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Report Title:	**GROUNDWATER DISCHARGE MONITORING REPORT QUARTER 3, 2018**
Report Type:	**NPDES / WDR Reports**
Report Date:	**10/9/2018**
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Organization Name:	**The Source Group, Inc.**
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October 9, 2018

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

Subject: **GROUNDWATER DISCHARGE MONITORING REPORT**
QUARTER 3, 2018
NPDES No. CAG994004; Compliance File No. CI-7585
Defense Fuel Support Point, Norwalk
15306 Norwalk Boulevard
Norwalk, California

On behalf of The Defense Logistics Agency Installation Management - Operations for Energy, DF-FE (DLA), The Source Group, Inc. (SGI) presents the subject report to summarize the National Pollutant Discharge Elimination System (NPDES) monitoring activities for Quarter 3, 2018 at Defense Fuel Support Point (DFSP), Norwalk located at 15306 Norwalk Boulevard, in Norwalk, California (Site).

SUMMARY OF REMEDIATION PROGRESS AND DISCHARGE VOLUMES

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

The GWETS consists of five vertical extraction wells (four 6-inch diameter wells and one 4-inch diameter well), three bag filter vessels, two MYCELX oil separator vessels, three granular activated carbon (GAC) vessels, and two ion exchange vessels. Four wells (GW-2, GW-13, GW-15, and GW-16) were in operation during the current reporting period. All treated groundwater was discharged in accordance with NPDES Permit No. CAG994004, Compliance File No. CI-7585 with the exception that the Arsenic result from sampling conducted on July 2, 2018 yielded a value above the daily limit (see Summary of Non-Compliance section).

GWETS discharge volumes and field notes for July, August and September 2018 are summarized in Tables 2A, 2B, and 2C, respectively. Periodic site visits were conducted to assess and optimize system operation and record operational data. The total volume of groundwater extracted by the GWETS during Quarter 3, 2018 was approximately 642,663 gallons. Based on the total petroleum hydrocarbons as diesel (TPHd) results for influent water samples and total groundwater extracted, the mass of TPHd removed by the GWETS this period was approximately 0.2 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 3, 2018 monitoring results, including sample dates, is provided as Table 1. Laboratory analytical reports and chain-of-custody documents for all the samples collected this period are included in Appendix A.

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

SUMMARY OF NON-COMPLIANCE

The GWETS operated in compliance with NPDES No. CAG994004, CI-7585 during this reporting period with the exception that Arsenic was detected above its effluent permit limit during the monthly sampling event for July 2018. As indicated on Table 1, discharge was terminated on July 17, 2018 upon receipt of the July 2, 2018 analytical data from the laboratory in accordance with General Monitoring Provision U of the MRP (operations were otherwise limited during the first half of July 2018 since the system was previously off-line from July 6-16, 2018 for unrelated repair/maintenance work that included the replacement of the discharge totalizer following the discovery of a crack in the housing during a routine inspection).

Discharge resumed on July 26, 2018 following the implementation of remedial measures to ensure compliance with the effluent Arsenic limit. Additionally, accelerated effluent Arsenic monitoring was conducted for three consecutive weeks per General Monitoring Provision V of the MRP with all of the analytical results demonstrating full compliance with the effluent limit. Regular monthly monitoring for this constituent therefore resumed during September 2018 in accordance with General Monitoring Provision V or the MRP.

LABORATORY CERTIFICATION

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

REPORT CERTIFICATION

The DLA report certification is provided in Appendix C.

Sincerely,

Michael Wood, P.E.
Senior Engineer

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

Attachments and Distribution on Next Page:

Attachments:

Table 1 – Summary of Effluent Groundwater Monitoring Results - 3rd Quarter 2018
Table 2A – Groundwater Extraction and Treatment System Operations Summary - July
Table 2B – Groundwater Extraction and Treatment System Operations Summary - August
Table 2C – Groundwater Extraction and Treatment System Operations Summary - September

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. 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
Ms. Minxia Dong, 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 - 3rd Quarter 2018
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Sampling Frequency			Monthly							Quarterly											Annually
Laboratory Analysis Methods			--	SM 4500 H+B	--	EPA 8015B (M)	EPA 8260B	EPA 8260B	EPA 6020	SM 5520 B	EPA 6020	SM 2130 B	SM 4500 S2-D	SM 4500-Cl F	SM 2540 C	SM 2540 D	SM 2540 F	SM 5540 C	EPA 420.1	SM 5210 B	EPA 2000.0
Daily Discharge Limitations			--	--	--	100 µg/L	5 µg/L	12 µg/L	10 µg/L	15 mg/L	30 µg/L	150 NTU	1.0 mg/L	0.1 mg/L	--	75 mg/L	0.3 mL/L	0.5 mg/L	1.0 mg/L	30 mg/L	--
Monthly Discharge Limitations			--	--	--	--	--	--	--	10 mg/L	15 µg/L	50 NTU	--	--	--	50 mg/L	0.1 mL/L	--	--	20 mg/L	--
Sample Date	**Notes**	**GWETS Wells On Line**	**Average Flow Rate**	**pH** [A]	**Temp-erature**	**TPH**	**MTBE**	**TBA**	**Arsenic**	**Oil & Grease**	**Copper**	**Turbidity**	**Sulfides**	**Residual Chlorine**	**Total Dissolved Solids**	**Total Suspended Solids**	**Settleable Solids**	**MBAS**	**Phenols**	**BOD_5 20°C**	**Acute Toxicity**
			(gpm)	pH units	°C	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(NTU)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mL/L)	(mg/L)	(mg/L)	(mg/L)	(% Survival)
07/02/18	1,2	GW-2, GW-13, GW-15, GW-16	3.4	7.32	23.0	<100	<0.40	<7.0	**15**	--	--	--	--	--	--	--	--	--	--	--	--
07/30/18	3,4	GW-2, GW-13, GW-15, GW-16	12.2	--	--	--	--	--	<6.0 [B]	--	--	--	--	--	--	--	--	--	--	--	--
08/06/18		GW-2, GW-15, GW-16	11.9	7.28	23.8	<100	<0.40	<7.0	<6.0 [B]	<5.0	<14	**1.5**	<0.027	<0.1 [C]	**1,000**	<5.0	<0.1	<0.05	<0.15	<5.0	**--**
08/13/18	5	GW-2, GW-15, GW-16	5.9	--	--	--	--	--	<6.0 [B]	--	--	--	--	--	--	--	--	--	--	--	--
09/13/18		GW-15, GW-16	3.5	7.31	24.2	<100	<0.40	<7.0	<6.0	--	--	--	--	--	--	--	--	--	--	--	--

Legend / Notes:

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

A = Measured in the field using an Oakton® pH Tester Model 30.
B = Accelerated weekly permit compliance monitoring result per General Monitoring Provision V of Monitoring and Reporting Program No. CI-7585 (MRP).
C = Measured in the field using a HACH® Chlorine Test Kit Model CN-70.

1 = GWETS manually shutdown July 6, 2018 for repair/maintenance work, and restarted July 16, 2018 with a new discharge totalizer since previous unit was determined to have a housing crack during a routine inspection.
2 = GWETS manually shutdown July 17, 2018 following receipt of analytical result for Arsenic from July 2, 2018 sampling event in accordance with General Monitoring Provision U of the MRP.
3 = GWETS restarted July 26, 2018 following implementation of remedial measures to ensure compliance with effluent Arsenic limit per General Monitoring Provision U of the MRP.
4 = Arsenic result from first of three consecutive weekly sampling events required as part of accelerated permit compliance monitoring per General Monitoring Provision V of the MRP.
5 = Arsenic result from third consecutive weekly sampling event conducted as part of accelerated permit compliance monitoring per General Monitoring Provision V of the MRP (since the results from all three required events demonstrated full compliance with the daily discharge limit, regular monthly monitoring for this constituent resumed during September 2018).

TABLE 2A

Groundwater Extraction and Treatment System Operations Summary - July

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)
7/1/18	*		175,925	92,468	317,116	424,142	11,858,221	5,047,430	78,390,142	4,923	--	9,946
7/2/18	Technician	1,2	176,415	92,733	317,996	425,410	11,860,369	5,048,185	78,391,783	4,923	ND <60	9,946
7/3/18	*		177,887	93,528	320,643	426,827	11,864,433	5,050,441	78,396,706	4,923	--	9,946
7/4/18	*		179,358	94,323	323,290	428,244	11,868,497	5,052,697	78,401,629	4,923	--	9,946
7/5/18	*		180,829	95,118	325,937	429,661	11,872,561	5,054,953	78,406,552	4,923	--	9,946
7/6/18	Technician	3	182,670	96,110	329,250	431,430	11,877,643	5,057,817	78,412,707	2,873	--	9,946
7/7/18	Off line		182,670	96,110	329,250	431,430	11,877,643	5,057,817	78,412,707	0	--	9,946
7/8/18	Off line		182,670	96,110	329,250	431,430	11,877,643	5,057,817	78,412,707	0	--	9,946
7/9/18	Off line		182,670	96,110	329,250	431,430	11,877,643	5,057,817	78,412,707	0	--	9,946
7/10/18	Off line		182,670	96,110	329,250	431,430	11,877,643	5,057,817	78,412,707	0	--	9,946
7/11/18	Off line		182,670	96,110	329,250	431,430	11,877,643	5,057,817	78,412,707	0	--	9,946
7/12/18	Off line		182,670	96,110	329,250	431,430	11,877,643	5,057,817	78,412,707	0	--	9,946
7/13/18	Off line		182,670	96,110	329,250	431,430	11,877,643	5,057,817	78,412,707	0	--	9,946
7/14/18	Off line		182,670	96,110	329,250	431,430	11,877,643	5,057,817	78,412,707	0	--	9,946
7/15/18	Off line		182,670	96,110	329,250	431,430	11,877,643	5,057,817	78,412,707	0	--	9,946
7/16/18	Technician	4	182,670	96,110	329,250	431,430	11,877,643	5,057,817	0	6,883	--	9,946
7/17/18	Technician	5	184,950	97,360	333,080	435,090	11,885,133	5,061,347	11,400	4,517	--	9,946
7/18/18	Off line		184,950	97,360	333,080	435,090	11,885,133	5,061,347	11,400	0	--	9,946
7/19/18	Off line		184,950	97,360	333,080	435,090	11,885,133	5,061,347	11,400	0	--	9,946
7/20/18	Off line		184,950	97,360	333,080	435,090	11,885,133	5,061,347	11,400	0	--	9,946
7/21/18	Off line		184,950	97,360	333,080	435,090	11,885,133	5,061,347	11,400	0	--	9,946
7/22/18	Off line		184,950	97,360	333,080	435,090	11,885,133	5,061,347	11,400	0	--	9,946
7/23/18	Off line		184,950	97,360	333,080	435,090	11,885,133	5,061,347	11,400	0	--	9,946
7/24/18	Off line		184,950	97,360	333,080	435,090	11,885,133	5,061,347	11,400	0	--	9,946
7/25/18	Off line		184,950	97,360	333,080	435,090	11,885,133	5,061,347	11,400	0	--	9,946
7/26/18	Technician	6	184,950	97,360	333,080	435,090	11,885,133	5,061,347	11,400	6,015	--	9,946
7/27/18	*		189,363	99,109	337,897	440,168	11,895,028	5,067,509	27,358	10,310	--	9,946
7/28/18	*		193,775	100,859	342,714	445,246	11,904,923	5,073,671	43,316	15,958	--	9,946
7/29/18	*		198,188	102,608	347,531	450,323	11,914,817	5,079,833	59,275	15,958	--	9,946
7/30/18	Technician	7	203,060	104,540	352,850	455,930	11,925,743	5,086,637	76,895	17,620		9,946
7/31/18	*		208,271	106,112	357,245	459,752	11,933,959	5,093,420	92,303	15,408	--	9,946

