

QC Batch No: MB020719-1

| Our Lab I.D. | | Method Blank | 96191.01 | | | |
|--------------------|------|--------------|------------|---------|--|--|
| Client Sample I.D. | | | 9B06023-01 | | | |
| Date Sampled | | | 02/06/2019 | | | |
| Date Prepared | | 02/07/2019 | 02/07/2019 | | | |
| Preparation Method | | SM5540C | SM5540C | | | |
| Date Analyzed | | 02/07/2019 | 02/07/2019 | | | |
| Matrix | | Aqueous | Aqueous | | | |
| Units | | mg/L | mg/L | | | |
| Dilution Factor | | 1 | 1 | | | |
| Analytes | MDL | PQL | Results | Results | | |
| Surfactants (MBAS) | 0.05 | 0.05 | ND | ND | | |



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ANALYTICAL RESULTS

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Page: 4

Project ID: A5332995/9B06023

Project Name: PO# SUB03712-A5332995

| AETL Job Number | Submitted | Client |
|-----------------|------------|--------|
| 96191 | 02/07/2019 | AA |

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

QC Batch No: BO020819-1

| Our Lab I.D. | | Method Blank | 96191.01 | | | |
|---------------------------------|-----|--------------|------------|---------|--|--|
| Client Sample I.D. | | | 9B06023-01 | | | |
| Date Sampled | | | 02/06/2019 | | | |
| Date Prepared | | 02/08/2019 | 02/08/2019 | | | |
| Preparation Method | | SM5210B | SM5210B | | | |
| Date Analyzed | | 02/13/2019 | 02/13/2019 | | | |
| Matrix | | Aqueous | Aqueous | | | |
| Units | | mg/L | mg/L | | | |
| Dilution Factor | | 1 | 1 | | | |
| Analytes | MDL | PQL | Results | Results | | |
| Biochemical Oxygen Demand (BOD) | 5.0 | 5.0 | ND | ND | | |



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QUALITY CONTROL RESULTS

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Telephone: (818)998-5547

Attn: Viorel Vasile

Page: 5

Project ID: A5332995/9B06023

Project Name: PO# SUB03712-A5332995

| AETL Job Number | Submitted | Client |
|-----------------|------------|--------|
| 96191 | 02/07/2019 | AA |

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

QC Batch No: PH020719-1; Dup or Spiked Sample: 96177.01; LCS: Clean Water; QC Prepared: 02/07/2019; QC Analyzed: 02/07/2019;
 Units: mg/L

| Analytes | Sample Result | MS Concen | MS Recov | MS % REC | MS DUP Concen | MS DUP Recov | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit |
|----------|---------------|-----------|----------|----------|---------------|--------------|--------------|-------|----------------|----------------|
| Phenol | 0.00 | 0.500 | 0.432 | 86.4 | 0.500 | 0.446 | 89.2 | 3.2 | 80-120 | <15 |

QC Batch No: PH020719-1; Dup or Spiked Sample: 96177.01; LCS: Clean Water; QC Prepared: 02/07/2019; QC Analyzed: 02/07/2019;
 Units: mg/L

| Analytes | LCS Concen | LCS Recov | LCS % REC | LCS DUP Concen | LCS DUP Recov | LCS DUP % REC | LCS RPD % REC | LCS/LCSD % Limit | LCS RPD % Limit |
|----------|------------|-----------|-----------|----------------|---------------|---------------|---------------|------------------|-----------------|
| Phenol | 0.500 | 0.466 | 93.2 | 0.500 | 0.445 | 89.0 | 4.6 | 80-120 | <20 |



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QUALITY CONTROL RESULTS

Ordered By

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Telephone: (818)998-5547

Attn: Viorel Vasile

Page: 6

Project ID: A5332995/9B06023

Project Name: PO# SUB03712-A5332995

| AETL Job Number | Submitted | Client |
|-----------------|------------|--------|
| 96191 | 02/07/2019 | AA |

