

May 20, 2015

Greenville ISD
4004 Moulton Street
PO Box 1022
Greenville, Texas 75401
Attention: Mr. Bruce Shores

Re: **Soil Sampling and Laboratory Analysis
Former TXDOT Facility**
5900 Joe Ramsey Boulevard
Greenville, Texas
ALPHA Report No. E151053

Dear Mr. Shores:

Alpha Testing, Inc. (ALPHA) is pleased to submit this letter report summarizing the results of soil sampling and laboratory analysis activities conducted on the property referenced above. This environmental service has been authorized by Mr. Billy Myers on May 6, 2015, and performed in accordance with ALPHA Proposal Number 47086 dated May 5, 2015. ALPHA understands the subject site was a former Texas Department of Transportation (TXDOT) Equipment Storage/Maintenance facility, and is currently owned by the Greenville Independent School District (ISD).

Objective

The objective of the environmental services is to evaluate surficial soil at select locations in the vicinity of trench locations advanced on the central portion of the subject site, and at the location of on-site asphalt aboveground storage tanks (ASTs). ALPHA understands petroleum odors were evident in soil during excavation/trenching activities at a select location.

Soil Sampling and Laboratory Analysis Activities

ALPHA collected four (4) surficial soil samples (S-1 through S-4) from the surface to 12-inch depth interval below ground surface at select locations. Soil samples S-1, S-2 and S-4 were collected at the on-site trench locations. Soil sample S-3 was collected in the vicinity of on-site asphalt ASTs. The soil samples were placed in laboratory prepared glass containers, placed in a cooler with ice, and delivered to an analytical laboratory chosen by ALPHA, along with a completed chain-of-custody sheet. The soil samples were analyzed for total petroleum hydrocarbons (TPH) utilizing TCEQ Method TX 1005, volatile organic compounds (VOCs) utilizing EPA Methods SW-846 #8260, and Resource Conservation and Recovery ACT (RCRA)-8 Metals utilizing EPA Methods SW-846 #6020/7471.



Laboratory Analytical Results

Laboratory results associated with the soil samples collected from the Site are summarized in the tables below:

TABLE 1 SOIL SAMPLE ANALYSIS TPH and VOC RESULTS				
Sample I.D.	Sample Date	Sample Depth	TPH ¹ (TX 1005) (mg/kg) ²	VOC ³ (8260B) (mg/kg)
S-1	5/6/2015	Surface - 12"	C6 to C12 - ND ⁴ >C12 to C28 - ND >C28 to C35 - ND	ND
S-2	5/6/2015	Surface - 12"	C6 to C12 - ND >C12 to C28 - ND >C28 to C35 - ND	ND
S-3	5/6/2015	Surface - 12"	C6 to C12 - ND >C12 to C28 - ND >C28 to C35 - ND	ND
S-4	5/6/2015	Surface - 12"	C6 to C12 - ND >C12 to C28 - ND >C28 to C35 - ND	1,2,4-Trimethylbenzene - 0.0474 2-Butanone - 0.367 MTBE - 0.118 Naphthalene - 0.013 N-butylbenzene - 0.0179
TRRP Tier 1 Residential Soil Critical PCL⁵ for 0.5-acre Source Area (Class 1 or 2 Groundwater)			C6 to C12 - 65 >C12 to C28 - 200 >C28 to C35 - 200	1,2,4-Trimethylbenzene - 49.0 2-Butanone - 29.0 MTBE - 0.62 Naphthalene - 31.0 N-butylbenzene - 150

Notes:

1. TPH = Total Petroleum Hydrocarbons
2. mg/kg = Milligrams per Kilogram
3. VOC = Volatile Organic Compounds
4. ND = Not Detected at Method Detection Limit
5. TRRP Tier 1 Residential Soil Critical Protective Concentration Level for 0.5-Acre Source Area



**TABLE 3.1B
SOIL SAMPLES - METAL ANALYSES**

Sample ID.	Date	Sample Depth	Arsenic (6020) (mg/Kg) ¹	Barium (6020) (mg/Kg)	Cadmium (6020) (mg/ Kg)	Chromium (6020) (mg/ Kg)	Lead (6020) (mg/ Kg)	Selenium (6020) (mg/ Kg)	Silver (6020) (mg/ Kg)	Mercury (7471) (mg/ Kg)
S-1	5/6/2015	Surface - 12"	3.64	221	ND ³	12.2	9.58	2.06	ND	ND
S-2	5/6/2015	Surface - 12"	5.95	96.3	ND	11.1	10.8	1.98	ND	ND
S-3	5/6/2015	Surface - 12"	8.02	103	ND	23.2	12.7	2.38	ND	ND
S-4	5/6/2015	Surface - 12"	3.17	72.2	ND	4.54	11.1	1.55	ND	ND
TRRP Tier 1 Residential Critical PCL³ for 0.5-acre Source Area (Class 1 or 2 Groundwater)			5.0	440	1.5	2,400	3.0	2.3	0.48	0.0078
Texas-Specific Median Background Concentration			5.9	300	NP ⁴	30	15	0.3	NP	0.04

1. mg/kg = Milligrams per Kilogram

2. Texas Risk Reduction Program Tier 1 Residential Soil Critical Protective Concentration Level for 0.5-Acre Source Area

3. ND = Not Detected at Method Detection Limit

*Concentration in bold exceeds TRRP Tier 1 Residential Soil Critical PCLs and Texas-Specific Median Background Concentration.

Data Evaluation

ALPHA compared the laboratory analytical results to the Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP) Tier 1 Residential Critical Protective Concentrations Levels (PCLs) and Texas-Specific Median Background Concentrations (soil only for metals). The TRRP Tier 1 Critical PCL for each compound is the lower of the applicable PCLs for soil concentrations (i.e. ^{Total}Soil_{Comb}, ^{GW}Soil_{Ing}, ^{Air}Soil_{Inh-v}, and ^{Air}GW-Soil_{Inh-v}).

Total Petroleum Hydrocarbons

Based on the laboratory analytical results, soil samples S-1, S-2, S-3 and S-4 did not exhibit TPH concentrations above the laboratory method detection limits.



Volatile Organic Compounds

Based on the laboratory analytical results, soil samples S-1, S-2 and S-3 did not exhibit VOC concentrations above the laboratory method detection limits.

The laboratory analysis of soil sample S-4 did exhibit trace concentrations of select VOCs above the laboratory detection limits including 1,2,4-trimethylbenzene, 2-butanone, methyl-tertiary-butyl-ether (MTBE), naphthalene and n-butylbenzene. The identified VOC constituent concentrations do not exceed the applicable TRRP Tier 1 Residential Critical Soil PCLs.

RCRA-8 Metals

Based on the laboratory analytical results, the surficial soil samples exhibited select RCRA-8 Metals concentrations (arsenic, barium, chromium, lead and selenium) above the laboratory method detection limits. Identified concentrations of arsenic (S-1 and S-4), barium, chromium, lead and selenium (S-1, S-2 and S-4) do not exceed the applicable TRRP Tier 1 Critical Soil PCLs and/or TRRP Texas Median-Specific Background Concentrations, and are considered representative of naturally-occurring concentrations in soil.

Arsenic

Low arsenic concentrations exhibited in surface soil samples S-2 (5.95 milligrams per kilogram (mg/kg)) and S-3 (8.02 mg/kg) are in exceedance of the applicable TRRP Tier 1 Critical Soil PCL (5.0 mg/kg) and TRRP Texas Median-Specific Background Concentration (5.9 mg/kg). The remaining identified arsenic concentrations do not exceed the applicable TRRP Tier 1 Critical Soil PCL and TRRP Texas Median-Specific Background Concentration, and are considered representative of naturally-occurring concentrations in soil.

Selenium

A low selenium concentration exhibited in surface soil sample S-3 (2.38 mg/kg) is in exceedance of the applicable TRRP Tier 1 Critical Soil PCL (2.3 mg/kg) and TRRP Texas Median-Specific Background Concentration (0.3 mg/kg). The remaining identified selenium concentrations do not exceed the applicable TRRP Tier 1 Critical Soil PCL and TRRP Texas Median-Specific Background Concentration, and are considered representative of naturally-occurring concentrations in soil.

Based on the laboratory analytical results and ALPHA's experience evaluating metals in surface and subsurface soil in the North Texas area, the identified low concentrations of arsenic exhibited in surface soil samples S-2 and S-3, and the identified low concentration of selenium exhibited in surface soil sample S-3 appear likely representative of naturally-occurring concentrations and not the result of a release.



Volatile Organic Compounds

Based on the laboratory analytical results, soil samples S-1, S-2 and S-3 did not exhibit VOC concentrations above the laboratory method detection limits.

The laboratory analysis of soil sample S-4 did exhibit trace concentrations of select VOCs above the laboratory detection limits including 1,2,4-trimethylbenzene, 2-butanone, methyl-tertiary-butyl-ether (MTBE), naphthalene and n-butylbenzene. The identified VOC constituent concentrations do not exceed the applicable TRRP Tier 1 Residential Critical Soil PCLs.

RCRA-8 Metals

Based on the laboratory analytical results, the surficial soil samples exhibited select RCRA-8 Metals concentrations (arsenic, barium, chromium, lead and selenium) above the laboratory method detection limits. Identified concentrations of arsenic (S-1 and S-4), barium, chromium, lead and selenium (S-1, S-2 and S-4) do not exceed the applicable TRRP Tier 1 Critical Soil PCLs and/or TRRP Texas Median-Specific Background Concentrations, and are considered representative of naturally-occurring concentrations in soil.

Arsenic

Low arsenic concentrations exhibited in surface soil samples S-2 (5.95 milligrams per kilogram (mg/kg)) and S-3 (8.02 mg/kg) are in exceedance of the applicable TRRP Tier 1 Critical Soil PCL (5.0 mg/kg) and TRRP Texas Median-Specific Background Concentration (5.9 mg/kg). The remaining identified arsenic concentrations do not exceed the applicable TRRP Tier 1 Critical Soil PCL and TRRP Texas Median-Specific Background Concentration, and are considered representative of naturally-occurring concentrations in soil.

Selenium

A low selenium concentration exhibited in surface soil sample S-3 (2.38 mg/kg) is in exceedance of the applicable TRRP Tier 1 Critical Soil PCL (2.3 mg/kg) and TRRP Texas Median-Specific Background Concentration (0.3 mg/kg). The remaining identified selenium concentrations do not exceed the applicable TRRP Tier 1 Critical Soil PCL and TRRP Texas Median-Specific Background Concentration, and are considered representative of naturally-occurring concentrations in soil.

Based on the laboratory analytical results and ALPHA's experience evaluating metals in surface and subsurface soil in the North Texas area, the identified low concentrations of arsenic exhibited in surface soil samples S-2 and S-3, and the identified low concentration of selenium exhibited in surface soil sample S-3 appear likely representative of naturally-occurring concentrations and not the result of a release.



Standard of Care

ALPHA's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. Observations and findings developed by ALPHA must be considered as opinions and conclusions based solely on the conditions which were observed during the site investigation. ALPHA makes no warranties or representations, expressed or implied, regarding the services, findings, conclusions or recommendations presented hereunder. ALPHA does not warrant the work of third parties (e.g. laboratories, regulatory agencies, or other third parties) supplying information used in the preparation of the report. The scope of services was performed in accordance with the scope of work agreed with the client, as detailed in our proposal.

Additional Limitations

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work, and such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and ALPHA cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the site may vary from those encountered at actual sample locations. ALPHA's findings, conclusions and recommendations are based solely upon data available to ALPHA at the time of these services.