Cumulative Groundwater Discharged by the GWETS to Date (gallons)							
Period	July	Quarter 1, 2018	Quarter 2, 2018	Quarter 3, 2018	Quarter 4, 2018	2018 to Date	April 1996 to Date
Volume	119,791	189,822	482,184	119,791	--	791,797	78,505,010

Cumulative Mass DRO Removed by the GWETS [A] (lb)			
Period	July	Quarter 3 to Date	April 1996 to Date
Mass	0.03	0.03	9,945.7

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

Legend / Notes:

1 = Collected monthly process and intermediate samples for laboratory analysis.
2 = Collected monthly effluent field data and samples for laboratory analysis (see Table 1).
3 = GWETS manually shut down for repair/maintenance work.
4 = GWETS restarted following the completion of repair/maintenance work, including replacement of discharge totalizer which was determined to have a housing crack during a routine inspection.
5 = GWETS manually shut down following receipt of analytical result for Arsenic in accordance with General Monitoring Provision U of the Monitoring and Reporting Program (MRP; see Table 1).
6 = GWETS restarted following implementation of remedial measures to ensure compliance with effluent Arsenic limit per General Monitoring Provision U of the MRP.
7 = Conducted first of three consecutive weekly effluent Arsenic sampling events required as part of accelerated permit compliance monitoring per General Monitoring Provision V of the MRP.

GWETS = Groundwater extraction and treatment system
µg/L - Micrograms per liter
lb = Pounds
DRO = Diesel range organics

A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit is used) from sample collected on: 7/2/18.
-- = Not applicable
* = Operational values interpolated from chart recorder data or previous monitoring event.

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

TABLE 2B

Groundwater Extraction and Treatment System Operations Summary - August

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)
8/1/18	*		213,481	107,684	361,639	463,573	11,942,175	5,100,202	107,712	15,408	--	9,946
8/2/18	*		218,692	109,256	366,034	467,395	11,950,392	5,106,985	123,120	15,408	--	9,946
8/3/18	Technician	1	222,980	110,549	369,650	470,540	11,957,153	5,112,566	135,800	12,680	--	9,946
8/4/18	*		227,786	110,549	374,841	475,269	11,967,073	5,117,372	151,459	15,659	--	9,946
8/5/18	*		232,592	110,549	380,032	479,998	11,976,992	5,122,178	167,118	15,659	--	9,946
8/6/18	Technician	2,3	237,865	110,549	385,727	485,186	11,987,876	5,127,451	184,300	17,182	ND <60	9,946
8/7/18	*		242,399	110,549	390,805	490,993	11,998,761	5,131,985	200,259	15,959	--	9,946
8/8/18	*		246,933	110,549	395,883	496,801	12,009,647	5,136,519	216,219	15,959	--	9,946
8/9/18	Technician		252,112	110,549	401,684	503,435	12,022,082	5,141,698	234,450	18,231	--	9,946
8/10/18	*		254,849	110,549	405,239	507,098	12,029,300	5,144,435	243,997	9,547	--	9,946
8/11/18	*		257,586	110,549	408,793	510,761	12,036,517	5,147,172	253,545	9,547	--	9,946
8/12/18	*		260,322	110,549	412,348	514,424	12,043,735	5,149,908	263,092	9,547	--	9,946
8/13/18	Technician	4	262,774	110,549	415,532	517,706	12,050,201	5,152,360	271,645	8,553	--	9,946
8/14/18	*		265,170	110,549	419,109	521,345	12,057,417	5,154,756	281,007	9,362	--	9,946
8/15/18	*		267,565	110,549	422,685	524,985	12,064,633	5,157,151	290,370	9,362	--	9,946
8/16/18	*		269,961	110,549	426,262	528,624	12,071,849	5,159,547	299,732	9,362	--	9,946
8/17/18	Technician		272,606	110,549	430,211	532,643	12,079,817	5,162,192	310,070	10,338	--	9,946
8/18/18	*		274,886	110,549	433,710	536,232	12,086,905	5,164,472	318,703	8,633	--	9,946
8/19/18	*		277,165	110,549	437,209	539,821	12,093,993	5,166,751	327,337	8,633	--	9,946
8/20/18	Technician	5	279,532	110,549	440,842	543,547	12,101,352	5,169,118	336,300	8,963	--	9,946
8/21/18	*		279,532	110,549	444,465	547,244	12,108,672	5,169,118	344,089	7,789	--	9,946
8/22/18	*		279,532	110,549	448,088	550,942	12,115,993	5,169,118	351,879	7,789	--	9,946
8/23/18	Technician	6	279,532	110,549	451,044	553,959	12,121,966	5,169,118	358,235	6,356	--	9,946
8/24/18	*		281,699	110,848	452,510	557,400	12,126,873	5,171,584	367,056	8,821	--	9,946
8/25/18	*		283,866	111,147	453,976	560,842	12,131,781	5,174,050	375,876	8,821	--	9,946
8/26/18	*		286,033	111,446	455,442	564,283	12,136,688	5,176,517	384,697	8,821	--	9,946
8/27/18	Technician	7	288,471	111,783	457,091	568,155	12,142,209	5,179,291	394,620	9,923	--	9,946
8/28/18	*		289,153	111,783	459,646	570,889	12,147,498	5,179,973	400,808	6,188	--	9,946
8/29/18	Technician		289,858	111,783	462,290	573,717	12,152,970	5,180,678	407,210	2,025	--	9,946
8/30/18	*		290,028	111,783	465,705	577,220	12,159,888	5,180,848	414,143	6,933	--	9,946
8/31/18	*		290,198	111,783	469,120	580,722	12,166,806	5,181,018	421,077	6,933	--	9,946

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	August	Quarter 1, 2018	Quarter 2, 2018	Quarter 3, 2018	Quarter 4, 2018	2018 to Date	April 1996 to Date
Volume	328,773	189,822	482,184	448,565	--	1,120,571	78,833,784

Cumulative Mass DRO Removed by the GWETS [A] (lb)			
Period	August	Quarter 3 to Date	April 1996 to Date
Mass	0.08	0.11	9,945.7

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

Legend / Notes:

1 = Pump in well GW-13 not functioning upon arrival and determined to require replacement.
2 = Collected monthly process and intermediate samples for laboratory analysis.
3 = Collected quarterly effluent field data and samples for laboratory analysis (see Table 1).
4 = Conducted final weekly effluent Arsenic sampling event required as part of accelerated permit compliance monitoring per General Monitoring Provision V of the MRP.
5 = Pump in well GW-2 not functioning upon arrival and determined to require maintenance.
6 = Completed well GW-2 pump maintenance, installed new pump in well GW-13, and brought both extraction wells back online.
7 = Recharge in well GW-13 determined to be minimal with pump being left off-line upon departure pending redevelopment work.

GWETS = Groundwater extraction and treatment system
µg/L - Micrograms per liter
lb = Pounds
DRO = Diesel range organics

A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit is used) from sample collected on: 8/6/18 (laboratory report attached).
-- = Not applicable
* = Operational values interpolated from chart recorder data or previous monitoring event.

