WORK PLAN ADDENDUM

BP #11104 - 1716 Webster Street,
Alameda, Alameda County, California 94501

Fuel Leak Case No. R00003140
Global ID # T10000005974

Submitted to:

Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Prepared by:

ALFA Environmental Remediation Services, Inc.
9000 Crow Canyon Road, Ste. S
Danville, CA 94506

(925) 308-9200 (916) 376-9159 (559) 408-5510
Fax: (888) 802-1634

October 24, 2014

Delong Liu
2501 North Main Street
Walnut Creek, CA 94597

October 24, 2014

Re: Work Plan Addendum
Former BP Service Station No. 11104
1716 Webster Street
Alameda, California
ACEH Case #RO00003140

"I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct."

Submitted by,

Delong Liu

President.

Alfa Environmental Remediation Services, Inc.
9000 Crow Canyon Rd. Suite S
Danville CA 94506
(925) 308-9200 (916) 376-9159 (559) 408-5510
Fax: (888) 802-1634

October 24, 2014 via e-mail: delongliu@yahoo.com
mark.detterman@acgov.org

Mr. Delong Liu
DeLong Oil, Inc.
2501 North Main Street
Walnut Creek, CA 94597

RE: Work Plan Addendum - Fuel Leak Case No. R00003140; (Global ID # T10000005974); Delong Oil, 1716 Webster Street, Alameda, CA 94501

Dear Mr. Delong,

Please see attached the " Work Plan Addendum" requested on September 16, 2014 by Mr. Mark E. Detterman, PG, CEG, Senior Hazardous Materials Specialist with the Alameda County Environmental Health Services (ACEH).

This Work Plan Addendum was prepared in a manner consistent with the level of care and skill ordinarily exercised by professional geologists and environmental scientists.

This Report will be uploaded to ACEH and Geotracker data bases.

ALFA ENVIRONMENTAL REMEDIATION SERVICES, INC.

REGISTERED GEOLOGIST
VALENTIN CONSTANTINESCU
No. 7503
EXP. 7/31/2015
STATE OF CALIFORNIA

Valentin Constantinescu, P.G. #7503 exp. 7/31/2015
Senior Project Manager

Work Plan Addendum
1716 Webster Street, Alameda, CA 94501

On September 16, 2014, Mr. Mark E. Detterman, PG, CEG, Senior Hazardous Materials Specialist with the Alameda County Environmental Health (ACEH) requested a Work Plan Addendum be submitted to address the following technical comments:

"1. Condition of Wells MW-1 and RW-1. The referenced report included photographs of the surface completion of wells MW-1 and RW-1. It appears that surface pavements around the wells are currently in a state of good repair; however, photographs taken on June 6, 2014 by Broadbent & Associates indicate otherwise (attached). The June 10, 2014 Notice to Comply letter requested multiple lines of evidence that the wells are suitable for monitoring and sampling at the site. These included the tagging of total well depths to determine if sediment has partly or entirely filled the well bore, downhole camera survey results as appropriate, and a resurvey of repaired wells to Geotracker standards to validate well elevations and locations. If otherwise, the wells will also require destruction and replacement by Delong Oil."

The photographs taken on by *Broadbent & Associates on June 6, 2014 (see below - copied from ACEH Directive Letter) show the surface completion of wells MW-1 and RW-1.*

1716 Webster Street, Alameda MW-1; June 6, 2014

1716 Webster Street, Alameda RW-1; June 6, 2014

This was also documented in our *Site Status Report and Data Gap Work Plan,* dated July 31 , 2014, and in a recent site visit on October 2, 2014

MW-1

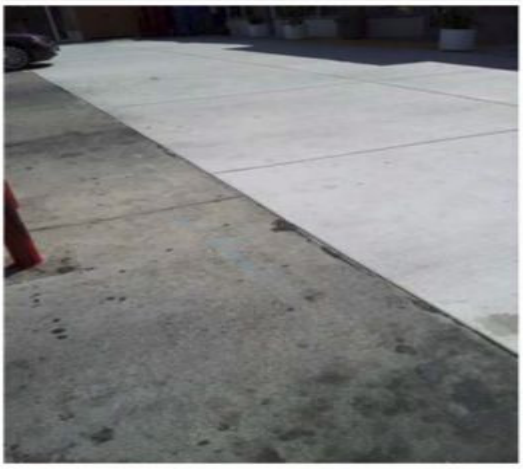
MW-1

RW-1 - October 2, 2014

RW-1 *"Christy Box"* was damaged and needs to be replaced.

The other photographs taken by Broadbent & Associates on June 6, 2014 (see below - copied from ACEH Directive Letter) and on October 2, 2014 show wells MW-2 and MW-3 were damaged during grading and construction activities and covered by concrete.

Damaged Monitoring Well MW-2



1716 Webster Street, Alameda MW-2; June 6, 2014

Groundwater Monitoring Well MW-3
(probably belwo the solid waste stoarge area)

Groundwater Monitoring Well designated MW-3 (its location shown above and on the Site Plan) was damaged and covered by concrete. Based on maps, photographs taken, and site measurements, MW-3 was located below the solid waste storage shown on the above photograph.

For the two existing wells (RW-1 and MW-1) will be done:

1. Tagging of total well depths to determine if sediment has partly or entirely filled the well bore.

2. If necessary, downhole camera survey

3. If necessary, resurvey of repaired wells RW-1 and MW-1 to *Geotracker* standards to validate well elevations and locations. If otherwise, the wells RW-1 and MW-1 will be destroyed and replaced under permit.

As mentioned in the *Site Status Report and Data Gap Work Plan*, dated July 31 , 2014, the groundwater monitoring wells designated MW-2 and MW-3 were damaged and covered by concrete. Based on a thorough review of existing maps and photographs taken, it seems their approximate location is as depicted on the attached Site Map.

As mentioned in our *Site Status Report*, the two damaged groundwater monitoring wells designated MW-2 and MW-3 will be destroyed under permit. The location of the wells MW-2 and MW-3 is not precisely known; therefore, prior to destroying wells MW-2 and MW-3 now covered by concrete, a Professional Land Surveyor (PLS) will determine their exact locations. The exact coordinates (latitude and longitude) of MW-2 and MW-3 was measured on November 7, 2001 by a licensed surveyor.

"2. Request for Revised Figure - Based on the figure included in the referenced work plan, ACEH has concerns with the proposed scope of work as follows:

***a. Placement of Bores** - The work plan proposed the installation of 10 soil bores around the location of the former waste oil underground storage tank (UST); however, the figure placed the location of the former waste oil UST at a new location in the southeastern corner of the site. This is at least the third location depicted in site figures (see attached figures); thus ACEH cannot determine the appropriateness of*

the bore locations as this may cause the bores to be installed at an incorrect location that would not adequately characterize the former waste oil UST location.

***b. Accuracy of Figure** - Part of the inability to determine the appropriateness of the bore locations, may be associated with the accuracy of the figure. The new market building is indicated to be 30 feet in depth north to south; however, the bar scale associated with figure indicates the north to south dimension should be approximately 11 feet (1 foot to 1/8 inch). Using the 30 foot building depth suggests the former UST was located approximately 53 feet north of the southern property line, whereas previous figures indicate it was between 17 and 22 feet. Photographs available to ACEH indicate the former waste oil UST was located to the east of the former service station building, towards the southern end.*

*c. **Location of Well MW-3** - The location of lost well MW-3 has been placed in two different locations relative to the former waste oil UST (see attached figures previously discussed). This affects the ability to relocate the well for the proposed well destruction under permit. This may also affect well MW-2, also proposed to be destroyed, should the surface expression of the well have also been lost. The use of Geotracker survey coordinates for both wells will assist in this effort for the figure and in the field."*

Well MW-3 is discussed in Section 1 and appears in a photograph taken during WOT removal (see above).

***"d. Request for Revised Figure** - As a consequence of these concerns, ACEH requests revisions to the figure, including the depiction of the outline of the former service station building in the background field of the figure (grayed out or other method to depict a former structure), in order to determine the appropriateness of the proposed scope of work prior to work approval. Please submit the revised figure in the requested work plan addendum by the date identified below."*

Based on a thorough review of existing maps, reports, historical aerial photographs, field measurements and photographs taken during WOT removal / excavation activities, photographs taken by Broadbent and attached to ADEH Directive Letter,

and our *Site Status Report* dated July 31 , 2014, a revised / corrected Site Plan was prepared - see attached Site Plan.

It should be noted, most of the former WOT was located beneath the existing convenience store. Approximately 30-40% of the former WOT area is still in an accessible area for soil borings in the northern-northwestern area of the former WOT (see attached Site Plan).

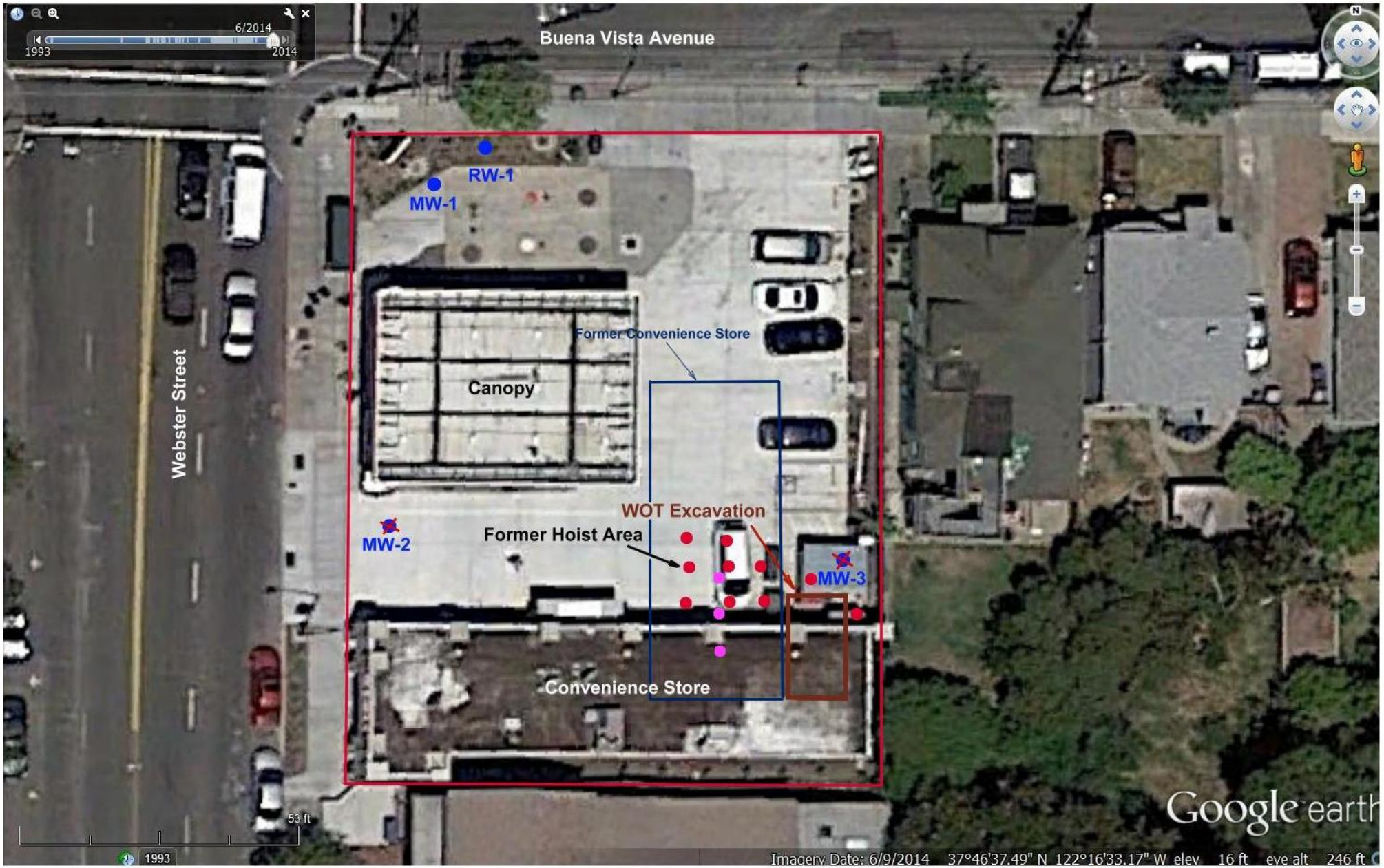
It should be also mentioned, contaminants were detected only in the grab groundwater sample in this northern area of the excavation at 18,200 micrograms per liter (µg/l) TPH Diesel and 46,200 µg/l TPH - Motor Oil. No holes were noted in the WOT removed in September 2013; therefore, possibly, the source of contaminants detected in the grab groundwater sample collected from the northern area of excavation, are the three (3) hoists (location shown on the attached Site Plan) also removed in September 2013. Therefore, we are proposing the ten (10) soil borings be located at those locations presented on the attached Site Map.