Reliance

This study and report have been prepared on behalf of and for the exclusive use of Greenville ISD solely for use in an environmental evaluation of the site and limited to the scope of work outlined in this report. The scope of services performed in execution of this study may not be appropriate to satisfy the needs of other users, and any unauthorized use or reuse of this document regarding the findings, conclusions, or recommendations will be at the risk of the said user. Any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited with the express written authorization of the Greenville ISD and ALPHA.

A blue ink signature of Christopher Pape.

Christopher Pape
Senior Project Manager

A blue ink signature of Christopher F. Talamini.

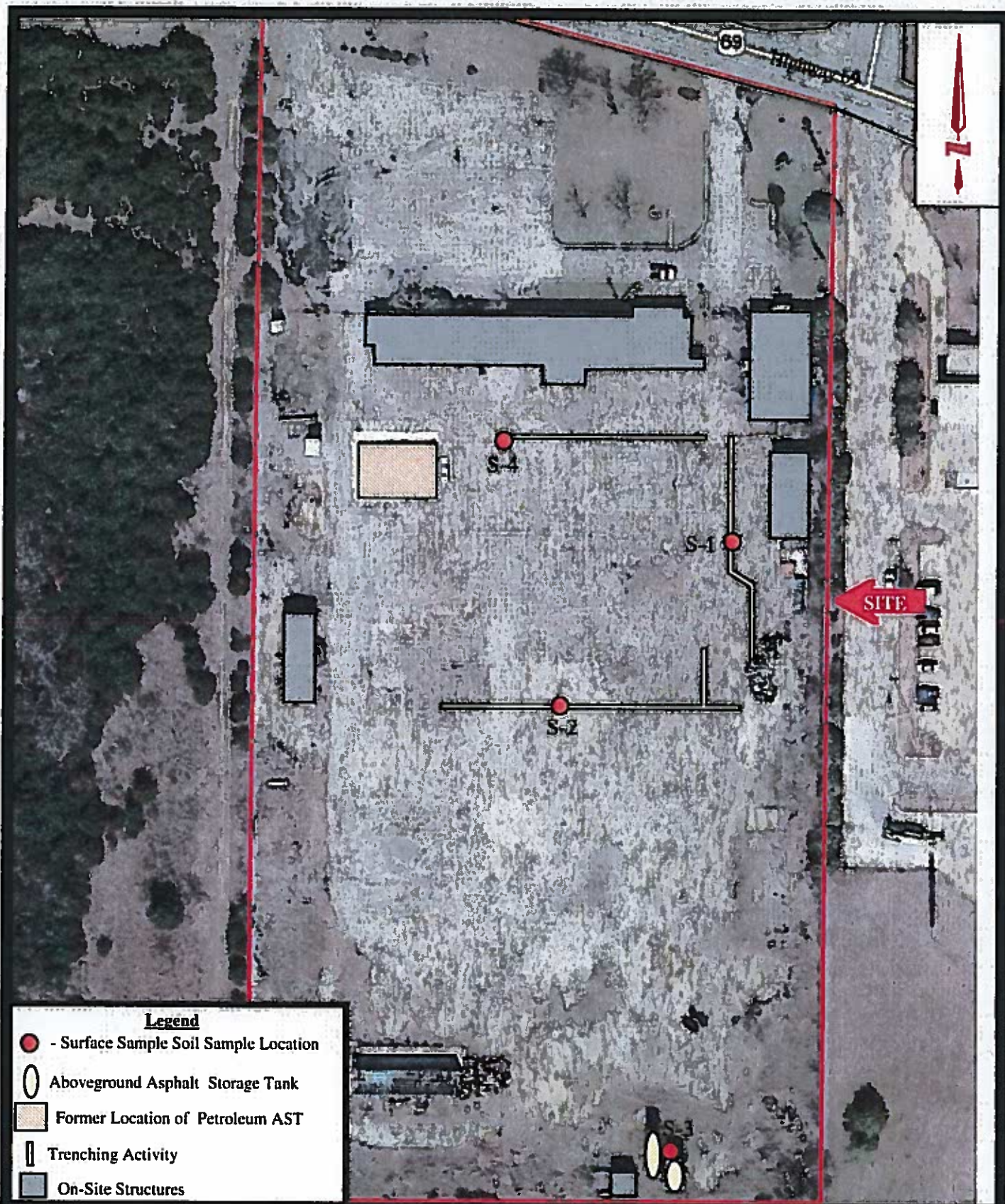
Christopher F. Talamini, P.G.
Environmental Department Manager

Attachment A – Site Plan and Sample Location Map

Attachment B – Analytical Laboratory Report



Attachment A



- Legend**
- - Surface Sample Soil Sample Location
 - Aboveground Asphalt Storage Tank
 - Former Location of Petroleum AST
 - ▬ Trenching Activity
 - On-Site Structures

Soil Sampling
 Former TXDOT Facility
 5900 Joe Ramsey Boulevard
 Greenville, Texas
 ALPHA Project No. E151053



Figure 1
 Site Plan and Sample Location Map
 Not to Scale



Attachment B



Wednesday, May 13, 2015

Alpha Testing, Inc.
C. Broussard
2209 Wisconsin, Suite 100
Dallas, TX 75229
Tel: (972) 620-8911 Fax:

Re: Project Name: GISD
Project Location: 5900 Joe Ramsey Blvd, Greenville TX

Oxidor received 4 solid sample(s). The analysis performed were as follows:

<u>Sample</u>	<u>Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Analysis</u>
15050145-001	S-1	Solid	5/6/2015 09:35	Arsenic, Barium, Cadmium, Chromium, Dry Weight, Lead, Mercury, Selenium, Silver, Total Petroleum Hydrocarbons, Volatile Organic Compounds
15050145-002	S-2	Solid	5/6/2015 09:40	Arsenic, Barium, Cadmium, Chromium, Dry Weight, Lead, Mercury, Selenium, Silver, Total Petroleum Hydrocarbons, Volatile Organic Compounds
15050145-003	S-3	Solid	5/6/2015 09:50	Arsenic, Barium, Cadmium, Chromium, Dry Weight, Lead, Mercury, Selenium, Silver, Total Petroleum Hydrocarbons, Volatile Organic Compounds
15050145-004	S-4	Solid	5/6/2015 10:15	Arsenic, Barium, Cadmium, Chromium, Dry Weight, Lead, Mercury, Selenium, Silver, Total Petroleum Hydrocarbons, Volatile Organic Compounds

Respectfully submitted,

Charles Brungardt
President



Alpha Testing, Inc.
C. Broussard

Analytical Report

Project Name: GISD

Customer Sample ID: S-1
Oxidor Sample ID: 15050145-001
Sample Received: 5/6/2015

Matrix: Solid
Sample Collected: 5/6/2015 09:35

Parameter	ML	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
General Chemistry								
% Solids	0.1	0.1	72.7	%	05/07/15 16:40	Dry Weight	V.V.	
Metals								
<i>Digested by method 3050B on 05/07/15 at 11:30</i>								
Arsenic	0.5	0.688	3.64	mg/Kg	05/08/15 11:55	6020	G.S.	
Barium	0.5	0.688	221	mg/Kg	05/08/15 11:55	6020	G.S.	
Cadmium	0.1	0.138	ND	µg/Kg	05/08/15 11:55	6020	G.S.	
Chromium	0.5	0.688	12.2	mg/Kg	05/08/15 11:55	6020	G.S.	
Lead	0.5	0.688	9.58	mg/Kg	05/08/15 11:55	6020	G.S.	
Selenium	0.5	0.688	2.06	mg/Kg	05/08/15 11:55	6020	G.S.	
Silver	0.1	0.138	ND	mg/Kg	05/08/15 11:55	6020	G.S.	
<i>Digested by method 7471A on 05/07/15 at 14:00</i>								
Mercury	0.025	0.0344	ND	mg/Kg	05/07/15 16:15	7471	T.M.	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
1,1,1-Trichloroethane	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
1,1,2,2-Tetrachloroethane	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
1,1,2-Trichloroethane	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
1,1-Dichloroethane	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
1,1-Dichloroethene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
1,1-Dichloropropene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
1,2,3-Trichlorobenzene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
1,2,3-Trichloropropane	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
1,2,4-Trichlorobenzene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
1,2,4-Trimethylbenzene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
1,2-Dibromo-3-chloropropane	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
1,2-Dibromoethane	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
1,2-Dichlorobenzene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
1,2-Dichloroethane	4	5.5	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
1,2-Dichloropropane	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
1,3,5-Trimethylbenzene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
1,3-Dichlorobenzene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
1,3-Dichloropropane	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
1,4-Dichlorobenzene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
2,2-Dichloropropane	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
2-Butanone	50	68.8	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
2-Chlorotoluene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
2-Hexanone	50	68.8	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
4-Chlorotoluene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
4-Methyl-2-pentanone	50	68.8	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Acetonitrile	50	68.8	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	



Alpha Testing, Inc.
C. Broussard

Analytical Report

Project Name: GISD

Customer Sample ID: S-1
Oxidor Sample ID: 15050145-001

Matrix: Solid

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Volatile Organic Compounds								
Acrylonitrile	20	27.5	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Benzene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Bromobenzene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Bromochloromethane	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Bromodichloromethane	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Bromoform	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Bromomethane	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Carbon Tetrachloride	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Chlorobenzene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Chloroethane	25	34.4	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Chloroform	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Chloromethane	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Cis-1,2-dichloroethene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Cis-1,3-dichloropropene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Dibromochloromethane	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Dibromomethane	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Dichlorodifluoromethane	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Ethylbenzene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Hexachlorobutadiene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Isopropylbenzene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
m,p-Xylene	10	13.8	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Methylene Chloride	4	5.5	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
MTBE	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Naphthalene	10	13.8	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
N-butylbenzene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
N-propylbenzene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
o-Xylene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
p-Isopropyltoluene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Sec-butylbenzene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Styrene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Tert-butylbenzene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Tetrachloroethene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Toluene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Trans-1,2-dichloroethene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Trans-1,3-dichloropropene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Trichloroethene	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Trichlorofluoromethane	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Vinyl Chloride	5	6.9	ND	µg/kg	05/12/15 16:56	8260	V.D.L.	
Surrogate			Result	Units	Spike Conc	Recovery	Rec Limits	
Dibromofluoromethane			51.3	µg/kg	50 µg/kg	103%	80-120%	
1,2 Dichloroethane-d4			50.7	µg/kg	50 µg/kg	101%	80-120%	
Toluene-d8			51.0	µg/kg	50 µg/kg	102%	81-117%	



Alpha Testing, Inc.
C. Broussard

Analytical Report

Project Name: GISD

Customer Sample ID: S-1
Oxidor Sample ID: 15050145-001

Matrix: Solid

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Volatile Organic Compounds								
Surrogate			Result	Units	Spike Conc	Recovery	Rec Limits	
4-Bromofluorobenzene			50.6	µg/kg	50 µg/kg	101%	74-121%	
Total Petroleum Hydrocarbons								
<i>Prepared by method TX 1005 on 05/07/15 at 12:30</i>								
TPH (C 6 to C12)	25	34.4	ND	mg/Kg	05/08/15 00:22	TX 1005	A.N	*
TPH (C12 to C28)	25	34.4	ND	mg/Kg	05/08/15 00:22	TX 1005	A.N	*
TPH (C28 to C35)	25	34.4	ND	mg/Kg	05/08/15 00:22	TX 1005	A.N	*
TPH (C6 to C35)	25	34.4	ND	mg/Kg	05/08/15 00:22	TX 1005	A.N	*
Surrogate			Result	Units	Spike Conc	Recovery	Rec Limits	
1-chlorooctane			105	mg/Kg	100 mg/Kg	105%	70-130%	
o-Terphenyl			110	mg/Kg	100 mg/Kg	110%	70-130%	