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

TABLE 2C

Groundwater Extraction and Treatment System Operations Summary - September

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)
9/1/18	*		290,368	111,783	472,536	584,225	12,173,723	5,181,188	428,010	6,933	--	9,946
9/2/18	*		290,538	111,783	475,951	587,728	12,180,641	5,181,358	434,943	6,933	--	9,946
9/3/18	*		290,708	111,783	479,366	591,230	12,187,559	5,181,528	441,877	6,933	--	9,946
9/4/18	*		290,878	111,783	482,781	594,733	12,194,477	5,181,698	448,810	6,933	--	9,946
9/5/18	Technician	1	291,028	111,783	485,793	597,822	12,200,578	5,181,848	454,925	6,115	--	9,946
9/6/18	*		291,028	111,783	488,795	600,860	12,206,618	5,181,848	460,333	5,408	--	9,946
9/7/18	Technician	2	291,028	111,783	492,266	604,373	12,213,602	5,181,848	466,585	6,252	--	9,946
9/8/18	*		291,028	111,783	495,664	607,788	12,220,415	5,181,848	472,874	6,289	--	9,946
9/9/18	*		291,028	111,783	499,062	611,202	12,227,227	5,181,848	479,163	6,289	--	9,946
9/10/18	*		291,028	111,783	502,459	614,617	12,234,040	5,181,848	485,453	6,289	--	9,946
9/11/18	*		291,028	111,783	505,857	618,032	12,240,852	5,181,848	491,742	6,289	--	9,946
9/12/18	*		291,028	111,783	509,255	621,447	12,247,665	5,181,848	498,031	6,289	--	9,946
9/13/18	Technician	3,4	291,028	111,783	511,945	624,150	12,253,058	5,181,848	503,010	4,979	ND <60	9,946
9/14/18	*		291,028	111,783	515,368	627,562	12,259,893	5,181,848	510,183	7,173	--	9,946
9/15/18	*		291,028	111,783	518,791	630,973	12,266,727	5,181,848	517,357	7,173	--	9,946
9/16/18	*		291,028	111,783	522,214	634,385	12,273,562	5,181,848	524,530	7,173	--	9,946
9/17/18	Technician		291,028	111,783	526,065	638,223	12,281,251	5,181,848	532,600	8,070	--	9,946
9/18/18	*		291,028	111,783	529,421	641,591	12,287,975	5,181,848	538,509	5,909	--	9,946
9/19/18	*		291,028	111,783	532,777	644,959	12,294,699	5,181,848	544,419	5,909	--	9,946
9/20/18	*		291,028	111,783	536,133	648,327	12,301,423	5,181,848	550,328	5,909	--	9,946
9/21/18	Technician		291,028	111,783	539,547	651,754	12,308,264	5,181,848	556,340	6,012	--	9,946
9/22/18	*		291,028	111,783	542,901	655,067	12,314,931	5,181,848	562,831	6,491	--	9,946
9/23/18	*		291,028	111,783	546,255	658,380	12,321,599	5,181,848	569,323	6,491	--	9,946
9/24/18	*		291,028	111,783	549,610	661,693	12,328,266	5,181,848	575,814	6,491	--	9,946
9/25/18	*		291,028	111,783	552,964	665,006	12,334,933	5,181,848	582,305	6,491	--	9,946
9/26/18	*		291,028	111,783	556,318	668,319	12,341,600	5,181,848	588,796	6,491	--	9,946
9/27/18	Technician		291,028	111,783	559,614	671,575	12,348,152	5,181,848	595,175	6,379	--	9,946
9/28/18	*		291,028	111,783	562,515	674,476	12,353,954	5,181,848	600,977	5,802	--	9,946
9/29/18	*		291,028	111,783	565,416	677,377	12,359,756	5,181,848	606,779	5,802	--	9,946
9/30/18	*		291,028	111,783	569,614	681,575	12,368,152	5,181,848	615,175	8,396	--	9,946

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	September	Quarter 1, 2018	Quarter 2, 2018	Quarter 3, 2018	Quarter 4, 2018	2018 to Date	April 1996 to Date
Volume	194,098	189,822	482,184	642,663	--	1,314,669	79,027,882

Cumulative Mass DRO Removed by the GWETS [A] (lb)			
Period	September	Quarter 3 to Date	April 1996 to Date
Mass	0.05	0.16	9,945.8

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

Legend / Notes:

1 = Recharge in well GW-2 determined to be minimal with pump being left off-line upon departure pending redevelopment work.

2 = GWETS temporarily off-line to conduct media change out work.

3 = Collected monthly process and intermediate samples for laboratory analysis.

4 = Collected monthly effluent field data and samples for laboratory analysis (see Table 1).

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

GWETS = Groundwater extraction and treatment system

µg/L - Micrograms per liter

lb = Pounds

DRO = Diesel range organics

A = Hydrocarbon removal is calculated using analytical laboratory results for DRO (if not detected, half the detection limit is used) from sample collected on: 9/13/18 (laboratory report attached).

-- = Not applicable

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

APPENDIX A

Laboratory Analytical Reports and Chain-of-Custody Documents

AMERICAN ANALYTICS

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

July 18, 2018

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

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

A5332669 / 8G02018

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/02/18 14:12 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332669
Date Received: 07/02/18
Date Reported: 07/18/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B TPHGASOLINEBTEXOXY					
Effluent	8G02018-01	Water	5	07/02/18 08:05	07/02/18 14:12
Arsenic Total EPA 200.7					
Effluent	8G02018-01	Water	5	07/02/18 08:05	07/02/18 14:12
Diesel Range Organics 8015M					
Effluent	8G02018-01	Water	5	07/02/18 08:05	07/02/18 14:12

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5332669
Project No:	04-NDLA-013	**Date Received:**	07/02/18
Project Name:	DFSP Norwalk GWETS NPDES Monthly	**Date Reported:**	07/18/18
Method:	TPHG/BTEX/Oxygenates by GC/MS	**Units:**	ug/L

Date Sampled:	07/02/18		
Date Prepared:	07/12/18		
Date Analyzed:	07/12/18		
AA ID No:	8G02018-01		
Client ID No:	Effluent		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL
8260B TPHGASOLINEBTEXOXY (EPA 8260B)			
tert-Butyl alcohol (TBA)	<7.0	7.0	10
Gasoline Range Organics (GRO)	<40	40	100
Methyl-tert-Butyl Ether (MTBE)	<0.40	0.40	2.0

Surrogates		**%REC Limits**
4-Bromofluorobenzene	108%	70-140
Dibromofluoromethane	123%	70-140
Toluene-d8	105%	70-140

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5332669
Project No:	04-NDLA-013	**Date Received:**	07/02/18
Project Name:	DFSP Norwalk GWETS NPDES Monthly	**Date Reported:**	07/18/18
Method:	Diesel Range Organics by GC/FID	**Units:**	ug/L

Date Sampled:	07/02/18		
Date Prepared:	07/05/18		
Date Analyzed:	07/05/18		
AA ID No:	8G02018-01		
Client ID No:	Effluent		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL
Diesel Range Organics 8015M (EPA 8015M)			
Diesel Range Organics as Diesel	<60	60	100

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

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332669
Date Received: 07/02/18
Date Reported: 07/18/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
Arsenic Total EPA 200.7 (EPA 200.7)									
8G02018-01	Effluent	07/02/18	07/05/18	07/06/18	1	**0.015**	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: A5332669
Date Received: 07/02/18
Date Reported: 07/18/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
Batch B8G1213 - EPA 5030B										
Blank (B8G1213-BLK1)				Prepared & Analyzed: 07/12/18						
tert-Amyl Methyl Ether (TAME)	<0.30	0.30	ug/L							
Benzene	<0.20	0.20	ug/L							
tert-Butyl alcohol (TBA)	<7.0	7.0	ug/L							
Diisopropyl ether (DIPE)	<0.50	0.50	ug/L							
Ethylbenzene	<0.20	0.20	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	<0.40	0.40	ug/L							
Gasoline Range Organics (GRO)	<40	40	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<0.40	0.40	ug/L							
Toluene	<0.30	0.30	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.40	0.40	ug/L							
Surrogate: 4-Bromofluorobenzene	*48000000*		*ug/L*	*50*		*NR*	*70-140*			
Surrogate: Dibromofluoromethane	*57.2*		*ug/L*	*50*		*114*	*70-140*			
Surrogate: Toluene-d8	*57.6*		*ug/L*	*50*		*115*	*70-140*			
LCS (B8G1213-BS1)				Prepared: 07/12/18 Analyzed: 07/13/18						
tert-Amyl Methyl Ether (TAME)	**27.4**	0.30	ug/L	20		137	70-130			**
Benzene	**21.6**	0.20	ug/L	20		108	75-125			
tert-Butyl alcohol (TBA)	**109**	7.0	ug/L	100		109	70-130			
Diisopropyl ether (DIPE)	**21.7**	0.50	ug/L	20		108	70-130			
Ethylbenzene	**19.1**	0.20	ug/L	20		95.4	75-125			
Ethyl-tert-Butyl Ether (ETBE)	**27.7**	0.40	ug/L	20		139	70-130			**
Gasoline Range Organics (GRO)	**574**	40	ug/L	500		115	70-130			
Methyl-tert-Butyl Ether (MTBE)	**50.9**	0.40	ug/L	40		127	70-135			
Toluene	**20.5**	0.30	ug/L	20		102	75-125			
o-Xylene	**16.3**	0.30	ug/L	20		81.4	75-125			
m,p-Xylenes	**34.2**	0.40	ug/L	40		85.5	70-130			
Surrogate: 4-Bromofluorobenzene	*56.5*		*ug/L*	*50*		*113*	*70-140*			
Surrogate: Dibromofluoromethane	*52.1*		*ug/L*	*50*		*104*	*70-140*			
Surrogate: Toluene-d8	*48.6*		*ug/L*	*50*		*97.1*	*70-140*			
Diesel Range Organics by GC/FID - Quality Control										

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: A5332669
Date Received: 07/02/18
Date Reported: 07/18/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Diesel Range Organics by GC/FID - Quality Control										
Batch B8G0501 - EPA 3510C										
Blank (B8G0501-BLK1)				Prepared & Analyzed: 07/05/18						
Diesel Range Organics as Diesel	<60	60	ug/L							
Surrogate: o-Terphenyl	*24.3*		*ug/L*	*40*		*60.7*	*50-150*			
LCS (B8G0501-BS1)				Prepared & Analyzed: 07/05/18						
Diesel Range Organics as Diesel	**609**	60	ug/L	800		76.1	75-125		30	
Surrogate: o-Terphenyl	*36.0*		*ug/L*	*40*		*90.1*	*50-150*			
LCS Dup (B8G0501-BSD1)				Prepared & Analyzed: 07/05/18						
Diesel Range Organics as Diesel	**600**	60	ug/L	800		75.1	75-125	1.39	30	
Surrogate: o-Terphenyl	*22.9*		*ug/L*	*40*		*57.1*	*50-150*			
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control										
Batch B8G0505 - EPA 200.7										
Blank (B8G0505-BLK1)				Prepared: 07/05/18 Analyzed: 07/06/18						
Arsenic	<0.0060	0.0060	mg/L							
LCS (B8G0505-BS1)				Prepared: 07/05/18 Analyzed: 07/06/18						
Arsenic	**1.07**	0.0060	mg/L	1.0		107	80-120		20	
LCS Dup (B8G0505-BSD1)				Prepared: 07/05/18 Analyzed: 07/06/18						
Arsenic	**1.06**	0.0060	mg/L	1.0		106	80-120	0.937	20	
Duplicate (B8G0505-DUP1)			**Source: 8G02019-01**	Prepared: 07/05/18 Analyzed: 07/06/18						
Arsenic	**0.0270**	0.0060	mg/L		0.0274			1.47	30	
Matrix Spike (B8G0505-MS1)			**Source: 8G02018-01**	Prepared: 07/05/18 Analyzed: 07/06/18						
Arsenic	**1.08**	0.0060	mg/L	1.0	0.0151	106	75-125		20	
Matrix Spike Dup (B8G0505-MSD1)			**Source: 8G02018-01**	Prepared: 07/05/18 Analyzed: 07/06/18						
Arsenic	**1.05**	0.0060	mg/L	1.0	0.0151	103	75-125	2.45	20	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5332669
Project No:	04-NDLA-013	**Date Received:**	07/02/18
Project Name:	DFSP Norwalk GWETS NPDES Monthly	**Date Reported:**	07/18/18

Special Notes

[1] = ****** : Exceeds upper control limit.