***"3. Analytical Documentation for Soil Export and Import Fill** - The referenced report documents the manifested disposal of 41 tons of surplus soil from the site; however, did not provide analytical reports to document disposal analytical sampling of the soil. ACEH is aware of stockpile sampling collected during the initial removal of the UST, but not for landfill disposal. Additionally, the June 10, 2014 Notice to Comply letter requested documentation of import fill characteristics. If recycled import fill was used, the letter requested documentation of the source and contaminant characterization of the fill in order to determine the contaminant quality of the imported fill. Please submit this data or propose additional subsurface characterization to collect the data in the requested work plan addendum, by the date identified below."*

According to Mr. Delong Liu, owner and Responsible Party, no soil was imported; no import fill.

Please see attached the laboratory reports required by landfill which document disposal of the 41 tons of surplus soil from the site.

FIGURES



LEGEND

- Groundwater Monitoring Well
- Damaged Well (covered by concrete)
- Former Hoist
- Proposed Soil Boring Location

N

SITE PLAN

PROPOSED SOIL BORING LOCATIONS

1716 WEBSTER STREET
ALAMEDA CALIFORNIA

FIGURE 1

Alfa Environmental Remediation Services, Inc.

Drawn by: LH

October 24, 2014

Soil Analytical Documents

Northern California ACCUTEST LABORATORIES

12/04/13

Technical Report for

Alfa Environmental

Alameda - Webster Street, Alameda, CA

7514

Accutest Job Number: C31126

Sampling Date: 11/26/13

Report to:

Alfa Environmental
9000 Crow Canyon Stes
Danville, CA 94506
val@alfaenv.com

ATTN: Val Constantinescu

Total number of pages in report: **51**

NELAP ACCREDITED TNI LABORATORY

James J. Rhudy
Lab Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Tony Vega 408-588-0200

Certifications: CA (08258CA) AZ (AZ0762) DoD ELAP (L-A-B L2242)

Sections: 1 2 3 4 5 6 7 8

Table of Contents

Sample Summary

Alfa Environmental

Job No: C31126

Alameda - Webster Street, Alameda, CA
Project No: 7514

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C31126-1	11/26/13	09:30	VC	11/26/13	SO	Soil	COMP 5
C31126-2	11/26/13	09:30	VC	11/26/13	SO	Soil	COMP 6
C31126-3	11/26/13	09:35	VC	11/26/13	SO	Soil	COMP 7
C31126-4	11/26/13	09:40	VC	11/26/13	SO	Soil	COMP 8
C31126-5	11/26/13	00:00	VC	11/26/13	SO	Soil	COMP (5-8)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: C31126
Account: Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA
Collected: 11/26/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C31126-5	**COMP (5-8)**					
TPH (C10-C28)		65.1	46	12	mg/kg	SW846 8015B M
TPH (> C28-C40)		424	92	23	mg/kg	SW846 8015B M
Chromium		30.0	0.93		mg/kg	SW846 6010B
Lead		117	1.9		mg/kg	SW846 6010B
Nickel		23.0	0.93		mg/kg	SW846 6010B
Zinc		159	1.9		mg/kg	SW846 6010B

Northern California ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	COMP (5-8)		
Lab Sample ID:	C31126-5	**Date Sampled:**	11/26/13
Matrix:	SO - Soil	**Date Received:**	11/26/13
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	Alameda - Webster Street, Alameda, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	L29034.D	1	11/27/13	XB	n/a	n/a	VL917
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	2000	500	ug/kg	
71-43-2	Benzene	ND	250	25	ug/kg	
108-86-1	Bromobenzene	ND	250	25	ug/kg	
74-97-5	Bromochloromethane	ND	250	25	ug/kg	
75-27-4	Bromodichloromethane	ND	250	25	ug/kg	
75-25-2	Bromoform	ND	250	25	ug/kg	
104-51-8	n-Butylbenzene	ND	250	25	ug/kg	
135-98-8	sec-Butylbenzene	ND	250	25	ug/kg	
98-06-6	tert-Butylbenzene	ND	250	25	ug/kg	
108-90-7	Chlorobenzene	ND	250	25	ug/kg	
75-00-3	Chloroethane	ND	250	50	ug/kg	
67-66-3	Chloroform	ND	250	25	ug/kg	
95-49-8	o-Chlorotoluene	ND	250	25	ug/kg	
106-43-4	p-Chlorotoluene	ND	250	25	ug/kg	
56-23-5	Carbon tetrachloride	ND	250	25	ug/kg	
75-34-3	1,1-Dichloroethane	ND	250	25	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	250	25	ug/kg	
563-58-6	1,1-Dichloropropene	ND	250	25	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	250	70	ug/kg	
106-93-4	1,2-Dibromoethane	ND	250	25	ug/kg	
107-06-2	1,2-Dichloroethane	ND	250	25	ug/kg	
78-87-5	1,2-Dichloropropane	ND	250	25	ug/kg	
142-28-9	1,3-Dichloropropane	ND	250	25	ug/kg	
108-20-3	Di-Isopropyl ether	ND	250	25	ug/kg	
594-20-7	2,2-Dichloropropane	ND	250	25	ug/kg	
124-48-1	Dibromochloromethane	ND	250	25	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	250	50	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	250	55	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	250	25	ug/kg	
541-73-1	m-Dichlorobenzene	ND	250	25	ug/kg	
95-50-1	o-Dichlorobenzene	ND	250	25	ug/kg	
106-46-7	p-Dichlorobenzene	ND	250	25	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: COMP (5-8)
Lab Sample ID: C31126-5
Matrix: SO - Soil
Method: SW846 8260B
Project: Alameda - Webster Street, Alameda, CA

Date Sampled: 11/26/13
Date Received: 11/26/13
Percent Solids: n/a [a]

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	250	25	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	250	25	ug/kg	
64-17-5	Ethyl alcohol	ND	25000	4700	ug/kg	
100-41-4	Ethylbenzene	ND	250	25	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	250	25	ug/kg	
591-78-6	2-Hexanone	ND	1000	100	ug/kg	
87-68-3	Hexachlorobutadiene	ND	250	50	ug/kg	
98-82-8	Isopropylbenzene	ND	250	25	ug/kg	
99-87-6	p-Isopropyltoluene	ND	250	25	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	1000	100	ug/kg	
74-83-9	Methyl bromide	ND	250	50	ug/kg	
74-87-3	Methyl chloride	ND	250	50	ug/kg	
74-95-3	Methylene bromide	ND	250	25	ug/kg	
75-09-2	Methylene chloride	ND	1000	250	ug/kg	
78-93-3	Methyl ethyl ketone	ND	1000	100	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	250	50	ug/kg	
91-20-3	Naphthalene	ND	250	50	ug/kg	
103-65-1	n-Propylbenzene	ND	250	25	ug/kg	
100-42-5	Styrene	ND	250	25	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	250	25	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	2000	500	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	25	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	250	25	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	25	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	250	25	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	250	25	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	250	50	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	250	25	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	250	50	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	250	50	ug/kg	
127-18-4	Tetrachloroethylene	ND	250	30	ug/kg	
108-88-3	Toluene	ND	250	25	ug/kg	
79-01-6	Trichloroethylene	ND	250	25	ug/kg	
75-69-4	Trichlorofluoromethane	ND	250	50	ug/kg	
75-01-4	Vinyl chloride	ND	250	50	ug/kg	
1330-20-7	Xylene (total)	ND	500	50	ug/kg	
	TPH-GRO (C6-C10)	ND	5000	2500	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	COMP (5-8)		
Lab Sample ID:	C31126-5	**Date Sampled:**	11/26/13
Matrix:	SO - Soil	**Date Received:**	11/26/13
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	Alameda - Webster Street, Alameda, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-130%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%

(a) All results reported on a wet weight basis.
(b) 4:1 composite.

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: COMP (5-8)
Lab Sample ID: C31126-5
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Alameda - Webster Street, Alameda, CA

Date Sampled: 11/26/13
Date Received: 11/26/13
Percent Solids: n/a [a]

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	Y24049.D	20	11/27/13	MT	11/27/13	OP9146	EY1092
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	13000	3200	ug/kg	
95-57-8	2-Chlorophenol	ND	3300	1400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	3300	1400	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	3300	1500	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	3300	1300	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	13000	2700	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	6600	1200	ug/kg	
95-48-7	2-Methylphenol	ND	3300	1800	ug/kg	
	3&4-Methylphenol	ND	6600	1600	ug/kg	
88-75-5	2-Nitrophenol	ND	3300	1600	ug/kg	
100-02-7	4-Nitrophenol	ND	6600	790	ug/kg	
87-86-5	Pentachlorophenol	ND	6600	670	ug/kg	
108-95-2	Phenol	ND	3300	1400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	3300	1500	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	3300	1400	ug/kg	
83-32-9	Acenaphthene	ND	3300	1500	ug/kg	
208-96-8	Acenaphthylene	ND	3300	1600	ug/kg	
62-53-3	Aniline	ND	3300	880	ug/kg	
120-12-7	Anthracene	ND	3300	1100	ug/kg	
103-33-3	Azobenzene	ND	3300	1200	ug/kg	
92-87-5	Benzidine	ND	13000	1600	ug/kg	
56-55-3	Benzo(a)anthracene	ND	3300	660	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3300	660	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3300	660	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3300	860	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3300	660	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	3300	1300	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	3300	660	ug/kg	
100-51-6	Benzyl Alcohol	ND	3300	1800	ug/kg	
91-58-7	2-Chloronaphthalene	ND	3300	1500	ug/kg	
106-47-8	4-Chloroaniline	ND	3300	1000	ug/kg	
86-74-8	Carbazole	ND	3300	690	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: COMP (5-8)
Lab Sample ID: C31126-5
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: Alameda - Webster Street, Alameda, CA

Date Sampled: 11/26/13
Date Received: 11/26/13
Percent Solids: n/a [a]