Alpha Testing, Inc.
C. Broussard

Analytical Report

Project Name: GISD

Customer Sample ID: S-2
Oxidor Sample ID: 15050145-002
Sample Received: 5/6/2015

Matrix: Solid
Sample Collected: 5/6/2015 09:40

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
General Chemistry								
% Solids	0.1	0.1	77.5 %		05/07/15 16:40	Dry Weight	V.V.	
Metals								
<i>Digested by method 3050B on 05/07/15 at 11:30</i>								
Arsenic	0.5	0.645	6.96 mg/Kg		05/08/15 11:57	6020	G.S.	
Barium	0.5	0.645	96.3 mg/Kg		05/08/15 11:57	6020	G.S.	
Cadmium	0.1	0.129	ND mg/Kg		05/08/15 11:57	6020	G.S.	
Chromium	0.5	0.645	11.1 mg/Kg		05/08/15 11:57	6020	G.S.	
Lead	0.5	0.645	10.8 mg/Kg		05/08/15 11:57	6020	G.S.	
Selenium	0.5	0.645	1.98 mg/Kg		05/08/15 11:57	6020	G.S.	
Silver	0.1	0.129	ND mg/Kg		05/08/15 11:57	6020	G.S.	
<i>Digested by method 7471A on 05/11/15 at 13:00</i>								
Mercury	0.025	0.0323	ND mg/Kg		05/12/15 14:34	7471	T.M.	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
1,1,1-Trichloroethane	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
1,1,2,2-Tetrachloroethane	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
1,1,2-Trichloroethane	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
1,1-Dichloroethane	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
1,1-Dichloroethene	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
1,1-Dichloropropene	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
1,2,3-Trichlorobenzene	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
1,2,3-Trichloropropane	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
1,2,4-Trichlorobenzene	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
1,2,4-Trimethylbenzene	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
1,2-Dibromo-3-chloropropane	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
1,2-Dibromoethane	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
1,2-Dichlorobenzene	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
1,2-Dichloroethane	4	5.2	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
1,2-Dichloropropane	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
1,3,5-Trimethylbenzene	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
1,3-Dichlorobenzene	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
1,3-Dichloropropane	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
1,4-Dichlorobenzene	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
2,2-Dichloropropane	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
2-Butanone	50	64.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
2-Chlorotoluene	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
2-Hexanone	50	64.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
4-Chlorotoluene	5	6.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
4-Methyl-2-pentanone	50	64.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	
Acetonitrile	50	64.5	ND µg/kg		05/12/15 17:21	8260	V.D.L.	



Alpha Testing, Inc.
C. Broussard

Analytical Report

Project Name: GISD

Customer Sample ID: S-2

Oxidor Sample ID: 15050145-002

Matrix: Solid

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Volatile Organic Compounds								
Acrylonitrile	20	25.8	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Benzene	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Bromobenzene	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Bromochloromethane	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Bromodichloromethane	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Bromoform	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Bromomethane	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Carbon Tetrachloride	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Chlorobenzene	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Chloroethane	25	32.3	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Chloroform	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Chloromethane	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Cis-1,2-dichloroethene	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Cis-1,3-dichloropropene	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Dibromochloromethane	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Dibromomethane	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Dichlorodifluoromethane	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Ethylbenzene	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Hexachlorobutadiene	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Isopropylbenzene	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
m,p-Xylene	10	12.9	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Methylene Chloride	4	5.2	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
MTBE	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Naphthalene	10	12.9	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
N-butylbenzene	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
N-propylbenzene	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
o-Xylene	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
p-Isopropyltoluene	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Sec-butylbenzene	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Styrene	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Tert-butylbenzene	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Tetrachloroethene	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Toluene	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Trans-1,2-dichloroethene	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Trans-1,3-dichloropropene	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Trichloroethene	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Trichlorofluoromethane	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Vinyl Chloride	5	6.5	ND	µg/kg	05/12/15 17:21	8260	V.D.L.	
Surrogate			Result	Units	Spike Conc	Recovery	Rec Limits	
Dibromofluoromethane			52.0	µg/kg	50 µg/kg	104%	80-120%	
1,2 Dichloroethane-d4			51.6	µg/kg	50 µg/kg	103%	80-120%	
Toluene-d8			50.9	µg/kg	50 µg/kg	102%	81-117%	



Alpha Testing, Inc.
C. Broussard

Analytical Report

Project Name: **GISD**

Customer Sample ID: **S-2**

Oxidor Sample ID: **15050145-002**

Matrix: **Solid**

Parameter	MLQ	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Volatile Organic Compounds								
Surrogate			Result	Units	Spike Conc	Recovery	Rec Limits	
4-Bromofluorobenzene			50.8	µg/kg	50 µg/kg	102%	74-121%	
Total Petroleum Hydrocarbons								
<i>Prepared by method TX 1005 on 05/07/15 at 12:30</i>								
TPH (C 6 to C12)	25	32.3	ND	mg/Kg	05/08/15 01:12	TX 1005	A.N	*
TPH (C12 to C28)	25	32.3	ND	mg/Kg	05/08/15 01:12	TX 1005	A.N	*
TPH (C28 to C35)	25	32.3	ND	mg/Kg	05/08/15 01:12	TX 1005	A.N	*
TPH (C6 to C35)	25	32.3	ND	mg/Kg	05/08/15 01:12	TX 1005	A.N	*
Surrogate			Result	Units	Spike Conc	Recovery	Rec Limits	
1-chlorooctane			104	mg/Kg	100 mg/Kg	104%	70-130%	
o-Terphenyl			107	mg/Kg	100 mg/Kg	107%	70-130%	



Alpha Testing, Inc.
C. Broussard

Analytical Report

Project Name: GISD

Customer Sample ID: S-3
Oxidor Sample ID: 15050145-003
Sample Received: 5/6/2015

Matrix: Solid
Sample Collected: 5/6/2015 09:50

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
General Chemistry								
% Solids	0.1	0.1	81.8	%	05/07/15 16:40	Dry Weight	V.V.	
Metals								
<i>Digested by method 3050B on 05/07/15 at 11:30</i>								
Arsenic	0.5	0.611	8.02	mg/Kg	05/08/15 11:44	6020	G.S.	
Barium	0.5	0.611	103	mg/Kg	05/08/15 11:44	6020	G.S.	
Cadmium	0.1	0.122	ND	mg/Kg	05/08/15 11:44	6020	G.S.	
Chromium	0.5	0.611	23.2	mg/Kg	05/08/15 11:44	6020	G.S.	
Lead	0.5	0.611	12.7	mg/Kg	05/08/15 11:44	6020	G.S.	
Selenium	0.5	0.611	2.38	mg/Kg	05/08/15 11:44	6020	G.S.	
Silver	0.1	0.122	ND	mg/Kg	05/08/15 11:44	6020	G.S.	
<i>Digested by method 7471A on 05/11/15 at 13:00</i>								
Mercury	0.025	0.0306	ND	mg/Kg	05/12/15 14:36	7471	T.M.	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
1,1,1-Trichloroethane	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
1,1,2,2-Tetrachloroethane	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
1,1,2-Trichloroethane	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
1,1-Dichloroethane	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
1,1-Dichloroethene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
1,1-Dichloropropene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
1,2,3-Trichlorobenzene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
1,2,3-Trichloropropane	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
1,2,4-Trichlorobenzene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
1,2,4-Trimethylbenzene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
1,2-Dibromo-3-chloropropane	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
1,2-Dibromoethane	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
1,2-Dichlorobenzene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
1,2-Dichloroethane	4	4.9	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
1,2-Dichloropropane	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
1,3,5-Trimethylbenzene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
1,3-Dichlorobenzene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
1,3-Dichloropropane	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
1,4-Dichlorobenzene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
2,2-Dichloropropane	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
2-Butanone	50	61.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
2-Chlorotoluene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
2-Hexanone	50	61.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
4-Chlorotoluene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
4-Methyl-2-pentanone	50	61.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Acetonitrile	50	61.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	



Alpha Testing, Inc.
C. Broussard

Analytical Report

Project Name: GISD

Customer Sample ID: S-3

Oxidor Sample ID: 15050145-003

Matrix: Solid

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Volatile Organic Compounds								
Acrylonitrile	20	24.4	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Benzene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Bromobenzene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Bromochloromethane	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Bromodichloromethane	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Bromoform	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Bromomethane	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Carbon Tetrachloride	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Chlorobenzene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Chloroethane	25	30.6	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Chloroform	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Chloromethane	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Cis-1,2-dichloroethene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Cis-1,3-dichloropropene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Dibromochloromethane	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Dibromomethane	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Dichlorodifluoromethane	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Ethylbenzene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Hexachlorobutadiene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Isopropylbenzene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
m,p-Xylene	10	12.2	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Methylene Chloride	4	4.9	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
MTBE	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Naphthalene	10	12.2	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
N-butylbenzene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
N-propylbenzene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
o-Xylene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
p-Isopropyltoluene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Sec-butylbenzene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Styrene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Tert-butylbenzene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Tetrachloroethene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Toluene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Trans-1,2-dichloroethene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Trans-1,3-dichloropropene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Trichloroethene	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Trichlorofluoromethane	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Vinyl Chloride	5	6.1	ND	µg/kg	05/12/15 17:45	8260	V.D.L.	
Surrogate			Result	Units	Spike Conc	Recovery	Rec Limits	
Dibromofluoromethane			50.1	µg/kg	50 µg/kg	100%	80-120%	
1,2 Dichloroethane-d4			49.1	µg/kg	50 µg/kg	98%	80-120%	
Toluene-d8			52.3	µg/kg	50 µg/kg	105%	81-117%	



Alpha Testing, Inc.
C. Broussard

Analytical Report

Project Name: GISD

Customer Sample ID: S-3
Oxidor Sample ID: 15050145-003

Matrix: Solid

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Volatile Organic Compounds								
Surrogate			Result	Units	Spike Conc	Recovery	Rec Limits	
4-Bromofluorobenzene			52.4	µg/kg	50 µg/kg	105%	74-121%	
Total Petroleum Hydrocarbons								
<i>Prepared by method TX 1005 on 05/07/15 at 12:30</i>								
TPH (C 6 to C12)	25	30.6	ND	mg/Kg	05/08/15 02:01	TX 1005	A.N	*
TPH (C12 to C28)	25	30.6	ND	mg/Kg	05/08/15 02:01	TX 1005	A.N	*
TPH (C28 to C35)	25	30.6	ND	mg/Kg	05/08/15 02:01	TX 1005	A.N	*
TPH (C6 to C35)	25	30.6	ND	mg/Kg	05/08/15 02:01	TX 1005	A.N	*
Surrogate			Result	Units	Spike Conc	Recovery	Rec Limits	
1-chlorooctane			101	mg/Kg	100 mg/Kg	101%	70-130%	
o-Terphenyl			107	mg/Kg	100 mg/Kg	107%	70-130%	