Viorel Vasile
Operations Manager

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

15896

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

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

TAT Turnaround Codes **

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

ANALYSIS REQUESTED (Test Name)

Client I.D.	Lab I.D.	Date	Time	Sample Matrix	No. of Cont	TPHd 8015M	TPHg/MTBE/TBA 8260B	Arsenic 200.7	Please enter the TAT Turnaround Codes ** below	Special Instructions
Effluent	8G02018-01	7-2-18	0805	Water	5	✓	✓	✓		Report J-Flags

REVIEWED Date 7-2-18 Time 16:0 TAT X Days Sign

A5332669/8G02018

Relinquished by	Date	Time	Received by
Glenn Andrasko	7-2-18	1115	
	7-2-18	212	Ben Olivera

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

AMERICAN ANALYTICS

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

August 06, 2018

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

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

A5332716 / 8G30014

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/30/18 13:06 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332716
Date Received: 07/30/18
Date Reported: 08/06/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
Arsenic Total EPA 200.7					
Effluent	8G30014-01	Water	5	07/30/18 12:30	07/30/18 13:06

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: A5332716
Date Received: 07/30/18
Date Reported: 08/06/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
Arsenic Total EPA 200.7 (EPA 200.7)									
8G30014-01	Effluent	07/30/18	07/31/18	07/31/18	1	<0.0060	mg/L	0.006	0.007

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332716
Date Received: 07/30/18
Date Reported: 08/06/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control										
Batch B8G3127 - EPA 3010A										
Blank (B8G3127-BLK1)				Prepared & Analyzed: 07/31/18						
Arsenic	<0.0060	0.0060	mg/L							
LCS (B8G3127-BS1)				Prepared & Analyzed: 07/31/18						
Arsenic	**1.03**	0.0060	mg/L	1.0		103	80-120		20	
LCS Dup (B8G3127-BSD1)				Prepared & Analyzed: 07/31/18						
Arsenic	**1.02**	0.0060	mg/L	1.0		102	80-120	0.390	20	
Duplicate (B8G3127-DUP1)			**Source: 8G27002-01**	Prepared: 07/31/18			Analyzed: 08/03/18			
Arsenic	**<0.0060**	0.0060	mg/L						30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5332716
Project No:	04-NDLA-013	**Date Received:**	07/30/18
Project Name:	DFSP Norwalk GWETS NPDES Monthly	**Date Reported:**	08/06/18

Special Notes

Viorel Vasile
Operations Manager

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

A5332716/8G30014

16107

Page 1 of 1

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

TAT Turnaround Codes **

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

ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	TPHd 8015M	TPHg/MTBE/TBA 8260B	Arsenic 200.7	Special Instructions
						Please enter the TAT Turnaround Codes ** below			
Effluent	8G30014-01	7-30-18	1230	Water	1		✓		Report J-Flags

PRIORITY
SH
Rush
HS
Date 7/30/18 Time 1503 Sign

A5332716/8G30014

Relinquished by: Glenn Andrasko	Date: 7-30-18	Time: 1235	Received by: J. Umana
Relinquished by: J. Umana	Date: 7-30-18	Time: 1306	Received by:
Relinquished by:	Date:	Time:	Received by:

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

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Chatsworth
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August 27, 2018

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

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

A5332727 / 8H06016

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/06/18 14:30 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B TPHGASOLINEBTEXOXY					
Effluent	8H06016-01	Water	5	08/06/18 10:59	08/06/18 14:30
Effluent-Dup	8H06016-02	Water	5	08/06/18 11:00	08/06/18 14:30
Arsenic Total EPA 200.7					
Effluent	8H06016-01	Water	5	08/06/18 10:59	08/06/18 14:30
BOD SM5210B					
Effluent	8H06016-01	Water	5	08/06/18 10:59	08/06/18 14:30
Copper Dissolved EPA 200.7					
Effluent	8H06016-01	Water	5	08/06/18 10:59	08/06/18 14:30
Copper Total EPA 200.7					
Effluent	8H06016-01	Water	5	08/06/18 10:59	08/06/18 14:30
Diesel Range Organics 8015M					
Effluent	8H06016-01	Water	5	08/06/18 10:59	08/06/18 14:30
Effluent-Dup	8H06016-02	Water	5	08/06/18 11:00	08/06/18 14:30
HEM Oil and Grease 1664					
Effluent	8H06016-01	Water	5	08/06/18 10:59	08/06/18 14:30

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: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
MBAS SM5540C					
Effluent	8H06016-01	Water	5	08/06/18 10:59	08/06/18 14:30
Phenols 420.1					
Effluent	8H06016-01	Water	5	08/06/18 10:59	08/06/18 14:30
SS SM2540F					
Effluent	8H06016-01	Water	5	08/06/18 10:59	08/06/18 14:30
Sulfide SM4500-S=D					
Effluent	8H06016-01	Water	5	08/06/18 10:59	08/06/18 14:30
TDS SM2540C					
Effluent	8H06016-01	Water	5	08/06/18 10:59	08/06/18 14:30
TSS SM2540D					
Effluent	8H06016-01	Water	5	08/06/18 10:59	08/06/18 14:30
Turbidity 180.1					
Effluent	8H06016-01	Water	5	08/06/18 10:59	08/06/18 14:30

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
Method: General Chemistry Analyses

AA Project No: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MRL
BOD SM5210B (SM5210B) *								
8H06016-01	Effluent	08/06/18	08/08/18	08/13/18	1	<5.0	mg/L	5
HEM Oil and Grease 1664 (EPA 1664)								
8H06016-01	Effluent	08/06/18	08/13/18	08/14/18	1	<5.0	mg/L	10
MBAS SM5540C (SM5540C) *								
8H06016-01	Effluent	08/06/18	08/08/18	08/08/18	1	<0.050	mg/L	0.05
Phenols 420.1 (EPA 420.1) *								
8H06016-01	Effluent	08/06/18	08/09/18	08/09/18	1	<0.15	mg/L	0.3
SS SM2540F (SM2540F)								
8H06016-01	Effluent	08/06/18	08/07/18	08/07/18	1	<0.100	mL/L	0.1
Sulfide SM4500-S=D (SM4500-S=D)								
8H06016-01	Effluent	08/06/18	08/09/18	08/09/18	1	<0.027	mg/L	0.05
TDS SM2540C (SM2540C)								
8H06016-01	Effluent	08/06/18	08/07/18	08/08/18	1	**1000**	mg/L	10
TSS SM2540D (SM2540D)								
8H06016-01	Effluent	08/06/18	08/13/18	08/13/18	1	<5.0	mg/L	10
Turbidity 180.1 (EPA 180.1)								
8H06016-01	Effluent	08/06/18	08/07/18	08/07/18	1	**1.5**	NTU	1

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18
Units: ug/L

Date Sampled:	08/06/18	08/06/18	
Date Prepared:	08/09/18	08/09/18	
Date Analyzed:	08/09/18	08/09/18	
AA ID No:	8H06016-01	8H06016-02	
Client ID No:	Effluent	Effluent-Dup	
Matrix:	Water	Water	
Dilution Factor:	1	1	MRL
8260B TPHGASOLINEBTEXOXY (EPA 8260B)			
tert-Amyl Methyl Ether (TAME)	<0.30	<0.30	2.0
Benzene	<0.20	<0.20	0.50
tert-Butyl alcohol (TBA)	<7.0	<7.0	10
Diisopropyl ether (DIPE)	<0.50	<0.50	2.0
Ethylbenzene	<0.20	<0.20	0.50
Ethyl-tert-Butyl Ether (ETBE)	<0.40	<0.40	2.0
Gasoline Range Organics (GRO)	<40	<40	100
Methyl-tert-Butyl Ether (MTBE)	<0.40	<0.40	2.0
Toluene	<0.30	<0.30	0.50
o-Xylene	<0.30	<0.30	0.50
m,p-Xylenes	<0.40	<0.40	1.0
Surrogates			**%REC Limits**
4-Bromofluorobenzene	104%	105%	70-140
Dibromofluoromethane	105%	108%	70-140
Toluene-d8	104%	107%	70-140

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5332727
Project No:	04-NDLA-013	**Date Received:**	08/06/18
Project Name:	DFSP Norwalk GWETS NPDES Quarterly	**Date Reported:**	08/27/18
Method:	Diesel Range Organics by GC/FID	**Units:**	ug/L

Date Sampled:	08/06/18	08/06/18	
Date Prepared:	08/09/18	08/09/18	
Date Analyzed:	08/13/18	08/13/18	
AA ID No:	8H06016-01	8H06016-02	
Client ID No:	Effluent	Effluent-Dup	
Matrix:	Water	Water	
Dilution Factor:	1	1	MRL
Diesel Range Organics 8015M (EPA 8015M)			
Diesel Range Organics as Diesel	<60	<60	100
Surrogates			**%REC Limits**
o-Terphenyl	71%	102%	50-150