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	3300	660	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	3300	1500	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	3300	1300	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	3300	1300	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	3300	1500	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3300	1500	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3300	1500	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	3300	1400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	3300	1400	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	3300	1500	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	6600	1400	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3300	820	ug/kg	
132-64-9	Dibenzofuran	ND	3300	1500	ug/kg	
122-39-4	Diphenylamine	ND	3300	1300	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	3300	660	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	3300	680	ug/kg	
84-66-2	Diethyl phthalate	ND	3300	1100	ug/kg	
131-11-3	Dimethyl phthalate	ND	3300	1400	ug/kg	
123-91-1	1,4-Dioxane	ND	3300	850	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	6600	1300	ug/kg	
206-44-0	Fluoranthene	ND	3300	660	ug/kg	
86-73-7	Fluorene	ND	3300	1400	ug/kg	
118-74-1	Hexachlorobenzene	ND	3300	1400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	3300	1900	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3300	1800	ug/kg	
67-72-1	Hexachloroethane	ND	3300	1400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3300	850	ug/kg	
78-59-1	Isophorone	ND	3300	1400	ug/kg	
90-12-0	1-Methylnaphthalene	ND	3300	1500	ug/kg	
91-57-6	2-Methylnaphthalene	ND	3300	1600	ug/kg	
88-74-4	2-Nitroaniline	ND	3300	1300	ug/kg	
99-09-2	3-Nitroaniline	ND	3300	1000	ug/kg	
100-01-6	4-Nitroaniline	ND	3300	860	ug/kg	
91-20-3	Naphthalene	ND	3300	1500	ug/kg	
98-95-3	Nitrobenzene	ND	3300	1500	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	3300	1300	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	3300	1400	ug/kg	
85-01-8	Phenanthrene	ND	3300	1200	ug/kg	
129-00-0	Pyrene	ND	3300	660	ug/kg	
110-86-1	Pyridine	ND	6600	910	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	COMP (5-8)		
Lab Sample ID:	C31126-5	**Date Sampled:**	11/26/13
Matrix:	SO - Soil	**Date Received:**	11/26/13
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	n/a [a]
Project:	Alameda - Webster Street, Alameda, CA		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
120-82-1	1,2,4-Trichlorobenzene	ND	3300	1500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	67%		14-99%
4165-62-2	Phenol-d5	73%		18-100%
118-79-6	2,4,6-Tribromophenol	63%		25-107%
4165-60-0	Nitrobenzene-d5	66%		15-101%
321-60-8	2-Fluorobiphenyl	77%		15-104%
1718-51-0	Terphenyl-d14	92%		56-123%

(a) All results reported on a wet weight basis.
(b) Dilution required due to matrix interference (dark and viscous extract; high concentration of non-target hydrocarbons).

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: COMP (5-8)
Lab Sample ID: C31126-5
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: Alameda - Webster Street, Alameda, CA

Date Sampled: 11/26/13
Date Received: 11/26/13
Percent Solids: n/a [a]

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP033047.D	1	11/27/13	AG	11/27/13	OP9133	GPP1087
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	33	17	ug/kg	
11141-16-5	Aroclor 1232	ND	33	17	ug/kg	
53469-21-9	Aroclor 1242	ND	33	17	ug/kg	
12672-29-6	Aroclor 1248	ND	33	17	ug/kg	
11097-69-1	Aroclor 1254	ND	33	17	ug/kg	
11096-82-5	Aroclor 1260	ND	33	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%		38-109%
877-09-8	Tetrachloro-m-xylene	89%		38-109%
2051-24-3	Decachlorobiphenyl	89%		49-138%
2051-24-3	Decachlorobiphenyl	78%		49-138%

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	COMP (5-8)		
Lab Sample ID:	C31126-5	**Date Sampled:**	11/26/13
Matrix:	SO - Soil	**Date Received:**	11/26/13
Method:	SW846 8015B M SW846 3550B	**Percent Solids:**	n/a [a]
Project:	Alameda - Webster Street, Alameda, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH309557.D	5	11/27/13	AG	11/26/13	OP9141	GHH1141
Run #2							

	Initial Weight	Final Volume
Run #1	10.8 g	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	65.1	46	12	mg/kg	
	TPH (> C28-C40)	424	92	23	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	96%		37-122%

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	COMP (5-8)		
Lab Sample ID:	C31126-5	**Date Sampled:**	11/26/13
Matrix:	SO - Soil	**Date Received:**	11/26/13
		Percent Solids:	n/a [a]
Project:	Alameda - Webster Street, Alameda, CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Cadmium	< 0.93	0.93	mg/kg	1	11/27/13	12/02/13	RS	SW846 6010B [1]	SW846 3050B [2]
Chromium	30.0	0.93	mg/kg	1	11/27/13	12/02/13	RS	SW846 6010B [1]	SW846 3050B [2]
Lead	117	1.9	mg/kg	1	11/27/13	12/02/13	RS	SW846 6010B [1]	SW846 3050B [2]
Nickel	23.0	0.93	mg/kg	1	11/27/13	12/02/13	RS	SW846 6010B [1]	SW846 3050B [2]
Zinc	159	1.9	mg/kg	1	11/27/13	12/02/13	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA3606
(2) Prep QC Batch: MP7058

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Northern California ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST® LABORATORIES

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

ALFAECAS5469

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest NC Job #: C C31126

Client / Reporting Information

Company Name: ALFA ENVIRONMENTAL
Address: 9000 Crow Canyon Rd. Ste5
City: Danville State: CA Zip: 94506
Project Contact: VALENTIN C
Phone #: 925-308-9200
Samplers's Name: Valentine

Project Information

Project Name: ALAMEDA
Street: WEBSTER St
City: ALAMEDA State: CA
Project #: 7514-2
EMAIL: VAL@ALFAENV.COM
Client Purchase Order #:

Requested Analysis

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection: Date	Time	Sampled by	Matrix	# of bottles	Preserved: HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	TPHG 8015M / 8260	TPHD 8015M / 8260	O&G (1020)	BTEX 8260	1,4-Dioxane 8270M	EDB & EDC 8260 MTBE, TAME, ETBE, DIPE, TBA and EtOH 8260	CLHC 8260	Metals (Cd, Cr, Pb, Ni, Zn) ICAP/AA	PCP, PNA creosote 8270 PCBs	LAB USE ONLY
1	COMP 5	11/26/13	9:30	Val	So	3					COMP (5)				X	X	X	X	X	X	X	X	X	
2	COMP 6 (COMPOSITE)		9:30																					
3	COMP 7		9:35																					
4	COMP 8		9:40																					

3 DAYS

Turnaround Time (Business days)

Approved By:/ Date:

- [ ] 10 Day
- [ ] 5 Day
- [X] 3 Day (125% markup)
- [ ] 2 Day (150% markup)
- [ ] 1 Day (200% markup)
- [ ] Same Day (300% markup)

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [x] Commercial "B" - Results with QC summaries
- [ ] Commercial "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID:
- Provide EDF Logcode:

Comments / Remarks

Composite (COMP5 to COM8) and analyze only ONE Composited sample PCBs, PCPs if found, analyze for dibenzofurans (PCBs) or dioxins PCP

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	VAL CONSTANTINESCU	11/26/13 10:30		2		2
3		Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
			3	4		4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Appropriate Bottle / Preservative Y / N	Headspace Y / N N/A
					Labels match Coc Y / N	Separate Receiving Check List used: Y / N

On Ice Y / N
Cooler Temp: 12.9°C

C31126: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: C31126 **Client:** ALFA ENVIRONMENTAL **Project:** ALAMEDA

Date / Time Received: 11/26/2013 **Delivery Method:** Client **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (12.8/12.8); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☐		☑	3. COC Present:	☑		☐
2. Custody Seals Intact:	☐		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☑
2. Cooler temp verification:	IR2 Plastic;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☐		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☑		☐	☐
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:408.588.0200
2105 Lundy Avenue
F: 408.588.0201
San Jose, CA 95131
www/accutest.com

C31126: Chain of Custody
Page 2 of 2

Northern California ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL917-MB	L29018.D	1	11/27/13	XB	n/a	n/a	VL917

The QC reported here applies to the following samples: **Method:** SW846 8260B

C31126-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40	10	ug/kg	
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.50	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.50	ug/kg	
75-25-2	Bromoform	ND	5.0	0.50	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.50	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.50	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.0	ug/kg	
67-66-3	Chloroform	ND	5.0	0.50	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.50	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.50	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	0.50	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.50	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.50	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	0.50	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.50	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	0.50	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	0.50	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	0.50	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	0.50	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.50	ug/kg	
64-17-5	Ethyl alcohol	ND	500	93	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	

Method Blank Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL917-MB	L29018.D	1	11/27/13	XB	n/a	n/a	VL917

The QC reported here applies to the following samples: **Method:** SW846 8260B

C31126-5

CAS No.	Compound	Result	RL	MDL	Units	Q
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	0.50	ug/kg	
591-78-6	2-Hexanone	ND	20	2.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	2.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	1.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.50	ug/kg	
75-09-2	Methylene chloride	ND	20	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	1.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.50	ug/kg	
100-42-5	Styrene	ND	5.0	0.50	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	10	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.50	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.50	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	0.60	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	0.50	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	
	TPH-GRO (C6-C10)	ND	100	50	ug/kg	

Method Blank Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL917-MB	L29018.D	1	11/27/13	XB	n/a	n/a	VL917

The QC reported here applies to the following samples: **Method:** SW846 8260B

C31126-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	91%	70-130%
2037-26-5	Toluene-D8	95%	70-130%
460-00-4	4-Bromofluorobenzene	94%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL917-BS	L29015.D	1	11/27/13	XB	n/a	n/a	VL917
VL917-BSD	L29016.D	1	11/27/13	XB	n/a	n/a	VL917

The QC reported here applies to the following samples: **Method:** SW846 8260B

C31126-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	160	141	88	146	91	3	62-130/24
71-43-2	Benzene	40	41.2	103	39.0	98	5	81-119/20
108-86-1	Bromobenzene	40	38.7	97	37.8	95	2	79-120/22
74-97-5	Bromochloromethane	40	41.3	103	41.4	104	0	81-120/19
75-27-4	Bromodichloromethane	40	37.5	94	36.1	90	4	79-124/20
75-25-2	Bromoform	40	39.8	100	40.9	102	3	76-128/21
104-51-8	n-Butylbenzene	40	38.6	97	35.3	88	9	79-123/26
135-98-8	sec-Butylbenzene	40	37.4	94	34.3	86	9	77-122/24
98-06-6	tert-Butylbenzene	40	37.8	95	34.7	87	9	77-121/23
108-90-7	Chlorobenzene	40	37.0	93	36.0	90	3	82-121/20
75-00-3	Chloroethane	40	39.2	98	35.0	88	11	80-126/21
67-66-3	Chloroform	40	38.9	97	38.1	95	2	82-123/20
95-49-8	o-Chlorotoluene	40	37.5	94	34.9	87	7	78-125/25
106-43-4	p-Chlorotoluene	40	34.8	87	32.5	81	7	75-125/26
56-23-5	Carbon tetrachloride	40	41.6	104	37.7	94	10	82-127/22
75-34-3	1,1-Dichloroethane	40	38.5	96	36.7	92	5	80-123/20
75-35-4	1,1-Dichloroethylene	40	41.5	104	38.8	97	7	76-123/19
563-58-6	1,1-Dichloropropene	40	42.7	107	39.3	98	8	79-123/20
96-12-8	1,2-Dibromo-3-chloropropane	40	32.5	81	32.3	81	1	64-133/23
106-93-4	1,2-Dibromoethane	40	37.7	94	38.3	96	2	80-120/20
107-06-2	1,2-Dichloroethane	40	37.6	94	36.6	92	3	76-132/21
78-87-5	1,2-Dichloropropane	40	39.1	98	37.4	94	4	80-121/20
142-28-9	1,3-Dichloropropane	40	36.6	92	36.1	90	1	78-120/20
108-20-3	Di-Isopropyl ether	40	36.3	91	35.4	89	3	78-126/19
594-20-7	2,2-Dichloropropane	40	39.9	100	36.8	92	8	77-132/22
124-48-1	Dibromochloromethane	40	38.7	97	38.8	97	0	76-121/21
75-71-8	Dichlorodifluoromethane	40	38.3	96	34.3	86	11	51-135/23
156-59-2	cis-1,2-Dichloroethylene	40	42.0	105	39.8	100	5	79-123/20
10061-01-5	cis-1,3-Dichloropropene	40	41.0	103	39.8	100	3	81-124/21
541-73-1	m-Dichlorobenzene	40	36.5	91	34.6	87	5	79-123/23
95-50-1	o-Dichlorobenzene	40	35.9	90	34.7	87	3	79-124/22
106-46-7	p-Dichlorobenzene	40	39.3	98	37.6	94	4	79-123/22
156-60-5	trans-1,2-Dichloroethylene	40	43.3	108	41.1	103	5	78-120/19
10061-02-6	trans-1,3-Dichloropropene	40	36.9	92	36.4	91	1	81-123/22
64-17-5	Ethyl alcohol	800	738	92	859	107	15	33-170/39
100-41-4	Ethylbenzene	40	40.1	100	37.8	95	6	80-119/21

