

13

January 19, 1999

TL

Mr. Gary Peterson  
New York State Department of Environmental Conservation  
1679 New York Route 11  
Kirkwood, NY 13795

**Reference: New York State Department of Environmental Conservation  
Spill Number 9865062**

**Subject: Removal of Underground Storage Tanks at Air Force Plant 59,  
Johnson City, New York**

Dear Mr. Peterson:

Two 500-gallon underground storage tanks (USTs) at Air Force Plant 59 (AFP 59) that were used to store flammable liquids were removed during the week of November 2, 1998. Mr. John Okesson, also from the Kirkwood office of the New York State Department of Environmental Conservation (NYSDEC), provided oversight on November 4. All activities associated with the removal of the USTs are described below.

Telephone

703-549-8728

Facsimile

703-549-9134

Because both USTs were full (with water) and the exact contents previously stored in the USTs were unknown, Earth Tech collected a sample of the contents from each UST and analyzed the samples at a laboratory prior to tank removal. The water samples were analyzed at O'Brien & Gere Laboratories (located in Syracuse, New York) for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method SW8260B and semivolatile organic compounds (SVOCs) by USEPA Method SW8270C. No VOCs or SVOCs were detected in either water sample; analytical results are provided in Attachment 1. The water removed from the USTs was disposed of by OP-TECH Environmental Services (located in Milan, Pennsylvania) at the Industrial Oil Tank Service Corporation, located in Oriskany, New York. The non-hazardous waste manifest is provided in Attachment 2.

During excavation and removal of the USTs, no evidence of soil contamination was noted; no soil staining, discoloration, or odors were evident, and readings taken with a photoionization detector (PID) did not detect any VOCs. Following excavation and removal of the USTs, soil samples were collected from each UST excavation to assess the existence of any soil contamination resulting from UST leakage. Soil samples were collected for both headspace analysis with the PID and for laboratory analysis for VOCs by USEPA Method SW8260B and SVOCs by USEPA Method SW8270C. The headspace analyses conducted did not detect any VOCs in the soil samples collected at either UST site. As a result, four soil samples were collected from one excavation and three soil samples were collected from the second excavation to confirm that no contamination existed at either UST site.

Four soil samples were collected from the excavation for UST1, which was located west of UST2 and south of the main manufacturing building (see Figure 1). Soil sample 59UST1-1-SO1 was collected immediately below the north side of UST1, and soil sample 59UST1-2-SO1 was collected immediately below the south side of UST1. Because of the concrete pad encountered

RECEIVED

E A R T H T E C H



JAN 22 1999

Mr. Gary Peterson  
January 19, 1999  
Page 2

below UST1, soil samples could not be collected 2 to 3 feet immediately below the UST. Instead, soil sample 59UST1-3-SO1 was collected from approximately 2 feet below the northern edge of the concrete pad, and soil sample 59UST1-4-SO1 was collected from approximately 2 feet below the southern edge of the concrete pad (see Figure 1). All four samples were analyzed at O'Brien & Gere Laboratories for VOCs by USEPA Method SW8260B and SVOCs by USEPA Method SW8270C. The analytical results are discussed below, summarized in Table 1, and provided in Attachment 1.

Three soil samples were collected from the excavation for UST2, which was located east of UST1 and south of the main manufacturing building (see Figure 1). Soil sample 59UST2-1-SO1 was collected immediately below UST2. Soil sample 59UST2-2-SO1 was collected immediately below the north side of UST2, and soil sample 59UST2-3-SO1 was collected immediately below the south side of UST2 (see Figure 1). No soil samples were collected below the concrete pad encountered at UST2 because the pad was larger than the excavation (approximately 20 feet east to west by 15 feet north to south). All three samples were analyzed at O'Brien & Gere Laboratories for VOCs by USEPA Method SW8260B and SVOCs by USEPA Method SW8270C. The analytical results are discussed below, summarized in Table 1, and provided in Attachment 1.

As shown in Table 1 and Attachment 1, the only VOCs detected in the samples were methylene chloride, naphthalene, toluene, and xylene (total). All of these VOCs can be eliminated as chemicals of potential concern for reasons listed below.

- Methylene chloride, a common laboratory contaminant, was detected at a maximum concentration of 1.2 parts per billion (ppb). No guidance value is listed for methylene chloride in the 1994 NYSDEC document *Spill Technology and Remediation Series (STARS) Memo #1: Petroleum-Contaminated Soil Guidance Policy*. However, 1.2 ppb is below the recommended soil cleanup objective of 100 ppb presented in the 1994 NYSDEC publication *Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels*.
- Naphthalene was only detected in one sample at a concentration of 0.7 ppb, which is below the guidance value of 200 ppb presented in the 1994 NYSDEC *STARS Memo #1*.
- Toluene was detected at a maximum concentration of 1.4 ppb, which is below the guidance value of 100 ppb presented in the 1994 NYSDEC *STARS Memo #1*.
- Xylene (total) was only detected in two samples at a maximum concentration of 0.7 ppb, which is below the guidance value of 100 ppb for any individual xylene presented in the 1994 NYSDEC *STARS Memo #1*.



Mr. Gary Peterson  
January 19, 1999  
Page 3

As shown in Table 1 and Attachment 1, the following SVOCs were detected in the samples: anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, pyrene, and bis(2-ethylhexyl)phthalate. With the exception of bis(2-ethylhexyl)phthalate, all of these compounds are polycyclic aromatic hydrocarbons (PAHs). No guidance value is listed for bis(2-ethylhexyl)phthalate in the 1994 NYSDEC *STARS Memo #1*. However, only one of the three detections (53 ppb in sample 59UST2-2-SO1) exceeded the guidance value of 50 ppb presented in the 1994 NYSDEC *TAGM*.

As shown in Table 1, the majority of the PAH detections were above guidance values presented in the 1994 NYSDEC *STARS Memo #1*. However, both former UST sites are covered with an asphalt parking lot, which limits the infiltration of water and the leaching of PAHs to groundwater. The fact that PAHs are heavy, relatively immobile compounds also minimizes the possibility of PAHs leaching to groundwater. As a result, it is unlikely that the residual PAHs in the soil at either former UST site will adversely impact groundwater at AFP 59. This conclusion is supported by the fact that no PAHs were detected in any groundwater samples collected from site monitoring wells (including monitoring wells SW3 and SW9, which are hydraulically downgradient of the former UST sites) during the most recent round of groundwater sampling that included SVOC analyses (December 1994 by Earth Tech).

Risk related to the PAHs in soil was also minimized because all soil from the excavations, both of which were approximately 11 feet deep, was taken off site for disposal (the excavations were backfilled with clean fill). Therefore, the possibility of exposure to PAHs in soil from 0 to 11 feet below ground surface was eliminated. Additionally, because most construction activities at AFP 59 will not require excavation to 11 feet or greater, the possibility of exposure to PAHs in soil beneath the former USTs is limited.

Prior to off-site disposal of the USTs, all residual sludge was removed from the USTs; the sludge was contained in 55-gallon drums prior to off-site disposal by OP-TECH Environmental Services at CWM Chemical Services, located in Model City, New York. The ends of both USTs were then cut off to expose the insides of the USTs, thereby allowing the decontamination of the USTs with a steam cleaner. Each UST was steam cleaned with a combination of water and Simple Green™ (an environmentally-safe degreaser), then transported off site for disposal. Non-hazardous waste manifests are provided in Attachment 2.

All soil removed from the excavations was stockpiled on site pending laboratory analysis. Because PAHs were detected in the soil, it was necessary to dispose of all soil at the Broome County Landfill, which is a permitted landfill. To satisfy Broome County Landfill requirements for disposal of potentially contaminated soil, one soil sample collected from each of the former UST sites (59UST1-2-SO1 and 59UST2-1-SO1) was analyzed at O'Brien & Gere Laboratories for TCLP Metals and Ignitability in addition to the VOC and SVOC analyses. The only metal

Mr. Gary Peterson  
January 19, 1999  
Page 4

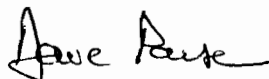
detected was cadmium at 100 ppb in sample 59UST2-1-SO1. The ignitability results showed the flashpoint to be greater than 60 degrees Celsius for both samples. On the basis of these analytical results, the Broome County Landfill accepted the soil for disposal. Soil was removed from the site by OP-TECH Environmental Services on December 4 and 7, 1998. Non-hazardous waste manifests are provided in Attachment 2.

Because several VOCs and SVOCs were detected in the soil samples associated with the USTs, the NYSDEC generated a spill report form (NYSDEC Number 9865062) for the site; the spill report form is provided in Attachment 3. However, on the basis of the analytical results generated during the investigation and the fact that all excavated soil was taken off site for disposal, it is recommended that both former UST sites be granted clean closure.

Please feel free to contact me at (703) 549-8728 if you require any additional information.

Yours truly,

Earth Tech



Dave Parse  
Project Manager

Enclosures

cc: Mr. John McCown, AFCEE RTC  
Mr. George Walters, ASC IPTC  
Mr. Jim Lister, NYSDEC/Albany  
Mr. Howard McLaughlin, NYSDEC/Syracuse  
Mr. Doug Garner, Lockheed Martin Control Systems  
Mr. George Newkirk, ACO (w/o enclosures)  
Project File

E A R T H  T E C H

A tyco INTERNATIONAL LTD COMPANY

Manufacturing Building

Kerosene Building

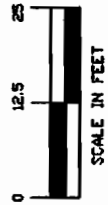
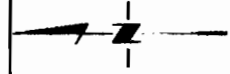
59UST1-3-S01  
59UST1-1-S01  
59UST1-2-S01  
59UST1-4-S01  
UST1  
UST2  
59UST2-2-S01  
59UST2-1-S01  
59UST2-3-S01

IW13  
DW13  
SW13

**LEGEND**

- 59UST1-3-S01 - Sample Location and Number
- ▨ UST1 - Former Underground Storage Tank Location
- ⊕ SW13 - Monitoring Well Location and Number

Note: UST1 and UST2 were removed and all soil samples were collected on November 5, 1998.



**EARTH T O B O M**

**FIGURE I**

**AFP 59  
SOIL SAMPLING LOCATIONS AT  
FORMER UNDERGROUND STORAGE TANK SITES**

**Table 1**  
**Chemical Compounds Detected in Soil Samples**  
**from Former UST Sites at AFP 59**

Chemical Compound	Guidance Value (mg/kg)	UST1				UST2			
		59UST1-1-SO1	59UST1-2-SO1	59UST1-3-SO1	59UST1-4-SO1	59UST2-1-SO1	59UST2-2-SO1	59UST2-3-SO1	59UST2-4-SO1
		Concentration (mg/kg)							
<b>Volatile Organic Compounds</b>									
Methylene Chloride	0.1 (1)	ND	0.0006	0.0007	ND	ND	0.0012	0.0012	0.001
Naphthalene	0.2 (2)	ND	ND	ND	ND	0.0007	ND	ND	ND
Toluene	0.1 (2)	ND	0.001	0.0014	ND	ND	0.0007	0.0007	0.0008
Xylene (total)	0.1 (2)	ND	0.0007	0.0007	ND	ND	ND	ND	ND
<b>Semivolatile Organic Compounds</b>									
Anthracene	1.0 (2)	0.79	4.0	0.2	4.4	0.092	0.041	0.041	0.085
Benzo(a)anthracene	0.0004 (2)	7	37	1.9	30	0.77	0.38	0.38	0.86
Benzo(b)pyrene	0.0004 (2)	5.6	28	1.5	21	0.46	0.35	0.35	0.73
Benzo(k)fluoranthene	0.0004 (2)	9.4	44	2.4	33	1.2	0.54	0.54	1.4
Benzo(e,h)perylene	0.0004 (2)	3.9	14	0.9	14	0.4	0.34	0.34	0.47
Chrysene	0.0004 (2)	6.9	35	1.7	29	0.74	0.38	0.38	0.83
Fluoranthene	1.0 (2)	11	64	3.2	52	1.3	0.48	0.48	1.5
Indeno(1,2,3-cd)pyrene	0.0004 (2)	2.8	11	0.76	10	0.19	0.28	0.28	0.24
Phenanthrene	1.0 (2)	2.7	16	0.83	17	0.36	0.15	0.15	0.34
Pyrene	1.0 (2)	16	67	3.4	62	1.9	1.2	1.2	2.1
Bis(2-ethylhexyl)phthalate	50 (1)	ND	ND	ND	ND	0.043	0.074	0.074	0.038

**Key:**

- ND = Not Detected
- (1) Soil cleanup objective presented in the 1994 NYSDEC TAGM: *Determination of Soil Cleanup Objectives and Cleanup Levels.*
- (2) Guidance value presented in the 1994 NYSDEC STARS MEMO #1: *Petroleum-Contaminated Soil Guidance Policy.*

Notes: Only those compounds that were detected in the sample are included in the table.

All samples were analyzed for VOCs by SW8260 and SVOCs by SW8270.

Those compounds that were detected above a soil cleanup objective or a guidance value are presented in bold font.

**Attachment 1: Analytical Data**

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9291  
Samp. Description: 59UST1-1-S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/09/98  
Matrix: Solid  
QC Batch: 110998S1  
%Solids: 86.6  
Sample size: 5.97 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dichlorodifluoromethane	<.0048	R		1 11/09/98	
Chloromethane	<.0068	U		1 11/09/98	
Vinyl chloride	<.0087	U		1 11/09/98	
Bromomethane	<.0048	U		1 11/09/98	
Chloroethane	<.0048	U		1 11/09/98	
Trichlorofluoromethane	<.0039	U		1 11/09/98	
1,1-Dichloroethene	<.0058	U		1 11/09/98	
Methylene chloride	<.0019	U		1 11/09/98	
trans-1,2-Dichloroethene	<.0029	U		1 11/09/98	
Methyl tert-butyl ether	<.0024	U		1 11/09/98	
1,1-Dichloroethane	<.0019	U		1 11/09/98	
cis-1,2-Dichloroethene	<.0058	U		1 11/09/98	
Bromochloromethane	<.0019	U		1 11/09/98	
Chloroform	<.0019	U		1 11/09/98	
2,2-Dichloropropane	<.019	U		1 11/09/98	
1,2-Dichloroethane	<.0029	U		1 11/09/98	
1,1,1-Trichloroethane	<.0039	U		1 11/09/98	
1,1-Dichloropropene	<.0048	U		1 11/09/98	
Carbon tetrachloride	<.0097	U		1 11/09/98	
Benzene	<.0019	U		1 11/09/98	
Dibromomethane	<.0097	U		1 11/09/98	
1,2-Dichloropropane	<.0019	U		1 11/09/98	
Trichloroethene	<.0097	U		1 11/09/98	
Bromodichloromethane	<.0039	U		1 11/09/98	
cis-1,3-Dichloropropene	<.0048	U		1 11/09/98	
trans-1,3-Dichloropropene	<.0048	U		1 11/09/98	
1,1,2-Trichloroethane	<.0048	U		1 11/09/98	
Toluene	<.0048	U		1 11/09/98	
1,3-Dichloropropane	<.0019	U		1 11/09/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci



# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9291  
Samp. Description: 59UST1-1-S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/09/98  
Matrix: Solid  
QC Batch: 110998S1  
%Solids: 86.6  
Sample size: 5.97 g

Parameter	Result	Qual	Surrog	Limits	Dilution	Analyzed	Notes
Dibromochloromethane	<.0029	U				1 11/09/98	
1,2-Dibromoethane	<.0029	U				1 11/09/98	
Tetrachloroethene	<.0068	U				1 11/09/98	
1,1,1,2-Tetrachloroethane	<.0029	U				1 11/09/98	
Chlorobenzene	<.0019	U				1 11/09/98	
1-Chlorohexane	<.0029	U				1 11/09/98	
Ethylbenzene	<.0029	U				1 11/09/98	
Bromoform	<.0058	U				1 11/09/98	
o-Xylene	<.0048	U				1 11/09/98	
(m+p)-Xylene	<.0039	U				1 11/09/98	
Xylene (total)	<.0048	U				1 11/09/98	
Styrene	<.0024	U				1 11/09/98	
1,1,2,2-Tetrachloroethane	<.0024	U				1 11/09/98	
1,2,3-Trichloropropane	<.019	U				1 11/09/98	
Isopropylbenzene	<.0077	U				1 11/09/98	
Bromobenzene	<.0019	U				1 11/09/98	
n-Propylbenzene	<.0019	U				1 11/09/98	
2-Chlorotoluene	<.0019	U				1 11/09/98	
4-Chlorotoluene	<.0029	U				1 11/09/98	
1,3,5-Trimethylbenzene	<.0029	U				1 11/09/98	
tert-Butylbenzene	<.0068	U				1 11/09/98	
n-Butylbenzene	<.0048	U				1 11/09/98	
1,2,4-Trimethylbenzene	<.0068	U				1 11/09/98	
sec-Butylbenzene	<.0068	U				1 11/09/98	
1,3-Dichlorobenzene	<.0058	U				1 11/09/98	
1,4-Dichlorobenzene	<.0019	U				1 11/09/98	
p-Isopropyltoluene	<.0058	U				1 11/09/98	
1,2-Dichlorobenzene	<.0019	U				1 11/09/98	
1,2-Dibromo-3-chloropropane	<.0097	U				1 11/09/98	
1,2,4-Trichlorobenzene	<.0019	U				1 11/09/98	
Naphthalene	<.0048	U				1 11/09/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9291  
Samp. Description: 59UST1-1-S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/05/98      Matrix: Solid  
Received: 11/06/98      QC Batch: 110998S1  
Prepared: 11/09/98      %Solids: 86.6  
Sample size: 5.97 g

Parameter	Result	Qual	Surrog Limits	Dilution	Analyzed	Notes
Hexachlorobutadiene	<.0048	U		1	11/09/98	
1,2,3-Trichlorobenzene	<.0019	U		1	11/09/98	
1,2-Dichloroethane-d4 (surrogate)	84.%		52-149	1	11/09/98	
Dibromofluoromethane (surrogate)	82.%		65-135	1	11/09/98	
Toluene-d8 (surrogate)	86.%		65-135	1	11/09/98	
Bromofluorobenzene (surrogate)	83.%		65-135	1	11/09/98	

Notes:

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9291  
Samp. Description: 59UST1-1-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 86.6  
Sample size: 34.6 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
bis(2-Chloroethyl) ether	<7.0	U		10 11/10/98	
Phenol	<3.0	U		10 11/10/98	
2-Chlorophenol	<3.0	U		10 11/10/98	
1,3-Dichlorobenzene	<7.0	U		10 11/10/98	
1,4-Dichlorobenzene	<7.0	U		10 11/10/98	
Benzyl alcohol	<13.	U		10 11/10/98	
1,2-Dichlorobenzene	<7.0	U		10 11/10/98	
2-Methylphenol	<3.0	U		10 11/10/98	
bis(2-Chloroisopropyl) ether	<7.0	U		10 11/10/98	
4-Methylphenol	<3.0	U		10 11/10/98	
N-Nitroso-di-n-propylamine	<7.0	U		10 11/10/98	
Hexachloroethane	<7.0	U		10 11/10/98	
Nitrobenzene	<7.0	U		10 11/10/98	
Isophorone	<7.0	U		10 11/10/98	
2-Nitrophenol	<3.0	U		10 11/10/98	
2,4-Dimethylphenol	<3.0	U		10 11/10/98	
bis(2-Chloroethoxy) methane	<7.0	U		10 11/10/98	
Benzoic acid	<16.	R		10 11/10/98	
2,4-Dichlorophenol	<3.0	U		10 11/10/98	
1,2,4-Trichlorobenzene	<7.0	U		10 11/10/98	
Naphthalene	<7.0	U		10 11/10/98	
4-Chloroaniline	<13.	R		10 11/10/98	
Hexachlorobutadiene	<7.0	U		10 11/10/98	
4-Chloro-3-methylphenol	<13.	U		10 11/10/98	
2-Methylnaphthalene	<7.0	U		10 11/10/98	
Hexachlorocyclopentadiene	<7.0	U		10 11/10/98	
2,4,6-Trichlorophenol	<3.0	U		10 11/10/98	
2,4,5-Trichlorophenol	<33.	U		10 11/10/98	
2-Chloronaphthalene	<7.0	U		10 11/10/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 8, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9291  
Samp. Description: 59UST1-1-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 86.6  
Sample size: 34.6 g

Parameter	Result	Qual	Surrog Limits Dilution Analyzed	Notes
2-Nitroaniline	<33.	U	10 11/10/98	
Dimethyl phthalate	<7.0	U	10 11/10/98	
Acenaphthylene	<7.0	U	10 11/10/98	
2,6-Dinitrotoluene	<7.0	U	10 11/10/98	
3-Nitroaniline	<33.	U	10 11/10/98	
Acenaphthene	<7.0	U	10 11/10/98	
2,4-Dinitrophenol	<33.	U	10 11/10/98	
4-Nitrophenol	<16.	U	10 11/10/98	
Dibenzofuran	<7.0	U	10 11/10/98	
2,4-Dinitrotoluene	<7.0	U	10 11/10/98	
Diethyl phthalate	<7.0	U	10 11/10/98	
Fluorene	<7.0	U	10 11/10/98	
4-Chlorophenyl phenyl ether	<7.0	U	10 11/10/98	
4-Nitroaniline	<33.	U	10 11/10/98	
4,6-Dinitro-2-methylphenol	<33.	U	10 11/10/98	
N-Nitrosodiphenylamine	<7.0	U	10 11/10/98	
4-Bromophenyl phenyl ether	<7.0	U	10 11/10/98	
Hexachlorobenzene	<7.0	U	10 11/10/98	
Pentachlorophenol	<33.	U	10 11/10/98	
Phenanthrene	J 2.7	F	10 11/10/98	
Anthracene	J .75	F	10 11/10/98	
Di-n-butyl phthalate	<7.0	U	10 11/10/98	
Fluoranthene	11.		10 11/10/98	
Pyrene	16.	J	10 11/10/98	
Butyl benzyl phthalate	<7.0	U	10 11/10/98	
3,3'-Dichlorobenzidine	<13.	U	10 11/10/98	
Benzo[a]anthracene	7.0	J	10 11/10/98	
Chrysene	J 6.9	F	10 11/10/98	
bis(2-Ethylhexyl)phthalate	<7.0	U	10 11/10/98	
Di-n-octyl phthalate	<7.0	U	10 11/10/98	
Benzo[b]fluoranthene	9.3	R	10 11/10/98	

# - Outside control limits J-Estimated value

Authorized: Monika Sannucci  
Date: December 8, 1998      Monika Sannucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9291  
Samp. Description: 59UST1-1-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 86.6  
Sample size: 34.6 g

Parameter	Result	Qual	Surrog Limits	Dilution	Analyzed	Notes
Benzo [a] pyrene	J 5.6	R		10	11/10/98	
Indeno [1,2,3-cd] pyrene	J 1.7	R		10	11/10/98	
Dibenz [a,h] anthracene	<7.0	R		10	11/10/98	
Benzo [g,h,i] perylene	J 3.4	R		10	11/10/98	
2-Fluorophenol (surrogate)	80.%		25-135	10	11/10/98	
Phenol-d5 (surrogate)	88.%		25-135	10	11/10/98	
2,4,6-Tribromophenol (surrogate)	74.%		25-144	10	11/10/98	
Nitrobenzene-d5 (surrogate)	77.%		25-135	10	11/10/98	
2-Fluorobiphenyl (surrogate)	84.%		34-135	10	11/10/98	
Terphenyl-d14 (surrogate)	140.% #		32-136	10	11/10/98	

Notes:

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 8, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9291RE  
Samp. Description: 59UST1-1-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 86.6  
Sample size: 34.6 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
bis (2-Chloroethyl) ether	<7.0	U		10 11/11/98	
Phenol	<3.0	U		10 11/11/98	
2-Chlorophenol	<3.0	U		10 11/11/98	
1,3-Dichlorobenzene	<7.0	U		10 11/11/98	
1,4-Dichlorobenzene	<7.0	U		10 11/11/98	
Benzyl alcohol	<13.	U		10 11/11/98	
1,2-Dichlorobenzene	<7.0	U		10 11/11/98	
2-Methylphenol	<3.0	U		10 11/11/98	
bis (2-Chloroisopropyl) ether	<7.0	U		10 11/11/98	
4-Methylphenol	<3.0	U		10 11/11/98	
N-Nitroso-di-n-propylamine	<7.0	U		10 11/11/98	
Hexachloroethane	<7.0	U		10 11/11/98	
Nitrobenzene	<7.0	U		10 11/11/98	
Isophorone	<7.0	U		10 11/11/98	
2-Nitrophenol	<3.0	U		10 11/11/98	
2,4-Dimethylphenol	<3.0	U		10 11/11/98	
bis (2-Chloroethoxy) methane	<7.0	U		10 11/11/98	
Benzoic acid	<16.	R		10 11/11/98	
2,4-Dichlorophenol	<3.0	U		10 11/11/98	
1,2,4-Trichlorobenzene	<7.0	U		10 11/11/98	
Naphthalene	<7.0	U		10 11/11/98	
4-Chloroaniline	<13.	R		10 11/11/98	
Hexachlorobutadiene	<7.0	U		10 11/11/98	
4-Chloro-3-methylphenol	<13.	U		10 11/11/98	
2-Methylnaphthalene	<7.0	U		10 11/11/98	
Hexachlorocyclopentadiene	<7.0	U		10 11/11/98	
2,4,6-Trichlorophenol	<3.0	U		10 11/11/98	
2,4,5-Trichlorophenol	<33.	U		10 11/11/98	
2-Chloronaphthalene	<7.0	U		10 11/11/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 8, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9291RE  
Samp. Description: 59UST1-1-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 86.6  
Sample size: 34.6 g

Parameter	Result	Qual	Surrog			Note
			Limits	Dilution	Analyzed	
2-Nitroaniline	<33.	U		10	11/11/98	
Dimethyl phthalate	<7.0	U		10	11/11/98	
Acenaphthylene	<7.0	U		10	11/11/98	
2,6-Dinitrotoluene	<7.0	U		10	11/11/98	
3-Nitroaniline	<33.	U		10	11/11/98	
Acenaphthene	<7.0	U		10	11/11/98	
2,4-Dinitrophenol	<33.	U		10	11/11/98	
4-Nitrophenol	<16.	U		10	11/11/98	
Dibenzofuran	<7.0	U		10	11/11/98	
2,4-Dinitrotoluene	<7.0	U		10	11/11/98	
Diethyl phthalate	<7.0	U		10	11/11/98	
Fluorene	<7.0	U		10	11/11/98	
4-Chlorophenyl phenyl ether	<7.0	U		10	11/11/98	
4-Nitroaniline	<33.	U		10	11/11/98	
4,6-Dinitro-2-methylphenol	<33.	U		10	11/11/98	
N-Nitrosodiphenylamine	<7.0	U		10	11/11/98	
4-Bromophenyl phenyl ether	<7.0	U		10	11/11/98	
Hexachlorobenzene	<7.0	U		10	11/11/98	
Pentachlorophenol	<33.	U		10	11/11/98	
Phenanthrene	J 2.7	F		10	11/11/98	
Anthracene	J .79	F		10	11/11/98	
Di-n-butyl phthalate	<7.0	U		10	11/11/98	
Fluoranthene	10.			10	11/11/98	
Pyrene	16.	J		10	11/11/98	
Butyl benzyl phthalate	<7.0	U		10	11/11/98	
3,3'-Dichlorobenzidine	<13.	U		10	11/11/98	
Benzo[a]anthracene	7.0	J		10	11/11/98	
Chrysene	J 6.9	F		10	11/11/98	
bis(2-Ethylhexyl)phthalate	<7.0	U		10	11/11/98	
Di-n-octyl phthalate	<7.0	U		10	11/11/98	
Benzo[b]fluoranthene	8.7	J		10	11/11/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 8, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9291RE  
Samp. Description: 59UST1-1-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 86.6  
Sample size: 34.6 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Benzo[a]pyrene	J 5.6	F		10 11/11/98	
Indeno[1,2,3-cd]pyrene	J 2.8	R		10 11/11/98	
Dibenz[a,h]anthracene	<7.0	U		10 11/11/98	
Benzo[g,h,i]perylene	J 3.9	R		10 11/11/98	
2-Fluorophenol (surrogate)	76.%		25-135	10 11/11/98	
Phenol-d5 (surrogate)	83.%		25-135	10 11/11/98	
2,4,6-Tribromophenol (surrogate)	61.%		25-144	10 11/11/98	
Nitrobenzene-d5 (surrogate)	78.%		25-135	10 11/11/98	
2-Fluorobiphenyl (surrogate)	88.%		34-135	10 11/11/98	
Terphenyl-d14 (surrogate)	141.% #		32-136	10 11/11/98	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 8, 1998      Monika Santucci



# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9292  
Samp. Description: 59UST1-2-S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/09/98  
Matrix: Solid  
QC Batch: 110998S1  
%Solids: 86.1  
Sample size: 5.84 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dichlorodifluoromethane	<.0050	R		1	11/09/98
Chloromethane	<.0070	U		1	11/09/98
Vinyl chloride	<.0089	U		1	11/09/98
Bromomethane	<.0050	U		1	11/09/98
Chloroethane	<.0050	U		1	11/09/98
Trichlorofluoromethane	<.0040	U		1	11/09/98
1,1-Dichloroethene	<.0060	U		1	11/09/98
Methylene chloride	J .00060	F		1	11/09/98
trans-1,2-Dichloroethene	<.0030	U		1	11/09/98
Methyl tert-butyl ether	<.0025	U		1	11/09/98
1,1-Dichloroethane	<.0020	U		1	11/09/98
cis-1,2-Dichloroethene	<.0060	U		1	11/09/98
Bromochloromethane	<.0020	U		1	11/09/98
Chloroform	<.0020	U		1	11/09/98
2,2-Dichloropropane	<.020	U		1	11/09/98
1,2-Dichloroethane	<.0030	U		1	11/09/98
1,1,1-Trichloroethane	<.0040	U		1	11/09/98
1,1-Dichloropropene	<.0050	U		1	11/09/98
Carbon tetrachloride	<.0099	U		1	11/09/98
Benzene	<.0020	U		1	11/09/98
Dibromomethane	<.0099	U		1	11/09/98
1,2-Dichloropropane	<.0020	U		1	11/09/98
Trichloroethene	<.0099	U		1	11/09/98
Bromodichloromethane	<.0040	U		1	11/09/98
cis-1,3-Dichloropropene	<.0050	U		1	11/09/98
trans-1,3-Dichloropropene	<.0050	U		1	11/09/98
1,1,2-Trichloroethane	<.0050	U		1	11/09/98
Toluene	J .0010	F		1	11/09/98
1,3-Dichloropropane	<.0020	U		1	11/09/98

# - Outside control limits J-Estimated value

Authorized: Monika Sanrucci  
Date: December 7, 1998      Monika Sanrucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9292  
Samp. Description: 59UST1-2-S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/09/98  
Matrix: Solid  
QC Batch: 110998S1  
%Solids: 86.1  
Sample size: 5.84 g

Parameter	Result	Qual	Surrog		Analyzed	Notes
			Limits	Dilution		
Dibromochloromethane	<.0030	U			1 11/09/98	
1,2-Dibromoethane	<.0030	U			1 11/09/98	
Tetrachloroethene	<.0070	U			1 11/09/98	
1,1,1,2-Tetrachloroethane	<.0030	U			1 11/09/98	
Chlorobenzene	<.0020	U			1 11/09/98	
1-Chlorohexane	<.0030	U			1 11/09/98	
Ethylbenzene	<.0030	U			1 11/09/98	
Bromoform	<.0060	U			1 11/09/98	
o-Xylene	<.0050	U			1 11/09/98	
(m+p)-Xylene	J .00070	F			1 11/09/98	
Xylene (total)	J .00070	F			1 11/09/98	
Styrene	<.0025	U			1 11/09/98	
1,1,2,2-Tetrachloroethane	<.0025	U			1 11/09/98	
1,2,3-Trichloropropane	<.020	U			1 11/09/98	
Isopropylbenzene	<.0080	U			1 11/09/98	
Bromobenzene	<.0020	U			1 11/09/98	
n-Propylbenzene	<.0020	U			1 11/09/98	
2-Chlorotoluene	<.0020	U			1 11/09/98	
4-Chlorotoluene	<.0030	U			1 11/09/98	
1,3,5-Trimethylbenzene	<.0030	U			1 11/09/98	
tert-Butylbenzene	<.0070	U			1 11/09/98	
n-Butylbenzene	<.0050	U			1 11/09/98	
1,2,4-Trimethylbenzene	<.0070	U			1 11/09/98	
sec-Butylbenzene	<.0070	U			1 11/09/98	
1,3-Dichlorobenzene	<.0060	U			1 11/09/98	
1,4-Dichlorobenzene	<.0020	U			1 11/09/98	
p-Isopropyltoluene	<.0060	U			1 11/09/98	
1,2-Dichlorobenzene	<.0020	U			1 11/09/98	
1,2-Dibromo-3-chloropropane	<.0099	U			1 11/09/98	
1,2,4-Trichlorobenzene	<.0020	U			1 11/09/98	
Naphthalene	<.0050	U			1 11/09/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9292  
Samp. Description: 59UST1-2-S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/05/98      Matrix: Solid  
Received: 11/06/98      QC Batch: 110998S1  
Prepared: 11/09/98      %Solids: 86.1  
Sample size: 5.84 g

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Surrog</u> <u>Limits</u>	<u>Dilution</u>	<u>Analyzed</u>	<u>Notes</u>
Hexachlorobutadiene	<.0050	U		1	11/09/98	
1,2,3-Trichlorobenzene	<.0020	U		1	11/09/98	
1,2-Dichloroethane-d4 (surrogate)	78.%		52-149	1	11/09/98	
Dibromofluoromethane (surrogate)	81.%		65-135	1	11/09/98	
Toluene-d8 (surrogate)	82.%		65-135	1	11/09/98	
Bromofluorobenzene (surrogate)	79.%		65-135	1	11/09/98	

Notes:

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

# O'Brien & Gere Laboratories, Inc.

## Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9292  
Samp. Description: 59UST1-2-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 86.1  
Sample Size: 34.8 g

Parameter	Result	Qual	Surrog		Note
			Limits	Dilution Analyzed	
bis(2-Chloroethyl) ether	<35.	U		50 11/10/98	
Phenol	<15.	U		50 11/10/98	
2-Chlorophenol	<15.	U		50 11/10/98	
1,3-Dichlorobenzene	<35.	U		50 11/10/98	
1,4-Dichlorobenzene	<35.	U		50 11/10/98	
Benzyl alcohol	<65.	U		50 11/10/98	
1,2-Dichlorobenzene	<35.	U		50 11/10/98	
2-Methylphenol	<15.	U		50 11/10/98	
bis(2-Chloroisopropyl) ether	<35.	U		50 11/10/98	
4-Methylphenol	<15.	U		50 11/10/98	
N-Nitroso-di-n-propylamine	<35.	U		50 11/10/98	
Hexachloroethane	<35.	U		50 11/10/98	
Nitrobenzene	<35.	U		50 11/10/98	
Isophorone	<35.	U		50 11/10/98	
2-Nitrophenol	<15.	U		50 11/10/98	
2,4-Dimethylphenol	<15.	U		50 11/10/98	
bis(2-Chloroethoxy) methane	<35.	U		50 11/10/98	
Benzoic acid	<80.	R		50 11/10/98	
2,4-Dichlorophenol	<15.	U		50 11/10/98	
1,2,4-Trichlorobenzene	<35.	U		50 11/10/98	
Naphthalene	<35.	U		50 11/10/98	
4-Chloroaniline	<65.	R		50 11/10/98	
Hexachlorobutadiene	<35.	U		50 11/10/98	
4-Chloro-3-methylphenol	<65.	U		50 11/10/98	
2-Methylnaphthalene	<35.	U		50 11/10/98	
Hexachlorocyclopentadiene	<35.	U		50 11/10/98	
2,4,6-Trichlorophenol	<15.	U		50 11/10/98	
2,4,5-Trichlorophenol	<170.	U		50 11/10/98	
2-Chloronaphthalene	<35.	U		50 11/10/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9292  
Samp. Description: 59UST1-2-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 86.1  
Sample Size: 34.8 g