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MRL
Copper Dissolved EPA 200.7 (EPA 200.7)								
8H06016-01	Effluent	08/06/18	08/09/18	08/10/18	1	<0.014	mg/L	0.014

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
Method: Total Metals by ICP Atomic Emission Spectroscopy

AA Project No: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MRL
Arsenic Total EPA 200.7 (EPA 200.7)								
8H06016-01	Effluent	08/06/18	08/09/18	08/10/18	1	<0.0060	mg/L	0.007
Copper Total EPA 200.7 (EPA 200.7)								
8H06016-01	Effluent	08/06/18	08/09/18	08/10/18	1	<0.014	mg/L	0.014

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: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
General Chemistry Analyses - Quality Control										
Batch B8H0716 - NO PREP										
Blank (B8H0716-BLK1)				Prepared & Analyzed: 08/07/18						
Total Settleable Solids	<0.100	0.100	mL/L							
Batch B8H0717 - NO PREP										
Blank (B8H0717-BLK1)				Prepared & Analyzed: 08/07/18						
Turbidity	<0.17	0.17	NTU							
Duplicate (B8H0717-DUP1)		**Source: 8H06016-01**		Prepared & Analyzed: 08/07/18						
Turbidity	**1.49**	0.17	NTU		1.52			1.99	15	
Batch B8H0819 - NO PREP										
Blank (B8H0819-BLK1)				Prepared: 08/07/18 Analyzed: 08/08/18						
Total Dissolved Solids	<6.2	6.2	mg/L							
LCS (B8H0819-BS1)				Prepared: 08/07/18 Analyzed: 08/08/18						
Total Dissolved Solids	**470**	6.2	mg/L	500		94.0	80-120			
LCS Dup (B8H0819-BSD1)				Prepared: 08/07/18 Analyzed: 08/08/18						
Total Dissolved Solids	**520**	6.2	mg/L	500		104	80-120	10.1	25	
Duplicate (B8H0819-DUP1)		**Source: 8H02004-01**		Prepared: 08/07/18 Analyzed: 08/08/18						
Total Dissolved Solids	**890**	31	mg/L						20	
Batch B8H1326 - NO PREP										
Blank (B8H1326-BLK1)				Prepared & Analyzed: 08/13/18						
Total Suspended Solids	<5.0	5.0	mg/L							
LCS (B8H1326-BS1)				Prepared & Analyzed: 08/13/18						
Total Suspended Solids	**49.0**	5.0	mg/L	50		98.0	80-120			
LCS Dup (B8H1326-BSD1)				Prepared & Analyzed: 08/13/18						
Total Suspended Solids	**46.0**	5.0	mg/L	50		92.0	80-120	6.32	20	
Duplicate (B8H1326-DUP1)		**Source: 8H10002-01**		Prepared & Analyzed: 08/13/18						
Total Suspended Solids	**49.0**	5.0	mg/L		49.3			0.671	20	
Batch B8H1329 - NO PREP										
Blank (B8H1329-BLK1)				Prepared & Analyzed: 08/09/18						
Sulfide	<0.027	0.027	mg/L							
LCS (B8H1329-BS1)				Prepared & Analyzed: 08/09/18						
Sulfide	**0.488**	0.027	mg/L				80-120		25	

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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: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
General Chemistry Analyses - Quality Control										
Batch B8H1329 - NO PREP										
LCS Dup (B8H1329-BSD1)				Prepared & Analyzed: 08/09/18						
Sulfide	**0.477**	0.027	mg/L				80-120	2.28	25	
Matrix Spike (B8H1329-MS1)		**Source: 8H06016-01**		Prepared & Analyzed: 08/09/18						
Sulfide	**0.509**	0.027	mg/L		<0.050		75-125		25	
Matrix Spike Dup (B8H1329-MSD1)		**Source: 8H06016-01**		Prepared & Analyzed: 08/09/18						
Sulfide	**0.516**	0.027	mg/L		<0.050		75-125	1.37	25	
Batch B8H1709 - NO PREP										
Blank (B8H1709-BLK1)				Prepared: 08/13/18		Analyzed: 08/14/18				
HEM (Oil and Grease)	<5.0	5.0	mg/L							
LCS (B8H1709-BS1)				Prepared: 08/13/18		Analyzed: 08/14/18				
HEM (Oil and Grease)	**43.3**	5.0	mg/L	40		108	75-125			
LCS Dup (B8H1709-BSD1)				Prepared: 08/13/18		Analyzed: 08/14/18				
HEM (Oil and Grease)	**40.6**	5.0	mg/L	40		102	75-125	6.44	30	
*Batch B8H2214 - *** DEFAULT PREP ****										
Blank (B8H2214-BLK1)				Prepared: 08/08/18		Analyzed: 08/13/18				*
Biochemical Oxygen Demand	<5.0	5.0	mg/L							
LCS (B8H2214-BS1)				Prepared: 08/08/18		Analyzed: 08/13/18				*
Biochemical Oxygen Demand	**186**	5.0	mg/L	200		93.9	80-120		15	
LCS Dup (B8H2214-BSD1)				Prepared: 08/08/18		Analyzed: 08/13/18				*
Biochemical Oxygen Demand	**169**	5.0	mg/L	200		85.3	80-120	9.58	15	
Duplicate (B8H2214-DUP1)		**Source: 8H06016-01**		Prepared: 08/08/18		Analyzed: 08/13/18				*
Biochemical Oxygen Demand	**<5.0**	5.0	mg/L		<5.0				15	
Batch B8H2215 - NO PREP										
Blank (B8H2215-BLK1)				Prepared & Analyzed: 08/08/18						*
Methylene Blue Active Substances	<0.050	0.050	mg/L							
LCS (B8H2215-BS1)				Prepared & Analyzed: 08/08/18						*
Methylene Blue Active Substances	**0.472**	0.050	mg/L	0.50		94.4	75-125		15	
LCS Dup (B8H2215-BSD1)				Prepared & Analyzed: 08/08/18						*
Methylene Blue Active Substances	**0.460**	0.050	mg/L	0.50		92.0	75-125	2.58	15	
Matrix Spike (B8H2215-MS1)		**Source: 8H06016-01**		Prepared & Analyzed: 08/08/18						*

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
General Chemistry Analyses - Quality Control										
Batch B8H2215 - NO PREP										
Matrix Spike (B8H2215-MS1) Continued Source: 8H06016-01 Prepared & Analyzed: 08/08/18										*
Methylene Blue Active Substances	**0.480**	0.050	mg/L	0.50	<0.050	96.0	75-125		15	
Matrix Spike Dup (B8H2215-MSD1) Source: 8H06016-01 Prepared & Analyzed: 08/08/18										*
Methylene Blue Active Substances	**0.486**	0.050	mg/L	0.50	<0.050	97.2	75-125	1.24	15	
Batch B8H2216 - NO PREP										
Blank (B8H2216-BLK1) Prepared & Analyzed: 08/09/18										*
Phenolics	<0.15	0.15	mg/L							
LCS (B8H2216-BS1) Prepared & Analyzed: 08/09/18										*
Phenolics	**0.436**	0.15	mg/L	0.50		87.2	80-120		15	
LCS Dup (B8H2216-BSD1) Prepared & Analyzed: 08/09/18										*
Phenolics	**0.456**	0.15	mg/L	0.50		91.2	80-120	4.48	15	
Matrix Spike (B8H2216-MS1) Source: 8H06016-01 Prepared & Analyzed: 08/09/18										*
Phenolics	**0.440**	0.15	mg/L	0.50	<0.30	88.0	80-120		15	
Matrix Spike Dup (B8H2216-MSD1) Source: 8H06016-01 Prepared & Analyzed: 08/09/18										*
Phenolics	**0.439**	0.15	mg/L	0.50	<0.30	87.8	80-120	0.228	15	
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
Batch B8H0906 - EPA 5030B										
Blank (B8H0906-BLK1) Prepared & Analyzed: 08/09/18										
tert-Amyl Methyl Ether (TAME)	<0.30	0.30	ug/L							
Benzene	<0.20	0.20	ug/L							
tert-Butyl alcohol (TBA)	<7.0	7.0	ug/L							
Diisopropyl ether (DIPE)	<0.50	0.50	ug/L							
Ethylbenzene	<0.20	0.20	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	<0.40	0.40	ug/L							
Gasoline Range Organics (GRO)	<40	40	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<0.40	0.40	ug/L							
Toluene	<0.30	0.30	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.40	0.40	ug/L							
Surrogate: 4-Bromofluorobenzene	*51.2*		*ug/L*	*50*		*102*	*70-140*			
Surrogate: Dibromofluoromethane	*49.7*		*ug/L*	*50*		*99.3*	*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 Quarterly