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL917-BS	L29015.D	1	11/27/13	XB	n/a	n/a	VL917
VL917-BSD	L29016.D	1	11/27/13	XB	n/a	n/a	VL917

The QC reported here applies to the following samples: **Method:** SW846 8260B

C31126-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
637-92-3	Ethyl tert-Butyl Ether	40	40.0	100	39.9	100	0	75-132/21
591-78-6	2-Hexanone	160	134	84	141	88	5	68-139/24
87-68-3	Hexachlorobutadiene	40	41.3	103	38.5	96	7	81-126/32
98-82-8	Isopropylbenzene	40	38.2	96	35.9	90	6	81-122/22
99-87-6	p-Isopropyltoluene	40	37.3	93	34.5	86	8	81-121/23
108-10-1	4-Methyl-2-pentanone	160	150	94	157	98	5	74-136/23
74-83-9	Methyl bromide	40	44.4	111	41.9	105	6	82-124/20
74-87-3	Methyl chloride	40	41.2	103	36.4	91	12	60-132/26
74-95-3	Methylene bromide	40	39.2	98	39.0	98	1	82-120/20
75-09-2	Methylene chloride	40	40.9	102	39.9	100	2	75-119/20
78-93-3	Methyl ethyl ketone	160	143	89	154	96	7	71-130/22
1634-04-4	Methyl Tert Butyl Ether	40	39.2	98	38.9	97	1	79-127/19
91-20-3	Naphthalene	40	37.9	95	38.3	96	1	78-125/23
103-65-1	n-Propylbenzene	40	35.8	90	32.7	82	9	79-124/22
100-42-5	Styrene	40	40.2	101	38.8	97	4	83-122/21
994-05-8	Tert-Amyl Methyl Ether	40	39.4	99	39.4	99	0	80-127/20
75-65-0	Tert Butyl Alcohol	200	185	93	194	97	5	65-144/23
630-20-6	1,1,1,2-Tetrachloroethane	40	39.2	98	38.2	96	3	82-123/21
71-55-6	1,1,1-Trichloroethane	40	40.3	101	37.8	95	6	79-129/21
79-34-5	1,1,2,2-Tetrachloroethane	40	36.6	92	36.3	91	1	77-126/20
79-00-5	1,1,2-Trichloroethane	40	37.6	94	37.7	94	0	79-123/20
87-61-6	1,2,3-Trichlorobenzene	40	39.4	99	38.4	96	3	81-122/26
96-18-4	1,2,3-Trichloropropane	40	36.3	91	36.6	92	1	79-122/24
120-82-1	1,2,4-Trichlorobenzene	40	39.6	99	37.7	94	5	81-121/26
95-63-6	1,2,4-Trimethylbenzene	40	39.3	98	36.7	92	7	82-121/24
108-67-8	1,3,5-Trimethylbenzene	40	40.4	101	37.5	94	7	81-123/23
127-18-4	Tetrachloroethylene	40	42.0	105	38.9	97	8	80-125/25
108-88-3	Toluene	40	40.5	101	38.3	96	6	80-117/21
79-01-6	Trichloroethylene	40	41.2	103	38.9	97	6	81-122/20
75-69-4	Trichlorofluoromethane	40	42.0	105	37.4	94	12	77-133/22
75-01-4	Vinyl chloride	40	42.2	106	37.8	95	11	71-133/23
1330-20-7	Xylene (total)	120	117	98	111	93	5	81-122/22

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL917-BS	L29015.D	1	11/27/13	XB	n/a	n/a	VL917
VL917-BSD	L29016.D	1	11/27/13	XB	n/a	n/a	VL917

The QC reported here applies to the following samples: **Method:** SW846 8260B

C31126-5

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	96%	95%	70-130%
2037-26-5	Toluene-D8	95%	95%	70-130%
460-00-4	4-Bromofluorobenzene	97%	97%	70-130%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL917-LCS	L29017.D	1	11/27/13	XB	n/a	n/a	VL917

The QC reported here applies to the following samples: **Method:** SW846 8260B

C31126-5

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
	TPH-GRO (C6-C10)	250	207	83	50-121

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	90%	70-130%
2037-26-5	Toluene-D8	94%	70-130%
460-00-4	4-Bromofluorobenzene	96%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C31149-21MS	L29035.D	1	11/27/13	XB	n/a	n/a	VL917
C31149-21MSD	L29036.D	1	11/27/13	XB	n/a	n/a	VL917
C31149-21	L29027.D	1	11/27/13	XB	n/a	n/a	VL917

The QC reported here applies to the following samples: **Method:** SW846 8260B

C31126-5

CAS No.	Compound	C31149-21 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		159	184	116	194	122	5	62-130/24
71-43-2	Benzene	ND		39.8	37.4	94	37.4	94	0	81-119/20
108-86-1	Bromobenzene	ND		39.8	35.1	88	34.6	87	1	79-120/22
74-97-5	Bromochloromethane	ND		39.8	40.8	103	41.6	105	2	81-120/19
75-27-4	Bromodichloromethane	ND		39.8	37.4	94	37.4	94	0	79-124/20
75-25-2	Bromoform	ND		39.8	43.0	108	42.9	108	0	76-128/21
104-51-8	n-Butylbenzene	ND		39.8	31.2	78*	31.3	79	0	79-123/26
135-98-8	sec-Butylbenzene	ND		39.8	31.5	79	31.4	79	0	77-122/24
98-06-6	tert-Butylbenzene	ND		39.8	32.1	81	32.2	81	0	77-121/23
108-90-7	Chlorobenzene	ND		39.8	33.9	85	33.4	84	1	82-121/20
75-00-3	Chloroethane	ND		39.8	35.5	89	36.5	92	3	80-126/21
67-66-3	Chloroform	ND		39.8	37.3	94	37.9	96	2	82-123/20
95-49-8	o-Chlorotoluene	ND		39.8	32.7	82	29.7	75*	10	78-125/25
106-43-4	p-Chlorotoluene	ND		39.8	30.1	76	30.1	76	0	75-125/26
56-23-5	Carbon tetrachloride	ND		39.8	37.0	93	37.0	93	0	82-127/22
75-34-3	1,1-Dichloroethane	ND		39.8	35.0	88	36.3	92	4	80-123/20
75-35-4	1,1-Dichloroethylene	ND		39.8	34.4	87	34.2	86	1	76-123/19
563-58-6	1,1-Dichloropropene	ND		39.8	37.5	94	37.4	94	0	79-123/20
96-12-8	1,2-Dibromo-3-chloropropane	ND		39.8	37.8	95	38.1	96	1	64-133/23
106-93-4	1,2-Dibromoethane	ND		39.8	40.5	102	40.2	102	1	80-120/20
107-06-2	1,2-Dichloroethane	ND		39.8	39.2	99	39.7	100	1	76-132/21
78-87-5	1,2-Dichloropropane	ND		39.8	37.3	94	37.8	95	1	80-121/20
142-28-9	1,3-Dichloropropane	ND		39.8	38.3	96	38.0	96	1	78-120/20
108-20-3	Di-Isopropyl ether	ND		39.8	35.3	89	37.2	94	5	78-126/19
594-20-7	2,2-Dichloropropane	ND		39.8	36.1	91	36.1	91	0	77-132/22
124-48-1	Dibromochloromethane	ND		39.8	39.8	100	38.9	98	2	76-121/21
75-71-8	Dichlorodifluoromethane	ND		39.8	35.9	90	35.6	90	1	51-135/23
156-59-2	cis-1,2-Dichloroethylene	ND		39.8	38.9	98	39.0	98	0	79-123/20
10061-01-5	cis-1,3-Dichloropropene	ND		39.8	40.2	101	40.7	103	1	81-124/21
541-73-1	m-Dichlorobenzene	ND		39.8	31.4	79	31.3	79	0	79-123/23
95-50-1	o-Dichlorobenzene	ND		39.8	32.3	81	32.3	82	0	79-124/22
106-46-7	p-Dichlorobenzene	ND		39.8	34.1	86	34.0	86	0	79-123/22
156-60-5	trans-1,2-Dichloroethylene	ND		39.8	37.9	95	38.2	96	1	78-120/19
10061-02-6	trans-1,3-Dichloropropene	ND		39.8	37.0	93	37.1	94	0	81-123/22
64-17-5	Ethyl alcohol	ND		795	912	115	911	115	0	33-170/39
100-41-4	Ethylbenzene	ND		39.8	35.7	90	35.3	89	1	80-119/21

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C31149-21MS	L29035.D	1	11/27/13	XB	n/a	n/a	VL917
C31149-21MSD	L29036.D	1	11/27/13	XB	n/a	n/a	VL917
C31149-21	L29027.D	1	11/27/13	XB	n/a	n/a	VL917