Parameter	Result	Qual	Surrog Limits Dilution Analyzed	Note
2-Nitroaniline	<170.	U	50 11/10/98	
Dimethyl phthalate	<35.	U	50 11/10/98	
Acenaphthylene	<35.	U	50 11/10/98	
2,6-Dinitrotoluene	<35.	U	50 11/10/98	
3-Nitroaniline	<170.	U	50 11/10/98	
Acenaphthene	<35.	U	50 11/10/98	
2,4-Dinitrophenol	<170.	U	50 11/10/98	
4-Nitrophenol	<80.	U	50 11/10/98	
Dibenzofuran	<35.	U	50 11/10/98	
2,4-Dinitrotoluene	<35.	U	50 11/10/98	
Diethyl phthalate	<35.	U	50 11/10/98	
Fluorene	<35.	U	50 11/10/98	
4-Chlorophenyl phenyl ether	<35.	U	50 11/10/98	
4-Nitroaniline	<170.	U	50 11/10/98	
4,6-Dinitro-2-methylphenol	<170.	U	50 11/10/98	
N-Nitrosodiphenylamine	<35.	U	50 11/10/98	
4-Bromophenyl phenyl ether	<35.	U	50 11/10/98	
Hexachlorobenzene	<35.	U	50 11/10/98	
Pentachlorophenol	<170.	U	50 11/10/98	
Phenanthrene	J 16.	F	50 11/10/98	
Anthracene	J 4.0	F	50 11/10/98	
Di-n-butyl phthalate	<35.	U	50 11/10/98	
Fluoranthene	64.		50 11/10/98	
Pyrene	67.		50 11/10/98	
Butyl benzyl phthalate	<35.	U	50 11/10/98	
3,3'-Dichlorobenzidine	<65.	U	50 11/10/98	
Benzo [a] anthracene	37.		50 11/10/98	
Chrysene	35.		50 11/10/98	
bis (2-Ethylhexyl) phthalate	<35.	U	50 11/10/98	
Di-n-octyl phthalate	<35.	U	50 11/10/98	
Benzo [b] fluoranthene	44.		50 11/10/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9292  
Samp. Description: 59UST1-2-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98 Matrix: Solid  
Received: 11/06/98 QC Batch: 110798S1  
Prepared: 11/07/98 %Solids: 86.1  
Sample Size: 34.8 g

Parameter	Result	Qual	Surrog Limits	Dilution	Analyzed	Note
Benzo [a] pyrene	J 28.	F		50	11/10/98	
Indeno [1,2,3-cd] pyrene	J 11.	R		50	11/10/98	
Dibenz [a,h] anthracene	<35.	U		50	11/10/98	
Benzo [g,h,i] perylene	J 14.	R		50	11/10/98	
2-Fluorophenol (surrogate)	73.%		25-135	50	11/10/98	
Phenol-d5 (surrogate)	83.%		25-135	50	11/10/98	
2,4,6-Tribromophenol (surrogate)	58.%		25-144	50	11/10/98	
Nitrobenzene-d5 (surrogate)	74.%		25-135	50	11/10/98	
2-Fluorobiphenyl (surrogate)	87.%		34-135	50	11/10/98	
Terphenyl-d14 (surrogate)	114.%		32-136	50	11/10/98	

Notes:

" - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9293  
Samp. Description: 59UST1-3-S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/05/98 Matrix: Solid  
Received: 11/06/98 QC Batch: 110998S1  
Prepared: 11/09/98 %Solids: 89.3  
Sample size: 5.85 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dichlorodifluoromethane	<.0048	R		1 11/09/98	
Chloromethane	<.0067	U		1 11/09/98	
Vinyl chloride	<.0086	U		1 11/09/98	
Bromomethane	<.0048	U		1 11/09/98	
Chloroethane	<.0048	U		1 11/09/98	
Trichlorofluoromethane	<.0038	U		1 11/09/98	
1,1-Dichloroethene	<.0057	U		1 11/09/98	
Methylene chloride	J .00070	F		1 11/09/98	
trans-1,2-Dichloroethene	<.0029	U		1 11/09/98	
Methyl tert-butyl ether	<.0024	U		1 11/09/98	
1,1-Dichloroethane	<.0019	U		1 11/09/98	
cis-1,2-Dichloroethene	<.0057	U		1 11/09/98	
Bromochloromethane	<.0019	U		1 11/09/98	
Chloroform	<.0019	U		1 11/09/98	
2,2-Dichloropropane	<.019	U		1 11/09/98	
1,2-Dichloroethane	<.0029	U		1 11/09/98	
1,1,1-Trichloroethane	<.0038	U		1 11/09/98	
1,1-Dichloropropene	<.0048	U		1 11/09/98	
Carbon tetrachloride	<.0096	U		1 11/09/98	
Benzene	<.0019	U		1 11/09/98	
Dibromomethane	<.0096	U		1 11/09/98	
1,2-Dichloropropane	<.0019	U		1 11/09/98	
Trichloroethene	<.0096	U		1 11/09/98	
Bromodichloromethane	<.0038	U		1 11/09/98	
cis-1,3-Dichloropropene	<.0048	U		1 11/09/98	
trans-1,3-Dichloropropene	<.0048	U		1 11/09/98	
1,1,2-Trichloroethane	<.0048	U		1 11/09/98	
Toluene	J .0014	F		1 11/09/98	
1,3-Dichloropropane	<.0019	U		1 11/09/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9293  
Samp. Description: 59UST1-3-S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/09/98  
Matrix: Solid  
QC Batch: 110998S1  
%Solids: 89.3  
Sample size: 5.85 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dibromochloromethane	<.0029	U		1 11/09/98	
1,2-Dibromoethane	<.0029	U		1 11/09/98	
Tetrachloroethene	<.0067	U		1 11/09/98	
1,1,1,2-Tetrachloroethane	<.0029	U		1 11/09/98	
Chlorobenzene	<.0019	U		1 11/09/98	
1-Chlorohexane	<.0029	U		1 11/09/98	
Ethylbenzene	<.0029	U		1 11/09/98	
Bromoform	<.0057	U		1 11/09/98	
o-Xylene	<.0048	U		1 11/09/98	
(m+p)-Xylene	J .00070	F		1 11/09/98	
Xylene (total)	J .00070	F		1 11/09/98	
Styrene	<.0024	U		1 11/09/98	
1,1,2,2-Tetrachloroethane	<.0024	U		1 11/09/98	
1,2,3-Trichloropropane	<.019	U		1 11/09/98	
Isopropylbenzene	<.0077	U		1 11/09/98	
Bromobenzene	<.0019	U		1 11/09/98	
n-Propylbenzene	<.0019	U		1 11/09/98	
2-Chlorotoluene	<.0019	U		1 11/09/98	
4-Chlorotoluene	<.0029	U		1 11/09/98	
1,3,5-Trimethylbenzene	<.0029	U		1 11/09/98	
tert-Butylbenzene	<.0067	U		1 11/09/98	
n-Butylbenzene	<.0048	U		1 11/09/98	
1,2,4-Trimethylbenzene	<.0067	U		1 11/09/98	
sec-Butylbenzene	<.0067	U		1 11/09/98	
1,3-Dichlorobenzene	<.0057	U		1 11/09/98	
1,4-Dichlorobenzene	<.0019	U		1 11/09/98	
p-Isopropyltoluene	<.0057	U		1 11/09/98	
1,2-Dichlorobenzene	<.0019	U		1 11/09/98	
1,2-Dibromo-3-chloropropane	<.0096	U		1 11/09/98	
1,2,4-Trichlorobenzene	<.0019	U		1 11/09/98	
Naphthalene	<.0048	U		1 11/09/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci



# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9293  
Samp. Description: 59UST1-3-S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/05/98      Matrix: Solid  
Received: 11/06/98      QC Batch: 110998S1  
Prepared: 11/09/98      %Solids: 89.3  
Sample size: 5.85 g

Parameter	Result	Qual	Surrog Limits	Dilution	Analyzed	Notes
Hexachlorobutadiene	<.0048	U			1	11/09/98
1,2,3-Trichlorobenzene	<.0019	U			1	11/09/98
1,2-Dichloroethane-d4 (surrogate)	85.%		52-149		1	11/09/98
Dibromofluoromethane (surrogate)	83.%		65-135		1	11/09/98
Toluene-d8 (surrogate)	84.%		65-135		1	11/09/98
Bromofluorobenzene (surrogate)	82.%		65-135		1	11/09/98

Notes:

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9293  
Samp. Description: 59UST1-3-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 89.3  
Sample Size: 33.5 g

Parameter	Result	Qual	Surrog		Note
			Limits	Dilution Analyzed	
bis (2-Chloroethyl) ether	<3.5	U		5 11/10/98	
Phenol	<1.5	U		5 11/10/98	
2-Chlorophenol	<1.5	U		5 11/10/98	
1,3-Dichlorobenzene	<3.5	U		5 11/10/98	
1,4-Dichlorobenzene	<3.5	U		5 11/10/98	
Benzyl alcohol	<6.5	U		5 11/10/98	
1,2-Dichlorobenzene	<3.5	U		5 11/10/98	
2-Methylphenol	<1.5	U		5 11/10/98	
bis (2-Chloroisopropyl) ether	<3.5	U		5 11/10/98	
4-Methylphenol	<1.5	U		5 11/10/98	
N-Nitroso-di-n-propylamine	<3.5	U		5 11/10/98	
Hexachloroethane	<3.5	U		5 11/10/98	
Nitrobenzene	<3.5	U		5 11/10/98	
Isophorone	<3.5	U		5 11/10/98	
2-Nitrophenol	<1.5	U		5 11/10/98	
2,4-Dimethylphenol	<1.5	U		5 11/10/98	
bis (2-Chloroethoxy) methane	<3.5	U		5 11/10/98	
Benzoic acid	<8.0	R		5 11/10/98	
2,4-Dichlorophenol	<1.5	U		5 11/10/98	
1,2,4-Trichlorobenzene	<3.5	U		5 11/10/98	
Naphthalene	<3.5	U		5 11/10/98	
4-Chloroaniline	<6.5	R		5 11/10/98	
Hexachlorobutadiene	<3.5	U		5 11/10/98	
4-Chloro-3-methylphenol	<6.5	U		5 11/10/98	
2-Methylnaphthalene	<3.5	U		5 11/10/98	
Hexachlorocyclopentadiene	<3.5	U		5 11/10/98	
2,4,6-Trichlorophenol	<1.5	U		5 11/10/98	
2,4,5-Trichlorophenol	<17.	U		5 11/10/98	
2-Chloronaphthalene	<3.5	U		5 11/10/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9293  
Samp. Description: 59UST1-3-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 89.3  
Sample Size: 33.5 g

Parameter	Result	Qual	Surrog Limits	Dilution	Analyzed	Note
2-Nitroaniline	<17.	U		5	11/10/98	
Dimethyl phthalate	<3.5	U		5	11/10/98	
Acenaphthylene	<3.5	U		5	11/10/98	
2,6-Dinitrotoluene	<3.5	U		5	11/10/98	
3-Nitroaniline	<17.	U		5	11/10/98	
Acenaphthene	<3.5	U		5	11/10/98	
2,4-Dinitrophenol	<17.	U		5	11/10/98	
4-Nitrophenol	<8.0	U		5	11/10/98	
Dibenzofuran	<3.5	U		5	11/10/98	
2,4-Dinitrotoluene	<3.5	U		5	11/10/98	
Diethyl phthalate	<3.5	U		5	11/10/98	
Fluorene	<3.5	U		5	11/10/98	
4-Chlorophenyl phenyl ether	<3.5	U		5	11/10/98	
4-Nitroaniline	<17.	U		5	11/10/98	
4,6-Dinitro-2-methylphenol	<17.	U		5	11/10/98	
N-Nitrosodiphenylamine	<3.5	U		5	11/10/98	
4-Bromophenyl phenyl ether	<3.5	U		5	11/10/98	
Hexachlorobenzene	<3.5	U		5	11/10/98	
Pentachlorophenol	<17.	U		5	11/10/98	
Phenanthrene	J .83	F		5	11/10/98	
Anthracene	J .20	F		5	11/10/98	
Di-n-butyl phthalate	<3.5	U		5	11/10/98	
Fluoranthene	J 3.2	F		5	11/10/98	
Pyrene	J 3.4	F		5	11/10/98	
Butyl benzyl phthalate	<3.5	U		5	11/10/98	
3,3'-Dichlorobenzidine	<6.5	U		5	11/10/98	
Benzo[a]anthracene	J 1.9	F		5	11/10/98	
Chrysene	J 1.7	F		5	11/10/98	
bis(2-Ethylhexyl)phthalate	<3.5	U		5	11/10/98	
Di-n-octyl phthalate	<3.5	U		5	11/10/98	
Benzo[b]fluoranthene	J 2.4	F		5	11/10/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9293  
Samp. Description: 59UST1-3-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 89.3  
Sample Size: 33.5 g

Parameter	Result	Qual	Surrog		Note
			Limits	Dilution Analyzed	
Benzo[a]pyrene	J 1.5	F		5	11/10/98
Indeno[1,2,3-cd]pyrene	J .76	R		5	11/10/98
Dibenz[a,h]anthracene	<3.5	U		5	11/10/98
Benzo[g,h,i]perylene	J .90	R		5	11/10/98
2-Fluorophenol (surrogate)	77.%		25-135	5	11/10/98
Phenol-d5 (surrogate)	83.%		25-135	5	11/10/98
2,4,6-Tribromophenol (surrogate)	71.%		25-144	5	11/10/98
Nitrobenzene-d5 (surrogate)	81.%		25-135	5	11/10/98
2-Fluorobiphenyl (surrogate)	82.%		34-135	5	11/10/98
Terphenyl-d14 (surrogate)	112.%		32-136	5	11/10/98

Notes:

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

Outside control limits J-Estimated value

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9294  
Samp. Description: 59UST1-4-S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/09/98  
Matrix: Solid  
QC Batch: 110998S1  
%Solids: 87.4  
Sample size: 5.91 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dichlorodifluoromethane	<.0048	R		1 11/09/98	
Chloromethane	<.0068	U		1 11/09/98	
Vinyl chloride	<.0087	U		1 11/09/98	
Bromomethane	<.0048	U		1 11/09/98	
Chloroethane	<.0048	U		1 11/09/98	
Trichlorofluoromethane	<.0039	U		1 11/09/98	
1,1-Dichloroethene	<.0058	U		1 11/09/98	
Methylene chloride	<.0019	U		1 11/09/98	
trans-1,2-Dichloroethene	<.0029	U		1 11/09/98	
Methyl tert-butyl ether	<.0024	U		1 11/09/98	
1,1-Dichloroethane	<.0019	U		1 11/09/98	
cis-1,2-Dichloroethene	<.0058	U		1 11/09/98	
Bromochloromethane	<.0019	U		1 11/09/98	
Chloroform	<.0019	U		1 11/09/98	
2,2-Dichloropropane	<.019	U		1 11/09/98	
1,2-Dichloroethane	<.0029	U		1 11/09/98	
1,1,1-Trichloroethane	<.0039	U		1 11/09/98	
1,1-Dichloropropene	<.0048	U		1 11/09/98	
Carbon tetrachloride	<.0097	U		1 11/09/98	
Benzene	<.0019	U		1 11/09/98	
Dibromomethane	<.0097	U		1 11/09/98	
1,2-Dichloropropane	<.0019	U		1 11/09/98	
Trichloroethene	<.0097	U		1 11/09/98	
Bromodichloromethane	<.0039	U		1 11/09/98	
cis-1,3-Dichloropropene	<.0048	U		1 11/09/98	
trans-1,3-Dichloropropene	<.0048	U		1 11/09/98	
1,1,2-Trichloroethane	<.0048	U		1 11/09/98	
Toluene	<.0048	U		1 11/09/98	
1,3-Dichloropropane	<.0019	U		1 11/09/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9294  
Samp. Description: 59UST1-4-S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/09/98  
Matrix: Solid  
QC Batch: 110998S1  
%Solids: 87.4  
Sample size: 5.91 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dibromochloromethane	<.0029	U		1 11/09/98	
1,2-Dibromoethane	<.0029	U		1 11/09/98	
Tetrachloroethene	<.0068	U		1 11/09/98	
1,1,1,2-Tetrachloroethane	<.0029	U		1 11/09/98	
Chlorobenzene	<.0019	U		1 11/09/98	
1-Chlorohexane	<.0029	U		1 11/09/98	
Ethylbenzene	<.0029	U		1 11/09/98	
Bromoform	<.0058	U		1 11/09/98	
o-Xylene	<.0048	U		1 11/09/98	
(m+p)-Xylene	<.0039	U		1 11/09/98	
Xylene (total)	<.0048	U		1 11/09/98	
Styrene	<.0024	U		1 11/09/98	
1,1,2,2-Tetrachloroethane	<.0024	U		1 11/09/98	
1,2,3-Trichloropropane	<.019	U		1 11/09/98	
Isopropylbenzene	<.0077	U		1 11/09/98	
Bromobenzene	<.0019	U		1 11/09/98	
n-Propylbenzene	<.0019	U		1 11/09/98	
2-Chlorotoluene	<.0019	U		1 11/09/98	
4-Chlorotoluene	<.0029	U		1 11/09/98	
1,3,5-Trimethylbenzene	<.0029	U		1 11/09/98	
tert-Butylbenzene	<.0068	U		1 11/09/98	
n-Butylbenzene	<.0048	U		1 11/09/98	
1,2,4-Trimethylbenzene	<.0068	U		1 11/09/98	
sec-Butylbenzene	<.0068	U		1 11/09/98	
1,3-Dichlorobenzene	<.0058	U		1 11/09/98	
1,4-Dichlorobenzene	<.0019	U		1 11/09/98	
p-Isopropyltoluene	<.0058	U		1 11/09/98	
1,2-Dichlorobenzene	<.0019	U		1 11/09/98	
1,2-Dibromo-3-chloropropane	<.0097	U		1 11/09/98	
1,2,4-Trichlorobenzene	<.0019	U		1 11/09/98	
Naphthalene	<.0048	U		1 11/09/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci

Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9294  
Samp. Description: 59UST1-4-S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/09/98  
Matrix: Solid  
QC Batch: 110998S1  
%Solids: 87.4  
Sample size: 5.91 g

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Surrog</u> <u>Limits</u>	<u>Dilution</u>	<u>Analyzed</u>	<u>Notes</u>
Hexachlorobutadiene	<.0048	U			1	11/09/98
1,2,3-Trichlorobenzene	<.0019	U			1	11/09/98
1,2-Dichloroethane-d4 (surrogate)	83.%		52-149		1	11/09/98
Dibromofluoromethane (surrogate)	81.%		65-135		1	11/09/98
Toluene-d8 (surrogate)	81.%		65-135		1	11/09/98
Bromofluorobenzene (surrogate)	75.%		65-135		1	11/09/98

Notes:

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

## Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9294  
Samp. Description: 59UST1-4-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 87.4  
Sample Size: 34.3 g

Parameter	Result	Qual	Surrog		Note
			Limits	Dilution Analyzed	
bis(2-Chloroethyl) ether	<35.	U		50 11/10/98	
Phenol	<15.	U		50 11/10/98	
2-Chlorophenol	<15.	U		50 11/10/98	
1,3-Dichlorobenzene	<35.	U		50 11/10/98	
1,4-Dichlorobenzene	<35.	U		50 11/10/98	
Benzyl alcohol	<65.	U		50 11/10/98	
1,2-Dichlorobenzene	<35.	U		50 11/10/98	
2-Methylphenol	<15.	U		50 11/10/98	
bis(2-Chloroisopropyl) ether	<35.	U		50 11/10/98	
4-Methylphenol	<15.	U		50 11/10/98	
N-Nitroso-di-n-propylamine	<35.	U		50 11/10/98	
Hexachloroethane	<35.	U		50 11/10/98	
Nitrobenzene	<35.	U		50 11/10/98	
Isophorone	<35.	U		50 11/10/98	
2-Nitrophenol	<15.	U		50 11/10/98	
2,4-Dimethylphenol	<15.	U		50 11/10/98	
bis(2-Chloroethoxy) methane	<35.	U		50 11/10/98	
Benzoic acid	<80.	R		50 11/10/98	
2,4-Dichlorophenol	<15.	U		50 11/10/98	
1,2,4-Trichlorobenzene	<35.	U		50 11/10/98	
Naphthalene	<35.	U		50 11/10/98	
4-Chloroaniline	<65.	R		50 11/10/98	
Hexachlorobutadiene	<35.	U		50 11/10/98	
4-Chloro-3-methylphenol	<65.	U		50 11/10/98	
2-Methylnaphthalene	<35.	U		50 11/10/98	
Hexachlorocyclopentadiene	<35.	U		50 11/10/98	
2,4,6-Trichlorophenol	<15.	U		50 11/10/98	
2,4,5-Trichlorophenol	<170.	U		50 11/10/98	
2-Chloronaphthalene	<35.	U		50 11/10/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci



# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9294  
Samp. Description: 59UST1-4-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 87.4  
Sample Size: 34.3 g

Parameter	Result	Qual	Surrog		Note
			Limits	Dilution Analyzed	
2-Nitroaniline	<170.	U		50 11/10/98	
Dimethyl phthalate	<35.	U		50 11/10/98	
Acenaphthylene	<35.	U		50 11/10/98	
2,6-Dinitrotoluene	<35.	U		50 11/10/98	
3-Nitroaniline	<170.	U		50 11/10/98	
Acenaphthene	<35.	U		50 11/10/98	
2,4-Dinitrophenol	<170.	U		50 11/10/98	
4-Nitrophenol	<80.	U		50 11/10/98	
Dibenzofuran	<35.	U		50 11/10/98	
2,4-Dinitrotoluene	<35.	U		50 11/10/98	
Diethyl phthalate	<35.	U		50 11/10/98	
Fluorene	<35.	U		50 11/10/98	
4-Chlorophenyl phenyl ether	<35.	U		50 11/10/98	
4-Nitroaniline	<170.	U		50 11/10/98	
4,6-Dinitro-2-methylphenol	<170.	U		50 11/10/98	
N-Nitrosodiphenylamine	<35.	U		50 11/10/98	
4-Bromophenyl phenyl ether	<35.	U		50 11/10/98	
Hexachlorobenzene	<35.	U		50 11/10/98	
Pentachlorophenol	<170.	U		50 11/10/98	
Phenanthrene	J 17.	F		50 11/10/98	
Anthracene	J 4.4	F		50 11/10/98	
Di-n-butyl phthalate	<35.	U		50 11/10/98	
Fluoranthene	52.			50 11/10/98	
Pyrene	62.			50 11/10/98	
Butyl benzyl phthalate	<35.	U		50 11/10/98	
3,3'-Dichlorobenzidine	<65.	U		50 11/10/98	
Benzo[a]anthracene	J 30.	F		50 11/10/98	
Chrysene	J 29.	F		50 11/10/98	
bis(2-Ethylhexyl)phthalate	<35.	U		50 11/10/98	
Di-n-octyl phthalate	<35.	U		50 11/10/98	
Benzo[b]fluoranthene	J 33.	F		50 11/10/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9294  
Samp. Description: 59UST1-4-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98 Matrix: Solid  
Received: 11/06/98 QC Batch: 110798S1  
Prepared: 11/07/98 %Solids: 87.4  
Sample Size: 34.3 g

Parameter	Result	Qual	Surrog		Note
			Limits	Dilution Analyzed	
Benzo [a] pyrene	J 21.	F		50	11/10/98
Indeno [1, 2, 3-cd] pyrene	J 10.	R		50	11/10/98
Dibenz [a, h] anthracene	<35.	U		50	11/10/98
Benzo [g, h, i] perylene	J 14.	R		50	11/10/98
2-Fluorophenol (surrogate)	79.%		25-135	50	11/10/98
Phenol-d5 (surrogate)	80.%		25-135	50	11/10/98
2,4,6-Tribromophenol (surrogate)	49.%		25-144	50	11/10/98
Nitrobenzene-d5 (surrogate)	77.%		25-135	50	11/10/98
2-Fluorobiphenyl (surrogate)	89.%		34-135	50	11/10/98
Terphenyl-d14 (surrogate)	122.%		32-136	50	11/10/98

Notes:

I - Outside control limits J-Estimated value

Authorized: *Monika Sanrucci*

Date: December 7, 1998 Monika Sanrucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9295  
Samp. Description: 59UST2-1-S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/09/98  
Matrix: Solid  
QC Batch: 110998S1  
%Solids: 85.2  
Sample size: 5.96 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dichlorodifluoromethane	<.0049	R		1 11/09/98	
Chloromethane	<.0069	U		1 11/09/98	
Vinyl chloride	<.0089	U		1 11/09/98	
Bromomethane	<.0049	U		1 11/09/98	
Chloroethane	<.0049	U		1 11/09/98	
Trichlorofluoromethane	<.0039	U		1 11/09/98	
1,1-Dichloroethene	<.0059	U		1 11/09/98	
Methylene chloride	<.0020	U		1 11/09/98	
trans-1,2-Dichloroethene	<.0030	U		1 11/09/98	
Methyl tert-butyl ether	<.0025	U		1 11/09/98	
1,1-Dichloroethane	<.0020	U		1 11/09/98	
cis-1,2-Dichloroethene	<.0059	U		1 11/09/98	
Bromochloromethane	<.0020	U		1 11/09/98	
Chloroform	<.0020	U		1 11/09/98	
2,2-Dichloropropane	<.020	U		1 11/09/98	
1,2-Dichloroethane	<.0030	U		1 11/09/98	
1,1,1-Trichloroethane	<.0039	U		1 11/09/98	
1,1-Dichloropropene	<.0049	U		1 11/09/98	
Carbon tetrachloride	<.0098	U		1 11/09/98	
Benzene	<.0020	U		1 11/09/98	
Dibromomethane	<.0098	U		1 11/09/98	
1,2-Dichloropropane	<.0020	U		1 11/09/98	
Trichloroethene	<.0098	U		1 11/09/98	
Bromodichloromethane	<.0039	U		1 11/09/98	
cis-1,3-Dichloropropene	<.0049	U		1 11/09/98	
trans-1,3-Dichloropropene	<.0049	U		1 11/09/98	
1,1,2-Trichloroethane	<.0049	U		1 11/09/98	
Toluene	<.0049	U		1 11/09/98	
1,3-Dichloropropane	<.0020	U		1 11/09/98	

# - Outside control limits J-Estimated value

Authorized: Monika Sanrucci  
Date: December 7, 1998      Monika Sanrucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9295  
Samp. Description: 59UST2-1-S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/09/98  
Matrix: Solid  
QC Batch: 110998S1  
%Solids: 85.2  
Sample size: 5.96 g

Parameter	Result	Qual	Surrog Limits	Dilution	Analyzed	Notes
Dibromochloromethane	<.0030	U			1	11/09/98
1,2-Dibromoethane	<.0030	U			1	11/09/98
Tetrachloroethene	<.0069	U			1	11/09/98
1,1,1,2-Tetrachloroethane	<.0030	U			1	11/09/98
Chlorobenzene	<.0020	U			1	11/09/98
1-Chlorohexane	<.0030	U			1	11/09/98
Ethylbenzene	<.0030	U			1	11/09/98
Bromoform	<.0059	U			1	11/09/98
o-Xylene	<.0049	U			1	11/09/98
(m+p)-Xylene	<.0039	U			1	11/09/98
Xylene (total)	<.0049	U			1	11/09/98
Styrene	<.0025	U			1	11/09/98
1,1,2,2-Tetrachloroethane	<.0025	U			1	11/09/98
1,2,3-Trichloropropane	<.020	U			1	11/09/98
Isopropylbenzene	<.0079	U			1	11/09/98
Bromobenzene	<.0020	U			1	11/09/98
n-Propylbenzene	<.0020	U			1	11/09/98
2-Chlorotoluene	<.0020	U			1	11/09/98
4-Chlorotoluene	<.0030	U			1	11/09/98
1,3,5-Trimethylbenzene	<.0030	U			1	11/09/98
tert-Butylbenzene	<.0069	U			1	11/09/98
n-Butylbenzene	<.0049	U			1	11/09/98
1,2,4-Trimethylbenzene	<.0069	U			1	11/09/98
sec-Butylbenzene	<.0069	U			1	11/09/98
1,3-Dichlorobenzene	<.0059	U			1	11/09/98
1,4-Dichlorobenzene	<.0020	U			1	11/09/98
p-Isopropyltoluene	<.0059	U			1	11/09/98
1,2-Dichlorobenzene	<.0020	U			1	11/09/98
1,2-Dibromo-3-chloropropane	<.0098	U			1	11/09/98
1,2,4-Trichlorobenzene	<.0020	U			1	11/09/98
Naphthalene	J .00070	F			1	11/09/98

# - Outside control limits J-Estimated value

Authorized: \_\_\_\_\_

*Monika Santucci*

Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9295  
Samp. Description: 59UST2-1-S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/05/98      Matrix: Solid  
Received: 11/06/98      QC Batch: 110998S1  
Prepared: 11/09/98      %Solids: 85.2  
Sample size: 5.96 g

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Surrog</u> <u>Limits</u>	<u>Dilution</u>	<u>Analyzed</u>	<u>Notes</u>
Hexachlorobutadiene	<.0049	U			1 11/09/98	
1,2,3-Trichlorobenzene	<.0020	U			1 11/09/98	
1,2-Dichloroethane-d4 (surrogate)	81.%		52-149		1 11/09/98	
Dibromofluoromethane (surrogate)	82.%		65-135		1 11/09/98	
Toluene-d8 (surrogate)	83.%		65-135		1 11/09/98	
Bromofluorobenzene (surrogate)	75.%		65-135		1 11/09/98	

Notes:

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9295  
Samp. Description: 59UST2-1-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 85.2  
Sample Size: 35.2 g

Parameter	Result	Qual	Surrog		Note
			Limits	Dilution Analyzed	
bis(2-Chloroethyl) ether	<.70	U		1 11/10/98	
Phenol	<.30	U		1 11/10/98	
2-Chlorophenol	<.30	U		1 11/10/98	
1,3-Dichlorobenzene	<.70	U		1 11/10/98	
1,4-Dichlorobenzene	<.70	U		1 11/10/98	
Benzyl alcohol	<1.3	U		1 11/10/98	
1,2-Dichlorobenzene	<.70	U		1 11/10/98	
2-Methylphenol	<.30	U		1 11/10/98	
bis(2-Chloroisopropyl) ether	<.70	U		1 11/10/98	
4-Methylphenol	<.30	U		1 11/10/98	
N-Nitroso-di-n-propylamine	<.70	U		1 11/10/98	
Hexachloroethane	<.70	U		1 11/10/98	
Nitrobenzene	<.70	U		1 11/10/98	
Isophorone	<.70	U		1 11/10/98	
2-Nitrophenol	<.30	U		1 11/10/98	
2,4-Dimethylphenol	<.30	U		1 11/10/98	
bis(2-Chloroethoxy) methane	<.70	U		1 11/10/98	
Benzoic acid	<1.6	R		1 11/10/98	
2,4-Dichlorophenol	<.30	U		1 11/10/98	
1,2,4-Trichlorobenzene	<.70	U		1 11/10/98	
Naphthalene	<.70	U		1 11/10/98	
4-Chloroaniline	<1.3	R		1 11/10/98	
Hexachlorobutadiene	<.70	U		1 11/10/98	
4-Chloro-3-methylphenol	<1.3	U		1 11/10/98	
2-Methylnaphthalene	<.70	U		1 11/10/98	
Hexachlorocyclopentadiene	<.70	U		1 11/10/98	
2,4,6-Trichlorophenol	<.30	U		1 11/10/98	
2,4,5-Trichlorophenol	<3.3	U		1 11/10/98	
2-Chloronaphthalene	<.70	U		1 11/10/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9295  
Samp. Description: 59UST2-1-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 85.2  
Sample Size: 35.2 g

Parameter	Result	Qual	Surrog		Analyzed	Nc
			Limits	Dilution		
2-Nitroaniline	<3.3	U			1	11/10/98
Dimethyl phthalate	<.70	U			1	11/10/98
Acenaphthylene	<.70	U			1	11/10/98
2,6-Dinitrotoluene	<.70	U			1	11/10/98
3-Nitroaniline	<3.3	U			1	11/10/98
Acenaphthene	<.70	U			1	11/10/98
2,4-Dinitrophenol	<3.3	U			1	11/10/98
4-Nitrophenol	<1.6	U			1	11/10/98
Dibenzofuran	<.70	U			1	11/10/98
2,4-Dinitrotoluene	<.70	U			1	11/10/98
Diethyl phthalate	<.70	U			1	11/10/98
Fluorene	<.70	U			1	11/10/98
4-Chlorophenyl phenyl ether	<.70	U			1	11/10/98
4-Nitroaniline	<3.3	U			1	11/10/98
4,6-Dinitro-2-methylphenol	<3.3	U			1	11/10/98
N-Nitrosodiphenylamine	<.70	U			1	11/10/98
4-Bromophenyl phenyl ether	<.70	U			1	11/10/98
Hexachlorobenzene	<.70	U			1	11/10/98
Pentachlorophenol	<3.3	U			1	11/10/98
Phenanthrene	J .35	F			1	11/10/98
Anthracene	J .092	F			1	11/10/98
Di-n-butyl phthalate	<.70	U			1	11/10/98
Fluoranthene	1.1				1	11/10/98
Pyrene	1.9	J			1	11/10/98
Butyl benzyl phthalate	<.70	U			1	11/10/98
3,3'-Dichlorobenzidine	<1.3	U			1	11/10/98
Benzo[a]anthracene	.77	J			1	11/10/98
Chrysene	.74	J			1	11/10/98
bis(2-Ethylhexyl)phthalate	J .043	F			1	11/10/98
Di-n-octyl phthalate	<.70	U			1	11/10/98
Benzo[b]fluoranthene	1.2	R			1	11/10/98

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9295  
Samp. Description: 59UST2-1-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98      Matrix: Solid  
Received: 11/06/98      QC Batch: 110798S1  
Prepared: 11/07/98      %Solids: 85.2  
Sample Size: 35.2 g

Parameter	Result	Qual	Surrog Limits	Dilution	Analyzed	Note
Benzo[a]pyrene	J .66	R			1	11/10/98
Indeno[1,2,3-cd]pyrene	J .16	R			1	11/10/98
Dibenz[a,h]anthracene	<.70	U			1	11/10/98
Benzo[g,h,i]perylene	J .40	R			1	11/10/98
2-Fluorophenol (surrogate)	78.%		25-135		1	11/10/98
Phenol-d5 (surrogate)	85.%		25-135		1	11/10/98
2,4,6-Tribromophenol (surrogate)	83.%		25-144		1	11/10/98
Nitrobenzene-d5 (surrogate)	82.%		25-135		1	11/10/98
2-Fluorobiphenyl (surrogate)	88.%		34-135		1	11/10/98
Terphenyl-d14 (surrogate)	179.% #		32-136		1	11/10/98

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci



# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9295RE  
Samp. Description: 59UST2-1-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 85.2  
Sample Size: 35.2 g

Parameter	Result	Qual	Surrog		Note
			Limits	Dilution Analyzed	
bis(2-Chloroethyl) ether	<.70	U		1 11/10/98	
Phenol	<.30	U		1 11/10/98	
2-Chlorophenol	<.30	U		1 11/10/98	
1,3-Dichlorobenzene	<.70	U		1 11/10/98	
1,4-Dichlorobenzene	<.70	U		1 11/10/98	
Benzyl alcohol	<1.3	U		1 11/10/98	
1,2-Dichlorobenzene	<.70	U		1 11/10/98	
2-Methylphenol	<.30	U		1 11/10/98	
bis(2-Chloroisopropyl) ether	<.70	U		1 11/10/98	
4-Methylphenol	<.30	U		1 11/10/98	
N-Nitroso-di-n-propylamine	<.70	U		1 11/10/98	
Hexachloroethane	<.70	U		1 11/10/98	
Nitrobenzene	<.70	U		1 11/10/98	
Isophorone	<.70	U		1 11/10/98	
2-Nitrophenol	<.30	U		1 11/10/98	
2,4-Dimethylphenol	<.30	U		1 11/10/98	
bis(2-Chloroethoxy) methane	<.70	U		1 11/10/98	
Benzoic acid	<1.6	R		1 11/10/98	
2,4-Dichlorophenol	<.30	U		1 11/10/98	
1,2,4-Trichlorobenzene	<.70	U		1 11/10/98	
Naphthalene	<.70	U		1 11/10/98	
4-Chloroaniline	<1.3	R		1 11/10/98	
Hexachlorobutadiene	<.70	U		1 11/10/98	
4-Chloro-3-methylphenol	<1.3	U		1 11/10/98	
2-Methylnaphthalene	<.70	U		1 11/10/98	
Hexachlorocyclopentadiene	<.70	U		1 11/10/98	
2,4,6-Trichlorophenol	<.30	U		1 11/10/98	
2,4,5-Trichlorophenol	<3.3	U		1 11/10/98	
2-Chloronaphthalene	<.70	U		1 11/10/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9295RE  
Samp. Description: 59UST2-1-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 85.2  
Sample Size: 35.2 g

Parameter	Result	Qual	Surrog		
			Limits	Dilution	Analyzed Note
2-Nitroaniline	<3.3	U		1	11/10/98
Dimethyl phthalate	<.70	U		1	11/10/98
Acenaphthylene	<.70	U		1	11/10/98
2,6-Dinitrotoluene	<.70	U		1	11/10/98
3-Nitroaniline	<3.3	U		1	11/10/98
Acenaphthene	<.70	U		1	11/10/98
2,4-Dinitrophenol	<3.3	U		1	11/10/98
4-Nitrophenol	<1.6	U		1	11/10/98
Dibenzofuran	<.70	U		1	11/10/98
2,4-Dinitrotoluene	<.70	U		1	11/10/98
Diethyl phthalate	<.70	U		1	11/10/98
Fluorene	<.70	U		1	11/10/98
4-Chlorophenyl phenyl ether	<.70	U		1	11/10/98
4-Nitroaniline	<3.3	U		1	11/10/98
4,6-Dinitro-2-methylphenol	<3.3	U		1	11/10/98
N-Nitrosodiphenylamine	<.70	U		1	11/10/98
4-Bromophenyl phenyl ether	<.70	U		1	11/10/98
Hexachlorobenzene	<.70	U		1	11/10/98
Pentachlorophenol	<3.3	U		1	11/10/98
Phenanthrene	J .36	F		1	11/10/98
Anthracene	J .089	F		1	11/10/98
Di-n-butyl phthalate	<.70	U		1	11/10/98
Fluoranthene	1.3	J		1	11/10/98
Pyrene	1.5	J		1	11/10/98
Butyl benzyl phthalate	<.70	U		1	11/10/98
3,3'-Dichlorobenzidine	<1.3	U		1	11/10/98
Benzo[a]anthracene	.77	J		1	11/10/98
Chrysene	.72	J		1	11/10/98
bis(2-Ethylhexyl)phthalate	J .039	F		1	11/10/98
Di-n-octyl phthalate	<.70	U		1	11/10/98
Benzo[b]fluoranthene	1.1	J		1	11/10/98

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9295RE  
Samp. Description: 59UST2-1-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 85.2  
Sample Size: 35.2 g

Parameter	Result	Qual	Surrog Limits	Dilution	Analyzed	Note
Benzo[a]pyrene	J .65	F			1 11/10/98	
Indeno[1,2,3-cd]pyrene	J .19	R			1 11/10/98	
Dibenz[a,h]anthracene	<.70	U			1 11/10/98	
Benzo[g,h,i]perylene	J .35	R			1 11/10/98	
2-Fluorophenol (surrogate)	76.%		25-135		1 11/10/98	
Phenol-d5 (surrogate)	83.%		25-135		1 11/10/98	
2,4,6-Tribromophenol (surrogate)	79.%		25-144		1 11/10/98	
Nitrobenzene-d5 (surrogate)	82.%		25-135		1 11/10/98	
2-Fluorobiphenyl (surrogate)	88.%		34-135		1 11/10/98	
Terphenyl-d14 (surrogate)	143.%	#	32-136		1 11/10/98	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9296  
Samp. Description: 59UST2-2-S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/10/98  
Matrix: Solid  
QC Batch: 111098S1  
%Solids: 84.5  
Sample size: 6.04 g

Parameter	Result	Qual	Surrog Limits	Dilution	Analyzed	Notes
Dichlorodifluoromethane	<.0049	R		1	11/10/98	
Chloromethane	<.0069	U		1	11/10/98	
Vinyl chloride	<.0088	U		1	11/10/98	
Bromomethane	<.0049	U		1	11/10/98	
Chloroethane	<.0049	U		1	11/10/98	
Trichlorofluoromethane	<.0039	U		1	11/10/98	
1,1-Dichloroethene	<.0059	U		1	11/10/98	
Methylene chloride	J .0012	F		1	11/10/98	
trans-1,2-Dichloroethene	<.0029	U		1	11/10/98	
Methyl tert-butyl ether	<.0024	U		1	11/10/98	
1,1-Dichloroethane	<.0020	U		1	11/10/98	
cis-1,2-Dichloroethene	<.0059	U		1	11/10/98	
Bromochloromethane	<.0020	U		1	11/10/98	
Chloroform	<.0020	U		1	11/10/98	
2,2-Dichloropropane	<.020	U		1	11/10/98	
1,2-Dichloroethane	<.0029	U		1	11/10/98	
1,1,1-Trichloroethane	<.0039	U		1	11/10/98	
1,1-Dichloropropene	<.0049	U		1	11/10/98	
Carbon tetrachloride	<.0098	U		1	11/10/98	
Benzene	<.0020	U		1	11/10/98	
Dibromomethane	<.0098	U		1	11/10/98	
1,2-Dichloropropane	<.0020	U		1	11/10/98	
Trichloroethene	<.0098	U		1	11/10/98	
Bromodichloromethane	<.0039	U		1	11/10/98	
cis-1,3-Dichloropropene	<.0049	U		1	11/10/98	
trans-1,3-Dichloropropene	<.0049	U		1	11/10/98	
1,1,2-Trichloroethane	<.0049	U		1	11/10/98	
Toluene	J .00070	F		1	11/10/98	
1,3-Dichloropropane	<.0020	U		1	11/10/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9296  
Samp. Description: 59UST2-2-S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/10/98  
Matrix: Solid  
QC Batch: 111098S1  
%Solids: 84.5  
Sample size: 6.04 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dibromochloromethane	<.0029	U		1 11/10/98	
1,2-Dibromoethane	<.0029	U		1 11/10/98	
Tetrachloroethene	<.0069	U		1 11/10/98	
1,1,1,2-Tetrachloroethane	<.0029	U		1 11/10/98	
Chlorobenzene	<.0020	U		1 11/10/98	
1-Chlorohexane	<.0029	U		1 11/10/98	
Ethylbenzene	<.0029	U		1 11/10/98	
Bromoform	<.0059	U		1 11/10/98	
o-Xylene	<.0049	U		1 11/10/98	
(m+p)-Xylene	<.0039	U		1 11/10/98	
Xylene (total)	<.0049	U		1 11/10/98	
Styrene	<.0024	U		1 11/10/98	
1,1,2,2-Tetrachloroethane	<.0024	U		1 11/10/98	
1,2,3-Trichloropropane	<.020	U		1 11/10/98	
Isopropylbenzene	<.0078	U		1 11/10/98	
Bromobenzene	<.0020	U		1 11/10/98	
n-Propylbenzene	<.0020	U		1 11/10/98	
2-Chlorotoluene	<.0020	U		1 11/10/98	
4-Chlorotoluene	<.0029	U		1 11/10/98	
1,3,5-Trimethylbenzene	<.0029	U		1 11/10/98	
tert-Butylbenzene	<.0069	U		1 11/10/98	
n-Butylbenzene	<.0049	U		1 11/10/98	
1,2,4-Trimethylbenzene	<.0069	U		1 11/10/98	
sec-Butylbenzene	<.0069	U		1 11/10/98	
1,3-Dichlorobenzene	<.0059	U		1 11/10/98	
1,4-Dichlorobenzene	<.0020	U		1 11/10/98	
p-Isopropyltoluene	<.0059	U		1 11/10/98	
1,2-Dichlorobenzene	<.0020	U		1 11/10/98	
1,2-Dibromo-3-chloropropane	<.0098	U		1 11/10/98	
1,2,4-Trichlorobenzene	<.0020	U		1 11/10/98	
Naphthalene	<.0049	U		1 11/10/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9296  
Samp. Description: 59UST2-2-S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/05/98      Matrix: Solid  
Received: 11/06/98      QC Batch: 111098S1  
Prepared: 11/10/98      %Solids: 84.5  
Sample size: 6.04 g

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Surrog</u> <u>Limits</u>	<u>Dilution</u>	<u>Analyzed</u>	<u>Notes</u>
Hexachlorobutadiene	<.0049	U		1	11/10/98	
1,2,3-Trichlorobenzene	<.0020	U		1	11/10/98	
1,2-Dichloroethane-d4 (surrogate)	81.%		52-149	1	11/10/98	
Dibromofluoromethane (surrogate)	82.%		65-135	1	11/10/98	
Toluene-d8 (surrogate)	82.%		65-135	1	11/10/98	
Bromofluorobenzene (surrogate)	77.%		65-135	1	11/10/98	

Notes:

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9296  
Samp. Description: 59UST2-2-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 84.5  
Sample Size: 35.5 g

Parameter	Result	Qual	Surrog		Note
			Limits	Dilution Analyzed	
bis(2-Chloroethyl) ether	<.70	U		1 11/11/98	
Phenol	<.30	U		1 11/11/98	
2-Chlorophenol	<.30	U		1 11/11/98	
1,3-Dichlorobenzene	<.70	U		1 11/11/98	
1,4-Dichlorobenzene	<.70	U		1 11/11/98	
Benzyl alcohol	<1.3	U		1 11/11/98	
1,2-Dichlorobenzene	<.70	U		1 11/11/98	
2-Methylphenol	<.30	U		1 11/11/98	
bis(2-Chloroisopropyl) ether	<.70	U		1 11/11/98	
4-Methylphenol	<.30	U		1 11/11/98	
N-Nitroso-di-n-propylamine	<.70	U		1 11/11/98	
Hexachloroethane	<.70	U		1 11/11/98	
Nitrobenzene	<.70	U		1 11/11/98	
Isophorone	<.70	U		1 11/11/98	
2-Nitrophenol	<.30	U		1 11/11/98	
2,4-Dimethylphenol	<.30	U		1 11/11/98	
bis(2-Chloroethoxy) methane	<.70	U		1 11/11/98	
Benzoic acid	<1.6	R		1 11/11/98	
2,4-Dichlorophenol	<.30	U		1 11/11/98	
1,2,4-Trichlorobenzene	<.70	U		1 11/11/98	
Naphthalene	<.70	U		1 11/11/98	
4-Chloroaniline	<1.3	R		1 11/11/98	
Hexachlorobutadiene	<.70	U		1 11/11/98	
4-Chloro-3-methylphenol	<1.3	U		1 11/11/98	
2-Methylnaphthalene	<.70	U		1 11/11/98	
Hexachlorocyclopentadiene	<.70	U		1 11/11/98	
2,4,6-Trichlorophenol	<.30	U		1 11/11/98	
2,4,5-Trichlorophenol	<3.3	U		1 11/11/98	
2-Chloronaphthalene	<.70	U		1 11/11/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9296  
Samp. Description: 59UST2-2-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 84.5  
Sample Size: 35.5 g

Parameter	Result	Qual	Surrog Limits Dilution Analyzed Note
2-Nitroaniline	<3.3	U	1 11/11/98
Dimethyl phthalate	<.70	U	1 11/11/98
Acenaphthylene	<.70	U	1 11/11/98
2,6-Dinitrotoluene	<.70	U	1 11/11/98
3-Nitroaniline	<3.3	U	1 11/11/98
Acenaphthene	<.70	U	1 11/11/98
2,4-Dinitrophenol	<3.3	U	1 11/11/98
4-Nitrophenol	<1.6	U	1 11/11/98
Dibenzofuran	<.70	U	1 11/11/98
2,4-Dinitrotoluene	<.70	U	1 11/11/98
Diethyl phthalate	<.70	U	1 11/11/98
Fluorene	<.70	U	1 11/11/98
4-Chlorophenyl phenyl ether	<.70	U	1 11/11/98
4-Nitroaniline	<3.3	U	1 11/11/98
4,6-Dinitro-2-methylphenol	<3.3	U	1 11/11/98
N-Nitrosodiphenylamine	<.70	U	1 11/11/98
4-Bromophenyl phenyl ether	<.70	U	1 11/11/98
Hexachlorobenzene	<.70	U	1 11/11/98
Pentachlorophenol	<3.3	U	1 11/11/98
Phenanthrene	J .15	F	1 11/11/98
Anthracene	J .041	F	1 11/11/98
Di-n-butyl phthalate	<.70	U	1 11/11/98
Fluoranthene	J .48	F	1 11/11/98
Pyrene	.86	J	1 11/11/98
Butyl benzyl phthalate	<.70	U	1 11/11/98
3,3'-Dichlorobenzidine	<1.3	U	1 11/11/98
Benzo[a]anthracene	J .38	F	1 11/11/98
Chrysene	J .36	F	1 11/11/98
bis(2-Ethylhexyl)phthalate	J .053	F	1 11/11/98
Di-n-octyl phthalate	<.70	U	1 11/11/98
Benzo[b]fluoranthene	J .54	R	1 11/11/98

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci



# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9296  
Samp. Description: 59UST2-2-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 84.5  
Sample Size: 35.5 g

Parameter	Result	Qual	Surrog Limits	Dilution	Analyzed	Note
Benzo [a] pyrene	J .35	R			1	11/11/98
Indeno [1,2,3-cd] pyrene	J .13	R			1	11/11/98
Dibenz [a,h] anthracene	<.70	R			1	11/11/98
Benzo [g,h,i] perylene	J .19	R			1	11/11/98
2-Fluorophenol (surrogate)	78.%		25-135		1	11/11/98
Phenol-d5 (surrogate)	84.%		25-135		1	11/11/98
2,4,6-Tribromophenol (surrogate)	78.%		25-144		1	11/11/98
Nitrobenzene-d5 (surrogate)	79.%		25-135		1	11/11/98
2-Fluorobiphenyl (surrogate)	91.%		34-135		1	11/11/98
Terphenyl-d14 (surrogate)	170.% #		32-136		1	11/11/98

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9296RE  
Samp. Description: 59UST2-2-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 84.5  
Sample size: 35.5 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
bis(2-Chloroethyl) ether	<.70	U		1 11/18/98	
Phenol	<.30	U		1 11/18/98	
2-Chlorophenol	<.30	U		1 11/18/98	
1,3-Dichlorobenzene	<.70	U		1 11/18/98	
1,4-Dichlorobenzene	<.70	U		1 11/18/98	
Benzyl alcohol	<1.3	U		1 11/18/98	
1,2-Dichlorobenzene	<.70	U		1 11/18/98	
2-Methylphenol	<.30	U		1 11/18/98	
bis(2-Chloroisopropyl) ether	<.70	U		1 11/18/98	
4-Methylphenol	<.30	U		1 11/18/98	
N-Nitroso-di-n-propylamine	<.70	U		1 11/18/98	
Hexachloroethane	<.70	U		1 11/18/98	
Nitrobenzene	<.70	U		1 11/18/98	
Isophorone	<.70	U		1 11/18/98	
2-Nitrophenol	<.30	U		1 11/18/98	
2,4-Dimethylphenol	<.30	U		1 11/18/98	
bis(2-Chloroethoxy) methane	<.70	U		1 11/18/98	
Benzoic acid	<1.6	U		1 11/18/98	
2,4-Dichlorophenol	<.30	U		1 11/18/98	
1,2,4-Trichlorobenzene	<.70	U		1 11/18/98	
Naphthalene	<.70	U		1 11/18/98	
4-Chloroaniline	<1.3	R		1 11/18/98	
Hexachlorobutadiene	<.70	U		1 11/18/98	
4-Chloro-3-methylphenol	<1.3	U		1 11/18/98	
2-Methylnaphthalene	<.70	U		1 11/18/98	
Hexachlorocyclopentadiene	<.70	U		1 11/18/98	
2,4,6-Trichlorophenol	<.30	U		1 11/18/98	
2,4,5-Trichlorophenol	<3.3	U		1 11/18/98	
2-Chloronaphthalene	<.70	U		1 11/18/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 8, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9296RE  
Samp. Description: 59UST2-2-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 84.5  
Sample size: 35.5 g

Parameter	Result	Qual	Surrog Limits Dilution Analyzed Note:
2-Nitroaniline	<3.3	U	1 11/18/98
Dimethyl phthalate	<.70	U	1 11/18/98
Acenaphthylene	<.70	U	1 11/18/98
2,6-Dinitrotoluene	<.70	U	1 11/18/98
3-Nitroaniline	<3.3	U	1 11/18/98
Acenaphthene	<.70	U	1 11/18/98
2,4-Dinitrophenol	<3.3	U	1 11/18/98
4-Nitrophenol	<1.6	U	1 11/18/98
Dibenzofuran	<.70	U	1 11/18/98
2,4-Dinitrotoluene	<.70	U	1 11/18/98
Diethyl phthalate	<.70	U	1 11/18/98
Fluorene	<.70	U	1 11/18/98
4-Chlorophenyl phenyl ether	<.70	U	1 11/18/98
4-Nitroaniline	<3.3	U	1 11/18/98
4,6-Dinitro-2-methylphenol	<3.3	U	1 11/18/98
N-Nitrosodiphenylamine	<.70	U	1 11/18/98
4-Bromophenyl phenyl ether	<.70	U	1 11/18/98
Hexachlorobenzene	<.70	U	1 11/18/98
Pentachlorophenol	<3.3	U	1 11/18/98
Phenanthrene	J .14	F	1 11/18/98
Anthracene	J .037	F	1 11/18/98
Di-n-butyl phthalate	<.70	U	1 11/18/98
Fluoranthene	J .48	F	1 11/18/98
Pyrene	1.2	R	1 11/18/98
Butyl benzyl phthalate	<.70	R	1 11/18/98
3,3'-Dichlorobenzidine	<1.3	R	1 11/18/98
Benzo[a]anthracene	J .38	R	1 11/18/98
Chrysene	J .38	R	1 11/18/98
bis(2-Ethylhexyl)phthalate	J .074	R	1 11/18/98
Di-n-octyl phthalate	<.70	R	1 11/18/98
Benzo[b]fluoranthene	J .48	R	1 11/18/98

# - Outside control limits J-Estimated value

Authorized: Monika Sannucci  
Date: December 8, 1998      Monika Sannucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9296RE  
Samp. Description: 59UST2-2-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 84.5  
Sample size: 35.5 g

Parameter	Result	Qual	Surrog Limits	Dilution	Analyzed	Notes
Benzo[a]pyrene	J .34	R			1	11/18/98
Indeno[1,2,3-cd]pyrene	J .28	R			1	11/18/98
Dibenz[a,h]anthracene	<.70	R			1	11/18/98
Benzo[g,h,i]perylene	J .34	R			1	11/18/98
2-Fluorophenol (surrogate)	85.%		25-135		1	11/18/98
Phenol-d5 (surrogate)	94.%		25-135		1	11/18/98
2,4,6-Tribromophenol (surrogate)	85.%		25-144		1	11/18/98
Nitrobenzene-d5 (surrogate)	84.%		25-135		1	11/18/98
2-Fluorobiphenyl (surrogate)	93.%		34-135		1	11/18/98
Terphenyl-d14 (surrogate)	241.% #		32-136		1	11/18/98

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Sannucci

Date: December 8, 1998      Monika Sannucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9297  
Samp. Description: 59UST2-3-S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/10/98  
Matrix: Solid  
QC Batch: 111098S1  
%Solids: 87.7  
Sample size: 5.91 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dichlorodifluoromethane	<.0048	R		1 11/10/98	
Chloromethane	<.0068	U		1 11/10/98	
Vinyl chloride	<.0087	U		1 11/10/98	
Bromomethane	<.0048	U		1 11/10/98	
Chloroethane	<.0048	U		1 11/10/98	
Trichlorofluoromethane	<.0039	U		1 11/10/98	
1,1-Dichloroethene	<.0058	U		1 11/10/98	
Methylene chloride	J .0010	F		1 11/10/98	
trans-1,2-Dichloroethene	<.0029	U		1 11/10/98	
Methyl tert-butyl ether	<.0024	U		1 11/10/98	
1,1-Dichloroethane	<.0019	U		1 11/10/98	
cis-1,2-Dichloroethene	<.0058	U		1 11/10/98	
Bromochloromethane	<.0019	U		1 11/10/98	
Chloroform	<.0019	U		1 11/10/98	
2,2-Dichloropropane	<.019	U		1 11/10/98	
1,2-Dichloroethane	<.0029	U		1 11/10/98	
1,1,1-Trichloroethane	<.0039	U		1 11/10/98	
1,1-Dichloropropene	<.0048	U		1 11/10/98	
Carbon tetrachloride	<.0096	U		1 11/10/98	
Benzene	<.0019	U		1 11/10/98	
Dibromomethane	<.0096	U		1 11/10/98	
1,2-Dichloropropane	<.0019	U		1 11/10/98	
Trichloroethene	<.0096	U		1 11/10/98	
Bromodichloromethane	<.0039	U		1 11/10/98	
cis-1,3-Dichloropropene	<.0048	U		1 11/10/98	
trans-1,3-Dichloropropene	<.0048	U		1 11/10/98	
1,1,2-Trichloroethane	<.0048	U		1 11/10/98	
Toluene	J .00080	F		1 11/10/98	
1,3-Dichloropropane	<.0019	U		1 11/10/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
 Proj: Air Force Plant 59 #27378  
 Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
 Certification NY No.: 10155

Sample: J9297  
 Samp. Description: 59UST2-3-S01  
 Instrument: HP5973 GCMS#3  
 Units: mg/Kg Dry weight  
 Number of analytes: 66

Collected: 11/05/98  
 Received: 11/06/98  
 Prepared: 11/10/98  
 Matrix: Solid  
 QC Batch: 111098S1  
 %Solids: 87.7  
 Sample size: 5.91 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dibromochloromethane	<.0029	U		1 11/10/98	
1,2-Dibromoethane	<.0029	U		1 11/10/98	
Tetrachloroethene	<.0068	U		1 11/10/98	
1,1,1,2-Tetrachloroethane	<.0029	U		1 11/10/98	
Chlorobenzene	<.0019	U		1 11/10/98	
1-Chlorohexane	<.0029	U		1 11/10/98	
Ethylbenzene	<.0029	U		1 11/10/98	
Bromoform	<.0058	U		1 11/10/98	
o-Xylene	<.0048	U		1 11/10/98	
(m+p)-Xylene	<.0039	U		1 11/10/98	
Xylene (total)	<.0048	U		1 11/10/98	
Styrene	<.0024	U		1 11/10/98	
1,1,2,2-Tetrachloroethane	<.0024	U		1 11/10/98	
1,2,3-Trichloropropane	<.019	U		1 11/10/98	
Isopropylbenzene	<.0077	U		1 11/10/98	
Bromobenzene	<.0019	U		1 11/10/98	
n-Propylbenzene	<.0019	U		1 11/10/98	
2-Chlorotoluene	<.0019	U		1 11/10/98	
4-Chlorotoluene	<.0029	U		1 11/10/98	
1,3,5-Trimethylbenzene	<.0029	U		1 11/10/98	
tert-Butylbenzene	<.0068	U		1 11/10/98	
n-Butylbenzene	<.0048	U		1 11/10/98	
1,2,4-Trimethylbenzene	<.0068	U		1 11/10/98	
sec-Butylbenzene	<.0068	U		1 11/10/98	
1,3-Dichlorobenzene	<.0058	U		1 11/10/98	
1,4-Dichlorobenzene	<.0019	U		1 11/10/98	
p-Isopropyltoluene	<.0058	U		1 11/10/98	
1,2-Dichlorobenzene	<.0019	U		1 11/10/98	
1,2-Dibromo-3-chloropropane	<.0096	U		1 11/10/98	
1,2,4-Trichlorobenzene	<.0019	U		1 11/10/98	
Naphthalene	<.0048	U		1 11/10/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
 Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9297  
Samp. Description: 59UST2-3-S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/05/98      Matrix: Solid  
Received: 11/06/98      QC Batch: 111098S1  
Prepared: 11/10/98      %Solids: 87.7  
Sample size: 5.91 g

Parameter	Result	Qual	Surrog Limits	Dilution	Analyzed	Notes
Hexachlorobutadiene	<.0048	U		1	11/10/98	
1,2,3-Trichlorobenzene	<.0019	U		1	11/10/98	
1,2-Dichloroethane-d4 (surrogate)	81.%		52-149	1	11/10/98	
Dibromofluoromethane (surrogate)	81.%		65-135	1	11/10/98	
Toluene-d8 (surrogate)	81.%		65-135	1	11/10/98	
Bromofluorobenzene (surrogate)	76.%		65-135	1	11/10/98	

Notes:

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9297  
Samp. Description: 59UST2-3-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 87.7  
Sample Size: 34.2 g

Parameter	Result	Qual	Surrog		Note
			Limits	Dilution Analyzed	
bis(2-Chloroethyl) ether	<.70	U		1 11/10/98	
Phenol	<.30	U		1 11/10/98	
2-Chlorophenol	<.30	U		1 11/10/98	
1,3-Dichlorobenzene	<.70	U		1 11/10/98	
1,4-Dichlorobenzene	<.70	U		1 11/10/98	
Benzyl alcohol	<1.3	U		1 11/10/98	
1,2-Dichlorobenzene	<.70	U		1 11/10/98	
2-Methylphenol	<.30	U		1 11/10/98	
bis(2-Chloroisopropyl) ether	<.70	U		1 11/10/98	
4-Methylphenol	<.30	U		1 11/10/98	
N-Nitroso-di-n-propylamine	<.70	U		1 11/10/98	
Hexachloroethane	<.70	U		1 11/10/98	
Nitrobenzene	<.70	U		1 11/10/98	
Isophorone	<.70	U		1 11/10/98	
2-Nitrophenol	<.30	U		1 11/10/98	
2,4-Dimethylphenol	<.30	U		1 11/10/98	
bis(2-Chloroethoxy)methane	<.70	U		1 11/10/98	
Benzoic acid	<1.6	R		1 11/10/98	
2,4-Dichlorophenol	<.30	U		1 11/10/98	
1,2,4-Trichlorobenzene	<.70	U		1 11/10/98	
Naphthalene	<.70	U		1 11/10/98	
4-Chloroaniline	<1.3	R		1 11/10/98	
Hexachlorobutadiene	<.70	U		1 11/10/98	
4-Chloro-3-methylphenol	<1.3	U		1 11/10/98	
2-Methylnaphthalene	<.70	U		1 11/10/98	
Hexachlorocyclopentadiene	<.70	U		1 11/10/98	
2,4,6-Trichlorophenol	<.30	U		1 11/10/98	
2,4,5-Trichlorophenol	<3.3	U		1 11/10/98	
2-Chloronaphthalene	<.70	U		1 11/10/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci



# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9297  
Samp. Description: 59UST2-3-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 87.7  
Sample Size: 34.2 g

Parameter	Result	Qual	Surrog		Note
			Limits	Dilution Analyzed	
2-Nitroaniline	<3.3	U		1 11/10/98	
Dimethyl phthalate	<.70	U		1 11/10/98	
Acenaphthylene	<.70	U		1 11/10/98	
2,6-Dinitrotoluene	<.70	U		1 11/10/98	
3-Nitroaniline	<3.3	U		1 11/10/98	
Acenaphthene	<.70	U		1 11/10/98	
2,4-Dinitrophenol	<3.3	U		1 11/10/98	
4-Nitrophenol	<1.6	U		1 11/10/98	
Dibenzofuran	<.70	U		1 11/10/98	
2,4-Dinitrotoluene	<.70	U		1 11/10/98	
Diethyl phthalate	<.70	U		1 11/10/98	
Fluorene	<.70	U		1 11/10/98	
4-Chlorophenyl phenyl ether	<.70	U		1 11/10/98	
4-Nitroaniline	<3.3	U		1 11/10/98	
4,6-Dinitro-2-methylphenol	<3.3	U		1 11/10/98	
N-Nitrosodiphenylamine	<.70	U		1 11/10/98	
4-Bromophenyl phenyl ether	<.70	U		1 11/10/98	
Hexachlorobenzene	<.70	U		1 11/10/98	
Pentachlorophenol	<3.3	U		1 11/10/98	
Phenanthrene	J .34	F		1 11/10/98	
Anthracene	J .085	F		1 11/10/98	
Di-n-butyl phthalate	<.70	U		1 11/10/98	
Fluoranthene	1.4			1 11/10/98	
Pyrene	2.1	J		1 11/10/98	
Butyl benzyl phthalate	<.70	U		1 11/10/98	
3,3'-Dichlorobenzidine	<1.3	U		1 11/10/98	
Benzo[a]anthracene	.84	J		1 11/10/98	
Chrysene	.83	J		1 11/10/98	
bis(2-Ethylhexyl)phthalate	J .038	F		1 11/10/98	
Di-n-octyl phthalate	<.70	U		1 11/10/98	
Benzo[b]fluoranthene	1.4	R		1 11/10/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9297  
Samp. Description: 59UST2-3-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 87.7  
Sample Size: 34.2 g

Parameter	Result	Qual	Surrog Limits	Dilution	Analyzed	Note
Benzo [a] pyrene	.73	R			1	11/10/98
Indeno [1,2,3-cd] pyrene	J .15	R			1	11/10/98
Dibenz [a,h] anthracene	<.70	R			1	11/10/98
Benzo [g,h,i] perylene	J .39	R			1	11/10/98
2-Fluorophenol (surrogate)	78.%		25-135		1	11/10/98
Phenol-d5 (surrogate)	85.%		25-135		1	11/10/98
2,4,6-Tribromophenol (surrogate)	82.%		25-144		1	11/10/98
Nitrobenzene-d5 (surrogate)	81.%		25-135		1	11/10/98
2-Fluorobiphenyl (surrogate)	86.%		34-135		1	11/10/98
Terphenyl-d14 (surrogate)	171.% #		32-136		1	11/10/98

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9297RE  
Samp. Description: 59UST2-3-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 87.7  
Sample size: 34.2 g

Parameter	Result	Qual	Surrog Limits	Dilution	Analyzed	Notes
bis (2-Chloroethyl) ether	<.70	U		1	11/10/98	
Phenol	<.30	U		1	11/10/98	
2-Chlorophenol	<.30	U		1	11/10/98	
1,3-Dichlorobenzene	<.70	U		1	11/10/98	
1,4-Dichlorobenzene	<.70	U		1	11/10/98	
Benzyl alcohol	<1.3	U		1	11/10/98	
1,2-Dichlorobenzene	<.70	U		1	11/10/98	
2-Methylphenol	<.30	U		1	11/10/98	
bis (2-Chloroisopropyl) ether	<.70	U		1	11/10/98	
4-Methylphenol	<.30	U		1	11/10/98	
N-Nitroso-di-n-propylamine	<.70	U		1	11/10/98	
Hexachloroethane	<.70	U		1	11/10/98	
Nitrobenzene	<.70	U		1	11/10/98	
Isophorone	<.70	U		1	11/10/98	
2-Nitrophenol	<.30	U		1	11/10/98	
2,4-Dimethylphenol	<.30	U		1	11/10/98	
bis (2-Chloroethoxy) methane	<.70	U		1	11/10/98	
Benzoic acid	<1.6	R		1	11/10/98	
2,4-Dichlorophenol	<.30	U		1	11/10/98	
1,2,4-Trichlorobenzene	<.70	U		1	11/10/98	
Naphthalene	<.70	U		1	11/10/98	
4-Chloroaniline	<1.3	R		1	11/10/98	
Hexachlorobutadiene	<.70	U		1	11/10/98	
4-Chloro-3-methylphenol	<1.3	U		1	11/10/98	
2-Methylnaphthalene	<.70	U		1	11/10/98	
Hexachlorocyclopentadiene	<.70	U		1	11/10/98	
2,4,6-Trichlorophenol	<.30	U		1	11/10/98	
2,4,5-Trichlorophenol	<3.3	U		1	11/10/98	
2-Chloronaphthalene	<.70	U		1	11/10/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 8, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9297RE  
Samp. Description: 59UST2-3-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 87.7  
Sample size: 34.2 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
2-Nitroaniline	<3.3	U		1	11/10/98
Dimethyl phthalate	<.70	U		1	11/10/98
Acenaphthylene	<.70	U		1	11/10/98
2,6-Dinitrotoluene	<.70	U		1	11/10/98
3-Nitroaniline	<3.3	U		1	11/10/98
Acenaphthene	<.70	U		1	11/10/98
2,4-Dinitrophenol	<3.3	U		1	11/10/98
4-Nitrophenol	<1.6	U		1	11/10/98
Dibenzofuran	<.70	U		1	11/10/98
2,4-Dinitrotoluene	<.70	U		1	11/10/98
Diethyl phthalate	<.70	U		1	11/10/98
Fluorene	<.70	U		1	11/10/98
4-Chlorophenyl phenyl ether	<.70	U		1	11/10/98
4-Nitroaniline	<3.3	U		1	11/10/98
4,6-Dinitro-2-methylphenol	<3.3	U		1	11/10/98
N-Nitrosodiphenylamine	<.70	U		1	11/10/98
4-Bromophenyl phenyl ether	<.70	U		1	11/10/98
Hexachlorobenzene	<.70	U		1	11/10/98
Pentachlorophenol	<3.3	U		1	11/10/98
Phenanthrene	J .34	F		1	11/10/98
Anthracene	J .083	F		1	11/10/98
Di-n-butyl phthalate	<.70	U		1	11/10/98
Fluoranthene	1.5			1	11/10/98
Pyrene	1.7	J		1	11/10/98
Butyl benzyl phthalate	<.70	U		1	11/10/98
3,3'-Dichlorobenzidine	<1.3	U		1	11/10/98
Benzo[a]anthracene	.86	J		1	11/10/98
Chrysene	.80	J		1	11/10/98
bis(2-Ethylhexyl)phthalate	<.70	U		1	11/10/98
Di-n-octyl phthalate	<.70	U		1	11/10/98
Benzo[b]fluoranthene	1.2	J		1	11/10/98

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 8, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: I9297RE  
Samp. Description: 59UST2-3-S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/05/98 Matrix: Solid  
Received: 11/06/98 QC Batch: 110798S1  
Prepared: 11/07/98 %Solids: 87.7  
Sample size: 34.2 g

Parameter	Result	Qual	Surrog Limits	Dilution	Analyzed	Notes
Benzo[a]pyrene	.71	J			1 11/10/98	
Indeno[1,2,3-cd]pyrene	J .24	R			1 11/10/98	
Dibenz[a,h]anthracene	<.70	U			1 11/10/98	
Benzo[g,h,i]perylene	J .42	R			1 11/10/98	
2-Fluorophenol (surrogate)	75.%		25-135		1 11/10/98	
Phenol-d5 (surrogate)	83.%		25-135		1 11/10/98	
2,4,6-Tribromophenol (surrogate)	80.%		25-144		1 11/10/98	
Nitrobenzene-d5 (surrogate)	81.%		25-135		1 11/10/98	
2-Fluorobiphenyl (surrogate)	86.%		34-135		1 11/10/98	
Terphenyl-d14 (surrogate)	139.% #		32-136		1 11/10/98	

Notes:

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 8, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Trace Metals

Client: Earth Tech Inc.  
Project: Air Force Plant 59  
Proj. Desc: Johnson City, NY

Job No.: 6780.002.517  
Certification NY No.: 10155

Sample: J9939  
Samp. Description: 59UST2-1-S01  
Units: mg/L

Collected: 11/05/98  
Received: 11/06/98  
Matrix: Leachate  
%Solids:  
Number of analytes: 8

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
TCLP Arsenic	<.5	1311/6010	11/17/98	11/18/98	111798W2	5	
TCLP Barium	<.5	1311/6010	11/17/98	11/18/98	111798W2	5	
TCLP Cadmium	.1	1311/6010	11/17/98	11/18/98	111798W2	5	
TCLP Chromium	<.5	1311/6010	11/17/98	11/18/98	111798W2	5	
TCLP Lead	<.5	1311/6010	11/17/98	11/18/98	111798W2	5	
TCLP Mercury	<.0005	1311/7470	11/18/98	11/19/98	111898W1	1	
TCLP Selenium	<.1	1311/6010	11/17/98	11/18/98	111798W2	5	
TCLP Silver	<.5	1311/6010	11/17/98	11/18/98	111798W2	5	

Notes:

Date leachate created: 11/16/98

J-Estimated value

Authorized: Monika Santucci  
Date: November 19, 1998    Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Trace Metals

Client: Earth Tech Inc.  
Project: Air Force Plant 59  
Proj. Desc: Johnson City, NY

Job No.: 6780.002.517  
Certification NY No.: 10155

Sample: J9938  
Samp. Description: 59UST1-2-S01  
Units: mg/L

Collected: 11/05/98  
Received: 11/06/98  
Matrix: Leachate  
%Solids:  
Number of analytes: 8

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
TCLP Arsenic	<.5	1311/6010	11/17/98	11/18/98	111798W2	5	
TCLP Barium	<.5	1311/6010	11/17/98	11/18/98	111798W2	5	
TCLP Cadmium	<.1	1311/6010	11/17/98	11/18/98	111798W2	5	
TCLP Chromium	<.5	1311/6010	11/17/98	11/18/98	111798W2	5	
TCLP Lead	<.5	1311/6010	11/17/98	11/18/98	111798W2	5	
TCLP Mercury	<.0005	1311/7470	11/18/98	11/19/98	111898W1	1	
TCLP Selenium	<.1	1311/6010	11/17/98	11/18/98	111798W2	5	
TCLP Silver	<.5	1311/6010	11/17/98	11/18/98	111798W2	5	

Notes:

Date leachate created: 11/16/98

J-Estimated value

Authorized: Monika Santucci  
Date: November 19, 1998    Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Wet Chemistry

Client: Earth Tech Inc.  
Project: Air Force Plant 59  
Proj. Desc: Johnson City, NY

Job No.: 6780.002.517  
Certification NY No.: 10155

Sample: J9938  
Samp. Description: 59UST1-2-S01

Collected: 11/05/98  
Received: 11/06/98 09:40  
Matrix: Solid

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>QC Batch</u>	<u>Note</u>
Flashpoint	>60.	deg. C	EPA 1010		11/18/98	111898S1	

Notes:

Sample: J9939  
Samp. Description: 59UST2-1-S01

Collected: 11/05/98  
Received: 11/06/98 09:40  
Matrix: Solid

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>QC Batch</u>	<u>Note</u>
Flashpoint	>60.	deg. C	EPA 1010		11/18/98	111898S1	

Notes:

J-Estimated value

Authorized: Monika Santucci  
Date: November 18, 1998    Monika Santucci



# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59  
Proj. Desc: Johnson City, NY

Job No.: 6780.002.517  
Certification NY No.: 10155

Sample: J9051  
Samp. Description: 59UST1W1  
Instrument: HP5970 GC/MS#2  
Units: ug/L  
Number of analytes: 63

Collected: 11/03/98  
Received: 11/03/98  
Prepared: 11/04/98  
Matrix: Water  
QC Batch: 110498W2  
%Solids:  
Purge volume: 25 mL

Parameter	Result	Surrog		Notes
		Limits	Dilution	
Dichlorodifluoromethane	<1.0	1	11/04/98	
Chloromethane	<1.0	1	11/04/98	
Vinyl chloride	<1.0	1	11/04/98	
Bromomethane	<1.0	1	11/04/98	
Chloroethane	<1.0	1	11/04/98	
Trichlorofluoromethane	<1.0	1	11/04/98	
1,1-Dichloroethene	<.50	1	11/04/98	
Methylene chloride	<.50	1	11/04/98	
trans-1,2-Dichloroethene	<.50	1	11/04/98	
Methyl tert-butyl ether	<.50	1	11/04/98	
1,1-Dichloroethane	<.50	1	11/04/98	
cis-1,2-Dichloroethene	<.50	1	11/04/98	
Bromochloromethane	<.50	1	11/04/98	
Chloroform	<.50	1	11/04/98	
2,2-Dichloropropane	<.50	1	11/04/98	
1,2-Dichloroethane	<.50	1	11/04/98	
1,1,1-Trichloroethane	<.50	1	11/04/98	
1,1-Dichloropropene	<.50	1	11/04/98	
Carbon tetrachloride	<.50	1	11/04/98	
Benzene	<.50	1	11/04/98	
Dibromomethane	<.50	1	11/04/98	
1,2-Dichloropropane	<.50	1	11/04/98	
Trichloroethene	<.50	1	11/04/98	
Bromodichloromethane	<.50	1	11/04/98	
cis-1,3-Dichloropropene	<.50	1	11/04/98	
trans-1,3-Dichloropropene	<.50	1	11/04/98	
1,1,2-Trichloroethane	<.50	1	11/04/98	
Toluene	<.50	1	11/04/98	
1,3-Dichloropropane	<.50	1	11/04/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: November 4, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59  
Proj. Desc: Johnson City, NY

Job No.: 6780.002.517  
Certification NY No.: 10155

Sample: J9051  
Samp. Description: 59UST1W1  
Instrument: HP5970 GC/MS#2  
Units: ug/L  
Number of analytes: 63

Collected: 11/03/98  
Received: 11/03/98  
Prepared: 11/04/98  
Matrix: Water  
QC Batch: 110498W2  
%Solids:  
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Dibromochloromethane	<.50		1	11/04/98	
1,2-Dibromoethane	<.50		1	11/04/98	
Tetrachloroethene	<.50		1	11/04/98	
1,1,1,2-Tetrachloroethane	<.50		1	11/04/98	
Chlorobenzene	<.50		1	11/04/98	
Ethylbenzene	<.50		1	11/04/98	
Bromoform	<.50		1	11/04/98	
Xylene (total)	<.50		1	11/04/98	
Styrene	<.50		1	11/04/98	
1,1,2,2-Tetrachloroethane	<.50		1	11/04/98	
1,2,3-Trichloropropane	<.50		1	11/04/98	
Isopropylbenzene	<.50		1	11/04/98	
Bromobenzene	<.50		1	11/04/98	
n-Propylbenzene	<.50		1	11/04/98	
2-Chlorotoluene	<.50		1	11/04/98	
4-Chlorotoluene	<.50		1	11/04/98	
1,3,5-Trimethylbenzene	<.50		1	11/04/98	
tert-Butylbenzene	<.50		1	11/04/98	
n-Butylbenzene	<.50		1	11/04/98	
1,2,4-Trimethylbenzene	<.50		1	11/04/98	
sec-Butylbenzene	<.50		1	11/04/98	
1,3-Dichlorobenzene	<.50		1	11/04/98	
1,4-Dichlorobenzene	<.50		1	11/04/98	
p-Isopropyltoluene	<.50		1	11/04/98	
1,2-Dichlorobenzene	<.50		1	11/04/98	
1,2-Dibromo-3-chloropropane	<.50		1	11/04/98	
1,2,4-Trichlorobenzene	<.50		1	11/04/98	
Naphthalene	<.50		1	11/04/98	
Hexachlorobutadiene	<.50		1	11/04/98	
1,2,3-Trichlorobenzene	<.50		1	11/04/98	
1,2-Dichloroethane-d4 (surrogate)	105.%	62-139	1	11/04/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: November 4, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59  
Proj. Desc: Johnson City, NY

Job No.: 6780.002.517  
Certification NY No.: 10155

Sample: J9051  
Samp. Description: 59UST1W1  
Instrument: HP5970 GC/MS#2  
Units: ug/L  
Number of analytes: 63

Collected: 11/03/98      Matrix: Water  
Received: 11/03/98      QC Batch: 110498W2  
Prepared: 11/04/98      %Solids:  
Purge volume: 25 mL

<u>Parameter</u>	<u>Result</u>	<u>Surrog</u> <u>Limits</u>	<u>Dilution</u>	<u>Analyzed</u>	<u>Notes</u>
Dibromofluoromethane (surrogate)	91.%	75-125	1	11/04/98	
Toluene-d8 (surrogate)	104.%	75-125	1	11/04/98	
Bromofluorobenzene (surrogate)	105.%	75-125	1	11/04/98	

Notes:

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: November 4, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59  
Proj. Desc: Johnson City, NY

Job No.: 6780.002.517  
Certification NY No.: 10155

Sample: J9051  
Samp. Description: 59UST1W1  
Instrument: HP5972A GCMS#5  
Units: ug/L  
Number of analytes: 71

Collected: 11/03/98  
Received: 11/03/98  
Prepared: 11/05/98  
Matrix: Water  
QC Batch: 110598W1  
%Solids:  
Sample Size: 1 L

Parameter	Result	Surrog		Analyzed	Notes
		Limits	Dilution		
bis(2-Chloroethyl) ether	<10.		1	11/05/98	
Phenol	<10.		1	11/05/98	
2-Chlorophenol	<10.		1	11/05/98	
1,3-Dichlorobenzene	<10.		1	11/05/98	
1,4-Dichlorobenzene	<10.		1	11/05/98	
Benzyl alcohol	<10.		1	11/05/98	
1,2-Dichlorobenzene	<10.		1	11/05/98	
2-Methylphenol	<10.		1	11/05/98	
bis(2-Chloroisopropyl) ether	<10.		1	11/05/98	
4-Methylphenol	<10.		1	11/05/98	
N-Nitroso-di-n-propylamine	<10.		1	11/05/98	
Hexachloroethane	<10.		1	11/05/98	
Nitrobenzene	<10.		1	11/05/98	
Isophorone	<10.		1	11/05/98	
2-Nitrophenol	<10.		1	11/05/98	
2,4-Dimethylphenol	<10.		1	11/05/98	
bis(2-Chloroethoxy) methane	<10.		1	11/05/98	
Benzoic acid	<50.		1	11/05/98	
2,4-Dichlorophenol	<10.		1	11/05/98	
1,2,4-Trichlorobenzene	<10.		1	11/05/98	
Naphthalene	<10.		1	11/05/98	
4-Chloroaniline	<10.		1	11/05/98	
Hexachlorobutadiene	<10.		1	11/05/98	
4-Chloro-3-methylphenol	<10.		1	11/05/98	
2-Methylnaphthalene	<10.		1	11/05/98	
Hexachlorocyclopentadiene	<10.		1	11/05/98	
2,4,6-Trichlorophenol	<10.		1	11/05/98	
2,4,5-Trichlorophenol	<50.		1	11/05/98	
2-Chloronaphthalene	<10.		1	11/05/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: November 5, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59  
Proj. Desc: Johnson City, NY

Job No.: 6780.002.517  
Certification NY No.: 10155

Sample: J9051  
Samp. Description: 59UST1W1  
Instrument: HP5972A GCMS#5  
Units: ug/L  
Number of analytes: 71

Collected: 11/03/98  
Received: 11/03/98  
Prepared: 11/05/98  
Matrix: Water  
QC Batch: 110598W1  
%Solids:  
Sample Size: 1 L

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
2-Nitroaniline	<50.		1	11/05/98	
Dimethyl phthalate	<10.		1	11/05/98	
Acenaphthylene	<10.		1	11/05/98	
2,6-Dinitrotoluene	<10.		1	11/05/98	
3-Nitroaniline	<50.		1	11/05/98	
Acenaphthene	<10.		1	11/05/98	
2,4-Dinitrophenol	<50.		1	11/05/98	
4-Nitrophenol	<50.		1	11/05/98	
Dibenzofuran	<10.		1	11/05/98	
2,4-Dinitrotoluene	<10.		1	11/05/98	
Diethyl phthalate	<10.		1	11/05/98	
Fluorene	<10.		1	11/05/98	
4-Chlorophenyl phenyl ether	<10.		1	11/05/98	
4-Nitroaniline	<50.		1	11/05/98	
4,6-Dinitro-2-methylphenol	<50.		1	11/05/98	
N-Nitrosodiphenylamine	<10.		1	11/05/98	
4-Bromophenyl phenyl ether	<10.		1	11/05/98	
Hexachlorobenzene	<10.		1	11/05/98	
Pentachlorophenol	<50.		1	11/05/98	
Phenanthrene	<10.		1	11/05/98	
Anthracene	<10.		1	11/05/98	
Di-n-butyl phthalate	<10.		1	11/05/98	
Fluoranthene	<10.		1	11/05/98	
Pyrene	<10.		1	11/05/98	
Butyl benzyl phthalate	<10.		1	11/05/98	
3,3'-Dichlorobenzidine	<20.		1	11/05/98	
Benzo[a]anthracene	<10.		1	11/05/98	
Chrysene	<10.		1	11/05/98	
bis(2-Ethylhexyl)phthalate	<10.		1	11/05/98	
Di-n-octyl phthalate	<10.		1	11/05/98	
Benzo[b]fluoranthene	<10.		1	11/05/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: November 5, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59  
Proj. Desc: Johnson City, NY

Job No.: 6780.002.517  
Certification NY No.: 10155

Sample: J9051  
Samp. Description: 59UST1W1  
Instrument: HP5972A GCMS#5  
Units: ug/L  
Number of analytes: 71

Collected: 11/03/98      Matrix: Water  
Received: 11/03/98      QC Batch: 110598W1  
Prepared: 11/05/98      %Solids:  
Sample Size: 1 L

<u>Parameter</u>	<u>Result</u>	<u>Surrog</u> <u>Limits</u>	<u>Dilution</u>	<u>Analyzed</u>	<u>Notes</u>
Benzo [k] fluoranthene	<10.		1	11/05/98	
Benzo [a] pyrene	<10.		1	11/05/98	
Indeno [1,2,3-cd] pyrene	<10.		1	11/05/98	
Dibenz [a,h] anthracene	<10.		1	11/05/98	
Benzo [g,h,i] perylene	<10.		1	11/05/98	
2-Fluorophenol (surrogate)	55.%	31-121	1	11/05/98	
Phenol-d5 (surrogate)	36.%	# 46-117	1	11/05/98	
2,4,6-Tribromophenol (surrogate)	106.%	58-112	1	11/05/98	
Nitrobenzene-d5 (surrogate)	97.%	44-130	1	11/05/98	
2-Fluorobiphenyl (surrogate)	94.%	43-122	1	11/05/98	
Terphenyl-d14 (surrogate)	101.%	31-134	1	11/05/98	

Notes:

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: November 5, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59  
Proj. Desc: Johnson City, NY

Job No.: 6780.002.517  
Certification NY No.: 10155

Sample: J9052  
Samp. Description: 59UST2W1  
Instrument: HP5970 GC/MS#2  
Units: ug/L  
Number of analytes: 63

Collected: 11/03/98  
Received: 11/03/98  
Prepared: 11/04/98  
Matrix: Water  
QC Batch: 110498W2  
%Solids:  
Purge volume: 25 mL

Parameter	Result	Surrog		Notes
		Limits	Dilution	
Dichlorodifluoromethane	<1.0		1	11/04/98
Chloromethane	<1.0		1	11/04/98
Vinyl chloride	<1.0		1	11/04/98
Bromomethane	<1.0		1	11/04/98
Chloroethane	<1.0		1	11/04/98
Trichlorofluoromethane	<1.0		1	11/04/98
1,1-Dichloroethene	<.50		1	11/04/98
Methylene chloride	<.50		1	11/04/98
trans-1,2-Dichloroethene	<.50		1	11/04/98
Methyl tert-butyl ether	<.50		1	11/04/98
1,1-Dichloroethane	<.50		1	11/04/98
cis-1,2-Dichloroethene	<.50		1	11/04/98
Bromochloromethane	<.50		1	11/04/98
Chloroform	<.50		1	11/04/98
2,2-Dichloropropane	<.50		1	11/04/98
1,2-Dichloroethane	<.50		1	11/04/98
1,1,1-Trichloroethane	<.50		1	11/04/98
1,1-Dichloropropene	<.50		1	11/04/98
Carbon tetrachloride	<.50		1	11/04/98
Benzene	<.50		1	11/04/98
Dibromomethane	<.50		1	11/04/98
1,2-Dichloropropane	<.50		1	11/04/98
Trichloroethene	<.50		1	11/04/98
Bromodichloromethane	<.50		1	11/04/98
cis-1,3-Dichloropropene	<.50		1	11/04/98
trans-1,3-Dichloropropene	<.50		1	11/04/98
1,1,2-Trichloroethane	<.50		1	11/04/98
Toluene	<.50		1	11/04/98
1,3-Dichloropropane	<.50		1	11/04/98

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: November 4, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59  
Proj. Desc: Johnson City, NY

Job No.: 6780.002.517  
Certification NY No.: 10155

Sample: J9052  
Samp. Description: 59UST2W1  
Instrument: HP5970 GC/MS#2  
Units: ug/L  
Number of analytes: 63

Collected: 11/03/98  
Received: 11/03/98  
Prepared: 11/04/98  
Matrix: Water  
QC Batch: 110498W2  
%Solids:  
Purge volume: 25 mL

Parameter	Result	Surrog		Notes
		Limits	Dilution	
Dibromochloromethane	<.50		1	11/04/98
1,2-Dibromoethane	<.50		1	11/04/98
Tetrachloroethene	<.50		1	11/04/98
1,1,1,2-Tetrachloroethane	<.50		1	11/04/98
Chlorobenzene	<.50		1	11/04/98
Ethylbenzene	<.50		1	11/04/98
Bromoform	<.50		1	11/04/98
Xylene (total)	<.50		1	11/04/98
Styrene	<.50		1	11/04/98
1,1,2,2-Tetrachloroethane	<.50		1	11/04/98
1,2,3-Trichloropropane	<.50		1	11/04/98
Isopropylbenzene	<.50		1	11/04/98
Bromobenzene	<.50		1	11/04/98
n-Propylbenzene	<.50		1	11/04/98
2-Chlorotoluene	<.50		1	11/04/98
4-Chlorotoluene	<.50		1	11/04/98
1,3,5-Trimethylbenzene	<.50		1	11/04/98
tert-Butylbenzene	<.50		1	11/04/98
n-Butylbenzene	<.50		1	11/04/98
1,2,4-Trimethylbenzene	<.50		1	11/04/98
sec-Butylbenzene	<.50		1	11/04/98
1,3-Dichlorobenzene	<.50		1	11/04/98
1,4-Dichlorobenzene	<.50		1	11/04/98
p-Isopropyltoluene	<.50		1	11/04/98
1,2-Dichlorobenzene	<.50		1	11/04/98
1,2-Dibromo-3-chloropropane	<.50		1	11/04/98
1,2,4-Trichlorobenzene	<.50		1	11/04/98
Naphthalene	<.50		1	11/04/98
Hexachlorobutadiene	<.50		1	11/04/98
1,2,3-Trichlorobenzene	<.50		1	11/04/98
1,2-Dichloroethane-d4 (surrogate)	107.%	62-139	1	11/04/98

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: November 4, 1998      Monika Santucci



# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59  
Proj. Desc: Johnson City, NY

Job No.: 6780.002.517  
Certification NY No.: 10155

Sample: J9052  
Samp. Description: 59UST2W1  
Instrument: HP5970 GC/MS#2  
Units: ug/L  
Number of analytes: 63

Collected: 11/03/98      Matrix: Water  
Received: 11/03/98      QC Batch: 110498W2  
Prepared: 11/04/98      %Solids:  
Purge volume: 25 mL

<u>Parameter</u>	<u>Result</u>	<u>Surrog</u> <u>Limits</u>	<u>Dilution</u>	<u>Analyzed</u>	<u>Notes</u>
Dibromofluoromethane (surrogate)	88.%	75-125	1	11/04/98	
Toluene-d8 (surrogate)	105.%	75-125	1	11/04/98	
Bromofluorobenzene (surrogate)	106.%	75-125	1	11/04/98	

Notes:

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: November 4, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59  
Proj. Desc: Johnson City, NY

Job No.: 6780.002.517  
Certification NY No.: 10155

Sample: J9052  
Samp. Description: 59UST2W1  
Instrument: HP5972A GCMS#5  
Units: ug/L  
Number of analytes: 71

Collected: 11/03/98  
Received: 11/03/98  
Prepared: 11/05/98  
Matrix: Water  
QC Batch: 110598W1  
%Solids:  
Sample Size: 1 L

Parameter	Result	Surrog		Analyzed	Notes
		Limits	Dilution		
bis(2-Chloroethyl) ether	<10.		1	11/05/98	
Phenol	<10.		1	11/05/98	
2-Chlorophenol	<10.		1	11/05/98	
1,3-Dichlorobenzene	<10.		1	11/05/98	
1,4-Dichlorobenzene	<10.		1	11/05/98	
Benzyl alcohol	<10.		1	11/05/98	
1,2-Dichlorobenzene	<10.		1	11/05/98	
2-Methylphenol	<10.		1	11/05/98	
bis(2-Chloroisopropyl) ether	<10.		1	11/05/98	
4-Methylphenol	<10.		1	11/05/98	
N-Nitroso-di-n-propylamine	<10.		1	11/05/98	
Hexachloroethane	<10.		1	11/05/98	
Nitrobenzene	<10.		1	11/05/98	
Isophorone	<10.		1	11/05/98	
2-Nitrophenol	<10.		1	11/05/98	
2,4-Dimethylphenol	<10.		1	11/05/98	
bis(2-Chloroethoxy)methane	<10.		1	11/05/98	
Benzoic acid	<50.		1	11/05/98	
2,4-Dichlorophenol	<10.		1	11/05/98	
1,2,4-Trichlorobenzene	<10.		1	11/05/98	
Naphthalene	<10.		1	11/05/98	
4-Chloroaniline	<10.		1	11/05/98	
Hexachlorobutadiene	<10.		1	11/05/98	
4-Chloro-3-methylphenol	<10.		1	11/05/98	
2-Methylnaphthalene	<10.		1	11/05/98	
Hexachlorocyclopentadiene	<10.		1	11/05/98	
2,4,6-Trichlorophenol	<10.		1	11/05/98	
2,4,5-Trichlorophenol	<50.		1	11/05/98	
2-Chloronaphthalene	<10.		1	11/05/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: November 5, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59  
Proj. Desc: Johnson City, NY

Job No.: 6780.002.517  
Certification NY No.: 10155

Sample: J9052  
Samp. Description: 59UST2W1  
Instrument: HP5972A GCMS#5  
Units: ug/L  
Number of analytes: 71

Collected: 11/03/98  
Received: 11/03/98  
Prepared: 11/05/98  
Matrix: Water  
QC Batch: 110598W1  
%Solids:  
Sample Size: 1 L

Parameter	Result	Surrog		Analyzed	Notes
		Limits	Dilution		
2-Nitroaniline	<50.		1	11/05/98	
Dimethyl phthalate	<10.		1	11/05/98	
Acenaphthylene	<10.		1	11/05/98	
2,6-Dinitrotoluene	<10.		1	11/05/98	
3-Nitroaniline	<50.		1	11/05/98	
Acenaphthene	<10.		1	11/05/98	
2,4-Dinitrophenol	<50.		1	11/05/98	
4-Nitrophenol	<50.		1	11/05/98	
Dibenzofuran	<10.		1	11/05/98	
2,4-Dinitrotoluene	<10.		1	11/05/98	
Diethyl phthalate	<10.		1	11/05/98	
Fluorene	<10.		1	11/05/98	
4-Chlorophenyl phenyl ether	<10.		1	11/05/98	
4-Nitroaniline	<50.		1	11/05/98	
4,6-Dinitro-2-methylphenol	<50.		1	11/05/98	
N-Nitrosodiphenylamine	<10.		1	11/05/98	
4-Bromophenyl phenyl ether	<10.		1	11/05/98	
Hexachlorobenzene	<10.		1	11/05/98	
Pentachlorophenol	<50.		1	11/05/98	
Phenanthrene	<10.		1	11/05/98	
Anthracene	<10.		1	11/05/98	
Di-n-butyl phthalate	<10.		1	11/05/98	
Fluoranthene	<10.		1	11/05/98	
Pyrene	<10.		1	11/05/98	
Butyl benzyl phthalate	<10.		1	11/05/98	
3,3'-Dichlorobenzidine	<20.		1	11/05/98	
Benzo[a]anthracene	<10.		1	11/05/98	
Chrysene	<10.		1	11/05/98	
bis(2-Ethylhexyl)phthalate	<10.		1	11/05/98	
Di-n-octyl phthalate	<10.		1	11/05/98	
Benzo[b]fluoranthene	<10.		1	11/05/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: November 5, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59  
Proj. Desc: Johnson City, NY

Job No.: 6780.002.517  
Certification NY No.: 10155

Sample: J9052  
Samp. Description: 59UST2W1  
Instrument: HP5972A GCMS#5  
Units: ug/L  
Number of analytes: 71

Collected: 11/03/98  
Received: 11/03/98  
Prepared: 11/05/98  
Matrix: Water  
QC Batch: 110598W1  
%Solids:  
Sample Size: 1 L

<u>Parameter</u>	<u>Result</u>	<u>Surrog</u> <u>Limits</u>	<u>Dilution</u>	<u>Analyzed</u>	<u>Notes</u>
Benzo[k] fluoranthene	<10.		1	11/05/98	
Benzo[a]pyrene	<10.		1	11/05/98	
Indeno[1,2,3-cd]pyrene	<10.		1	11/05/98	
Dibenz[a,h]anthracene	<10.		1	11/05/98	
Benzo[g,h,i]perylene	<10.		1	11/05/98	
2-Fluorophenol (surrogate)	56.%	31-121	1	11/05/98	
Phenol-d5 (surrogate)	37.%	# 46-117	1	11/05/98	
2,4,6-Tribromophenol (surrogate)	105.%	58-112	1	11/05/98	
Nitrobenzene-d5 (surrogate)	98.%	44-130	1	11/05/98	
2-Fluorobiphenyl (surrogate)	94.%	43-122	1	11/05/98	
Terphenyl-d14 (surrogate)	110.%	31-134	1	11/05/98	

Notes:

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: November 5, 1998      Monika Santucci

**Attachment 2: Waste Transport and  
Disposal Records**

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. **N.Y.5.5.0.0.0.2.4.6.4.10.0.1.0.1**

Manifest Document No.

2. Page 1 of 1 **8.0.1.00101**

3. Generator's Name and Mailing Address  
**ASCZEM**  
**1301 TENTH ST.**  
**BUILDING 8 SUITE 2**  
 4. Generator's Phone ( **937**) **255-4151** **WRIGHT-PATTERSON AFB, OH 45433**

SITE ADDRESS  
**AIR FORCE PLANT 59**  
**600 MAIN ST.**  
**JOHNSON CITY, NY 13790**

5. Transporter 1 Company Name **OP-TECH ENVIRONMENTAL SERVICES, INC.**  
 6. US EPA ID Number **N.Y.D.9.8.6.9.8.0.7.5.3**

A. Transporter's Phone **(315)463-1543**

7. Transporter 2 Company Name  
 8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
**INDUSTRIAL OIL TANK SERVICE CORP.**  
**120 DRY ROAD**  
**ORISKANY, NY ~~14107~~ ins**  
 10. US EPA ID Number **N.Y.R.0.0.0.0.0.5.2.9.8**

C. Facility's Phone **(315)736-6080**

11. Waste Shipping Name and Description

12. Containers No. Type 13. Total Quantity 14. Unit W/Vol

a. **WATER (NOT USDOT OR USEPA REGULATED MATERIAL)**

**021** **DR** **06300P**

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information  
**NYRZ 5055**

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name  
**X GEORGE R. WATERS**

Signature  
**X George R. Waters**

Month Day Year  
**11 17 04**

17. Transporter 1 Acknowledgement of Receipt of Materials  
 Printed/Typed Name  
**George R. Waters**

Signature  
**George R. Waters**

Month Day Year  
**11 17 04**

18. Transporter 2 Acknowledgement of Receipt of Materials  
 Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR

TRANSPORTER

FACILITY

**NON-HAZARDOUS  
WASTE MANIFEST**

1. Generator's US EPA ID No. **NY 5570024641** Manifest Document No. **00102**

2. Page 1 of 1 **E.O.L.00102**

3. Generator's Name and Mailing Address  
**ASC/EM  
1801 TENTH ST.  
BUILDING 8 SUITE 2  
WRIGHT-PATTERSON AFB, OH 45433**

SITE ADDRESS  
**AIR FORCE PLANT 59  
600 MAIN ST.  
JOHNSON CITY, NY 13790**

4. Generator's Phone ( **937) 255-4151** 5. Transporter 1 Company Name **OP-TECH ENVIRONMENTAL SERVICES, INC.** 6. US EPA ID Number **NY D 985980753**

A. Transporter's Phone **(315)463-1643**

7. Transporter 2 Company Name 8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
**CWM CHEMICAL SERVICES LLC  
1550 BALMER RD.  
MODEL CITY, NY 14107** 10. US EPA ID Number **NY B 049836579**

C. Facility's Phone **(716)754-8231**

11. Waste Shipping Name and Description

12. Containers No. Type 13. Total Quantity 14. Unit W/Vol

a. **ABSORBENT AND OIL (NOT USDOT OR USEPA REGULATED MATERIAL)**

**001** **D F** **00200** **P**

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information  
  
**NY 02 5055**

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name **GEORGE R. WALTERS**

Signature *George R. Walters*

Month Day Year **11 17 98**

17. Transporter 1 Acknowledgement of Receipt of Materials  
Printed/Typed Name **MARC ANAZA**

Signature *Marc Anaza*

Month Day Year **11 17 98**

18. Transporter 2 Acknowledgement of Receipt of Materials  
Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR  
TRANSPORTER  
FACILITY

**NON-HAZARDOUS  
WASTE MANIFEST**

1. Generator's US EPA ID No. **NY550002464100108** Manifest Document No.

2. Page 1 of 1

3. Generator's Name and Mailing Address  
**AIR FORCE Plant 59  
600 main ST  
Johnson City NY 13790**

**ASC/EM 1801 TENTH ST  
Building & Suite 2  
Wright PATERSON AFB OH  
454**

4. Generator's Phone ( **937** ) **255-4151**

5. Transporter 1 Company Name **LCIT motor  
Page Transportation Lines**

6. US EPA ID Number

A. Transporter's Phone  
**607-844-8828**

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Address  
**BROOME County Landfill  
286 Knap Road  
Binghamton NY 13905**

10. US EPA ID Number

C. Facility's Phone  
**607-763-4450**

11. Waste Shipping Name and Description

12. Containers No. Type 13. Total Quantity 14. Unit Wt/Vol

a. **Soil  
(NOT USDOT OR USEPA Regulated MATERIAL)**

**0.01 CY 28.72 T**

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information  
  
**DEC # 7A-397** **JOB # PEAT-01**

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name  
**GEORGE R. WALTERS**

Signature  
**George R. Walters**

Month Day Year  
**12 04 98**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name  
**Brent Nash**

Signature  
**Brent Nash**

Month Day Year  
**12 04 98**

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year



**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. **NY5500024641**

Manifest Document No. **0070**

2. Page 1 of 1

*Handwritten notes*

3. Generator's Name and Mailing Address  
*General Electric Plant # 57  
 600 ... ST ... City NY 12710*

4. Generator's Phone **(937) 255-4151**

5. Transporter 1 Company Name **...**

6. US EPA ID Number

A. Transporter's Phone **...**

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
*... County, ...*

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description

12. Containers No. Type

13. Total Quantity

14. Unit W/Vol

a. *Soil (NOT SUBJECT TO US EPA Reg. 124.63)*

**001 cy 25.85 T**

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information  
*...*

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name **GEORGE R WALTERS**

Signature *George R. Walters*

Month Day Year **12 04 98**

17. Transporter 1 Acknowledgement of Receipt of Materials  
 Printed/Typed Name **Brent NASH**

Signature *Brent Nash*

Month Day Year **12 04 98**

18. Transporter 2 Acknowledgement of Receipt of Materials  
 Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.  
**BROOME COUNTY**

Printed/Typed Name

Signature **DANIEL J. ...**

Month Day Year

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. **NY550002464100103** Manifest Document No.

2. Page 1 of 1 **12.07.98**

3. Generator's Name and Mailing Address **AIR FORCE PLANT 55**  
**937-5554151**  
**600 MAIN ST**  
**JOHNSON CITY, NY 13790**

A. Transporter's Phone  
**1-607-551-6551**

4. Generator's Phone ( )  
 5. Transporter 1 Company Name  
 6. US EPA ID Number

7. Transporter 2 Company Name  
 8. US EPA ID Number

B. Transporter's Phone  
 C. Facility's Phone

9. Designated Facility Name and Site Address  
**BROOME COUNTY LANDFILL**  
**285 HUNTERS**  
**PROSPERITY NY 13795**

10. US EPA ID Number

11. Waste Shipping Name and Description  
**SOLUBLE WASTE OF US AIR FORCE PLANT 55**

12. Containers No. Type  
 13. Total Quantity  
 14. Unit Wt/Vol

a. **SOLUBLE WASTE OF US AIR FORCE PLANT 55**

**001 cy 33.18 T**

b.  
 c.  
 d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information  
**DIC # 74 357**

**16. GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name **GRACE R. WALTERS**

Signature **Grace R. Walters**

Month Day Year **12 07 98**

17. Transporter 1 Acknowledgement of Receipt of Materials  
 Printed/Typed Name **BRIAN COOPER**

Signature **Brian Cooper**

Month Day Year **12 07 98**

18. Transporter 2 Acknowledgement of Receipt of Materials  
 Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

**DEC 4 REGD**  
**BROOME COUNTY**  
**SANITARY LANDFILL**

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.  
 Printed/Typed Name

Signature **Brian Cooper**

Month Day Year

**NON-HAZARDOUS  
WASTE MANIFEST**

1. Generator's US EPA ID No.

NY5500024641

Manifest Document No.

00704

2. Page 1

of 1

B.O.C 00104

3. Generator's Name and Mailing Address

AIR FORCE Plant # 59  
600 main ST Johnson City NY 13790

ASC/EM 1801 TENTH ST  
Building & Suite 2

Wright PATTERSON AFB OH 4543

4. Generator's Phone (937) 255-4151

5. Transporter 1 Company Name LOTT MOTOR

~~PAVE PROTECTION LINES~~

6. US EPA ID Number

A. Transporter's Phone 8825

607-844-6277

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

WATERLOO  
BRADY COUNTY Landfill  
256 KNEPP RD  
BINGHAMTON NY 13905

10. US EPA ID Number

C. Facility's Phone

607-763-4450

11. Waste Shipping Name and Description

a. Soil (NOT US DOT OR USEPA REGULATED MATERIAL)

12. Containers

No. Type

13. Total Quantity

14. Unit Wt/Vol

001 CY 27.59 T

GENERATOR

D. Additional Descriptions for Materials Listed Above

E. Handling Code

15. Special Handling Instructions and Additional Information

DEC-7A-397

JOB # PEAF-01

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

GEORGE R WALTERS

Signature

*George R. Walters*

Month Day Year

12 04 98

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

BRENT NASH

Signature

*Brent Nash*

Month Day Year

12 4 98

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.

NY 5500024641

Manifest Document No.

00705

2. Page 1 of 1

B.O.L. 00105

3. Generator's Name and Mailing Address

AIR FORCE Plant #59  
600 Main St Johnson City NY 13790

ASC/EM  
1801 TENTH ST  
Building 8 Wright PATERSON  
Suite 2 OH, 43111

4. Generator's Phone (937) 255-4151

5. Transporter 1 Company Name  
~~Ring Transport~~  
LOTT Motor Lines

6. US EPA ID Number

A. Transporter's Phone  
607-894-6687 8828

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Beome County Landfill  
260 Knapp Rd  
Binghamton NY 13905

10. US EPA ID Number

C. Facility's Phone

607-763-4450

11. Waste Shipping Name and Description

a. Soil  
(NOT US DOT OR USEPA REGULATED MATERIAL)

12. Containers  
No. Type

13. Total Quantity

14. Unit Wt/Vol

001 CY 28 1/2 T

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

DEC # 7A-397

JOB # PENT-01

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

GEORGE R. WALTERS

Signature

*George R. Walters*

Month Day Year

12 04 98

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Brian Cooper

Signature

*Brian Cooper*

Month Day Year

12 04 98

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

**Attachment 3: NYSDEC Spill Report Form**

### NYSDEC SPILL REPORT FORM



DEC REGION# 7 (Kirkwood) SPILL NUMBER 9865062  
 SPILL NAME: FORMER AIR FORCE PLANT 59 DEC LEAD: JOS  
 CALLER'S NAME: DAVE PARSE NOTIFIER'S NAME: SAME  
 CALLER'S AGENCY: EARTH-TECH NOTIFIER'S AGENCY: \_\_\_\_\_  
 CALLER'S PHONE: (703) 706-0508 EXT. \_\_\_\_\_ NOTIFIER'S PHONE: \_\_\_\_\_ EXT. \_\_\_\_\_

SPILL DATE: 11/16/98 TIME: 12:00  
 CALL RECEIVED DATE: 11/16/98 TIME: 12:00 RECEIVED BY CID #: \_\_\_\_\_

Material Spilled	Mat. Class	Am't Spilled	Units	Am't Recovered
1) <u>UNKNOWN PETROLEUM</u>	<u>Pet-Haz-Other-Unk.</u>	<u>Unknown</u>	<u>Gal</u> - Lbs	<u>0</u>
2) _____	<u>Pet-Haz-Other-Unk.</u>	_____	<u>Gal</u> - Lbs	_____
3) _____	<u>Pet-Haz-Other-Unk.</u>	_____	<u>Gal</u> - Lbs	_____
4) _____	<u>Pet-Haz-Other-Unk.</u>	_____	<u>Gal</u> - Lbs	_____

#### SPILL LOCATION

PLACE: FORMER AIR FORCE PLANT 59  
 STREET: 600 MAIN STREET  
 CITY: JOHNSON CITY CO: BROOME  
 CONTACT: DAVE PARSE  
 PHONE: (703) 706-0508 EXT. \_\_\_\_\_

#### POTENTIAL SPILLER

NAME: US AIR FORCE  
 STREET: \_\_\_\_\_  
 CITY: \_\_\_\_\_  
 STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_  
 CONTACT: \_\_\_\_\_  
 PHONE: \_\_\_\_\_ EXT. \_\_\_\_\_

#### SPILL CAUSE

Human Error  Tank Test Failure  Tank Failure   
 Traffic Accident  Housekeeping  Tank Overfill   
 Equipment Failure  Deliberate  Other   
 Vandalism  Abandoned Drums  Unknown

#### SPILL SOURCE

Gas Station  Private Dwelling  Non-Maj Facility   
 Passenger Vehicle  Vessel  Comm/Indust   
 Comm. Vehicle  Railroad Car  Non-Comm/Instit   
 Tank Truck  Major Facility  Unknown

#### RESOURCE AFFECTED

On Land  Groundwater  Air   
 In Sewer  Surface Water

#### SPILL REPORTED BY

Responsible Party  Tank Tester  Local Agency   
 Affected Persons  DEC  Federal Gov't   
 Police Department  Citizen  Other   
 Fire Department  Health Dept.

WATERBODY: \_\_\_\_\_

CALLER REMARKS: FORMER UNDERGROUND STORAGE TANKS FOUND FULL OF WATER. CONTENTS REMOVED. SOIL SAMPLES FOUND LOW LEVELS VOC'S & PAH'S.

PBS Number	Tank Number	Tank Size	Test Method	Leak Rate
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

PRIMARY CONTACT CALLED DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ hrs. REACHED DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ hrs.  
 SECONDARY CONT. CALLED DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ hrs. FAXED BY CID#: \_\_\_\_\_

PIN #	T & A	Cost Center	SR to Central Office
Cleanup Ceased	Meets St'ds	NO	Last Inspection
RP-CUI	ENF-INIT	INVES-COM	CAP
UST Trust Eligible	NO	Site: A B C <u>D</u> E	Resp. Party 1 2 <u>3</u> 4 5 6
Reg Close Date			

Created on 11/17/98 Last Updated on 11/17/98 Is Updated? YES  EDO  DATA INPUT [ ]  
 TOTAL P.02