AA Project No: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
Batch B8H0906 - EPA 5030B										
Blank (B8H0906-BLK1) Continued				Prepared & Analyzed: 08/09/18						
Surrogate: Toluene-d8	*52.5*		*ug/L*	*50*		*105*	*70-140*			
LCS (B8H0906-BS1)				Prepared: 08/09/18 Analyzed: 08/10/18						
tert-Amyl Methyl Ether (TAME)	**17.3**	0.30	ug/L	20		86.4	70-130			
Benzene	**17.0**	0.20	ug/L	20		85.0	75-125			
tert-Butyl alcohol (TBA)	**88.2**	7.0	ug/L	100		88.2	70-130			
Diisopropyl ether (DIPE)	**17.0**	0.50	ug/L	20		85.0	70-130			
Ethylbenzene	**19.0**	0.20	ug/L	20		94.9	75-125			
Ethyl-tert-Butyl Ether (ETBE)	**17.3**	0.40	ug/L	20		86.4	70-130			
Gasoline Range Organics (GRO)	**458**	40	ug/L	500		91.6	70-130			
Methyl-tert-Butyl Ether (MTBE)	**35.7**	0.40	ug/L	40		89.2	70-135			
Toluene	**19.1**	0.30	ug/L	20		95.6	75-125			
o-Xylene	**19.1**	0.30	ug/L	20		95.4	75-125			
m,p-Xylenes	**39.5**	0.40	ug/L	40		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	*52.5*		*ug/L*	*50*		*105*	*70-140*			
Surrogate: Dibromofluoromethane	*45.7*		*ug/L*	*50*		*91.3*	*70-140*			
Surrogate: Toluene-d8	*53.2*		*ug/L*	*50*		*106*	*70-140*			
Matrix Spike (B8H0906-MS1)			**Source: 8H06016-01**	Prepared & Analyzed: 08/09/18						
tert-Amyl Methyl Ether (TAME)	**20.8**	0.30	ug/L	20	<2.0	104	70-130			
Benzene	**16.7**	0.20	ug/L	20	<0.50	83.4	70-130			
tert-Butyl alcohol (TBA)	**129**	7.0	ug/L	100	<10	129	70-130			
Diisopropyl ether (DIPE)	**18.3**	0.50	ug/L	20	<2.0	91.7	70-130			
Ethylbenzene	**17.9**	0.20	ug/L	20	<0.50	89.4	70-130			
Ethyl-tert-Butyl Ether (ETBE)	**19.5**	0.40	ug/L	20	<2.0	97.6	70-130			
Methyl-tert-Butyl Ether (MTBE)	**42.8**	0.40	ug/L	40	<2.0	107	70-130			
Toluene	**18.2**	0.30	ug/L	20	<0.50	90.8	70-130			
o-Xylene	**18.4**	0.30	ug/L	20	<0.50	91.9	70-130			
m,p-Xylenes	**37.0**	0.40	ug/L	40	<1.0	92.6	70-130			
Surrogate: 4-Bromofluorobenzene	*51.8*		*ug/L*	*50*		*104*	*70-140*			
Surrogate: Dibromofluoromethane	*47.3*		*ug/L*	*50*		*94.6*	*70-140*			
Surrogate: Toluene-d8	*51.2*		*ug/L*	*50*		*102*	*70-140*			
Matrix Spike Dup (B8H0906-MSD1)			**Source: 8H06016-01**	Prepared & Analyzed: 08/09/18						

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
Batch B8H0906 - EPA 5030B										
tert-Amyl Methyl Ether (TAME)	**18.8**	0.30	ug/L	20	<2.0	94.0	70-130	10.0	30	
Benzene	**16.3**	0.20	ug/L	20	<0.50	81.6	70-130	2.18	30	
tert-Butyl alcohol (TBA)	**118**	7.0	ug/L	100	<10	118	70-130	8.91	30	
Diisopropyl ether (DIPE)	**17.3**	0.50	ug/L	20	<2.0	86.3	70-130	6.07	30	
Ethylbenzene	**17.4**	0.20	ug/L	20	<0.50	86.8	70-130	2.95	30	
Ethyl-tert-Butyl Ether (ETBE)	**18.1**	0.40	ug/L	20	<2.0	90.4	70-130	7.61	30	
Methyl-tert-Butyl Ether (MTBE)	**39.2**	0.40	ug/L	40	<2.0	98.0	70-130	8.78	30	
Toluene	**17.9**	0.30	ug/L	20	<0.50	89.6	70-130	1.39	30	
o-Xylene	**17.3**	0.30	ug/L	20	<0.50	86.6	70-130	5.94	30	
m,p-Xylenes	**35.3**	0.40	ug/L	40	<1.0	88.3	70-130	4.75	30	
Surrogate: 4-Bromofluorobenzene	*51.1*		*ug/L*	*50*		*102*	*70-140*			
Surrogate: Dibromofluoromethane	*46.3*		*ug/L*	*50*		*92.5*	*70-140*			
Surrogate: Toluene-d8	*52.4*		*ug/L*	*50*		*105*	*70-140*			
Diesel Range Organics by GC/FID - Quality Control										
Batch B8H0901 - EPA 3510C										
Blank (B8H0901-BLK1)				Prepared: 08/09/18 Analyzed: 08/13/18						
Diesel Range Organics as Diesel	<60	60	ug/L							
Surrogate: o-Terphenyl	*39.4*		*ug/L*	*40*		*98.6*	*50-150*			
LCS (B8H0901-BS1)				Prepared: 08/09/18 Analyzed: 08/13/18						
Diesel Range Organics as Diesel	**636**	60	ug/L	800		79.5	75-125		30	
Surrogate: o-Terphenyl	*50.0*		*ug/L*	*40*		*125*	*50-150*			
LCS Dup (B8H0901-BSD1)				Prepared: 08/09/18 Analyzed: 08/13/18						
Diesel Range Organics as Diesel	**666**	60	ug/L	800		83.2	75-125	4.63	30	
Surrogate: o-Terphenyl	*50.5*		*ug/L*	*40*		*126*	*50-150*			
Dissolved Metals by ICP Atomic Emission Spectroscopy - Quality Control										
Batch B8H0910 - EPA 200.7										
Blank (B8H0910-BLK1)				Prepared: 08/09/18 Analyzed: 08/10/18						
Copper	<0.014	0.014	mg/L							
LCS (B8H0910-BS1)				Prepared: 08/09/18 Analyzed: 08/10/18						
Copper	**0.981**	0.014	mg/L	1.0		98.1	80-120		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 Quarterly

AA Project No: A5332727
Date Received: 08/06/18
Date Reported: 08/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Dissolved Metals by ICP Atomic Emission Spectroscopy - Quality Control										
Batch B8H0910 - EPA 200.7										
LCS Dup (B8H0910-BSD1)				Prepared: 08/09/18			Analyzed: 08/10/18			
Copper	**1.00**	0.014	mg/L	1.0		100	80-120	2.25	20	
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control										
Batch B8H0910 - EPA 200.7										
Blank (B8H0910-BLK1)				Prepared: 08/09/18			Analyzed: 08/10/18			
Arsenic	<0.0060	0.0060	mg/L							
Copper	<0.014	0.014	mg/L							
LCS (B8H0910-BS1)				Prepared: 08/09/18			Analyzed: 08/10/18			
Arsenic	**1.02**	0.0060	mg/L	1.0		102	80-120		20	
Copper	**0.981**	0.014	mg/L	1.0		98.1	80-120		20	
LCS Dup (B8H0910-BSD1)				Prepared: 08/09/18			Analyzed: 08/10/18			
Arsenic	**1.04**	0.0060	mg/L	1.0		104	80-120	2.23	20	
Copper	**1.00**	0.014	mg/L	1.0		100	80-120	2.25	20	
Matrix Spike (B8H0910-MS1)		**Source: 8H06016-01**		Prepared: 08/09/18			Analyzed: 08/10/18			
Arsenic	**1.01**	0.0060	mg/L	1.0	<0.0070	101	75-125		20	
Copper	**1.09**	0.014	mg/L	1.0	<0.014	109	75-125		20	
Matrix Spike Dup (B8H0910-MSD1)		**Source: 8H06016-01**		Prepared: 08/09/18			Analyzed: 08/10/18			
Arsenic	**1.06**	0.0060	mg/L	1.0	<0.0070	106	75-125	5.03	20	
Copper	**1.15**	0.014	mg/L	1.0	<0.014	115	75-125	5.98	20	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5332727
Project No:	04-NDLA-013	**Date Received:**	08/06/18
Project Name:	DFSP Norwalk GWETS NPDES Quarterly	**Date Reported:**	08/27/18

Special Notes

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

Viorel Vasile
Operations Manager

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Ordered By

American Analytics
9765 Eton Avenue
Chatsworth, CA 91311-4306

Number of Pages	**7**
Date Received	**08/07/2018**
Date Reported	**08/14/2018**

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

Job Number	Order Date	Client
93537	08/07/2018	AA

Project ID: A5332727/8H06016
Project Name: PO# SUB03610-A5332727

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

AETL

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311
Tel: 818-990-5547 FAX: 818-998-7258

93537

A.A. COC No.: 70052045

Page 1 of 1

Client: AMERICAN ANALYTICS | Project Name / No.: A532727 / 8406016 | Sampler's Name:

Project Manager: Vicent Vasile | Site Address: | Sampler's Signature:

Phone: | City: | P.O. No.: SUBCONTRACT TO - A532727

Fax: | State & Zip: | Quote No.:

TAT Turnaround Codes **

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

ANALYSIS REQUESTED (Test Name)

Please enter the TAT Turnaround Codes ** below

Client I.D.	A.A. No.	Date	Time	Sample Matrix	No. of Cont	BOD	MBAS	Tot. Phenols	Special Instructions
8406016-01	93537.01	8/6/18	10A	Water	2	X	X	X	W SM 5210B SM 5540C EPA-420.1 Normal TAT Thank you

Relinquished by	Date	Time	Received by
J. Umana	08/07/18	0910	Adin
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by

A.A. COC 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: American Analy.
Project Name:
AETL Job Number: 93537
Date Received: 08/07/18 Received by: Austin
Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.3°, No 2: ____, No 3: ____
Type of sample containers: ☐ VOA, ☒ Glass bottles, ☐ ☐ Wide mouth jars, ☐ ☒ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify): ____
How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice
☐ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, MeOH
☐ Other (Specify): H_2SO_4

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

Explain all "No" answers for above questions:

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Project ID: A5332727/8H06016
Date Received 08/07/2018
Date Reported 08/14/2018

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

Job Number	Order Date	Client
93537	08/07/2018	AA

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 1 samples with the following specification on 08/07/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93537.01	8H06016-01	08/06/2018	Aqueous	2

Method ^ Submethod	Req Date	Priority	TAT	Units
420.1	08/14/2018	2	Normal	mg/L
SM-5540C	08/14/2018	2	Normal	mg/L
SM5210B	08/14/2018	2	Normal	mg/L

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

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

Project ID: A5332727/8H06016
Project Name: PO# SUB03610-A5332727

AETL Job Number	Submitted	Client
93537	08/07/2018	AA

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

QC Batch No: PH080918-1

Our Lab I.D.			Method Blank	93537.01			
Client Sample I.D.				8H06016-01			
Date Sampled				08/06/2018			
Date Prepared			08/09/2018	08/09/2018			
Preparation Method			420.1	420.1			
Date Analyzed			08/09/2018	08/09/2018			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Phenolic compounds as phenol	0.15	0.30	ND	ND			

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ANALYTICAL RESULTS

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Attn: Viorel Vasile
Page: **3**

Project ID: A5332727/8H06016
Project Name: PO# SUB03610-A5332727

AETL Job Number	Submitted	Client
93537	08/07/2018	AA

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

QC Batch No: MB080718-1

Our Lab I.D.			Method Blank	**93537.01**			
Client Sample I.D.				8H06016-01			
Date Sampled				08/06/2018			
Date Prepared			08/08/2018	08/08/2018			
Preparation Method			SM5540C	SM5540C			
Date Analyzed			08/08/2018	08/08/2018			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Surfactants (MBAS)	0.05	0.05	ND	ND			

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ANALYTICAL RESULTS

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Page: **4**

Project ID: A5332727/8H06016
Project Name: PO# SUB03610-A5332727

AETL Job Number	Submitted	Client
93537	08/07/2018	AA

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

QC Batch No: BO080818-1

Our Lab I.D.			Method Blank	**93537.01**			
Client Sample I.D.				8H06016-01			
Date Sampled				08/06/2018			
Date Prepared			08/08/2018	08/08/2018			
Preparation Method			SM5210B	SM5210B			
Date Analyzed			08/13/2018	08/13/2018			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Biochemical Oxygen Demand (BOD)	5.0	5.0	ND	ND			

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QUALITY CONTROL RESULTS

Ordered By

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

Project ID: A5332727/8H06016
Project Name: PO# SUB03610-A5332727

AETL Job Number	Submitted	Client
93537	08/07/2018	AA

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

QC Batch No: PH080918-1; Dup or Spiked Sample: 93537.01; LCS: Clean Water; QC Prepared: 08/09/2018; QC Analyzed: 08/09/2018; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Phenol	0.00	0.500	0.440	88.0	0.500	0.439	87.8	<1	80-120	<15

QC Batch No: PH080918-1; Dup or Spiked Sample: 93537.01; LCS: Clean Water; QC Prepared: 08/09/2018; QC Analyzed: 08/09/2018; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Phenol	0.500	0.436	87.2	0.500	0.456	91.2	4.5	80-120	<20	

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QUALITY CONTROL RESULTS

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

Project ID: A5332727/8H06016
Project Name: PO# SUB03610-A5332727

AETL Job Number	Submitted	Client
93537	08/07/2018	AA

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

QC Batch No: MB080718-1; Dup or Spiked Sample: 93537.01; LCS: Clean Water; QC Prepared: 08/08/2018; QC Analyzed: 08/08/2018; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Surfactants (MBAS)	0.00	0.500	0.480	96.0	0.500	0.486	97.2	1.2	80-120	<15

QC Batch No: MB080718-1; Dup or Spiked Sample: 93537.01; LCS: Clean Water; QC Prepared: 08/08/2018; QC Analyzed: 08/08/2018; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Surfactants (MBAS)	0.500	0.472	94.4	0.500	0.460	92.0	2.6	80-120	<15	

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QUALITY CONTROL RESULTS

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

Project ID: A5332727/8H06016
Project Name: PO# SUB03610-A5332727

AETL Job Number	Submitted	Client
93537	08/07/2018	AA

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

QC Batch No: BO080818-1; Dup or Spiked Sample: 93537.01; LCS: Clean Water; LCS Prepared: 08/08/2018; LCS Analyzed: 08/13/2018; Units: mg/L

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

QC Batch No: BO080818-1; Dup or Spiked Sample: 93537.01; LCS: Clean Water; LCS Prepared: 08/08/2018; LCS Analyzed: 08/13/2018; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Biochemical Oxygen Demand (BOD)	198	186	93.9	198	169	85.6	9.2	80-120	<15	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

16165

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

TAT Turnaround Codes **

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

ANALYSIS REQUESTED (Test Name)

Please enter the TAT Turnaround Codes ** below

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	TPHd 8015M	TPHg/MTBE/TBA 8260B	Arsenic 200.7	TDS, TSS, Turbidity	BOD5 20 deg.C	Oil & Grease	Settleable Solids	Sulfides, Phenols	Residual Chlorine, Copper	Methylene Blue Active Substances	Special Instructions
Effluent	8H06016-01	8-6-18	1059	Water	16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Report J-Flags
Effluent-Dup	-02	8-6-18	1106	Water	4	✓	✓									

PRIORITY
SH
Rush Hrs
Date 8/6/18 Time 1515 Sign

Relinquished by	Date	Time	Received by
Glenn Andrasko	8-6-18	1140	J. Umana
J. Umana	8-6-18	1430	
Relinquished by	Date	Time	Received by

A5332729/8H06016

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

AMERICAN ANALYTICS

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California 91311
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September 12, 2018

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

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

A5332746 / 8H16004

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/15/18 16:02 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332746
Date Received: 08/15/18
Date Reported: 09/12/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
Arsenic Total EPA 200.7					
Effluent	8H16004-01	Water	5	08/13/18 11:30	08/15/18 16:02

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: A5332746
Date Received: 08/15/18
Date Reported: 09/12/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
Arsenic Total EPA 200.7 (EPA 200.7)									
8H16004-01	Effluent	08/13/18	08/20/18	08/21/18	1	<0.0060	mg/L	0.006	0.007

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332746
Date Received: 08/15/18
Date Reported: 09/12/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control										
Batch B8H2023 - EPA 200.7										
Blank (B8H2023-BLK1)				Prepared: 08/20/18			Analyzed: 08/21/18			
Arsenic	<0.0060	0.0060	mg/L							
LCS (B8H2023-BS1)				Prepared: 08/20/18			Analyzed: 08/21/18			
Arsenic	**1.04**	0.0060	mg/L	1.0		104	80-120		20	
LCS Dup (B8H2023-BSD1)				Prepared: 08/20/18			Analyzed: 08/21/18			
Arsenic	**1.05**	0.0060	mg/L	1.0		105	80-120	0.763	20	
Matrix Spike (B8H2023-MS1)			**Source: 8H16004-01**	Prepared: 08/20/18			Analyzed: 08/21/18			
Arsenic	**0.875**	0.0060	mg/L	1.0	<0.0070	87.5	75-125		20	
Matrix Spike Dup (B8H2023-MSD1)			**Source: 8H16004-01**	Prepared: 08/20/18			Analyzed: 08/21/18			
Arsenic	**0.928**	0.0060	mg/L	1.0	<0.0070	92.8	75-125	5.84	20	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5332746
Project No:	04-NDLA-013	**Date Received:**	08/15/18
Project Name:	DFSP Norwalk GWETS NPDES Monthly	**Date Reported:**	09/12/18

Special Notes

Viorel Vasile
Operations Manager

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

16225

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

Client: APEX/The Source Group, Inc.	**Project Name / No.:** DFSP - Norwalk / 091-NDLA-018	**Sampler's Name:** Glenn Androsko	
Project Manager: Neil Irish	**Site Address:** 15306 Norwalk Blvd	**Sampler's Signature:** Glenn Androsko	
Phone: 562-597-1055	**City:** Norwalk	**P.O. No.:**	
Fax: 569-597-1070	**State & Zip:** CA 90650	**Quote No.:**	

TAT Turnaround Codes **

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

ANALYSIS REQUESTED (Test Name)

Please enter the TAT Turnaround Codes ** below

Client I.D.	A.A. No.	Date	Time	Sample Matrix	No. of Cont	TPHd 8015M	TPHg/MTBE/TBA 8260B	Arsenic 200.7	Special Instructions
Effluent	8H16004-01	8-13-18	1130	Water	1			✓	Report J-Flags

REVIEWED Time 0830 Date 8/16/18 Sign: TAT 10 days

A5332746/8H16004

Relinquished by: Glenn Androsko	Date: 8-15-18	Time: 1030	Received by: J. Umana
Relinquished by: J. Umana	Date: 8-15-18	Time: 1602	Received by:
Relinquished by:	Date:	Time:	Received by:

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

AMERICAN ANALYTICS

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

September 27, 2018

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

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

A5332789 / 8I13010

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/13/18 16:52 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332789
Date Received: 09/13/18
Date Reported: 09/27/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B TPHGASOLINEBTEXOXY					
Effluent	8I13010-01	Water	5	09/13/18 10:21	09/13/18 16:52
Arsenic Total EPA 200.7					
Effluent	8I13010-01	Water	5	09/13/18 10:21	09/13/18 16:52
Diesel Range Organics 8015M					
Effluent	8I13010-01	Water	5	09/13/18 10:21	09/13/18 16:52

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5332789
Project No:	04-NDLA-013	**Date Received:**	09/13/18
Project Name:	DFSP Norwalk GWETS NPDES Monthly	**Date Reported:**	09/27/18
Method:	TPHG/BTEX/Oxygenates by GC/MS	**Units:**	ug/L

Date Sampled:	09/13/18		
Date Prepared:	09/24/18		
Date Analyzed:	09/24/18		
AA ID No:	8I13010-01		
Client ID No:	Effluent		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL
8260B TPHGASOLINEBTEXOXY (EPA 8260B)			
tert-Butyl alcohol (TBA)	<7.0	7.0	10
Gasoline Range Organics (GRO)	<40	40	100
Methyl-tert-Butyl Ether (MTBE)	<0.40	0.40	2.0

Surrogates		**%REC Limits**
4-Bromofluorobenzene	110%	70-140
Dibromofluoromethane	121%	70-140
Toluene-d8	103%	70-140

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5332789
Project No:	04-NDLA-013	**Date Received:**	09/13/18
Project Name:	DFSP Norwalk GWETS NPDES Monthly	**Date Reported:**	09/27/18
Method:	Diesel Range Organics by GC/FID	**Units:**	ug/L

Date Sampled:	09/13/18		
Date Prepared:	09/17/18		
Date Analyzed:	09/18/18		
AA ID No:	8I13010-01		
Client ID No:	Effluent		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL
Diesel Range Organics 8015M (EPA 8015M)			
Diesel Range Organics as Diesel	<60	60	100

Surrogates		**%REC Limits**
o-Terphenyl	63%	50-150

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332789
Date Received: 09/13/18
Date Reported: 09/27/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
Arsenic Total EPA 200.7 (EPA 200.7)									
8I13010-01	Effluent	09/13/18	09/18/18	09/18/18	1	<0.0060	mg/L	0.006	0.007

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332789
Date Received: 09/13/18
Date Reported: 09/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
Batch B8I2423 - EPA 5030B										
Blank (B8I2423-BLK1)				Prepared & Analyzed: 09/24/18						
tert-Amyl Methyl Ether (TAME)	<0.30	0.30	ug/L							
Benzene	<0.20	0.20	ug/L							
tert-Butyl alcohol (TBA)	<7.0	7.0	ug/L							
Diisopropyl ether (DIPE)	<0.50	0.50	ug/L							
Ethylbenzene	<0.20	0.20	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	<0.40	0.40	ug/L							
Gasoline Range Organics (GRO)	<40	40	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<0.40	0.40	ug/L							
Toluene	<0.30	0.30	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.40	0.40	ug/L							
Surrogate: 4-Bromofluorobenzene	*50.6*		*ug/L*	*50*		*101*	*70-140*			
Surrogate: Dibromofluoromethane	*58.6*		*ug/L*	*50*		*117*	*70-140*			
Surrogate: Toluene-d8	*48.2*		*ug/L*	*50*		*96.5*	*70-140*			
LCS (B8I2423-BS1)				Prepared: 09/24/18 Analyzed: 09/25/18						
tert-Amyl Methyl Ether (TAME)	**20.5**	0.30	ug/L	20		102	70-130			
Benzene	**21.5**	0.20	ug/L	20		107	75-125			
tert-Butyl alcohol (TBA)	**93.7**	7.0	ug/L	100		93.7	70-130			
Diisopropyl ether (DIPE)	**23.6**	0.50	ug/L	20		118	70-130			
Ethylbenzene	**23.2**	0.20	ug/L	20		116	75-125			
Ethyl-tert-Butyl Ether (ETBE)	**22.0**	0.40	ug/L	20		110	70-130			
Gasoline Range Organics (GRO)	**498**	40	ug/L	500		99.6	70-130			
Methyl-tert-Butyl Ether (MTBE)	**41.2**	0.40	ug/L	40		103	70-135			
Toluene	**20.7**	0.30	ug/L	20		104	75-125			
o-Xylene	**21.1**	0.30	ug/L	20		105	75-125			
m,p-Xylenes	**42.2**	0.40	ug/L	40		106	70-130			
Surrogate: 4-Bromofluorobenzene	*55.4*		*ug/L*	*50*		*111*	*70-140*			
Surrogate: Dibromofluoromethane	*53.2*		*ug/L*	*50*		*106*	*70-140*			
Surrogate: Toluene-d8	*54.8*		*ug/L*	*50*		*110*	*70-140*			
Matrix Spike (B8I2423-MS1)		**Source: 8I14001-01**		Prepared & Analyzed: 09/24/18						
tert-Amyl Methyl Ether (TAME)	**20.0**	0.30	ug/L	20		100	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: A5332789
Date Received: 09/13/18
Date Reported: 09/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
Batch B8I2423 - EPA 5030B										
Matrix Spike (B8I2423-MS1) Continued	**Source: 8I14001-01**			Prepared & Analyzed: 09/24/18						
Benzene	**19.6**	0.20	ug/L	20		97.8	70-130			
tert-Butyl alcohol (TBA)	**99.6**	7.0	ug/L	100		99.6	70-130			
Diisopropyl ether (DIPE)	**21.1**	0.50	ug/L	20		105	70-130			
Ethylbenzene	**21.6**	0.20	ug/L	20		108	70-130			
Ethyl-tert-Butyl Ether (ETBE)	**20.6**	0.40	ug/L	20		103	70-130			
Methyl-tert-Butyl Ether (MTBE)	**41.3**	0.40	ug/L	40		103	70-130			
Toluene	**19.6**	0.30	ug/L	20		98.2	70-130			
o-Xylene	**20.6**	0.30	ug/L	20		103	70-130			
m,p-Xylenes	**40.5**	0.40	ug/L	40		101	70-130			
Surrogate: 4-Bromofluorobenzene	*52.7*		*ug/L*	*50*		*105*	*70-140*			
Surrogate: Dibromofluoromethane	*50.9*		*ug/L*	*50*		*102*	*70-140*			
Surrogate: Toluene-d8	*51.6*		*ug/L*	*50*		*103*	*70-140*			
Matrix Spike Dup (B8I2423-MSD1)	**Source: 8I14001-01**			Prepared & Analyzed: 09/24/18						
tert-Amyl Methyl Ether (TAME)	**19.8**	0.30	ug/L	20		99.0	70-130	1.01	30	
Benzene	**19.2**	0.20	ug/L	20		95.8	70-130	1.96	30	
tert-Butyl alcohol (TBA)	**105**	7.0	ug/L	100		105	70-130	5.28	30	
Diisopropyl ether (DIPE)	**20.7**	0.50	ug/L	20		104	70-130	1.68	30	
Ethylbenzene	**20.7**	0.20	ug/L	20		104	70-130	4.30	30	
Ethyl-tert-Butyl Ether (ETBE)	**20.2**	0.40	ug/L	20		101	70-130	1.76	30	
Methyl-tert-Butyl Ether (MTBE)	**40.7**	0.40	ug/L	40		102	70-130	1.51	30	
Toluene	**19.4**	0.30	ug/L	20		97.1	70-130	1.08	30	
o-Xylene	**19.8**	0.30	ug/L	20		98.8	70-130	4.41	30	
m,p-Xylenes	**39.2**	0.40	ug/L	40		98.0	70-130	3.16	30	
Surrogate: 4-Bromofluorobenzene	*51.7*		*ug/L*	*50*		*103*	*70-140*			
Surrogate: Dibromofluoromethane	*52.2*		*ug/L*	*50*		*104*	*70-140*			
Surrogate: Toluene-d8	*51.1*		*ug/L*	*50*		*102*	*70-140*			
Diesel Range Organics by GC/FID - Quality Control										
Batch B8I1717 - EPA 3510C										
Blank (B8I1717-BLK1)				Prepared & Analyzed: 09/17/18						
Diesel Range Organics as Diesel	<60	60	ug/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: A5332789
Date Received: 09/13/18
Date Reported: 09/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Diesel Range Organics by GC/FID - Quality Control										
Batch B8I1717 - EPA 3510C										
Blank (B8I1717-BLK1) Continued				Prepared & Analyzed: 09/17/18						
Surrogate: o-Terphenyl	*30.7*		*ug/L*	*40*		*76.7*	*50-150*			
LCS (B8I1717-BS1)				Prepared: 09/17/18 Analyzed: 09/18/18						
Diesel Range Organics as Diesel	**613**	60	ug/L	800		76.7	75-125		30	
Surrogate: o-Terphenyl	*36.8*		*ug/L*	*40*		*92.0*	*50-150*			
LCS Dup (B8I1717-BSD1)				Prepared: 09/17/18 Analyzed: 09/18/18						
Diesel Range Organics as Diesel	**621**	60	ug/L	800		77.6	75-125	1.16	30	
Surrogate: o-Terphenyl	*38.2*		*ug/L*	*40*		*95.4*	*50-150*			
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control										
Batch B8I1827 - EPA 200.7										
Blank (B8I1827-BLK1)				Prepared & Analyzed: 09/18/18						
Arsenic	<0.0060	0.0060	mg/L							
LCS (B8I1827-BS1)				Prepared & Analyzed: 09/18/18						
Arsenic	**1.01**	0.0060	mg/L	1.0		101	80-120		20	
LCS Dup (B8I1827-BSD1)				Prepared & Analyzed: 09/18/18						
Arsenic	**1.03**	0.0060	mg/L	1.0		103	80-120	2.45	20	
Duplicate (B8I1827-DUP1)		**Source: 8I13010-01**		Prepared & Analyzed: 09/18/18						
Arsenic	**<0.0060**	0.0060	mg/L		<0.0070				30	
Matrix Spike (B8I1827-MS1)		**Source: 8I13011-01**		Prepared & Analyzed: 09/18/18						
Arsenic	**1.04**	0.0060	mg/L	1.0	0.0245	101	75-125		20	
Matrix Spike Dup (B8I1827-MSD1)		**Source: 8I13011-01**		Prepared & Analyzed: 09/18/18						
Arsenic	**1.06**	0.0060	mg/L	1.0	0.0245	104	75-125	2.19	20	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5332789
Project No:	04-NDLA-013	**Date Received:**	09/13/18
Project Name:	DFSP Norwalk GWETS NPDES Monthly	**Date Reported:**	09/27/18

Special Notes

Viorel Vasile
Operations Manager

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

164662

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

TAT Turnaround Codes **

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

ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	TPHd 8015M	TPHg/MTBE/TBA 8260B	Arsenic 200.7	Special Instructions
						Please enter the TAT Turnaround Codes ** below			
Effluent	8I13010-01	9-13-18	1021	Water	5	✓	✓	✓	Report J-Flags

REVIEWED
Date 9/13/18 Time 1730
TAT IN days Sign:

A533789/8I13010

Relinquished by: Glenn Androsko	Date: 9-13-18	Time: 13:30	Received by:
Relinquished by:	Date: 9-13-18	Time: 16:52	Received by:
Relinquished by:	Date:	Time:	Received by:

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

APPENDIX B

Laboratory ELAP Certification

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

Interim

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

CERTIFICATE OF ENVIRONMENTAL ACCREDITATION

Is hereby granted to

American Analytics Inc.

Stationary Laboratory

9765 Eton Avenue

Chatsworth, CA 91311

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

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

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

Certificate No.: **1471**

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

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

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

APPENDIX C

Report Certification

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

October 5, 2018

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 3* of calendar year 2018 for the Defense Fuel Support Point (DFSP) Norwalk facility in Norwalk, California.

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

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

Sincerely,

William Y Potter
Digitally signed by POTTER.WILLIAM.Y.1394566272
Date: 2018.10.05 13:58:12 -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.