Alpha Testing, Inc.
C. Broussard

Analytical Report

Project Name: GISD

Customer Sample ID: S-4

Oxidor Sample ID: 15050145-004

Sample Received: 5/6/2015

Matrix: Solid

Sample Collected: 5/6/2015 10:15

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
General Chemistry								
% Solids	0.1	0.1	76.7	%	05/07/15 16:40	Dry Weight	V.V.	
Metals								
<i>Digested by method 3050B on 05/13/15 at 16:00</i>								
Arsenic	0.5	0.652	3.17	mg/Kg	05/13/15 17:31	6020	G.S.	
Barium	0.5	0.652	72.2	mg/Kg	05/13/15 17:31	6020	G.S.	
Cadmium	0.1	0.130	ND	mg/Kg	05/13/15 17:31	6020	G.S.	
Chromium	0.5	0.652	4.54	mg/Kg	05/13/15 17:31	6020	G.S.	
Lead	0.5	0.652	11.1	mg/Kg	05/13/15 17:31	6020	G.S.	
Selenium	0.5	0.652	1.55	mg/Kg	05/13/15 17:31	6020	G.S.	
Silver	0.1	0.130	ND	mg/Kg	05/13/15 17:31	6020	G.S.	
<i>Digested by method 7471A on 05/11/15 at 13:00</i>								
Mercury	0.025	0.0326	ND	mg/Kg	05/12/15 14:38	7471	T.M.	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
1,1,1-Trichloroethane	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
1,1,2,2-Tetrachloroethane	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
1,1,2-Trichloroethane	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
1,1-Dichloroethane	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
1,1-Dichloroethene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
1,1-Dichloropropene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
1,2,3-Trichlorobenzene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
1,2,3-Trichloropropane	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
1,2,4-Trichlorobenzene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
1,2,4-Trimethylbenzene	5	6.5	47.4	µg/kg	05/12/15 18:10	8260	V.D.L.	
1,2-Dibromo-3-chloropropane	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
1,2-Dibromoethane	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
1,2-Dichlorobenzene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
1,2-Dichloroethane	4	5.2	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
1,2-Dichloropropane	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
1,3,5-Trimethylbenzene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
1,3-Dichlorobenzene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
1,3-Dichloropropane	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
1,4-Dichlorobenzene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
2,2-Dichloropropane	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
2-Butanone	50	65.2	367	µg/kg	05/12/15 18:10	8260	V.D.L.	J-4
2-Chlorotoluene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
2-Hexanone	50	65.2	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
4-Chlorotoluene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
4-Methyl-2-pentanone	50	65.2	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Acetonitrile	50	65.2	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	



Alpha Testing, Inc.
C. Broussard

Analytical Report

Project Name: GISD

Customer Sample ID: S-4
Oxidor Sample ID: 15050145-004

Matrix: Solid

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Volatile Organic Compounds								
Acrylonitrile	20	26.1	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Benzene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Bromobenzene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Bromochloromethane	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Bromodichloromethane	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Bromoform	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Bromomethane	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	*
Carbon Tetrachloride	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Chlorobenzene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Chloroethane	25	32.6	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	*
Chloroform	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Chloromethane	5	6.5	ND	µg/kg	05/12/15 18:10	8280	V.D.L.	
Cis-1,2-dichloroethene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Cis-1,3-dichloropropene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Dibromochloromethane	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Dibromomethane	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Dichlorodifluoromethane	5	6.5	ND	µg/kg	05/12/15 18:10	8280	V.D.L.	
Ethylbenzene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Hexachlorobutadiene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Isopropylbenzene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
m,p-Xylene	10	13.0	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Methylene Chloride	4	5.2	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
MTBE	5	6.5	118	µg/kg	05/12/15 18:10	8260	V.D.L.	
Naphthalene	10	13.0	13.0	µg/kg	05/12/15 18:10	8260	V.D.L.	
N-butylbenzene	5	6.5	17.9	µg/kg	05/12/15 18:10	8260	V.D.L.	
N-propylbenzene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
o-Xylene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
p-Isopropyltoluene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Sec-butylbenzene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Styrene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Tert-butylbenzene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Tetrachloroethene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Toluene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Trans-1,2-dichloroethene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Trans-1,3-dichloropropene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Trichloroethene	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Trichlorofluoromethane	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	*
Vinyl Chloride	5	6.5	ND	µg/kg	05/12/15 18:10	8260	V.D.L.	
Surrogate			Result	Units	Spike Conc	Recovery	Rec Limits	
Dibromofluoromethane			49.8	µg/kg	50 µg/kg	100%	80-120%	
1,2 Dichloroethane-d4			48.0	µg/kg	50 µg/kg	96%	80-120%	
Toluene-d8			50.3	µg/kg	50 µg/kg	101%	81-117%	



Alpha Testing, Inc.
C. Broussard

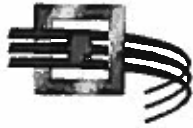
Analytical Report

Project Name: **GISD**

Customer Sample ID: **S-4**
Oxidor Sample ID: **15050145-004**

Matrix: **Solid**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Volatile Organic Compounds								
Surrogate			Result	Units	Spike Conc	Recovery	Rec Limits	
4-Bromofluorobenzene			48.9	µg/kg	50 µg/kg	98%	74-121%	
Total Petroleum Hydrocarbons								
<i>Prepared by method TX 1005 on 05/07/15 at 12:30</i>								
TPH (C 6 to C12)	25	32.6	ND	mg/Kg	05/08/15 02:50	TX 1005	A.N	*
TPH (C12 to C28)	25	32.6	ND	mg/Kg	05/08/15 02:50	TX 1005	A.N	*
TPH (C28 to C35)	25	32.6	ND	mg/Kg	05/08/15 02:50	TX 1005	A.N	*
TPH (C6 to C35)	25	32.6	ND	mg/Kg	05/08/15 02:50	TX 1005	A.N	*
Surrogate			Result	Units	Spike Conc	Recovery	Rec Limits	
1-chlorooctane			108	mg/Kg	100 mg/Kg	108%	70-130%	
o-Terphenyl			111	mg/Kg	100 mg/Kg	111%	70-130%	



Alpha Testing, Inc.
C. Broussard

Sample Cross Reference

Project Name: GISD

Customer ID:	Lab ID:	Test	Method	QCBatchID:
S-1	15050145-001	Total Petroleum Hydrocarbons	TX 1005	1005_06533BS
		Dry Weight	Dry Weight	DW__08229_S
		Mercury	7471	MER_01231_S
		Arsenic	6020	META_00554_S
		Selenium	6020	META_00554_S
		Lead	6020	META_00554_S
		Chromium	6020	META_00554_S
		Cadmium	6020	META_00554_S
		Barium	6020	META_00554_S
		Silver	6020	META_00554_S
		Volatile Organic Compounds	8260	VOC_15015_S
S-2	15050145-002	Total Petroleum Hydrocarbons	TX 1005	1005_06533BS
		Dry Weight	Dry Weight	DW__08229_S
		Mercury	7471	MER_01531_S
		Silver	6020	META_00554_S
		Selenium	6020	META_00554_S
		Lead	6020	META_00554_S
		Chromium	6020	META_00554_S
		Cadmium	6020	META_00554_S
		Arsenic	6020	META_00554_S
		Barium	6020	META_00554_S
		Volatile Organic Compounds	8260	VOC_15015_S
S-3	15050145-003	Total Petroleum Hydrocarbons	TX 1005	1005_06533BS
		Dry Weight	Dry Weight	DW__08229_S
		Mercury	7471	MER_01531_S
		Arsenic	6020	META_00554_S
		Selenium	6020	META_00554_S
		Lead	6020	META_00554_S
		Chromium	6020	META_00554_S
		Cadmium	6020	META_00554_S
		Barium	6020	META_00554_S
		Silver	6020	META_00554_S
		Volatile Organic Compounds	8260	VOC_15015_S
S-4	15050145-004	Total Petroleum Hydrocarbons	TX 1005	1005_06533BS
		Dry Weight	Dry Weight	DW__08229_S
		Mercury	7471	MER_01531_S
		Silver	6020	META_00754_S
		Selenium	6020	META_00754_S
		Lead	6020	META_00754_S
		Chromium	6020	META_00754_S
		Cadmium	6020	META_00754_S
		Arsenic	6020	META_00754_S
		Barium	6020	META_00754_S
		Volatile Organic Compounds	8260	VOC_15015_S



Alpha Testing, Inc.
C. Broussard

QC Summary

Project Name: GISD

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID DW_08229_S									
Replicate	% Solids	88.8 %	89.6 %				0.9%	0-20%	
QCBatchID MER_01231_S									
Blank	Mercury	ND mg/Kg							
LCS	Mercury	0.501 mg/Kg		0.5 mg/Kg	100%	85-115%			
LCSD	Mercury	0.470 mg/Kg		0.5 mg/Kg	94%	85-115%	6.4%	0-25%	
MS	Mercury	0.490 mg/Kg	ND	0.5 mg/Kg	98%	80-120%			
MSD	Mercury	0.520 mg/Kg	ND	0.5 mg/Kg	104%	80-120%	5.9%	0-25%	
QCBatchID MER_01531_S									
Blank	Mercury	ND mg/Kg							
LCS	Mercury	0.533 mg/Kg		0.5 mg/Kg	107%	85-115%			
LCSD	Mercury	0.521 mg/Kg		0.5 mg/Kg	104%	85-115%	2.3%	0-25%	
MS	Mercury	0.502 mg/Kg	ND	0.5 mg/Kg	100%	80-120%			
MSD	Mercury	0.496 mg/Kg	ND	0.5 mg/Kg	99%	80-120%	1.2%	0-25%	
QCBatchID META_00554_S									
Blank	Arsenic	ND mg/Kg							
	Barium	ND mg/Kg							
	Cadmium	ND mg/Kg							
	Chromium	ND mg/Kg							
	Lead	ND mg/Kg							
	Selenium	ND mg/Kg							
	Silver	ND mg/Kg							
LCS	Arsenic	52.4 mg/L		50 mg/L	105%	85-115%			
	Barium	588 mg/L		550 mg/L	103%	85-115%			
	Cadmium	51.9 mg/L		50 mg/L	104%	85-115%			
	Chromium	52.9 mg/L		50 mg/L	106%	85-115%			
	Lead	50.4 mg/L		50 mg/L	101%	85-115%			
	Selenium	46.3 mg/L		50 mg/L	93%	85-115%			
	Silver	53.1 mg/L		50 mg/L	106%	85-115%			
LCSD	Arsenic	52.5 mg/L		50 mg/L	105%	85-115%	0.2%	0-20%	
	Barium	580 mg/L		550 mg/L	106%	85-115%	2.1%	0-20%	
	Cadmium	51.6 mg/L		50 mg/L	103%	85-115%	0.7%	0-20%	
	Chromium	53.0 mg/L		50 mg/L	106%	85-115%	0.1%	0-20%	
	Lead	49.9 mg/L		50 mg/L	100%	85-115%	1.0%	0-20%	
	Selenium	51.5 mg/L		50 mg/L	103%	85-115%	10.6%	0-20%	
	Silver	52.2 mg/L		50 mg/L	105%	85-115%	1.7%	0-20%	
MS	Arsenic	53.7 mg/Kg	6.56 mg/Kg	50 mg/Kg	94%	80-120%			
	Barium	644 mg/Kg	84.4 mg/Kg	550 mg/Kg	102%	80-120%			
	Cadmium	50.0 mg/Kg	0.022	50 mg/Kg	100%	80-120%			
	Chromium	71.0 mg/Kg	19.0 mg/Kg	50 mg/Kg	104%	80-120%			
	Lead	59.3 mg/Kg	10.4 mg/Kg	50 mg/Kg	98%	80-120%			
	Selenium	46.3 mg/Kg	1.95 mg/Kg	50 mg/Kg	89%	80-120%			
	Silver	50.4 mg/Kg	0.031	50 mg/Kg	101%	80-120%			