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

QC Batch No: MB020719-1; Dup or Spiked Sample: 96191.01; LCS: Clean Water; QC Prepared: 02/07/2019; QC Analyzed: 02/07/2019;
 Units: mg/L

| Analytes | Sample Result | MS Concen | MS Recov | MS % REC | MS DUP Concen | MS DUP Recov | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit |
|--------------------|---------------|-----------|----------|----------|---------------|--------------|--------------|-------|----------------|----------------|
| Surfactants (MBAS) | 0.00 | 0.500 | 0.430 | 86.0 | 0.500 | 0.438 | 87.6 | 1.8 | 80-120 | <15 |

QC Batch No: MB020719-1; Dup or Spiked Sample: 96191.01; LCS: Clean Water; QC Prepared: 02/07/2019; QC Analyzed: 02/07/2019;
 Units: mg/L

| Analytes | LCS Concen | LCS Recov | LCS % REC | LCS DUP Concen | LCS DUP Recov | LCS DUP % REC | LCS RPD % REC | LCS/LCSD % Limit | LCS RPD % Limit |
|--------------------|------------|-----------|-----------|----------------|---------------|---------------|---------------|------------------|-----------------|
| Surfactants (MBAS) | 0.500 | 0.426 | 85.2 | 0.500 | 0.435 | 87.0 | 2.1 | 80-120 | <15 |



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QUALITY CONTROL RESULTS

Ordered By

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Telephone: (818)998-5547

Attn: Viorel Vasile

Page: 7

Project ID: A5332995/9B06023

Project Name: PO# SUB03712-A5332995

| AETL Job Number | Submitted | Client |
|-----------------|------------|--------|
| 96191 | 02/07/2019 | AA |

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

QC Batch No: BO020819-1; Dup or Spiked Sample: 96191.01; LCS: Clean Water; LCS Prepared: 02/08/2019; LCS Analyzed: 02/13/2019;
 Units: mg/L

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

QC Batch No: BO020819-1; Dup or Spiked Sample: 96191.01; LCS: Clean Water; LCS Prepared: 02/08/2019; LCS Analyzed: 02/13/2019;
 Units: mg/L

| Analytes | LCS Concen | LCS Recov | LCS % REC | LCS DUP Concen | LCS DUP Recov | LCS DUP % REC | LCS RPD % REC | LCS/LCSD % Limit | LCS RPD % Limit | |
|---------------------------------|------------|-----------|-----------|----------------|---------------|---------------|---------------|------------------|-----------------|--|
| Biochemical Oxygen Demand (BOD) | 198 | 164 | 82.8 | 198 | 210 | 106 | 24.6 | 80-120 | <15 | |



American Environmental Testing Laboratory Inc.

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

Data Qualifiers and Descriptors

Data Qualifier:

- #: Recovery is not within acceptable control limits.
- *: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

Definition:

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Data Qualifiers and Descriptors

| | |
|--------|---|
| MS: | Matrix Spike |
| MS DU: | Matrix Spike Duplicate |
| ND: | Analyte was not detected in the sample at or above MDL. |
| PQL: | Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice. |
| Recov: | Recovered concentration in the sample. |
| RPD: | Relative Percent Difference |



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

February 15, 2019

Neil Irish

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

**Re : DFSP Norwalk / 091-NDLA
A5332994 / 9B06022**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 02/06/19 17:02 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile
Operations Manager

LABORATORY REPORT



"dedicated to providing quality aquatic toxicity testing"

4350 Transport Street, Unit 107
Ventura, CA 93003
(805) 650-0546 FAX (805) 650-0756
CA ELAP Cert. No.: 1775

Date: February 11, 2019
Client: American Analytics
9765 Eton Avenue
Chatsworth, CA 91311
Attn: Viorel Vasile

Laboratory No.: A-19020702-001
Project No.: A533299469
Sample ID.: 9B06022-01

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

Date Sampled: 02/06/19
Date Received: 02/07/19
Temp. Received: 3.4°C
Chlorine (TRC): 0.0 mg/l
Date Tested: 02/07/19 to 02/11/19