The QC reported here applies to the following samples: **Method:** SW846 8260B

C31126-5

CAS No.	Compound	C31149-21 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
637-92-3	Ethyl tert-Butyl Ether	ND		39.8	41.1	103	42.8	108	4	75-132/21
591-78-6	2-Hexanone	ND		159	175	110	181	114	3	68-139/24
87-68-3	Hexachlorobutadiene	ND		39.8	31.9	80*	32.8	83	3	81-126/32
98-82-8	Isopropylbenzene	ND		39.8	33.8	85	33.4	84	1	81-122/22
99-87-6	p-Isopropyltoluene	ND		39.8	31.3	79*	31.3	79*	0	81-121/23
108-10-1	4-Methyl-2-pentanone	ND		159	190	119	195	123	3	74-136/23
74-83-9	Methyl bromide	ND		39.8	41.4	104	42.2	107	2	82-124/20
74-87-3	Methyl chloride	ND		39.8	38.5	97	39.4	99	2	60-132/26
74-95-3	Methylene bromide	ND		39.8	41.0	103	41.9	106	2	82-120/20
75-09-2	Methylene chloride	ND		39.8	38.3	96	38.1	96	1	75-119/20
78-93-3	Methyl ethyl ketone	ND		159	190	119	197	124	4	71-130/22
1634-04-4	Methyl Tert Butyl Ether	ND		39.8	41.7	105	43.5	110	4	79-127/19
91-20-3	Naphthalene	ND		39.8	38.0	96	40.1	101	5	78-125/23
103-65-1	n-Propylbenzene	ND		39.8	29.9	75*	30.2	76*	1	79-124/22
100-42-5	Styrene	ND		39.8	36.4	92	36.2	91	1	83-122/21
994-05-8	Tert-Amyl Methyl Ether	ND		39.8	41.7	105	43.3	109	4	80-127/20
75-65-0	Tert Butyl Alcohol	ND		199	240	121	251	127	4	65-144/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		39.8	38.0	96	37.1	94	2	82-123/21
71-55-6	1,1,1-Trichloroethane	ND		39.8	37.1	93	37.8	95	2	79-129/21
79-34-5	1,1,2,2-Tetrachloroethane	ND		39.8	39.9	100	40.5	102	1	77-126/20
79-00-5	1,1,2-Trichloroethane	ND		39.8	39.6	100	39.3	99	1	79-123/20
87-61-6	1,2,3-Trichlorobenzene	ND		39.8	34.2	86	35.5	90	4	81-122/26
96-18-4	1,2,3-Trichloropropane	ND		39.8	42.0	106	42.5	107	1	79-122/24
120-82-1	1,2,4-Trichlorobenzene	ND		39.8	32.1	81	32.6	82	2	81-121/26
95-63-6	1,2,4-Trimethylbenzene	ND		39.8	34.0	86	34.0	86	0	82-121/24
108-67-8	1,3,5-Trimethylbenzene	ND		39.8	34.6	87	34.7	88	0	81-123/23
127-18-4	Tetrachloroethylene	ND		39.8	37.3	94	36.9	93	1	80-125/25
108-88-3	Toluene	ND		39.8	36.3	91	35.8	90	1	80-117/21
79-01-6	Trichloroethylene	ND		39.8	37.4	94	36.9	93	1	81-122/20
75-69-4	Trichlorofluoromethane	ND		39.8	38.8	98	38.9	98	0	77-133/22
75-01-4	Vinyl chloride	ND		39.8	39.2	99	40.1	101	2	71-133/23
1330-20-7	Xylene (total)	ND		119	104	87	103	87	1	81-122/22

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C31149-21MS	L29035.D	1	11/27/13	XB	n/a	n/a	VL917
C31149-21MSD	L29036.D	1	11/27/13	XB	n/a	n/a	VL917
C31149-21	L29027.D	1	11/27/13	XB	n/a	n/a	VL917

The QC reported here applies to the following samples: **Method:** SW846 8260B

C31126-5

CAS No.	Surrogate Recoveries	MS	MSD	C31149-21	Limits
1868-53-7	Dibromofluoromethane	98%	102%	98%	70-130%
2037-26-5	Toluene-D8	95%	93%	95%	70-130%
460-00-4	4-Bromofluorobenzene	99%	102%	96%	70-130%

* = Outside of Control Limits.

Northern California ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9146-MB	Y24042.D	1	11/27/13	MT	11/27/13	OP9146	EY1092

The QC reported here applies to the following samples: **Method:** SW846 8270C

C31126-5

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	670	160	ug/kg	
95-57-8	2-Chlorophenol	ND	170	71	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	72	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	78	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	65	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	670	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	62	ug/kg	
95-48-7	2-Methylphenol	ND	170	88	ug/kg	
	3&4-Methylphenol	ND	330	79	ug/kg	
88-75-5	2-Nitrophenol	ND	170	79	ug/kg	
100-02-7	4-Nitrophenol	ND	330	40	ug/kg	
87-86-5	Pentachlorophenol	ND	330	34	ug/kg	
108-95-2	Phenol	ND	170	69	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	75	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	71	ug/kg	
83-32-9	Acenaphthene	ND	170	73	ug/kg	
208-96-8	Acenaphthylene	ND	170	78	ug/kg	
62-53-3	Aniline	ND	170	44	ug/kg	
120-12-7	Anthracene	ND	170	54	ug/kg	
103-33-3	Azobenzene	ND	170	59	ug/kg	
92-87-5	Benzidine	ND	670	79	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	43	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	67	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	89	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	76	ug/kg	
106-47-8	4-Chloroaniline	ND	170	50	ug/kg	
86-74-8	Carbazole	ND	170	35	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	74	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	67	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	67	ug/kg	

Method Blank Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9146-MB	Y24042.D	1	11/27/13	MT	11/27/13	OP9146	EY1092

The QC reported here applies to the following samples: **Method:** SW846 8270C

C31126-5

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	76	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	75	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	74	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	72	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	72	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	75	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	70	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	41	ug/kg	
132-64-9	Dibenzofuran	ND	170	73	ug/kg	
122-39-4	Diphenylamine	ND	170	65	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	170	33	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	34	ug/kg	
84-66-2	Diethyl phthalate	ND	170	57	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	69	ug/kg	
123-91-1	1,4-Dioxane	ND	170	43	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	72	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	71	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	96	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	92	ug/kg	
67-72-1	Hexachloroethane	ND	170	71	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	43	ug/kg	
78-59-1	Isophorone	ND	170	69	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	80	ug/kg	
88-74-4	2-Nitroaniline	ND	170	67	ug/kg	
99-09-2	3-Nitroaniline	ND	170	50	ug/kg	
100-01-6	4-Nitroaniline	ND	170	43	ug/kg	
91-20-3	Naphthalene	ND	170	77	ug/kg	
98-95-3	Nitrobenzene	ND	170	78	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	66	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	72	ug/kg	
85-01-8	Phenanthrene	ND	170	58	ug/kg	
129-00-0	Pyrene	ND	170	33	ug/kg	
110-86-1	Pyridine	ND	330	46	ug/kg	

Method Blank Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9146-MB	Y24042.D	1	11/27/13	MT	11/27/13	OP9146	EY1092

The QC reported here applies to the following samples: **Method:** SW846 8270C

C31126-5

CAS No.	Compound	Result	RL	MDL	Units	Q
120-82-1	1,2,4-Trichlorobenzene	ND	170	75	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	71%	14-99%
4165-62-2	Phenol-d5	72%	18-100%
118-79-6	2,4,6-Tribromophenol	79%	25-107%
4165-60-0	Nitrobenzene-d5	67%	15-101%
321-60-8	2-Fluorobiphenyl	68%	15-104%
1718-51-0	Terphenyl-d14	84%	56-123%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9146-BS	Y24043.D	1	11/27/13	MT	11/27/13	OP9146	EY1092
OP9146-BSD	Y24044.D	1	11/27/13	MT	11/27/13	OP9146	EY1092

The QC reported here applies to the following samples: **Method:** SW846 8270C

C31126-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic acid	1670	1230	74	1410	85	14	25-112/32
95-57-8	2-Chlorophenol	833	448	54	509	61	13	31-110/31
59-50-7	4-Chloro-3-methyl phenol	833	551	66	641	77	15	33-118/27
120-83-2	2,4-Dichlorophenol	833	511	61	580	70	13	30-115/30
105-67-9	2,4-Dimethylphenol	833	503	60	573	69	13	30-116/30
51-28-5	2,4-Dinitrophenol	833	447	54	521	63	15	11-139/30
534-52-1	4,6-Dinitro-o-cresol	833	516	62	596	72	14	30-139/24
95-48-7	2-Methylphenol	833	466	56	539	65	15	30-113/31
	3&4-Methylphenol	833	491	59	565	68	14	30-113/30
88-75-5	2-Nitrophenol	833	452	54	526	63	15	29-112/32
100-02-7	4-Nitrophenol	833	605	73	684	82	12	40-127/23
87-86-5	Pentachlorophenol	833	556	67	653	78	16	43-140/20
108-95-2	Phenol	833	475	57	545	65	14	30-112/30
95-95-4	2,4,5-Trichlorophenol	833	538	65	638	77	17	33-121/27
88-06-2	2,4,6-Trichlorophenol	833	514	62	602	72	16	31-115/29
83-32-9	Acenaphthene	833	532	64	607	73	13	34-112/28
208-96-8	Acenaphthylene	833	493	59	574	69	15	33-115/28
62-53-3	Aniline	833	380	46	439	53	14	30-93/27
120-12-7	Anthracene	833	551	66	651	78	17	59-111/21
103-33-3	Azobenzene	833	537	64	617	74	14	39-114/22
92-87-5	Benzidine	1670	308	18	308	18	0	10-96/39
56-55-3	Benzo(a)anthracene	833	568	68* [a]	666	80	16	72-122/22
50-32-8	Benzo(a)pyrene	833	560	67* [a]	664	80	17	71-120/22
205-99-2	Benzo(b)fluoranthene	833	576	69	670	80	15	67-123/24
191-24-2	Benzo(g,h,i)perylene	833	496	60	595	71	18	57-134/24
207-08-9	Benzo(k)fluoranthene	833	580	70* [a]	714	86	21	74-126/25
101-55-3	4-Bromophenyl phenyl ether	833	535	64	627	75	16	45-110/22
85-68-7	Butyl benzyl phthalate	833	555	67* [a]	665	80	18	68-129/20
100-51-6	Benzyl Alcohol	833	481	58	568	68	17	25-116/31
91-58-7	2-Chloronaphthalene	833	471	57	548	66	15	33-110/30
106-47-8	4-Chloroaniline	833	374	45	435	52	15	27-92/25
86-74-8	Carbazole	833	596	72	697	84	16	64-125/21
218-01-9	Chrysene	833	567	68* [a]	661	79	15	73-125/22
111-91-1	bis(2-Chloroethoxy)methane	833	471	57	536	64	13	31-112/31
111-44-4	bis(2-Chloroethyl)ether	833	424	51	491	59	15	30-106/31
108-60-1	bis(2-Chloroisopropyl)ether	833	422	51	491	59	15	30-111/32

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9146-BS	Y24043.D	1	11/27/13	MT	11/27/13	OP9146	EY1092
OP9146-BSD	Y24044.D	1	11/27/13	MT	11/27/13	OP9146	EY1092