Alpha Testing, Inc.
C. Broussard

QC Summary

Project Name: GISD

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID META_00554_S									
MSD	Arsenic	54.8 mg/Kg	6.56 mg/Kg	50 mg/Kg	97%	80-120%	2.1%	0-20%	
	Barium	762 mg/Kg	84.4 mg/Kg	550 mg/Kg	123%	80-120%	16.8%	0-20%	Q-7
	Cadmium	50.9 mg/Kg	0.022	50 mg/Kg	102%	80-120%	1.9%	0-20%	
	Chromium	73.0 mg/Kg	19.0 mg/Kg	50 mg/Kg	108%	80-120%	2.8%	0-20%	
	Lead	58.8 mg/Kg	10.4 mg/Kg	50 mg/Kg	97%	80-120%	0.8%	0-20%	
	Selenium	48.9 mg/Kg	1.95 mg/Kg	50 mg/Kg	94%	80-120%	5.5%	0-20%	
	Silver	51.8 mg/Kg	0.031	50 mg/Kg	104%	80-120%	2.8%	0-20%	
QCBatchID META_00754_S									
Blank	Arsenic	ND mg/Kg							
	Barium	ND mg/Kg							
	Cadmium	ND mg/Kg							
	Chromium	ND mg/Kg							
	Lead	ND mg/Kg							
	Selenium	ND mg/Kg							
	Silver	ND mg/Kg							
LCS	Arsenic	48.8 mg/L		50 mg/L	98%	85-115%			
	Barium	492 mg/L		550 mg/L	90%	85-115%			
	Cadmium	50.0 mg/L		50 mg/L	100%	85-115%			
	Chromium	50.4 mg/L		50 mg/L	101%	85-115%			
	Lead	47.1 mg/L		50 mg/L	94%	85-115%			
	Selenium	47.1 mg/L		50 mg/L	94%	85-115%			
	Silver	51.1 mg/L		50 mg/L	102%	85-115%			
LCSD	Arsenic	50.7 mg/L		50 mg/L	101%	85-115%	3.8%	0-20%	
	Barium	485 mg/L		550 mg/L	88%	85-115%	1.5%	0-20%	
	Cadmium	49.4 mg/L		50 mg/L	99%	85-115%	1.3%	0-20%	
	Chromium	51.2 mg/L		50 mg/L	103%	85-115%	1.7%	0-20%	
	Lead	47.5 mg/L		50 mg/L	95%	85-115%	0.8%	0-20%	
	Selenium	50.0 mg/L		50 mg/L	100%	85-115%	5.9%	0-20%	
	Silver	51.1 mg/L		50 mg/L	102%	85-115%	0.0%	0-20%	
MS	Arsenic	49.2 mg/Kg	2.44 mg/Kg	50 mg/Kg	93%	80-120%			
	Barium	609 mg/Kg	55.4 mg/Kg	550 mg/Kg	101%	80-120%			
	Cadmium	49.1 mg/Kg	0.027 mg/Kg	50 mg/Kg	98%	80-120%			
	Chromium	53.3 mg/Kg	3.48 mg/Kg	50 mg/Kg	83%	80-120%			
	Lead	53.4 mg/Kg	8.55 mg/Kg	50 mg/Kg	90%	80-120%			
	Selenium	46.0 mg/Kg	1.19 mg/Kg	50 mg/Kg	90%	80-120%			
	Silver	50.2 mg/Kg	0.041 mg/Kg	50 mg/Kg	100%	80-120%			
MSD	Arsenic	50.6 mg/Kg	2.44 mg/Kg	50 mg/Kg	96%	80-120%	2.8%	0-20%	
	Barium	631 mg/Kg	55.4 mg/Kg	550 mg/Kg	105%	80-120%	3.5%	0-20%	
	Cadmium	49.3 mg/Kg	0.027 mg/Kg	50 mg/Kg	99%	80-120%	0.4%	0-20%	
	Chromium	52.9 mg/Kg	3.48 mg/Kg	50 mg/Kg	82%	80-120%	0.8%	0-20%	
	Lead	55.2 mg/Kg	8.55 mg/Kg	50 mg/Kg	93%	80-120%	3.4%	0-20%	
	Selenium	50.9 mg/Kg	1.19 mg/Kg	50 mg/Kg	99%	80-120%	10.1%	0-20%	
	Silver	50.6 mg/Kg	0.041 mg/Kg	50 mg/Kg	101%	80-120%	0.8%	0-20%	



Alpha Testing, Inc.
C. Broussard

QC Summary

Project Name: GISD

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID 1005_06533BS									
Blank	TPH (C 6 to C12)	ND mg/Kg							
	TPH (C12 to C28)	ND mg/Kg							
	TPH (C28 to C35)	ND mg/Kg							
	TPH (C6 to C35)	ND mg/Kg							
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	1-chlorooctane	93.2 mg/Kg		100 mg/Kg	93%	70-130%			
	o-Terphenyl	98.2 mg/Kg		100 mg/Kg	98%	70-130%			
LCS	TPH (C6 to C35)	119 mg/Kg		100 mg/Kg	119%	75-125%			
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	1-chlorooctane	102 mg/Kg		100 mg/Kg	102%	70-130%			
	o-Terphenyl	101 mg/Kg		100 mg/Kg	101%	70-130%			
LCSD	TPH (C6 to C35)	122 mg/Kg		100 mg/Kg	122%	75-125%	3.1%	0-20%	
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	1-chlorooctane	102 mg/Kg		100 mg/Kg	102%	70-130%			
	o-Terphenyl	102 mg/Kg		100 mg/Kg	102%	70-130%			
MS	TPH (C6 to C35)	147 mg/Kg	ND	100 mg/Kg	147%	75-125%			Q-7
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	1-chlorooctane	108 mg/Kg		100 mg/Kg	106%	70-130%			
	o-Terphenyl	106 mg/Kg		100 mg/Kg	106%	70-130%			
MSD	TPH (C6 to C35)	155 mg/Kg	ND	100 mg/Kg	155%	75-125%	5.1%	0-20%	Q-7
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	1-chlorooctane	110 mg/Kg		100 mg/Kg	110%	70-130%			
	o-Terphenyl	110 mg/Kg		100 mg/Kg	110%	70-130%			

QCBatchID VOC_15015_S									
Blank	Dichlorodifluoromethane	ND µg/kg							
	Chloromethane	ND µg/kg							
	Vinyl Chloride	ND µg/kg							
	Bromomethane	ND µg/kg							
	Chloroethane	ND µg/kg							
	Trichlorofluoromethane	ND µg/kg							
	1,1-Dichloroethene	ND µg/kg							
	Acetonitrile	ND µg/kg							
	Methylene Chloride	ND µg/kg							
	Acrylonitrile	ND µg/kg							
	Trans-1,2-dichloroethene	ND µg/kg							
	MTBE	ND µg/kg							
	1,1-Dichloroethane	ND µg/kg							
	2,2-Dichloropropane	ND µg/kg							
	Cis-1,2-dichloroethene	ND µg/kg							
	2-Butanone	ND µg/kg							
	Bromochloromethane	ND µg/kg							
	Chloroform	ND µg/kg							



Alpha Testing, Inc.
C. Broussard

QC Summary

Project Name: GISD

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID	VOC_15015_S								
	1,1,1-Trichloroethane	ND	µg/kg						
	1,1-Dichloropropene	ND	µg/kg						
	Carbon Tetrachloride	ND	µg/kg						
	Benzene	ND	µg/kg						
	1,2-Dichloroethane	ND	µg/kg						
	Trichloroethene	ND	µg/kg						
	1,2-Dichloropropane	ND	µg/kg						
	Dibromomethane	ND	µg/kg						
	Bromodichloromethane	ND	µg/kg						
	Cis-1,3-dichloropropene	ND	µg/kg						
	4-Methyl-2-pentanone	ND	µg/kg						
	Toluene	ND	µg/kg						
	Trans-1,3-dichloropropene	ND	µg/kg						
	1,1,2-Trichloroethane	ND	µg/kg						
	1,3-Dichloropropane	ND	µg/kg						
	Tetrachloroethene	ND	µg/kg						
	2-Hexanone	ND	µg/kg						
	Dibromochloromethane	ND	µg/kg						
	1,2-Dibromoethane	ND	µg/kg						
	Chlorobenzene	ND	µg/kg						
	1,1,1,2-Tetrachloroethane	ND	µg/kg						
	Ethylbenzene	ND	µg/kg						
	m,p-Xylene	ND	µg/kg						
	o-Xylene	ND	µg/kg						
	Styrene	ND	µg/kg						
	Bromoform	ND	µg/kg						
	Isopropylbenzene	ND	µg/kg						
	1,1,2,2-Tetrachloroethane	ND	µg/kg						
	Bromobenzene	ND	µg/kg						
	1,2,3-Trichloropropane	ND	µg/kg						
	N-propylbenzene	ND	µg/kg						
	2-Chlorotoluene	ND	µg/kg						
	1,3,5-Trimethylbenzene	ND	µg/kg						
	4-Chlorotoluene	ND	µg/kg						
	Tert-butylbenzene	ND	µg/kg						
	1,2,4-Trimethylbenzene	ND	µg/kg						
	Sec-butylbenzene	ND	µg/kg						
	1,3-Dichlorobenzene	ND	µg/kg						
	p-Isopropyltoluene	ND	µg/kg						
	1,4-Dichlorobenzene	ND	µg/kg						
	N-butylbenzene	ND	µg/kg						
	1,2-Dichlorobenzene	ND	µg/kg						
	1,2-Dibromo-3-chloropropane	ND	µg/kg						



Alpha Testing, Inc.
C. Broussard

QC Summary

Project Name: GISD

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID VOC_15015_S									
	1,2,4-Trichlorobenzene	ND µg/kg							
	Hexachlorobutadiene	ND µg/kg							
	Naphthalene	ND µg/kg							
	1,2,3-Trichlorobenzene	ND µg/kg							
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	Dibromofluoromethane	49.5 µg/kg		50 µg/kg	99%	80-120%			
	1,2 Dichloroethane-d4	50.1 µg/kg		50 µg/kg	100%	80-120%			
	Toluene-d8	49.4 µg/kg		50 µg/kg	99%	81-117%			
	4-Bromofluorobenzene	48.6 µg/kg		50 µg/kg	97%	74-121%			
LCS	Dichlorodifluoromethane	39.8 µg/kg		50 µg/kg	80%	70-130%			
	Chloromethane	44.7 µg/kg		50 µg/kg	89%	70-130%			
	Vinyl Chloride	46.2 µg/kg		50 µg/kg	92%	70-130%			
	Bromomethane	40.6 µg/kg		50 µg/kg	81%	70-130%			
	Chloroethane	46.4 µg/kg		50 µg/kg	93%	70-130%			
	Trichlorofluoromethane	49.0 µg/kg		50 µg/kg	98%	70-130%			
	1,1-Dichloroethene	51.1 µg/kg		50 µg/kg	102%	70-130%			
	Acetonitrile	52.0 µg/kg		50 µg/kg	104%	60-140%			
	Methylene Chloride	56.4 µg/kg		50 µg/kg	113%	70-130%			
	Acrylonitrile	49.8 µg/kg		50 µg/kg	100%	60-140%			
	Trans-1,2-dichloroethene	50.8 µg/kg		50 µg/kg	102%	70-130%			
	MTBE	50.0 µg/kg		50 µg/kg	100%	70-130%			
	1,1-Dichloroethane	51.2 µg/kg		50 µg/kg	102%	70-130%			
	2,2-Dichloropropane	53.4 µg/kg		50 µg/kg	107%	70-130%			
	Cis-1,2-dichloroethene	52.1 µg/kg		50 µg/kg	104%	70-130%			
	2-Butanone	55.2 µg/kg		50 µg/kg	110%	60-140%			
	Bromochloromethane	50.8 µg/kg		50 µg/kg	101%	60-140%			
	Chloroform	55.4 µg/kg		50 µg/kg	111%	70-130%			
	1,1,1-Trichloroethane	51.2 µg/kg		50 µg/kg	102%	70-130%			
	1,1-Dichloropropene	50.8 µg/kg		50 µg/kg	101%	40-160%			
	Carbon Tetrachloride	56.0 µg/kg		50 µg/kg	112%	70-130%			
	Benzene	51.1 µg/kg		50 µg/kg	102%	70-130%			
	1,2-Dichloroethane	50.6 µg/kg		50 µg/kg	101%	70-130%			
	Trichloroethene	49.6 µg/kg		50 µg/kg	99%	70-130%			
	1,2-Dichloropropane	49.8 µg/kg		50 µg/kg	100%	70-130%			
	Dibromomethane	51.7 µg/kg		50 µg/kg	103%	70-130%			
	Bromodichloromethane	51.9 µg/kg		50 µg/kg	104%	70-130%			
	Cis-1,3-dichloropropene	52.8 µg/kg		50 µg/kg	106%	70-130%			
	4-Methyl-2-pentanone	51.7 µg/kg		50 µg/kg	103%	60-140%			
	Toluene	50.3 µg/kg		50 µg/kg	101%	70-130%			
	Trans-1,3-dichloropropene	53.5 µg/kg		50 µg/kg	107%	70-130%			
	1,1,2-Trichloroethane	51.2 µg/kg		50 µg/kg	102%	70-130%			
	1,3-Dichloropropane	51.7 µg/kg		50 µg/kg	103%	70-130%			
	Tetrachloroethene	49.9 µg/kg		50 µg/kg	100%	70-130%			