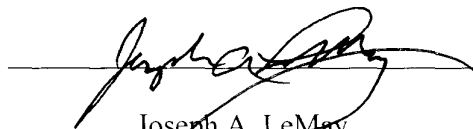
Sample Analysis: The following analyses were performed on your sample:
Fathead Minnow 96hr Percent Survival Bioassay (EPA-821-R-02-012 Method 2000.0);

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

Result Summary:

| <u>Sample ID.</u> | <u>Results</u> |
|-------------------|---------------------------|
| 9B06022-01 | 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-19020702-001
 Client/ID: American Analytics 9B06022-01

Start Date: 02/07/2019

TEST SUMMARY

Species: *Pimephales promelas*.
 Age: 13 (1-14) days.
 Regulations: NPDES.
 Test solution volume: 250 ml.
 Feeding: prior to renewal at 48 hrs.
 Number of replicates: 4.
 Control water: Moderately hard reconstituted water.
 Photoperiod: 16/8 hrs light/dark.

Source: In-laboratory Culture.
 Test type: Static-Renewal.
 Test Protocol: EPA-821-R-02-012.
 Endpoints: Percent Survival at 96 hrs.
 Test chamber: 600 ml beakers.
 Temperature: 20 +/- 1°C.
 Number of fish per chamber: 10.
 QA/QC No.: RT-190205.

TEST DATA

| | | °C | DO | pH | # Dead | | | | Analyst & Time of Readings |
|---------|---------|------|-----|-----|--------|---|---|---|----------------------------|
| | | | | | A | B | C | D | |
| INITIAL | Control | 20.1 | 9.0 | 8.1 | 0 | 0 | 0 | 0 | 2 1100 |
| | 100% | 19.8 | 8.2 | 8.0 | 0 | 0 | 0 | 0 | |
| 24 Hr | Control | 20.0 | 8.7 | 7.9 | 0 | 0 | 0 | 0 | 2 1100 |
| | 100% | 19.9 | 8.3 | 8.1 | 0 | 0 | 0 | 0 | |
| 48 Hr | Control | 20.2 | 8.3 | 8.0 | 0 | 0 | 0 | 0 | 2 1100 |
| | 100% | 20.1 | 8.1 | 8.1 | 0 | 0 | 0 | 0 | |
| Renewal | Control | 20.2 | 8.5 | 8.0 | 0 | 0 | 0 | 0 | 2 1100 |
| | 100% | 20.1 | 8.7 | 7.9 | 0 | 0 | 0 | 0 | |
| 72 Hr | Control | 20.2 | 8.4 | 7.9 | 0 | 0 | 0 | 0 | 2 1045 |
| | 100% | 20.5 | 8.4 | 8.0 | 0 | 0 | 0 | 0 | |
| 96 Hr | Control | 20.2 | 8.4 | 7.9 | 0 | 0 | 0 | 0 | 2-11-19 1100 |
| | 100% | 20.1 | 8.4 | 8.1 | 0 | 0 | 0 | 0 | |

Comments:

Sample as received: Chlorine: 0 mg/l; Temp: 3.4 °C; DO: 5.1 mg/l; pH: 7.4 ;
 Alkalinity: 500 mg/l; Hardness: 738 mg/l; Conductivity: 2034 umho; NH₃-N: 1.2 mg/l.
 Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / No.
 Control: Alkalinity: 59 mg/l; Hardness: 83 mg/l; Conductivity: 325 umho.
 Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / No
 Original sample used for renewal kept at 0-6°C with minimal headspace.
 Dissolved Oxygen (DO) readings in mg/l O₂.

RESULTS

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

Asquatic Testing Labs



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

A.A. COC No.:

700556683

Page 1 of 1

Client: AMERICAN ANALYTICS Project Name / No.: AS332994/9806022 Sampler's Name:
Project Manager: Norel York Site Address: Sampler's Signature:
Phone: City: State & Zip: P.O. No.: 5UR03713- AS332994
Quote No.:

TAT Turnaround Codes **

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

ANALYSIS REQUESTED (Test Name)

| Client I.D. | A.A. I.D. | Date | Time | Sample Matrix | No. of Cont | Please enter the TAT Turnaround Codes ** below | | | | | | | | Special Instructions |
|-------------|-----------|--------|------|---------------|-------------|--|--|--|--|--|--|--|--|----------------------|
| | | | | | | | | | | | | | | |
| 9806022-01 | | 2/6/19 | 1050 | Water | 1 | X | | | | | | | | 96 hr % Survival |
| | | | | | | | | | | | | | | Footbed Mlumawi |
| | | | | | | | | | | | | | | EPA 821-P02-012 |
| | | | | | | | | | | | | | | Normal TAT |
| | | | | | | | | | | | | | | Thank you |
| | | | | | | | | | | | | | | |
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For Laboratory Use

| | | | | |
|---------------------------------------|----------------|--------------|-----------------------------------|------|
| Relinquished by <i>[Signature]</i> | Date 2/7/19 | Time 8:30 | Received by <i>[Signature]</i> | Time |
| Relinquished by | Date | Time | Received by | Time |
| Relinquished by | Date | Time | Received by | Time |

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.



***REFERENCE
TOXICANT
DATA***

FATHEAD MINNOW ACUTE Reference Toxicant - SDS



QA/QC Batch No.: RT-190205

TEST SUMMARY

Species: *Pimephales promelas*.
 Age: 14 days old.
 Regulations: NPDES.
 Test chamber volume: 250 ml.
 Feeding: Prior to renewal at 48 hrs.
 Temperature: 20 +/- 1°C.
 Number of replicates: 2.
 Dilution water: MHSF.

Source: In-lab culture.
 Test type: Static-Renewal.
 Test Protocol: EPA-821-R-02-012.
 Endpoints: LC50 at 96 hrs.
 Test chamber: 600 ml beakers.
 Aeration: None.
 Number of organisms per chamber: 10.
 Photoperiod: 16/8 hrs light/dark.

TEST DATA

| Date/Time: Analyst: | INITIAL | | | 24 Hr | | | | | 48 Hr | | | | |
|------------------------|--------------------|------------|------------|--------------------|------------|------------|-----------|-----------|--------------------|------------|------------|----------|----------|
| | <u>2-5-19 1130</u> | | | <u>2-6-19 1130</u> | | | | | <u>2-7-19 1100</u> | | | | |
| | <u>?</u> | | | <u>?</u> | | | | | <u>?</u> | | | | |
| | °C | DO | pH | °C | DO | pH | # Dead | | °C | DO | pH | # Dead | |
| | | | | | | A | B | | | | A | B | |
| Control | <u>20.5</u> | <u>8.9</u> | <u>8.1</u> | <u>19.9</u> | <u>8.7</u> | <u>7.9</u> | <u>0</u> | <u>0</u> | <u>19.9</u> | <u>8.6</u> | <u>7.9</u> | <u>0</u> | <u>0</u> |
| 1.0 mg/l | <u>20.5</u> | <u>8.8</u> | <u>8.1</u> | <u>19.8</u> | <u>8.6</u> | <u>7.9</u> | <u>0</u> | <u>0</u> | <u>19.8</u> | <u>8.5</u> | <u>7.9</u> | <u>0</u> | <u>0</u> |
| 2.0 mg/l | <u>20.5</u> | <u>8.8</u> | <u>8.0</u> | <u>19.7</u> | <u>8.5</u> | <u>7.8</u> | <u>0</u> | <u>0</u> | <u>19.7</u> | <u>8.2</u> | <u>7.8</u> | <u>0</u> | <u>0</u> |
| 4.0 mg/l | <u>20.6</u> | <u>8.9</u> | <u>8.0</u> | <u>19.8</u> | <u>8.3</u> | <u>7.9</u> | <u>0</u> | <u>0</u> | <u>19.5</u> | <u>8.1</u> | <u>7.8</u> | <u>2</u> | <u>1</u> |
| 8.0 mg/l | <u>20.5</u> | <u>8.8</u> | <u>8.0</u> | <u>19.7</u> | <u>8.1</u> | <u>7.9</u> | <u>10</u> | <u>10</u> | - | - | - | - | - |
| 16.0 mg/l | <u>20.6</u> | <u>8.8</u> | <u>8.0</u> | <u>19.6</u> | <u>8.2</u> | <u>7.8</u> | <u>10</u> | <u>10</u> | - | - | - | - | - |