The QC reported here applies to the following samples: **Method:** SW846 8270C

C31126-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
7005-72-3	4-Chlorophenyl phenyl ether	833	523	63	615	74	16	40-111/25
95-50-1	1,2-Dichlorobenzene	833	394	47	450	54	13	28-102/32
541-73-1	1,3-Dichlorobenzene	833	382	46	436	52	13	26-99/32
106-46-7	1,4-Dichlorobenzene	833	384	46	441	53	14	27-100/32
121-14-2	2,4-Dinitrotoluene	833	565	68	657	79	15	55-115/21
606-20-2	2,6-Dinitrotoluene	833	538	65	639	77	17	45-115/21
91-94-1	3,3'-Dichlorobenzidine	1670	1180	71	1370	82	15	53-115/24
53-70-3	Dibenzo(a,h)anthracene	833	517	62	614	74	17	59-132/23
132-64-9	Dibenzofuran	833	508	61	591	71	15	37-113/26
122-39-4	Diphenylamine	833	553	66	642	77	15	51-112/24
84-74-2	Di-n-butyl phthalate	833	582	70	686	82	16	67-114/22
117-84-0	Di-n-octyl phthalate	833	559	67	702	84	23	62-138/24
84-66-2	Diethyl phthalate	833	559	67	660	79	17	52-111/22
131-11-3	Dimethyl phthalate	833	540	65	638	77	17	42-113/23
123-91-1	1,4-Dioxane	833	190	23	217	26	13	10-55/36
117-81-7	bis(2-Ethylhexyl)phthalate	833	542	65* [a]	644	77	17	66-130/20
206-44-0	Fluoranthene	833	593	71	698	84	16	69-117/21
86-73-7	Fluorene	833	525	63	613	74	15	42-112/24
118-74-1	Hexachlorobenzene	833	546	66	642	77	16	50-110/24
87-68-3	Hexachlorobutadiene	833	424	51	488	59	14	30-116/33
77-47-4	Hexachlorocyclopentadiene	833	444	53	502	60	12	10-108/33
67-72-1	Hexachloroethane	833	392	47	435	52	10	25-101/34
193-39-5	Indeno(1,2,3-cd)pyrene	833	509	61	603	72	17	60-131/21
78-59-1	Isophorone	833	484	58	553	66	13	32-108/30
90-12-0	1-Methylnaphthalene	833	474	57	540	65	13	33-110/30
91-57-6	2-Methylnaphthalene	833	471	57	537	64	13	33-107/30
88-74-4	2-Nitroaniline	833	540	65	633	76	16	39-120/24
99-09-2	3-Nitroaniline	833	478	57	556	67	15	41-107/24
100-01-6	4-Nitroaniline	833	570	68	666	80	16	48-132/24
91-20-3	Naphthalene	833	446	54	504	60	12	32-121/31
98-95-3	Nitrobenzene	833	440	53	507	61	14	30-109/31
62-75-9	N-Nitrosodimethylamine	833	398	48	460	55	14	27-101/32
621-64-7	N-Nitroso-di-n-propylamine	833	455	55	532	64	16	29-111/32
85-01-8	Phenanthrene	833	556	67	646	78	15	57-113/21
129-00-0	Pyrene	833	550	66	656	79	18	63-120/20
110-86-1	Pyridine	833	295	35	339	41	14	16-75/34

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9146-BS	Y24043.D	1	11/27/13	MT	11/27/13	OP9146	EY1092
OP9146-BSD	Y24044.D	1	11/27/13	MT	11/27/13	OP9146	EY1092

The QC reported here applies to the following samples: **Method:** SW846 8270C

C31126-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
120-82-1	1,2,4-Trichlorobenzene	833	431	52	491	59	13	29-104/32

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	53%	61%	14-99%
4165-62-2	Phenol-d5	56%	64%	18-100%
118-79-6	2,4,6-Tribromophenol	67%	80%	25-107%
4165-60-0	Nitrobenzene-d5	52%	59%	15-101%
321-60-8	2-Fluorobiphenyl	55%	64%	15-104%
1718-51-0	Terphenyl-d14	66%	79%	56-123%

(a) Outside of in-house control limits; but within the method control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9146-MS	Y24047.D	1	11/27/13	MT	11/27/13	OP9146	EY1092
OP9146-MSD	Y24048.D	1	11/27/13	MT	11/27/13	OP9146	EY1092
C31146-8	Y24046.D	1	11/27/13	MT	11/27/13	OP9146	EY1092

The QC reported here applies to the following samples: **Method:** SW846 8270C

C31126-5

CAS No.	Compound	C31146-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic acid	ND		1660	1150	69	1070	65	7	25-112/32
95-57-8	2-Chlorophenol	ND		830	473	57	555	67	16	31-110/31
59-50-7	4-Chloro-3-methyl phenol	ND		830	645	78	716	86	10	33-118/27
120-83-2	2,4-Dichlorophenol	ND		830	528	64	645	78	20	30-115/30
105-67-9	2,4-Dimethylphenol	ND		830	512	62	619	75	19	30-116/30
51-28-5	2,4-Dinitrophenol	ND		830	446	54	510	62	13	11-139/30
534-52-1	4,6-Dinitro-o-cresol	ND		830	634	76	717	87	12	30-139/24
95-48-7	2-Methylphenol	ND		830	494	59	600	72	19	30-113/31
	3&4-Methylphenol	ND		830	512	62	628	76	20	30-113/30
88-75-5	2-Nitrophenol	ND		830	466	56	552	67	17	29-112/32
100-02-7	4-Nitrophenol	ND		830	768	92	833	101	8	40-127/23
87-86-5	Pentachlorophenol	ND		830	703	85	747	90	6	43-140/20
108-95-2	Phenol	ND		830	506	61	606	73	18	30-112/30
95-95-4	2,4,5-Trichlorophenol	ND		830	658	79	720	87	9	33-121/27
88-06-2	2,4,6-Trichlorophenol	ND		830	594	72	695	84	16	31-115/29
83-32-9	Acenaphthene	ND		830	605	73	654	79	8	34-112/28
208-96-8	Acenaphthylene	ND		830	570	69	664	80	15	33-115/28
62-53-3	Aniline	ND		830	431	52	478	58	10	30-93/27
120-12-7	Anthracene	ND		830	745	90	781	94	5	59-111/21
103-33-3	Azobenzene	ND		830	678	82	741	89	9	39-114/22
92-87-5	Benzidine	ND		1660	ND	0* [a]	ND	0* [a]	nc	10-96/39
56-55-3	Benzo(a)anthracene	ND		830	779	94	819	99	5	72-122/22
50-32-8	Benzo(a)pyrene	ND		830	776	93	796	96	3	71-120/22
205-99-2	Benzo(b)fluoranthene	ND		830	786	95	823	99	5	67-123/24
191-24-2	Benzo(g,h,i)perylene	ND		830	737	89	717	87	3	57-134/24
207-08-9	Benzo(k)fluoranthene	ND		830	799	96	846	102	6	74-126/25
101-55-3	4-Bromophenyl phenyl ether	ND		830	699	84	734	89	5	45-110/22
85-68-7	Butyl benzyl phthalate	ND		830	792	95	819	99	3	68-129/20
100-51-6	Benzyl Alcohol	ND		830	517	62	620	75	18	25-116/31
91-58-7	2-Chloronaphthalene	ND		830	511	62	621	75	19	33-110/30
106-47-8	4-Chloroaniline	ND		830	442	53	492	59	11	27-92/25
86-74-8	Carbazole	ND		830	830	100	855	103	3	64-125/21
218-01-9	Chrysene	ND		830	779	94	817	99	5	73-125/22
111-91-1	bis(2-Chloroethoxy)methane	ND		830	493	59	601	73	20	31-112/31
111-44-4	bis(2-Chloroethyl)ether	ND		830	435	52	515	62	17	30-106/31
108-60-1	bis(2-Chloroisopropyl)ether	ND		830	437	53	520	63	17	30-111/32

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9146-MS	Y24047.D	1	11/27/13	MT	11/27/13	OP9146	EY1092
OP9146-MSD	Y24048.D	1	11/27/13	MT	11/27/13	OP9146	EY1092
C31146-8	Y24046.D	1	11/27/13	MT	11/27/13	OP9146	EY1092

The QC reported here applies to the following samples: **Method:** SW846 8270C

C31126-5

CAS No.	Compound	C31146-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
7005-72-3	4-Chlorophenyl phenyl ether	ND		830	653	79	714	86	9	40-111/25
95-50-1	1,2-Dichlorobenzene	ND		830	397	48	468	56	16	28-102/32
541-73-1	1,3-Dichlorobenzene	ND		830	374	45	449	54	18	26-99/32
106-46-7	1,4-Dichlorobenzene	ND		830	381	46	456	55	18	27-100/32
121-14-2	2,4-Dinitrotoluene	ND		830	756	91	797	96	5	55-115/21
606-20-2	2,6-Dinitrotoluene	ND		830	699	84	749	90	7	45-115/21
91-94-1	3,3'-Dichlorobenzidine	ND		1660	1450	87	1330	80	9	53-115/24
53-70-3	Dibenzo(a,h)anthracene	ND		830	739	89	729	88	1	59-132/23
132-64-9	Dibenzofuran	ND		830	616	74	688	83	11	37-113/26
122-39-4	Diphenylamine	ND		830	727	88	766	92	5	51-112/24
84-74-2	Di-n-butyl phthalate	ND		830	810	98	834	101	3	67-114/22
117-84-0	Di-n-octyl phthalate	ND		830	757	91	819	99	8	62-138/24
84-66-2	Diethyl phthalate	ND		830	782	94	809	98	3	52-111/22
131-11-3	Dimethyl phthalate	ND		830	735	89	771	93	5	42-113/23
123-91-1	1,4-Dioxane	ND		830	186	22	213	26	14	10-55/36
117-81-7	bis(2-Ethylhexyl)phthalate	ND		830	768	92	803	97	4	66-130/20
206-44-0	Fluoranthene	ND		830	810	98	843	102	4	69-117/21
86-73-7	Fluorene	ND		830	667	80	718	87	7	42-112/24
118-74-1	Hexachlorobenzene	ND		830	723	87	764	92	6	50-110/24
87-68-3	Hexachlorobutadiene	ND		830	425	51	506	61	17	30-116/33
77-47-4	Hexachlorocyclopentadiene	ND		830	445	54	562	68	23	10-108/33
67-72-1	Hexachloroethane	ND		830	391	47	462	56	17	25-101/34
193-39-5	Indeno(1,2,3-cd)pyrene	ND		830	737	89	721	87	2	60-131/21
78-59-1	Isophorone	ND		830	525	63	617	74	16	32-108/30
90-12-0	1-Methylnaphthalene	ND		830	497	60	596	72	18	33-110/30
91-57-6	2-Methylnaphthalene	ND		830	494	59	601	73	20	33-107/30
88-74-4	2-Nitroaniline	ND		830	688	83	762	92	10	39-120/24
99-09-2	3-Nitroaniline	ND		830	632	76	665	80	5	41-107/24
100-01-6	4-Nitroaniline	ND		830	769	93	789	95	3	48-132/24
91-20-3	Naphthalene	ND		830	455	55	545	66	18	32-121/31
98-95-3	Nitrobenzene	ND		830	459	55	541	65	16	30-109/31
62-75-9	N-Nitrosodimethylamine	ND		830	405	49	478	58	17	27-101/32
621-64-7	N-Nitroso-di-n-propylamine	ND		830	485	58	598	72	21	29-111/32
85-01-8	Phenanthrene	ND		830	744	90	779	94	5	57-113/21
129-00-0	Pyrene	ND		830	774	93	808	98	4	63-120/20
110-86-1	Pyridine	ND		830	257	31	298	36	15	16-75/34

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9146-MS	Y24047.D	1	11/27/13	MT	11/27/13	OP9146	EY1092
OP9146-MSD	Y24048.D	1	11/27/13	MT	11/27/13	OP9146	EY1092
C31146-8	Y24046.D	1	11/27/13	MT	11/27/13	OP9146	EY1092

The QC reported here applies to the following samples: **Method:** SW846 8270C

C31126-5

CAS No.	Compound	C31146-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
120-82-1	1,2,4-Trichlorobenzene	ND		830	446	54	525	63	16	29-104/32

CAS No.	Surrogate Recoveries	MS	MSD	C31146-8	Limits
367-12-4	2-Fluorophenol	55%	66%	56%	14-99%
4165-62-2	Phenol-d5	59%	71%	59%	18-100%
118-79-6	2,4,6-Tribromophenol	89%	94%	74%	25-107%
4165-60-0	Nitrobenzene-d5	54%	65%	53%	15-101%
321-60-8	2-Fluorobiphenyl	60%	74%	56%	15-104%
1718-51-0	Terphenyl-d14	92%	97%	85%	56-123%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

Northern California ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9133-MB	PP033032.D	1	11/26/13	AG	11/26/13	OP9133	GPP1086

The QC reported here applies to the following samples: **Method:** SW846 8082

C31126-5

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	33	17	ug/kg	
11141-16-5	Aroclor 1232	ND	33	17	ug/kg	
53469-21-9	Aroclor 1242	ND	33	17	ug/kg	
12672-29-6	Aroclor 1248	ND	33	17	ug/kg	
11097-69-1	Aroclor 1254	ND	33	17	ug/kg	
11096-82-5	Aroclor 1260	ND	33	6.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	110%* [a]	38-109%
877-09-8	Tetrachloro-m-xylene	113%* [a]	38-109%
2051-24-3	Decachlorobiphenyl	115%	49-138%
2051-24-3	Decachlorobiphenyl	131%	49-138%

(a) Outside laboratory control limits (high bias).