Alpha Testing, Inc.
C. Broussard

QC Summary

Project Name: GISD

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QC Batch ID: VOC_15015_S									
	2-Hexanone	53.4 µg/kg		50 µg/kg	107%	60-140%			
	Dibromochloromethane	55.5 µg/kg		50 µg/kg	111%	70-130%			
	1,2-Dibromoethane	52.9 µg/kg		50 µg/kg	108%	70-130%			
	Chlorobenzene	49.8 µg/kg		50 µg/kg	100%	70-130%			
	1,1,1,2-Tetrachloroethane	52.7 µg/kg		50 µg/kg	105%	70-130%			
	Ethylbenzene	50.3 µg/kg		50 µg/kg	101%	70-130%			
	m,p-Xylene	97.8 µg/kg		100 µg/kg	98%	70-130%			
	o-Xylene	49.9 µg/kg		50 µg/kg	100%	70-130%			
	Styrene	51.8 µg/kg		50 µg/kg	104%	70-130%			
	Bromoform	56.0 µg/kg		50 µg/kg	112%	70-130%			
	Isopropylbenzene	51.3 µg/kg		50 µg/kg	103%	70-130%			
	1,1,1,2,2-Tetrachloroethane	51.7 µg/kg		50 µg/kg	103%	70-130%			
	Bromobenzene	50.6 µg/kg		50 µg/kg	101%	70-130%			
	1,2,3-Trichloropropane	51.7 µg/kg		50 µg/kg	103%	70-130%			
	N-propylbenzene	51.6 µg/kg		50 µg/kg	103%	70-130%			
	2-Chlorotoluene	49.7 µg/kg		50 µg/kg	99%	70-130%			
	1,3,5-Trimethylbenzene	50.9 µg/kg		50 µg/kg	102%	70-130%			
	4-Chlorotoluene	51.0 µg/kg		50 µg/kg	102%	70-130%			
	Tert-butylbenzene	50.6 µg/kg		50 µg/kg	101%	70-130%			
	1,2,4-Trimethylbenzene	51.9 µg/kg		50 µg/kg	104%	70-130%			
	Sec-butylbenzene	50.8 µg/kg		50 µg/kg	101%	70-130%			
	1,3-Dichlorobenzene	50.6 µg/kg		50 µg/kg	101%	70-130%			
	p-Isopropyltoluene	50.4 µg/kg		50 µg/kg	101%	70-130%			
	1,4-Dichlorobenzene	50.0 µg/kg		50 µg/kg	100%	70-130%			
	N-butylbenzene	54.2 µg/kg		50 µg/kg	108%	70-130%			
	1,2-Dichlorobenzene	50.6 µg/kg		50 µg/kg	101%	70-130%			
	1,2-Dibromo-3-chloropropane	48.6 µg/kg		50 µg/kg	97%	70-130%			
	1,2,4-Trichlorobenzene	50.4 µg/kg		50 µg/kg	101%	70-130%			
	Hexachlorobutadiene	52.1 µg/kg		50 µg/kg	104%	70-130%			
	Naphthalene	51.2 µg/kg		50 µg/kg	102%	70-130%			
	1,2,3-Trichlorobenzene	50.6 µg/kg		50 µg/kg	101%	70-130%			
	Surrogates	Result		Spike Conc	Recovery	Rec Limits			
	Dibromofluoromethane	50.0 µg/kg		50 µg/kg	100%	80-120%			
	1,2 Dichloroethane-d4	48.8 µg/kg		50 µg/kg	98%	80-120%			
	Toluene-d8	48.8 µg/kg		50 µg/kg	98%	81-117%			
	4-Bromofluorobenzene	48.3 µg/kg		50 µg/kg	97%	74-121%			
LCSD	Dichlorodifluoromethane	40.7 µg/kg		50 µg/kg	81%	70-130%	2.2%	0-25%	
	Chloromethane	45.3 µg/kg		50 µg/kg	91%	70-130%	1.3%	0-25%	
	Vinyl Chloride	47.9 µg/kg		50 µg/kg	96%	70-130%	3.6%	0-25%	
	Bromomethane	44.3 µg/kg		50 µg/kg	89%	70-130%	8.7%	0-25%	
	Chloroethane	46.3 µg/kg		50 µg/kg	93%	70-130%	0.2%	0-25%	
	Trichlorofluoromethane	49.7 µg/kg		50 µg/kg	99%	70-130%	1.4%	0-25%	



Alpha Testing, Inc.
C. Broussard

QC Summary

Project Name: GISD

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID	VOC_15015_S								
	1,1-Dichloroethene	51.7 µg/kg		50 µg/kg	103%	70-130%	1.2%	0-25%	
	Acetonitrile	44.1 µg/kg		50 µg/kg	88%	60-140%	16.4%	0-25%	
	Methylene Chloride	54.8 µg/kg		50 µg/kg	110%	70-130%	2.9%	0-25%	
	Acrylonitrile	44.8 µg/kg		50 µg/kg	90%	60-140%	10.6%	0-25%	
	Trans-1,2-dichloroethene	50.2 µg/kg		50 µg/kg	100%	70-130%	1.2%	0-25%	
	MTBE	46.0 µg/kg		50 µg/kg	92%	70-130%	8.3%	0-25%	
	1,1-Dichloroethane	50.8 µg/kg		50 µg/kg	102%	70-130%	0.8%	0-25%	
	2,2-Dichloropropane	52.8 µg/kg		50 µg/kg	106%	70-130%	1.1%	0-25%	
	Cis-1,2-dichloroethene	51.5 µg/kg		50 µg/kg	103%	70-130%	1.2%	0-25%	
	2-Butanone	51.4 µg/kg		50 µg/kg	103%	60-140%	7.1%	0-25%	
	Bromochloromethane	48.0 µg/kg		50 µg/kg	96%	60-140%	5.3%	0-25%	
	Chloroform	54.8 µg/kg		50 µg/kg	110%	70-130%	1.1%	0-25%	
	1,1,1-Trichloroethane	51.4 µg/kg		50 µg/kg	103%	70-130%	0.4%	0-25%	
	1,1-Dichloropropene	50.4 µg/kg		50 µg/kg	101%	40-160%	0.4%	0-25%	
	Carbon Tetrachloride	56.1 µg/kg		50 µg/kg	112%	70-130%	0.2%	0-25%	
	Benzene	51.1 µg/kg		50 µg/kg	102%	70-130%	0.0%	0-25%	
	1,2-Dichloroethane	48.2 µg/kg		50 µg/kg	96%	70-130%	4.9%	0-25%	
	Trichloroethene	51.1 µg/kg		50 µg/kg	102%	70-130%	3.0%	0-25%	
	1,2-Dichloropropane	51.5 µg/kg		50 µg/kg	103%	70-130%	3.4%	0-25%	
	Dibromomethane	49.8 µg/kg		50 µg/kg	100%	70-130%	3.7%	0-25%	
	Bromodichloromethane	52.5 µg/kg		50 µg/kg	105%	70-130%	1.1%	0-25%	
	Cis-1,3-dichloropropene	53.0 µg/kg		50 µg/kg	106%	70-130%	0.4%	0-25%	
	4-Methyl-2-pentanone	46.9 µg/kg		50 µg/kg	94%	60-140%	9.7%	0-25%	
	Toluene	52.1 µg/kg		50 µg/kg	104%	70-130%	3.5%	0-25%	
	Trans-1,3-dichloropropene	52.0 µg/kg		50 µg/kg	104%	70-130%	2.8%	0-25%	
	1,1,2-Trichloroethane	48.8 µg/kg		50 µg/kg	98%	70-130%	4.8%	0-25%	
	1,3-Dichloropropane	49.5 µg/kg		50 µg/kg	99%	70-130%	4.3%	0-25%	
	Tetrachloroethene	52.1 µg/kg		50 µg/kg	104%	70-130%	4.3%	0-25%	
	2-Hexanone	49.9 µg/kg		50 µg/kg	100%	60-140%	6.8%	0-25%	
	Dibromochloromethane	54.7 µg/kg		50 µg/kg	109%	70-130%	1.5%	0-25%	
	1,2-Dibromoethane	50.1 µg/kg		50 µg/kg	100%	70-130%	5.4%	0-25%	
	Chlorobenzene	51.7 µg/kg		50 µg/kg	103%	70-130%	3.7%	0-25%	
	1,1,1,2-Tetrachloroethane	54.1 µg/kg		50 µg/kg	108%	70-130%	2.6%	0-25%	
	Ethylbenzene	52.0 µg/kg		50 µg/kg	104%	70-130%	3.3%	0-25%	
	m,p-Xylene	104 µg/kg		100 µg/kg	104%	70-130%	6.1%	0-25%	
	o-Xylene	51.9 µg/kg		50 µg/kg	104%	70-130%	3.9%	0-25%	
	Styrene	53.0 µg/kg		50 µg/kg	106%	70-130%	2.3%	0-25%	
	Bromoform	53.5 µg/kg		50 µg/kg	107%	70-130%	4.6%	0-25%	
	Isopropylbenzene	53.1 µg/kg		50 µg/kg	106%	70-130%	3.4%	0-25%	
	1,1,2,2-Tetrachloroethane	51.2 µg/kg		50 µg/kg	102%	70-130%	1.0%	0-25%	
	Bromobenzene	52.1 µg/kg		50 µg/kg	104%	70-130%	2.9%	0-25%	
	1,2,3-Trichloropropane	47.8 µg/kg		50 µg/kg	96%	70-130%	7.8%	0-25%	
	N-propylbenzene	53.5 µg/kg		50 µg/kg	107%	70-130%	3.6%	0-25%	



Alpha Testing, Inc.
C. Broussard

QC Summary

Project Name: GISD

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QC Batch ID: VOC_15015_S									
	2-Chlorotoluene	52.0 µg/kg		50 µg/kg	104%	70-130%	4.5%	0-25%	
	1,3,5-Trimethylbenzene	53.0 µg/kg		50 µg/kg	106%	70-130%	4.0%	0-25%	
	4-Chlorotoluene	51.4 µg/kg		50 µg/kg	103%	70-130%	0.8%	0-25%	
	Tert-butylbenzene	53.4 µg/kg		50 µg/kg	107%	70-130%	5.4%	0-25%	
	1,2,4-Trimethylbenzene	52.3 µg/kg		50 µg/kg	105%	70-130%	0.8%	0-25%	
	Sec-butylbenzene	53.0 µg/kg		50 µg/kg	106%	70-130%	4.6%	0-25%	
	1,3-Dichlorobenzene	52.2 µg/kg		50 µg/kg	104%	70-130%	3.1%	0-25%	
	p-Isopropyltoluene	51.6 µg/kg		50 µg/kg	103%	70-130%	2.4%	0-25%	
	1,4-Dichlorobenzene	51.7 µg/kg		50 µg/kg	103%	70-130%	3.3%	0-25%	
	N-butylbenzene	56.0 µg/kg		50 µg/kg	112%	70-130%	3.3%	0-25%	
	1,2-Dichlorobenzene	50.9 µg/kg		50 µg/kg	102%	70-130%	0.6%	0-25%	
	1,2-Dibromo-3-chloropropane	45.0 µg/kg		50 µg/kg	90%	70-130%	7.7%	0-25%	
	1,2,4-Trichlorobenzene	51.4 µg/kg		50 µg/kg	103%	70-130%	2.0%	0-25%	
	Hexachlorobutadiene	53.3 µg/kg		50 µg/kg	107%	70-130%	2.3%	0-25%	
	Naphthalene	50.8 µg/kg		50 µg/kg	102%	70-130%	0.8%	0-25%	
	1,2,3-Trichlorobenzene	48.6 µg/kg		50 µg/kg	97%	70-130%	4.0%	0-25%	
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	Dibromofluoromethane	48.4 µg/kg		50 µg/kg	97%	80-120%			
	1,2 Dichloroethane-d4	46.5 µg/kg		50 µg/kg	93%	80-120%			
	Toluene-d8	50.4 µg/kg		50 µg/kg	101%	81-117%			
	4-Bromofluorobenzene	48.9 µg/kg		50 µg/kg	98%	74-121%			
MS	Dichlorodifluoromethane	36.8 µg/kg	ND	50 µg/kg	74%	70-130%			
	Chloromethane	41.2 µg/kg	ND	50 µg/kg	82%	70-130%			
	Vinyl Chloride	37.6 µg/kg	ND	50 µg/kg	75%	70-130%			
	Bromomethane	19.0 µg/kg	ND	50 µg/kg	38%	70-130%			Q-7
	Chloroethane	14.7 µg/kg	ND	50 µg/kg	29%	70-130%			Q-7
	Trichlorofluoromethane	13.5 µg/kg	ND	50 µg/kg	27%	70-130%			Q-7
	1,1-Dichloroethane	43.1 µg/kg	ND	50 µg/kg	86%	70-130%			
	Acetonitrile	40.4 µg/kg	ND	50 µg/kg	81%	60-140%			
	Methylene Chloride	47.4 µg/kg	ND	50 µg/kg	95%	70-130%			
	Acrylonitrile	44.1 µg/kg	ND	50 µg/kg	88%	60-140%			
	Trans-1,2-dichloroethene	42.8 µg/kg	ND	50 µg/kg	86%	70-130%			
	MTBE	45.9 µg/kg	ND	50 µg/kg	92%	70-130%			
	1,1-Dichloroethane	44.1 µg/kg	ND	50 µg/kg	88%	70-130%			
	2,2-Dichloropropane	45.0 µg/kg	ND	50 µg/kg	90%	70-130%			
	Cis-1,2-dichloroethene	45.0 µg/kg	ND	50 µg/kg	90%	70-130%			
	2-Butanone	70.6 µg/kg	24 µg/kg	50 µg/kg	93%	60-140%			
	Bromochloromethane	43.8 µg/kg	ND	50 µg/kg	87%	60-140%			
	Chloroform	46.5 µg/kg	ND	50 µg/kg	93%	70-130%			
	1,1,1-Trichloroethane	46.4 µg/kg	ND	50 µg/kg	93%	70-130%			
	1,1-Dichloropropene	49.1 µg/kg	ND	50 µg/kg	98%	40-160%			
	Carbon Tetrachloride	48.3 µg/kg	ND	50 µg/kg	97%	70-130%			



Alpha Testing, Inc.
C. Broussard

QC Summary

Project Name: GISD

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID VOC_15015_S									
	Benzene	48.0 µg/kg	ND	50 µg/kg	96%	70-130%			
	1,2-Dichloroethane	46.3 µg/kg	ND	50 µg/kg	93%	70-130%			
	Trichloroethene	46.5 µg/kg	ND	50 µg/kg	93%	70-130%			
	1,2-Dichloropropane	46.0 µg/kg	ND	50 µg/kg	92%	70-130%			
	Dibromomethane	47.7 µg/kg	ND	50 µg/kg	95%	70-130%			
	Bromodichloromethane	46.6 µg/kg	ND	50 µg/kg	93%	70-130%			
	Cis-1,3-dichloropropene	48.6 µg/kg	ND	50 µg/kg	97%	70-130%			
	4-Methyl-2-pentanone	48.5 µg/kg	ND	50 µg/kg	97%	60-140%			
	Toluene	48.3 µg/kg	ND	50 µg/kg	97%	70-130%			
	Trans-1,3-dichloropropene	49.4 µg/kg	ND	50 µg/kg	99%	70-130%			
	1,1,2-Trichloroethane	49.1 µg/kg	ND	50 µg/kg	98%	70-130%			
	1,3-Dichloropropane	48.3 µg/kg	ND	50 µg/kg	97%	70-130%			
	Tetrachloroethene	48.1 µg/kg	ND	50 µg/kg	96%	70-130%			
	2-Hexanone	50.0 µg/kg	ND	50 µg/kg	100%	60-140%			
	Dibromochloromethane	49.7 µg/kg	ND	50 µg/kg	99%	70-130%			
	1,2-Dibromoethane	49.7 µg/kg	ND	50 µg/kg	99%	70-130%			
	Chlorobenzene	48.9 µg/kg	ND	50 µg/kg	98%	70-130%			
	1,1,1,2-Tetrachloroethane	48.8 µg/kg	ND	50 µg/kg	98%	70-130%			
	Ethylbenzene	50.0 µg/kg	ND	50 µg/kg	100%	70-130%			
	m,p-Xylene	101 µg/kg	ND	100 µg/kg	101%	70-130%			
	o-Xylene	50.1 µg/kg	ND	50 µg/kg	100%	70-130%			
	Styrene	51.6 µg/kg	ND	50 µg/kg	103%	70-130%			
	Bromoform	48.5 µg/kg	ND	50 µg/kg	97%	70-130%			
	Isopropylbenzene	51.9 µg/kg	ND	50 µg/kg	104%	70-130%			
	1,1,2,2-Tetrachloroethane	49.4 µg/kg	ND	50 µg/kg	99%	70-130%			
	Bromobenzene	49.8 µg/kg	ND	50 µg/kg	100%	70-130%			
	1,2,3-Trichloropropane	49.5 µg/kg	ND	50 µg/kg	99%	70-130%			
	N-propylbenzene	53.1 µg/kg	ND	50 µg/kg	106%	70-130%			
	2-Chlorotoluene	50.3 µg/kg	ND	50 µg/kg	101%	70-130%			
	1,3,5-Trimethylbenzene	53.3 µg/kg	ND	50 µg/kg	107%	70-130%			
	4-Chlorotoluene	51.0 µg/kg	ND	50 µg/kg	102%	70-130%			
	Tert-butylbenzene	52.4 µg/kg	ND	50 µg/kg	105%	70-130%			
	1,2,4-Trimethylbenzene	60.5 µg/kg	8.83 µg/kg	50 µg/kg	103%	70-130%			
	Sec-butylbenzene	53.2 µg/kg	ND	50 µg/kg	106%	70-130%			
	1,3-Dichlorobenzene	50.6 µg/kg	ND	50 µg/kg	101%	70-130%			
	p-Isopropyltoluene	49.6 µg/kg	ND	50 µg/kg	99%	70-130%			
	1,4-Dichlorobenzene	50.1 µg/kg	ND	50 µg/kg	100%	70-130%			
	N-butylbenzene	61.4 µg/kg	4.88 µg/kg	50 µg/kg	113%	70-130%			
	1,2-Dichlorobenzene	50.4 µg/kg	ND	50 µg/kg	101%	70-130%			
	1,2-Dibromo-3-chloropropane	46.5 µg/kg	ND	50 µg/kg	93%	70-130%			
	1,2,4-Trichlorobenzene	52.4 µg/kg	ND	50 µg/kg	105%	70-130%			
	Hexachlorobutadiene	54.6 µg/kg	ND	50 µg/kg	109%	70-130%			
	Naphthalene	56.3 µg/kg	4.21 µg/kg	50 µg/kg	104%	70-130%			