| Date/Time: Analyst: | RENEWAL | | | 72 Hr | | | | | 96 Hr | | | | |
|------------------------|--------------------|------------|------------|--------------------|------------|------------|----------|----------|--------------------|------------|------------|----------|----------|
| | <u>2-7-19 1100</u> | | | <u>2-8-19 1100</u> | | | | | <u>2-9-19 1100</u> | | | | |
| | <u>?</u> | | | <u>?</u> | | | | | <u>?</u> | | | | |
| | °C | DO | pH | °C | DO | pH | # Dead | | °C | DO | pH | # Dead | |
| | | | | | | A | B | | | | A | B | |
| Control | <u>20.0</u> | <u>8.6</u> | <u>8.0</u> | <u>19.8</u> | <u>8.5</u> | <u>7.9</u> | <u>0</u> | <u>0</u> | <u>20.1</u> | <u>8.6</u> | <u>7.9</u> | <u>0</u> | <u>0</u> |
| 1.0 mg/l | <u>19.9</u> | <u>8.7</u> | <u>8.0</u> | <u>19.6</u> | <u>8.5</u> | <u>7.9</u> | <u>0</u> | <u>0</u> | <u>19.8</u> | <u>8.4</u> | <u>8.0</u> | <u>0</u> | <u>0</u> |
| 2.0 mg/l | <u>19.8</u> | <u>8.6</u> | <u>7.9</u> | <u>19.6</u> | <u>8.4</u> | <u>7.8</u> | <u>0</u> | <u>0</u> | <u>19.8</u> | <u>8.2</u> | <u>7.9</u> | <u>0</u> | <u>0</u> |
| 4.0 mg/l | <u>19.9</u> | <u>8.7</u> | <u>8.0</u> | <u>19.5</u> | <u>8.3</u> | <u>7.8</u> | <u>0</u> | <u>0</u> | <u>19.8</u> | <u>8.1</u> | <u>8.0</u> | <u>0</u> | <u>0</u> |
| 8.0 mg/l | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16.0 mg/l | - | - | - | - | - | - | - | - | - | - | - | - | - |

Comments: Control: Alkalinity: 60 mg/l; Hardness: 89 mg/l; Conductivity: 328 umho.
 SDS: Alkalinity: 61 mg/l; Hardness: 88 mg/l; Conductivity: 335 umho.
 Dissolved Oxygen (DO) readings in mg/l O₂.

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

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

Acute Fish Test-96 Hr Survival

Start Date: 2/5/2019 11:30 Test ID: RT190205f Sample ID: REF-Ref Toxicant
 End Date: 2/9/2019 11:30 Lab ID: CAATL-Aquatic Testing Labs Sample Type: SDS-Sodium dodecyl sulfate
 Sample Date: 2/5/2019 Protocol: EPAAW02-EPA/821/R-02-01 Test Species: PP-Pimephales promelas
 Comments:

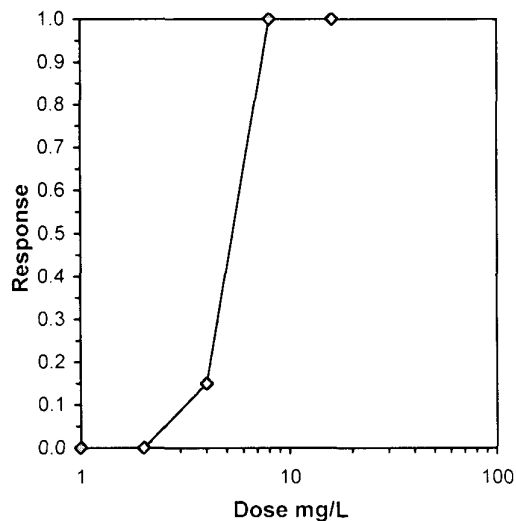
| Conc-mg/L | 1 | 2 |
|-----------|--------|--------|
| D-Control | 1.0000 | 1.0000 |
| 1 | 1.0000 | 1.0000 |
| 2 | 1.0000 | 1.0000 |
| 4 | 0.8000 | 0.9000 |
| 8 | 0.0000 | 0.0000 |
| 16 | 0.0000 | 0.0000 |

| Conc-mg/L | Mean | N-Mean | Transform: Arcsin Square Root | | | | | N | Number Resp | Total Number |
|-----------|--------|--------|-------------------------------|--------|--------|-------|---|----|-------------|--------------|
| | | | Mean | Min | Max | CV% | | | | |
| D-Control | 1.0000 | 1.0000 | 1.4120 | 1.4120 | 1.4120 | 0.000 | 2 | 0 | 20 | |
| 1 | 1.0000 | 1.0000 | 1.4120 | 1.4120 | 1.4120 | 0.000 | 2 | 0 | 20 | |
| 2 | 1.0000 | 1.0000 | 1.4120 | 1.4120 | 1.4120 | 0.000 | 2 | 0 | 20 | |
| 4 | 0.8500 | 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 | | | | |
| Equality of variance cannot be confirmed | | | | |

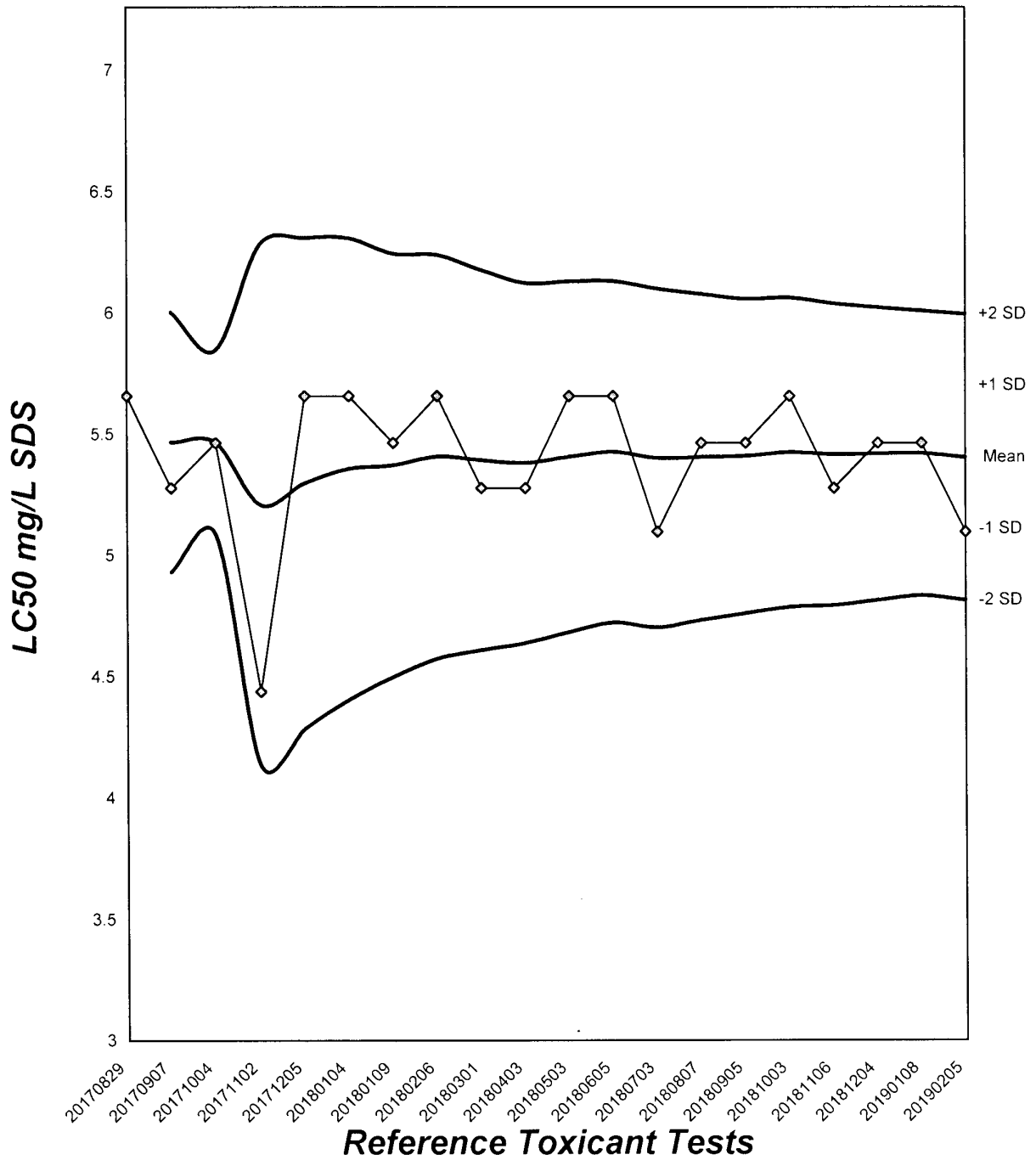
Trimmed Spearman-Kärber

| Trim Level | EC50 | 95% CL | |
|------------|--------|--------|--------|
| 0.0% | 5.0982 | 4.5640 | 5.6950 |
| 5.0% | 5.2099 | 4.5766 | 5.9309 |
| 10.0% | 5.2897 | 4.4710 | 6.2583 |
| 20.0% | 5.3212 | 4.9289 | 5.7449 |
| Auto-0.0% | 5.0982 | 4.5640 | 5.6950 |



Fathead Minnow Acute Laboratory Control Chart

CV% = 5.45





TEST ORGANISM LOG

FATHEAD MINNOW - LARVAL (*Pimephales promelas*)

QA/QC BATCH NO.: RT-190205

SOURCE: In-Lab Culture

DATE HATCHED: 1-22-19

APPROXIMATE QUANTITY: ~400

GENERAL APPEARANCE: good

MORTALITIES 48 HOURS PRIOR TO
TO USE IN TESTING: 0

DATE USED IN LAB: 2 / 5 / 19

AVERAGE FISH WEIGHT: 0.007 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.: 20.5 °C