Method Blank Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9141-MB	HH309556.D	1	11/27/13	AG	11/26/13	OP9141	GHH1141

The QC reported here applies to the following samples: **Method:** SW846 8015B M

C31126-5

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	10	2.5	mg/kg	
	TPH (> C28-C40)	ND	20	5.0	mg/kg	

CAS No.	Surrogate Recoveries		Limits
630-01-3	Hexacosane	97%	37-122%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9133-BS	PP033030.D	1	11/26/13	AG	11/26/13	OP9133	GPP1086
OP9133-BSD	PP033031.D	1	11/26/13	AG	11/26/13	OP9133	GPP1086

The QC reported here applies to the following samples: **Method:** SW846 8082

C31126-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	133	129	97	127	95	2	46-114/22
11096-82-5	Aroclor 1260	133	127	95	136	102	7	54-127/21

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	100%	93%	38-109%
877-09-8	Tetrachloro-m-xylene	107%	105%	38-109%
2051-24-3	Decachlorobiphenyl	89%	103%	49-138%
2051-24-3	Decachlorobiphenyl	96%	117%	49-138%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9141-BS	HH309554.D	1	11/27/13	AG	11/26/13	OP9141	GHH1141
OP9141-BSD	HH309555.D	1	11/27/13	AG	11/26/13	OP9141	GHH1141

The QC reported here applies to the following samples: **Method:** SW846 8015B M

C31126-5

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	100	88.3	88	87.3	87	1	39-102/29
	TPH (> C28-C40)	100	95.6	96	97.2	97	2	42-111/26

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
630-01-3	Hexacosane	99%	99%	37-122%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9133-MS	PP033050.D	1	11/27/13	AG	11/27/13	OP9133	GPP1087
OP9133-MSD	PP033051.D	1	11/27/13	AG	11/27/13	OP9133	GPP1087
C31146-8	PP033049.D	1	11/27/13	AG	11/27/13	OP9133	GPP1087

The QC reported here applies to the following samples: **Method:** SW846 8082

C31126-5

CAS No.	Compound	C31146-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		133	131	99	129	97	2	46-114/22
11096-82-5	Aroclor 1260	ND		133	134	101	141	106	5	54-127/21

CAS No.	Surrogate Recoveries	MS	MSD	C31146-8	Limits
877-09-8	Tetrachloro-m-xylene	100%	94%	100%	38-109%
877-09-8	Tetrachloro-m-xylene	102%	103%	103%	38-109%
2051-24-3	Decachlorobiphenyl	96%	102%	102%	49-138%
2051-24-3	Decachlorobiphenyl	92%	97%	95%	49-138%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C31126
Account: ALFAECAS Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9141-MS	HH309574.D	1	11/27/13	AG	11/27/13	OP9141	GHH1141
OP9141-MSD	HH309575.D	1	11/27/13	AG	11/27/13	OP9141	GHH1141
C31149-14	HH309566.D	1	11/27/13	AG	11/27/13	OP9141	GHH1141

The QC reported here applies to the following samples: **Method:** SW846 8015B M

C31126-5

CAS No.	Compound	C31149-14 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	2.65	J	97.1	77.2	77	82.7	82	7	39-102/29
	TPH (> C28-C40)	ND		97.1	78.1	80	83.9	86	7	42-111/26

CAS No.	Surrogate Recoveries	MS	MSD	C31149-14	Limits
630-01-3	Hexacosane	91%	92%	92%	37-122%

* = Outside of Control Limits.

Northern California ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C31126
Account: ALFAECAS - Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

QC Batch ID: MP7058
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 11/27/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	20	1.3	2		
Antimony	2.0	.07	.087		
Arsenic	2.0	.07	.07		
Barium	20	.04	.035		
Beryllium	1.0	.02	.012		
Boron	10	.09	.2		
Cadmium	1.0	.02	.015	-0.030	<1.0
Calcium	500	.71	7.6		
Chromium	1.0	.03	.054	0.030	<1.0
Cobalt	1.0	.02	.022		
Copper	2.5	.12	.19		
Iron	20	.64	1.6		
Lead	2.0	.07	.054	0.040	<2.0
Magnesium	500	2.7	1.5		
Manganese	1.5	.01	.054		
Molybdenum	2.0	.02	.024		
Nickel	1.0	.02	.024	0.10	<1.0
Potassium	1000	1.8	1.3		
Selenium	2.0	.18	.23		
Silicon		.12			
Silver	1.0	.03	.044		
Sodium	1000	1.5	4.8		
Strontium	1.0	.02	.017		
Thallium	2.0	.05	.073		
Tin	50	.02	.41		
Titanium	1.0	.04	.079		
Vanadium	1.0	.03	.025		
Zinc	2.0	.03	.098	0.75	<2.0

Associated samples MP7058: C31126-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C31126
Account: ALFAECAS - Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

QC Batch ID: MP7058
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 11/27/13

Metal	C31149-3 Original	MS	Spikelot MPIR4A	% Rec	QC Limits
Aluminum					
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Boron					
Cadmium	0.028	40.3	44.6	90.2	75-125
Calcium					
Chromium	46.3	89.5	44.6	96.8	75-125
Cobalt	anr				
Copper	anr				
Iron					
Lead	8.2	51.3	44.6	96.5	75-125
Magnesium					
Manganese					
Molybdenum	anr				
Nickel	58.0	103	44.6	100.8	75-125
Potassium					
Selenium	anr				
Silicon					
Silver	anr				
Sodium					
Strontium					
Thallium	anr				
Tin					
Titanium					
Vanadium	anr				
Zinc	57.8	102	44.6	99.0	75-125

Associated samples MP7058: C31126-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C31126
Account: ALFAECAS - Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

QC Batch ID: MP7058 Methods: SW846 6010B
Matrix Type: SOLID Units: mg/kg

Prep Date: 11/27/13

Metal	C31149-3 Original	MSD	Spikelot MPIR4A	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Boron						
Cadmium	0.028	37.9	42.4	89.4	6.1	20
Calcium						
Chromium	46.3	85.4	42.4	92.3	4.7	20
Cobalt	anr					
Copper	anr					
Iron						
Lead	8.2	48.9	42.4	96.1	4.8	20
Magnesium						
Manganese						
Molybdenum	anr					
Nickel	58.0	101	42.4	101.5	2.0	20
Potassium						
Selenium	anr					
Silicon						
Silver	anr					
Sodium						
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	57.8	98.1	42.4	95.1	3.9	20

Associated samples MP7058: C31126-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C31126
Account: ALFAECAS - Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

QC Batch ID: MP7058
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 11/27/13

Metal	BSP Result	Spikelot MPIR4A	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	48.1	50	96.2	80-120
Calcium				
Chromium	49.4	50	98.8	80-120
Cobalt	anr			
Copper	anr			
Iron				
Lead	47.7	50	95.4	80-120
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	48.3	50	96.6	80-120
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	52.5	50	105.0	80-120

Associated samples MP7058: C31126-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: C31126
Account: ALFAECAS - Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

QC Batch ID: MP7058
Matrix Type: SOLID

Methods: SW846 6010B
Units: ug/l

Prep Date: 11/27/13

Metal	C31149-3 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	0.300	2.20	633.3(a)	0-10
Calcium				
Chromium	495	539	8.9	0-10
Cobalt	anr			
Copper	anr			
Iron				
Lead	87.9	87.7	0.2	0-10
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	621	607	2.2	0-10
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	618	668	8.1	0-10

Associated samples MP7058: C31126-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Northern California ACCUTEST LABORATORIES

12/10/13

Technical Report for

Alfa Environmental

Alameda - Webster Street, Alameda, CA

7514

Accutest Job Number: C31126W

Sampling Date: 11/26/13

Report to:

Alfa Environmental
9000 Crow Canyon Stes
Danville, CA 94506
val@alfaenv.com

ATTN: Val Constantinescu

Total number of pages in report: **15**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Tony Vega 408-588-0200

Certifications: CA (08258CA) AZ (AZ0762) DoD ELAP (L-A-B L2242)

Sections: 1 2 3 4 5

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Sample Summary

Alfa Environmental

Job No: C31126W

Alameda - Webster Street, Alameda, CA
Project No: 7514

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
C31126-5W	11/26/13	00:00	VC	11/26/13	SO	Soil	COMP (5-8)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: C31126W
Account: Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA
Collected: 11/26/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C31126-5W	**COMP (5-8)**					
Lead		4.3	0.25		mg/l	SW846 6010B

Northern California ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	COMP (5-8)		
Lab Sample ID:	C31126-5W	**Date Sampled:**	11/26/13
Matrix:	SO - Soil	**Date Received:**	11/26/13
		Percent Solids:	n/a
Project:	Alameda - Webster Street, Alameda, CA		

Metals Analysis, STLC Leachate CA WET

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	4.3		0.25	mg/l	1	12/09/13	12/10/13	RS	SW846 6010B [1]	SW3010A [2]

(1) Instrument QC Batch: MA3627
(2) Prep QC Batch: MP7100

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Northern California ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST® LABORATORIES

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

ALFAECAS5469

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest NC Job #: C C31126

Client / Reporting Information

Company Name: ALFA ENVIRONMENTAL
Address: 9000 Crow Canyon Rd. Ste5
City: Danville State: CA Zip: 94506
Project Contact: VALENTIN C
Phone #: 925-308-9200
Samplers's Name: Valentine

Project Information

Project Name: ALAMEDA
Street: WEBSTER St
City: ALAMEDA State: CA
Project #: 7514-2
EMAIL: VAL@ALFAENV.COM
Client Purchase Order #:

Requested Analysis

TPHG 8015M / 8260
TPHD 8015M / 8260
O&G (1020)
BTEX 8260
1,4-Dioxane 8270M
EDB & EDC 8260
MTBE, TAME, ETBE, DIPE, TBA and EtOH 8260
CLHC 8260
Metals (Cd, Cr, Pb, Ni, Zn) ICAP/AA
PCP, PNA creosote 8270
PCB's 8082

Matrix Codes

WW- Wastewater
GW- Ground Water
SW- Surface Water
SO- Soil
OI-Oil
WP-Wipe
LIQ - Non-aqueous Liquid
AIR
DW- Drinking Water (Perchlorate Only)

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection: Date	Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	LAB USE ONLY
1	COMP 5	11/26/13	9:30	Val	So	3					COMP (5)				
2	COMP 6 (COMPOSITE)		9:30												
3	COMP 7		9:35												
4	COMP 8		9:40												