Alpha Testing, Inc.
C. Broussard

QC Summary

Project Name: GISD

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QC Batch ID: VOC_15015_S									
Surrogate	1,2,3-Trichlorobenzene	50.5 µg/kg	ND	50 µg/kg	101%	70-130%			
		Result		Spike Conc	Recovery	Rec Limits			
	Dibromofluoromethane	43.8 µg/kg		50 µg/kg	88%	80-120%			
	1,2 Dichloroethane-d4	44.7 µg/kg		50 µg/kg	89%	80-120%			
	Toluene-d8	49.0 µg/kg		50 µg/kg	98%	81-117%			
	4-Bromofluorobenzene	49.1 µg/kg		50 µg/kg	98%	74-121%			
MSD	Dichlorodifluoromethane	37.5 µg/kg	ND	50 µg/kg	75%	70-130%	1.9%	0-25%	
	Chloromethane	41.0 µg/kg	ND	50 µg/kg	82%	70-130%	0.4%	0-25%	
	Vinyl Chloride	39.1 µg/kg	ND	50 µg/kg	78%	70-130%	4.0%	0-25%	
	Bromomethane	18.9 µg/kg	ND	50 µg/kg	38%	70-130%	0.4%	0-25%	Q-7
	Chloroethane	14.4 µg/kg	ND	50 µg/kg	29%	70-130%	2.2%	0-25%	Q-7
	Trichlorofluoromethane	13.0 µg/kg	ND	50 µg/kg	26%	70-130%	3.8%	0-25%	Q-7
	1,1-Dichloroethene	42.9 µg/kg	ND	50 µg/kg	86%	70-130%	0.5%	0-25%	
	Acetonitrile	42.9 µg/kg	ND	50 µg/kg	86%	80-140%	6.1%	0-25%	
	Methylene Chloride	46.1 µg/kg	ND	50 µg/kg	92%	70-130%	2.8%	0-25%	
	Acrylonitrile	42.7 µg/kg	ND	50 µg/kg	85%	60-140%	3.3%	0-25%	
	Trans-1,2-dichloroethene	42.7 µg/kg	ND	50 µg/kg	85%	70-130%	0.3%	0-25%	
	MTBE	46.2 µg/kg	ND	50 µg/kg	92%	70-130%	0.7%	0-25%	
	1,1-Dichloroethane	44.1 µg/kg	ND	50 µg/kg	88%	70-130%	0.0%	0-25%	
	2,2-Dichloropropane	46.2 µg/kg	ND	50 µg/kg	92%	70-130%	2.6%	0-25%	
	Cis-1,2-dichloroethene	44.4 µg/kg	ND	50 µg/kg	89%	70-130%	1.4%	0-25%	
	2-Butanone	69.7 µg/kg	24 µg/kg	50 µg/kg	91%	60-140%	1.3%	0-25%	
	Bromochloromethane	42.4 µg/kg	ND	50 µg/kg	85%	60-140%	2.8%	0-25%	
	Chloroform	46.8 µg/kg	ND	50 µg/kg	94%	70-130%	0.6%	0-25%	
	1,1,1-Trichloroethane	46.7 µg/kg	ND	50 µg/kg	93%	70-130%	0.6%	0-25%	
	1,1-Dichloropropene	48.0 µg/kg	ND	50 µg/kg	96%	40-160%	2.2%	0-25%	
	Carbon Tetrachloride	49.0 µg/kg	ND	50 µg/kg	98%	70-130%	1.4%	0-25%	
	Benzene	47.4 µg/kg	ND	50 µg/kg	95%	70-130%	1.3%	0-25%	
	1,2-Dichloroethane	46.9 µg/kg	ND	50 µg/kg	94%	70-130%	1.4%	0-25%	
	Trichloroethene	46.7 µg/kg	ND	50 µg/kg	93%	70-130%	0.4%	0-25%	
	1,2-Dichloropropane	46.1 µg/kg	ND	50 µg/kg	92%	70-130%	0.1%	0-25%	
	Dibromomethane	46.3 µg/kg	ND	50 µg/kg	93%	70-130%	2.9%	0-25%	
	Bromodichloromethane	46.8 µg/kg	ND	50 µg/kg	94%	70-130%	0.5%	0-25%	
Cis-1,3-dichloropropene	47.7 µg/kg	ND	50 µg/kg	95%	70-130%	1.8%	0-25%		
4-Methyl-2-pentanone	49.5 µg/kg	ND	50 µg/kg	99%	60-140%	2.0%	0-25%		
Toluene	48.4 µg/kg	ND	50 µg/kg	97%	70-130%	0.3%	0-25%		
Trans-1,3-dichloropropene	47.5 µg/kg	ND	50 µg/kg	95%	70-130%	4.0%	0-25%		
1,1,2-Trichloroethane	47.7 µg/kg	ND	50 µg/kg	95%	70-130%	2.9%	0-25%		
1,3-Dichloropropane	47.8 µg/kg	ND	50 µg/kg	96%	70-130%	1.0%	0-25%		
Tetrachloroethene	48.8 µg/kg	ND	50 µg/kg	98%	70-130%	1.4%	0-25%		
2-Hexanone	51.3 µg/kg	ND	50 µg/kg	103%	60-140%	2.5%	0-25%		
Dibromochloromethane	48.9 µg/kg	ND	50 µg/kg	98%	70-130%	1.5%	0-25%		
1,2-Dibromoethane	49.5 µg/kg	ND	50 µg/kg	99%	70-130%	0.5%	0-25%		



Alpha Testing, Inc.
C. Broussard

QC Summary

Project Name: GISD

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID VOC_15015_S									
	Chlorobenzene	50.5 µg/kg	ND	50 µg/kg	101%	70-130%	3.2%	0-25%	
	1,1,1,2-Tetrachloroethane	49.8 µg/kg	ND	50 µg/kg	100%	70-130%	2.0%	0-25%	
	Ethylbenzene	51.6 µg/kg	ND	50 µg/kg	103%	70-130%	3.1%	0-25%	
	m,p-Xylene	102 µg/kg	ND	100 µg/kg	102%	70-130%	1.0%	0-25%	
	o-Xylene	52.0 µg/kg	ND	50 µg/kg	104%	70-130%	3.7%	0-25%	
	Styrene	52.1 µg/kg	ND	50 µg/kg	104%	70-130%	1.0%	0-25%	
	Bromoform	48.2 µg/kg	ND	50 µg/kg	96%	70-130%	0.6%	0-25%	
	Isopropylbenzene	52.8 µg/kg	ND	50 µg/kg	106%	70-130%	1.7%	0-25%	
	1,1,2,2-Tetrachloroethane	49.8 µg/kg	ND	50 µg/kg	100%	70-130%	0.8%	0-25%	
	Bromobenzene	51.1 µg/kg	ND	50 µg/kg	102%	70-130%	2.6%	0-25%	
	1,2,3-Trichloropropane	49.6 µg/kg	ND	50 µg/kg	99%	70-130%	0.2%	0-25%	
	N-propylbenzene	53.4 µg/kg	ND	50 µg/kg	107%	70-130%	0.6%	0-25%	
	2-Chlorotoluene	51.5 µg/kg	ND	50 µg/kg	103%	70-130%	2.4%	0-25%	
	1,3,5-Trimethylbenzene	53.3 µg/kg	ND	50 µg/kg	107%	70-130%	0.0%	0-25%	
	4-Chlorotoluene	50.6 µg/kg	ND	50 µg/kg	101%	70-130%	0.8%	0-25%	
	Tert-butylbenzene	52.6 µg/kg	ND	50 µg/kg	105%	70-130%	0.4%	0-25%	
	1,2,4-Trimethylbenzene	60.4 µg/kg	8.83 µg/kg	50 µg/kg	103%	70-130%	0.2%	0-25%	
	Sec-butylbenzene	53.2 µg/kg	ND	50 µg/kg	106%	70-130%	0.0%	0-25%	
	1,3-Dichlorobenzene	50.5 µg/kg	ND	50 µg/kg	101%	70-130%	0.2%	0-25%	
	p-Isopropyltoluene	50.2 µg/kg	ND	50 µg/kg	100%	70-130%	1.2%	0-25%	
	1,4-Dichlorobenzene	49.4 µg/kg	ND	50 µg/kg	99%	70-130%	1.4%	0-25%	
	N-butylbenzene	59.7 µg/kg	4.88 µg/kg	50 µg/kg	110%	70-130%	2.8%	0-25%	
	1,2-Dichlorobenzene	49.9 µg/kg	ND	50 µg/kg	100%	70-130%	1.0%	0-25%	
	1,2-Dibromo-3-chloropropane	44.5 µg/kg	ND	50 µg/kg	89%	70-130%	4.4%	0-25%	
	1,2,4-Trichlorobenzene	50.8 µg/kg	ND	50 µg/kg	102%	70-130%	3.1%	0-25%	
	Hexachlorobutadiene	52.1 µg/kg	ND	50 µg/kg	104%	70-130%	4.7%	0-25%	
	Naphthalene	54.9 µg/kg	4.21 µg/kg	50 µg/kg	101%	70-130%	2.5%	0-25%	
	1,2,3-Trichlorobenzene	48.2 µg/kg	ND	50 µg/kg	96%	70-130%	4.7%	0-25%	
Surrogate	Result			Spike Conc	Recovery	Rec Limits			
	Dibromofluoromethane	44.3 µg/kg		50 µg/kg	89%	80-120%			
	1,2 Dichloroethane-d4	45.2 µg/kg		50 µg/kg	90%	80-120%			
	Toluene-d8	49.5 µg/kg		50 µg/kg	99%	81-117%			
	4-Bromofluorobenzene	50.1 µg/kg		50 µg/kg	100%	74-121%			



Alpha Testing, Inc.

C. Broussard

Case Narrative

Project Name: GISD

J-4	Estimated Value. Recovery slightly over calibration range.
Q-7	Recovery and/or RPD outside desirable limits.
ppm	Parts per million = mg/Kg or mg/L
ppb	Parts per billion = ug/Kg or ug/L
MQL	Method quantitation limit
SDL	Sample detection limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilutions)
SQL	Sample quantitation limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilution)
ND	Analyte not detected at or above SQL
LCS/LCSD	Laboratory control spike / Laboratory control spike duplicate
MS/MSD	Matrix spike / Matrix spike duplicate
RPD	Relative percent difference
Sub	Analysis performed by subcontract laboratory
*	Refer to QC section and / or Case Narrative

Solid samples submitted to the laboratory for analysis by SW-846 Method 8260 should be collected by SW-846 Method 5035. Those samples in which concentrations are less than or equal to 200 ug/kg should be collected in accordance with SW-846 Method 5035, Section 6.2.1. For samples with higher concentrations (> 200 ug/kg), collect samples by SW-846 Method 5035, Section 6.2.2 or 6.2.3. Sample results may not accurately reflect volatile concentrations if collection is not performed according to the referenced methodologies.

Solid samples submitted to the laboratory for analysis by TNRCC Method 1005 should be collected in accordance to the methodology. Those samples in which concentrations of C6 to C12 are known to be absent, or fall under the Petroleum Storage Tank (PST) rule, may be collected in bulk sample jars in accordance with TNRCC Method 1005, Revision 3 clarifications. For samples with concentrations of C6 to C12, or where knowledge of the site does not exist, collect samples by TNRCC Method 1005, Section 6.1. Sample results may not accurately reflect TPH concentrations if collection is not performed according to the referenced methodologies.

Solid sample results reported on a dry weight basis for all applicable analysis, unless otherwise noted. Dry weight calculations based upon % solids obtained as outlined in EPA method 5035 section 7.5.

This report is intended only for the use of Alpha Testing, Inc. and may contain information that is privileged and confidential. It may not be reproduced in full (or in part) without the expressed written permission of Alpha Testing, Inc. and Oxidor Laboratories, LLC.

Oxidor Laboratories, LLC certifies to the best of its knowledge that all results contained in this report are consistent with the National Environmental Laboratory Accreditation Program, except where otherwise noted.



Alpha Testing, Inc.

C. Broussard

Sample Preservation Verification

Project Name: GISD

Receipt temp: 2.9 °C on Ice

Receipt method: Client

Custody seal intact: Not Present

All samples / labels received intact: Yes

Customer Sample ID: S-1

Oxidor Sample ID: 15050145-001

Collected: 05/06/15 09:35

Collected By: C. Broussard

Collector Affiliation:

Matrix: Solid

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
4 oz Glass Jar	1	Grab		Temp	-

Customer Sample ID: S-2

Oxidor Sample ID: 15050145-002

Collected: 05/06/15 09:40

Collected By: C. Broussard

Collector Affiliation:

Matrix: Solid

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
4 oz Glass Jar	1	Grab		Temp	-

Customer Sample ID: S-3

Oxidor Sample ID: 15050145-003

Collected: 05/06/15 09:50

Collected By: C. Broussard

Collector Affiliation:

Matrix: Solid

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
4 oz Glass Jar	1	Grab		Temp	-

Customer Sample ID: S-4

Oxidor Sample ID: 15050145-004

Collected: 05/06/15 10:15

Collected By: C. Broussard

Collector Affiliation:

Matrix: Solid

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
4 oz Glass Jar	1	Grab		Temp	-

Sample conditions at time of receipt at laboratory verified in part or in whole by:

J.G.



Documentation

PROJECT DESCRIPTION: GISD



OXIDOR Laboratories, LLC
1825 East Plano Parkway, #180
Plano, TX 75074-8570
P 972 424 6422 F 972 424 6508
customerservice@oxidor.com



Chain of Custody Record

Page 1 of 1

Form with sections: Send Report To, Project / Report Information, Send Invoice To, Matrix Codes, Special Instructions, and Requested Analysis.

Table with columns: OXIDOR Order ID, Customer Sample ID, Sample Info (Date, Time, Matrix, # of Containers, Container Type, Pres Code, IC/Job / (C) Job, Pints / Inseal, Hold, TPN, VIX, BLANKS, etc.), Total Solids / Dry Weight, Laboratory Review Checklist, and Comments / Data Pages.

Form for sample receipt and return, including fields for 'Received by', 'Date', and 'Time'.

Submit all sample signatures, acceptance of OXIDOR's Standard Terms and Conditions. OXIDOR cannot accept verbal changes to this document. Please fax or email written modifications. Temp at Receipt 0.9 C