pH: 8.1 Ammonia: 0 mg/l NH₃-N

DO: 8.9 mg/l

Alkalinity: 60 mg/l

Hardness: 89 mg/l

READINGS RECORDED BY: _____

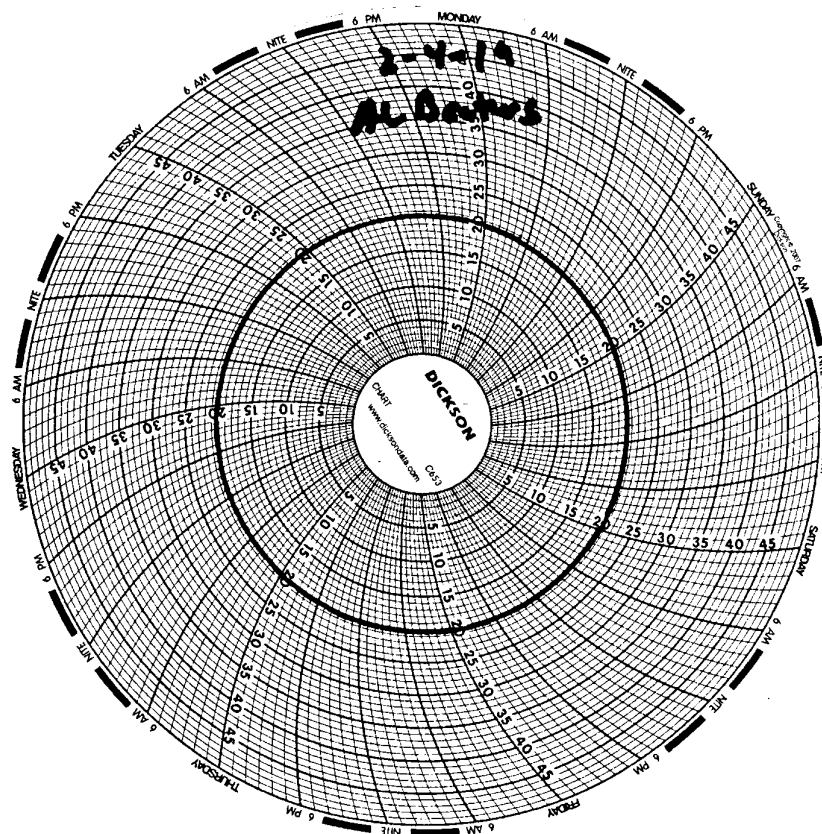
DATE: 2-6-19

Test Temperature Chart

Test No: RT-190205

Date Tested: 02/05/19 to 02/09/19

Acceptable Range: 20 +/- 1°C





AMERICAN ANALYTICALS CHAIN-OF-CUSTODY RECORD

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

17538

Page 1 of 1

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

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

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

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

TAT Turnaround Codes **

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

| Client I.D. | Date | Time | Sample Matrix | No. of Cont | ANALYSIS REQUESTED (Test Name) | | | | Special Instructions |
|-------------|--------|------|---------------|-------------|--------------------------------|------------|---------------|---------------|---------------------------------|
| | | | | | TPHd 8015M | TPHd 8299B | Arsenic 200.7 | Fish Toxicity | |
| 9806022-01 | 2-6-19 | 1050 | Water | 1 | | | ✓ | | Report J-Flags 1 gallon poly |
| | | | | | | | | | |
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| Relinquished by | Date | Time | Received by |
|-----------------------|--------|-------|--------------------|
| <i>Glenn Androska</i> | 2-6-19 | 13:45 | <i>J. D. C.</i> |
| <i>J. D. C.</i> | 2/6/19 | 17:02 | <i>[Signature]</i> |
| <i>[Signature]</i> | | | Received by |

AS332994/9806022

Note: By relinquishing samples to American Analyticals, 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 Analyticals.

APPENDIX B
Laboratory ELAP Certification



STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

Interim



CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

CERTIFICATE OF ENVIRONMENTAL ACCREDITATION

Is hereby granted to

American Analytics Inc.

Stationary Laboratory

9765 Eton Avenue

Chatsworth, CA 91311

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

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

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

Certificate No.: **1471**

Expiration Date: **3/31/2019**

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

A handwritten signature in black ink, appearing to read "Christine Sotelo".

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

APPENDIX C
Report Certification



DEFENSE LOGISTICS AGENCY
ENERGY
8725 JOHN J. KINGMAN ROAD
FORT BELVOIR, VIRGINIA 22060-6222

April 12, 2019

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

Dear Mr. Kai:

In reference to General National Pollutant Discharge Elimination System (NPDES) Permit (NPDES No. CAG994004) CFN# CI-7585, please accept this letter as DLA's certification of the *Groundwater Discharge Monitoring Report – Quarter 1* of calendar year 2019 for the Defense Fuel Support Point (DFSP) Norwalk facility in Norwalk, California.

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

If you have any questions or need additional information concerning this document, please contact Ms. Carol Devier-Heeney at (571) 767-9813 or carol.devier-heeney@dla.mil.

Sincerely,

Digitally signed by
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-04'00'

William Y. Potter
Chief, Restoration Branch

Enclosure
As stated

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