3 DAYS

Turnaround Time (Business days)

Approved By:/ Date:

- [ ] 10 Day
- [ ] 5 Day
- [X] 3 Day (125% markup)
- [ ] 2 Day (150% markup)
- [ ] 1 Day (200% markup)
- [ ] Same Day (300% markup)

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [x] Commercial "B" - Results with QC summaries
- [ ] Commercial "B*" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID:
- Provide EDF Logcode:

Comments / Remarks

Composite (COMP5 to COM8) and analyze only ONE Composited sample PCB's, PCP's if found, analyze for dibenzofurans (PCBs) or dioxins PCP

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	VAL CONSTANTINESCU	11/26/13 10:30		2		2
3		Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
			3	4		4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Appropriate Bottle / Preservative Y / N	Headspace Y / N N/A
					Labels match Coc Y / N	Separate Receiving Check List used: Y / N

On Ice Y / N
Cooler Temp: 12.9°C

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: C31126 **Client:** ALFA ENVIRONMENTAL **Project:** ALAMEDA

Date / Time Received: 11/26/2013 **Delivery Method:** Client **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (12.8/12.8); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☐		☑	3. COC Present:	☑		☐
2. Custody Seals Intact:	☐		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☑
2. Cooler temp verification:	IR2 Plastic;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☐		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☑		☐	☐
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:408.588.0200
2105 Lundy Avenue
F: 408.588.0201
San Jose, CA 95131
www/accutest.com

C31126W: Chain of Custody
Page 2 of 2

Northern California ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C31126W
Account: ALFAECAS - Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

QC Batch ID: MP7100
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 12/09/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	5.0	.34	.21		
Antimony	0.15	.018	.013		
Arsenic	0.25	.018	.016		
Barium	5.0	.01	.0088		
Beryllium	0.13	.005	.01		
Boron	2.5	.023	.016		
Cadmium	0.050	.005	.0038		
Calcium	130	.18	.3		
Chromium	0.25	.0075	.01		
Cobalt	0.13	.005	.0075		
Copper	0.25	.03	.075		
Iron	5.0	.16	.31		
Lead	0.25	.018	.021	0.15	<0.25
Magnesium	130	.68	.91		
Manganese	0.38	.0025	.031		
Molybdenum	0.50	.005	.0055		
Nickel	0.13	.005	.003		
Potassium	250	.45	1.1		
Selenium	0.25	.045	.055		
Silicon	2.5	.03	.17		
Silver	0.13	.0075	.012		
Sodium	250	.37	.33		
Strontium	0.25	.005	.006		
Thallium	0.25	.013	.014		
Tin	1.3	.005	.018		
Titanium	0.25	.01	.0085		
Vanadium	0.25	.0075	.0075		
Zinc	0.50	.0075	.1		

Associated samples MP7100: C31126-5W

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C31126W
Account: ALFAECAS - Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

QC Batch ID: MP7100
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 12/09/13

Metal	C31260-1W Original	MS	Spikelot MPIR4A	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium	anr				
Cobalt					
Copper	anr				
Iron					
Lead	0.13	12.1	12.5	95.5	75-125
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium					
Silicon					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Vanadium					
Zinc					

Associated samples MP7100: C31126-5W

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C31126W
Account: ALFAECAS - Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

QC Batch ID: MP7100 Methods: SW846 6010B
Matrix Type: LEACHATE Units: mg/l

Prep Date: 12/09/13

Metal	C31260-1W Original	MSD	Spikelot MPIR4A	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium	anr					
Cobalt						
Copper	anr					
Iron						
Lead	0.13	12.3	12.5	97.1	1.6	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silicon						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP7100: C31126-5W

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C31126W
Account: ALFAECAS - Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

QC Batch ID: MP7100
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 12/09/13

Metal	BSP Result	Spikelot MPIR4A	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron				
Lead	12.7	12.5	101.6	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP7100: C31126-5W

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: C31126W
Account: ALFAECAS - Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

QC Batch ID: MP7100 Methods: SW846 6010B
Matrix Type: LEACHATE Units: ug/l

Prep Date: 12/09/13

Metal	C31260-1W Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron				
Lead	5.00	0.00	100.0(a)	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP7100: C31126-5W

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Northern California ACCUTEST LABORATORIES

12/12/13

Technical Report for

Alfa Environmental

Alameda - Webster Street, Alameda, CA

7514

Accutest Job Number: C31126T

Sampling Date: 11/26/13

Report to:

Alfa Environmental
9000 Crow Canyon Stes
Danville, CA 94506
val@alfaenv.com

ATTN: Val Constantinescu

Total number of pages in report: **15**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Tony Vega 408-588-0200

Certifications: CA (08258CA) AZ (AZ0762) DoD ELAP (L-A-B L2242)

Sections: 1 2 3 4 5

Table of Contents

Sample Summary

Alfa Environmental

Job No: C31126T

Alameda - Webster Street, Alameda, CA
Project No: 7514

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
C31126-5T	11/26/13	00:00	VC	11/26/13	SO	Soil	COMP (5-8)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: C31126T
Account: Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA
Collected: 11/26/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C31126-5T	**COMP (5-8)**					
Lead		0.081	0.050		mg/l	SW846 6010B

Northern California ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	COMP (5-8)		
Lab Sample ID:	C31126-5T	**Date Sampled:**	11/26/13
Matrix:	SO - Soil	**Date Received:**	11/26/13
		Percent Solids:	n/a
Project:	Alameda - Webster Street, Alameda, CA		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	0.081	D008	5.0	0.050	mg/l	1	12/10/13	12/12/13	RS	SW846 6010B [1]	SW3010A [2]

(1) Instrument QC Batch: MA3632
(2) Prep QC Batch: MP7105

RL = Reporting Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)

Northern California ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST® LABORATORIES

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

ALFAECAS5469

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest NC Job #: C C31126

Client / Reporting Information

Company Name: ALFA ENVIRONMENTAL
Address: 9000 Crow Canyon Rd. Ste5
City: Danville State: CA Zip: 94506
Project Contact: VALENTIN C
Phone #: 925-308-9200
Samplers's Name: Valentine

Project Information

Project Name: ALAMEDA
Street: WEBSTER St
City: ALAMEDA State: CA
Project #: 7514-2
EMAIL: VAL@ALFAENV.COM
Client Purchase Order #:

Requested Analysis

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection: Date	Time	Sampled by	Matrix	# of bottles	Preserved: HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	TPHG 8015M / 8260	TPHD 8015M / 8260	O&G (1020)	BTEX 8260	1,4-Dioxane 8270M	EDB & EDC 8260 MTBE, TAME, ETBE, DIPE, TBA and EtOH 8260	CLHC 8260	Metals (Cd, Cr, Pb, Ni, Zn) ICAP/AA	PCP, PNA creosote 8270 PCBs	LAB USE ONLY
1	COMP 5	11/26/13	9:30	Val	So	3					COMP (5)				X	X	X	X	X	X	X	X	X	
2	COMP 6 (COMPOSITE)		9:30																					
3	COMP 7		9:35																					
4	COMP 8		9:40																					

3 DAYS

Matrix Codes: WW- Wastewater; GW- Ground Water; SW- Surface Water; SO- Soil; OI-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

Turnaround Time (Business days)

Approved By:/ Date:

- [ ] 10 Day
- [ ] 5 Day
- [X] 3 Day (125% markup)
- [ ] 2 Day (150% markup)
- [ ] 1 Day (200% markup)
- [ ] Same Day (300% markup)

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [x] Commercial "B" - Results with QC summaries
- [ ] Commercial "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID:
- Provide EDF Logcode:

Comments / Remarks

Composite (COMP5 to COM8) and analyze only ONE Composited sample PCBx, PCPx if found, analyze for dibenzofurans (PCBs) or dioxins PCP

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	VAL CONSTANTINESCU	11/26/13 10:30		2		2
3		Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
			3	4		4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Appropriate Bottle / Preservative Y / N	Headspace Y / N N/A On Ice Y / N Cooler Temp 12.9°C
					Labels match Coc Y / N	Separate Receiving Check List used: Y / N

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: C31126 **Client:** ALFA ENVIRONMENTAL **Project:** ALAMEDA

Date / Time Received: 11/26/2013 **Delivery Method:** Client **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (12.8/12.8); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☐		☑	3. COC Present:	☑		☐
2. Custody Seals Intact:	☐		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☑
2. Cooler temp verification:	IR2 Plastic;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☐		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☑		☐	☐
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:408.588.0200
2105 Lundy Avenue
F: 408.588.0201
San Jose, CA 95131
www/accutest.com

C31126T: Chain of Custody
Page 2 of 2

Northern California ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C31126T
Account: ALFAECAS - Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

QC Batch ID: MP7105
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 12/10/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	1.0	.067	.042		
Antimony	0.030	.0035	.0026		
Arsenic	0.050	.0035	.0033		
Barium	1.0	.002	.0018		
Beryllium	0.025	.001	.002		
Boron	0.50	.0045	.0032		
Cadmium	0.010	.001	.00075		
Calcium	25	.036	.061		
Chromium	0.050	.0015	.0021		
Cobalt	0.025	.001	.0015		
Copper	0.050	.006	.015		
Iron	1.0	.032	.062		
Lead	0.050	.0035	.0043	0.0060	<0.050
Magnesium	25	.14	.18		
Manganese	0.075	.0005	.0063		
Molybdenum	0.10	.001	.0011		
Nickel	0.025	.001	.0006		
Potassium	50	.09	.22		
Selenium	0.050	.009	.011		
Silicon	0.50	.006	.035		
Silver	0.025	.0015	.0024		
Sodium	50	.074	.066		
Strontium	0.050	.001	.0012		
Thallium	0.050	.0025	.0027		
Tin	0.25	.001	.0035		
Titanium	0.050	.002	.0017		
Vanadium	0.050	.0015	.0015		
Zinc	0.10	.0015	.021		

Associated samples MP7105: C31126-5T

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C31126T
Account: ALFAECAS - Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

QC Batch ID: MP7105
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 12/10/13

Metal	C31126-5T Original	MS	Spikelot MPIR4A	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	anr				
Barium	anr				
Beryllium					
Boron					
Cadmium	anr				
Calcium					
Chromium	anr				
Cobalt					
Copper					
Iron					
Lead	0.081	2.8	2.5	108.8	75-125
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium	anr				
Silicon					
Silver	anr				
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Vanadium					
Zinc					

Associated samples MP7105: C31126-5T

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C31126T
Account: ALFAECAS - Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

QC Batch ID: MP7105 Methods: SW846 6010B
Matrix Type: LEACHATE Units: mg/l

Prep Date: 12/10/13

Metal	C31126-5T Original	MSD	Spikelot MPIR4A	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium	anr					
Beryllium						
Boron						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper						
Iron						
Lead	0.081	2.8	2.5	108.8	0.0	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium	anr					
Silicon						
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP7105: C31126-5T

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C31126T
Account: ALFAECAS - Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

QC Batch ID: MP7105
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 12/10/13

Metal	BSP Result	Spikelot MPIR4A	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	2.6	2.5	104.0	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP7105: C31126-5T

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: C31126T
Account: ALFAECAS - Alfa Environmental
Project: Alameda - Webster Street, Alameda, CA

QC Batch ID: MP7105
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: ug/l

Prep Date: 12/10/13

Metal	C31126-5T Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	16.2	16.4	1.2	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP7105: C31126-5T

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested