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**LIMITED SOIL AND GROUND WATER  
ASSESSMENT REPORT  
TERRA EXCAVATING, INC.  
PROPERTY  
LARGO, FLORIDA**

*Prepared for:*

**PINELLAS COUNTY COUMMUNITY DEVELOPMENT DEPARTMENT**  
14 South Fort Harrison Avenue  
Suite 3050  
Clearwater, Florida 34616

*Prepared by:*

**ATLANTA TESTING & ENGINEERING, INC.**  
1211 Tech Boulevard  
Suite 200  
Tampa, Florida 33619

June 2, 1997  
**AT&E Job No. 27-2669**

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Ms. Carol A. Seaman  
Pinellas County Community  
Development Department  
14 South Fort Harrison Ave.  
Suite 3050  
Clearwater, Florida 34616

May 30, 1997  
AT&E Job No. 27-2669

Re: Limited Soil and Ground Water Assessment Report  
Terra Excavating, Inc. Property  
13400 Pine Street  
Largo, Florida

Dear Ms. Seaman:

Atlanta Engineering & Testing (AT&E) is pleased to present this report detailing limited soil and ground water assessment activities performed at the above referenced property. The purpose of this investigation was to evaluate the potential for wide-spread soil and ground water contamination resulting from the historical landfilling and truck maintenance operations conducted at the subject property. The scope of work performed for this assessment was conducted in accordance with AT&E's proposal number 2797-086a, dated April 9, 1997.

#### PROJECT UNDERSTANDING

It is AT&E's understanding that the Pinellas County Community Development Department (County) is considering purchase of the Terra Excavating, Inc. property located at 13400 Pine Street in Largo, Florida. The property is approximately 20 acres in size and is located in Section 5, Township 30 South, Range 15 East, as shown on Plate 1. Based on our site visit, subsequent review of the historical areal photographs and review of the Florida Department of Environmental Protection (FDEP) case file, AT&E understands that the property has operated as a construction and debris landfill since approximately 1971. Prior to 1971 the property operated as a sand borrow pit. According to Mr. David White, Vice President of Terra Excavating, Inc., we understand that the former sand pit has received primarily concrete rubble and foliage as landfill material. The landfilling of foliage ceased in approximately 1985. Mr. White informed AT&E that two clay barrier walls divide the landfill into thirds from east to west, as shown on Plate 2. There is currently an aboveground diesel fuel storage tank on the property, which replaced an underground storage tank in approximately 1994. A previous investigation conducted by others on the adjacent property to the south indicated that the direction of ground water flow in the vicinity of the property is toward the west - northwest.

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## INVESTIGATION ACTIVITIES AND RESULTS

Based on AT&E's understanding of the historical site operations and the objectives of the County's desire to purchase the subject property, the following scope of work was designed and completed to evaluate the potential for wide-spread soil and ground water contamination. It should be noted that the following scope of work completed for this investigation was not intended to identify specific point sources of potential soil or ground water contamination, but provide an overall assessment of soil and ground water quality at the site.

### Soil Sample Collection and Analysis

On April 11, 1997, AT&E personnel collected soil samples from six temporary monitoring well borings (TMW-1 through TMW-6) installed at the locations shown on Plate 2. At each location, soil samples were collected at approximately five foot intervals from borings installed using a truck-mounted drill rig, utilizing hollow stem and/or solid stem auger drilling techniques. The soil samples were collected at depths ranging from 2 to 27.5 feet below ground surface (bgs). The samples were screened in the field for the presence of volatile organic vapors using an organic vapor analyzer (OVA) equipped with a flame ionization detector (FID). The OVA/FID screening was conducted in accordance with the method described in Section 62-770.200(2), Florida Administrative Code (FAC). The screening method consists of the following:

- ▶ for each sample, two 16 ounce glass jars (i.e mason jars) are filled approximately half full with soil. The jars are immediately covered with aluminum foil and a screw-on lid is secured to prevent the escape of organic vapors;
- ▶ a hollow steel probe connected to the OVA is inserted through the foil top of the first jar and a reading of the concentration of **total** volatile organic vapors is obtained;
- ▶ a second hollow steel probe with an inline charcoal filter is inserted through the foil top of the second jar and a reading of the concentration of volatile organic vapors associated with naturally occurring organic compounds (typically methane and ethane) is obtained;
- ▶ the concentration of the naturally occurring volatile organic vapors is subtracted from the concentration of total volatile organic vapors to provide the **corrected** concentration of volatile organic vapors presumed to be associated with volatile organic contaminants such as petroleum products and solvents.

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Due to the inherent inaccuracies associated with obtaining equal sample volumes in each sample jar, the total readings obtained during the screening can, at times, provide corrected concentrations which are higher or lower than the corrected value. The presence of decaying organic material in several of the samples collected at locations TMW-1 and TMW-2 is believed to be responsible for the elevated total and filtered organic vapor concentrations (greater than 1,000 parts per million (ppm)). Based on these elevated concentrations, the corrected volatile organic vapor concentrations could not be determined. However, it should be noted that no petroleum odors were encountered during installation of the two borings at the locations of TMW-1 and TMW-2. Volatile organic vapors were not detected in the soil samples in which corrected concentrations could be calculated.

On April 17 and 18, 1997, soil samples were collected from 12 hand augered borings (B-1 through B-12) installed in the vicinity of the truck maintenance area and the existing above ground diesel fuel storage tank area, as shown on Plate 4. At each location, soil samples were collected at approximately two foot intervals to a depth of approximately nine feet bgs. The samples were screened in the field for the presence of volatile organic vapors using an OVA/FID, as described above. The corrected volatile organic vapor concentrations of the soil samples collected from locations B-1 through B-12 ranged from 0 to 7 ppm. The OVA/FID results are summarized in Table 1.

Following the collection and screening of soil samples from the truck maintenance and diesel fuel storage tank areas, soil samples were collected for laboratory analysis from three boring locations (B-4 (4.5-5.0), B-11 (0.5-1.0) and B-12 (0.5-1.0)) at the selected depth intervals in which the soil samples had exhibited the highest volatile organic vapor concentrations. The soil samples were collected in general accordance with the procedures specified in AT&E's Comprehensive Quality Assurance Plan (CompQAP) Number 930037, which has been approved by the FDEP. The samples were submitted to V.O.C. Analytical Laboratories, Inc. for analysis of purgeable hydrocarbons using EPA Method 8020, purgeable halocarbons using EPA Method 8010, polynuclear aromatic hydrocarbons (PAHs) using EPA Method 8100, and eight RCRA metals (arsenic, barium, cadmium, chromium, lead, selenium, silver, and mercury).

The results of the soil sample analyses showed arsenic detected in the soil sample collected from boring location B-11 at a concentration 2.0 milligrams per kilogram (mg/kg). Barium was detected in the samples collected from boring locations B-4, B-11 and B-12 at concentrations of 2.8, 69 and 50 mg/kg, respectively. Chromium was detected in the samples collected from boring locations B-4, B-11 and B-12 at concentrations of 2.8, 16 and 40 mg/kg, respectively. Lead was detected in the samples collected from boring locations B-4, B-11 and B-12 at concentrations of 2.4, 32 and 47 mg/kg, respectively. Based on the results of the laboratory analyses, purgeable hydrocarbons, purgeable halocarbons, or PAHs were not detected in any of the soil samples submitted for analysis. The laboratory report is included as Appendix A.

Although there is currently not a State regulatory standard for metals in soil, the State has developed soil cleanup guidance criteria, based on the United States Environmental Protection Agency's (USEPA's) established soil toxicity criteria for direct exposure to contaminants.

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According to the Integrated Risk Information System (IRIS), the toxicity criteria for arsenic has been established at 0.8 mg/kg for a residential scenario and 3.7 mg/kg for an industrial scenario. Based on these guidance concentrations, the arsenic concentration (2.0 mg/kg) detected in the soil sample collected from boring B-11 at 0.5 to 1.0 feet bgs exceeds the residential guidance criteria of 0.8 mg/kg. It should be noted, this soil sample was collected from an area with metal shavings and surface staining from oils. This area was also located adjacent to a covered work area used to perform the maintenance activities (i.e. machining and painting) on various truck parts. None of the remaining metals detected were at concentrations which exceeded either the residential or industrial scenario soil cleanup guidance criteria.

#### Temporary Monitoring Well Installation

On April 11, 1997, six temporary ground water monitoring wells (TMW-1 through TMW-6) were installed on the subject property at the locations shown on Plate 3. The rationale for the placement of the temporary monitoring wells were to evaluate the ground water quality beneath the areas which have been previously backfilled by construction debris and sectioned off by a clay barrier wall (TMW-1 and TMW-2), and to evaluate the quality of the ground water migrating offsite (TMW-3 through TMW-6), based on the expected direction of ground water flow. The temporary monitoring wells were installed to depths ranging from approximately 19½ to 37 feet bgs using a truck mounted drilling rig equipped with a hollow stem auger. The specific depth to which the monitoring wells were installed was based on the depth to ground water observed at each well location. Each well was constructed of flush-threaded, two-inch diameter Schedule 40 PVC attached to a 10-foot screened section with 0.010 inch slots. The annular space around each well was filled with 20/30 gradation silica sand to approximately 5 feet above the top of the screened section, followed by a one foot layer of 30/65 gradation silica sand. The remainder of each borehole annulus was then filled to ground surface with portland cement grout. Following installation, each temporary well was developed by pumping to remove fine-grained sediments. Ground water removed during development was discharged directly to the ground around the well being pumped. Following the subsequent collection of ground water samples (discussed in Section 4.0 below), the temporary monitoring wells were abandoned by filling each well screen and casing with portland cement grout from bottom to top using the tremie method. Boring/Well Completion Logs for each temporary well are provided in Appendix B.

#### Ground Water Sampling and Analysis

On April 17, 1997, ground water samples were collected from the six temporary monitoring wells using the procedures outlined in AT&E's CompQAP. The ground water samples were submitted to VOC for analysis of volatile organics using EPA Method 8260, semivolatile organics using EPA Method 8270, arsenic, barium, cadmium, chromium, lead, selenium and silver using EPA Method 6010A, and mercury using EPA Method 245.2. Filtered ground water samples were collected for metals analysis, and were held by the laboratory pending the results of the unfiltered samples. In addition to the ground water samples, one Quality Control sample (an equipment blank) was submitted for laboratory analysis. The equipment blank

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sample was analyzed for all of the above mentioned parameters using the same EPA Methods stated above.

The results of the ground water sample analyses showed an arsenic concentration in the ground water sample collected from temporary monitoring well TMW-2 at 0.028 milligrams per liter (mg/l). Barium was detected in the samples collected from temporary monitoring wells TMW-1 and TMW-2 at concentrations of 0.22 and 0.41 mg/l, respectively. Chromium was detected in the samples collected from temporary monitoring wells TMW-1 and TMW-2 at concentrations of 0.029 and 0.040 mg/l, respectively. Lead was detected in the samples collected from temporary monitoring wells TMW-1 and TMW-2 at concentrations of 0.14 and 0.12 mg/l, respectively. Di-n-butylphthalate was detected in the samples collected from temporary monitoring wells TMW-1, TMW-2, TMW-3, TMW-4, TMW-5 and TMW-6 at concentrations of 34, 52, 22, 56, 84 and 16 micrograms per liter ( $\mu\text{g/l}$ ), respectively. Acetone and toluene were also detected in the ground water sample collected from temporary monitoring well TMW -1 at concentrations of 92 and 1.2  $\mu\text{g/l}$ , respectively. Volatile organics were not detected in the samples collected from temporary monitoring wells TMW-2 through TMW-6. A summary of the ground water quality data is presented in Table 2. The laboratory's report is included as Appendix C.

Based on the ground water results, none of the constituents detected by the laboratory analyses exceed any of the numerical standards established for Class GII ground water (Chapter 62-520, F.A.C.). In addition, the FDEP has developed a listing of "guidance concentrations", for internal use, for compounds without numerical standards. These concentrations are contained in the FDEP's Florida Ground Water Guidance Concentration booklet (June 1994). It should be noted that FDEP utilizes these guidance concentrations as screening tools and interim guidelines for ground water minimum criteria, subject to a site by site evaluation. None of the reported concentrations for the remaining compounds exceeded the guidance concentrations in the FDEP's Florida Ground Water Guidance Concentration booklet (June 1994). The MCLs and Guidance Concentrations for the constituents that were detected are listed in Table 2.

The presence of acetone in the sample collected from temporary monitoring well TMW-1 is believed to be related to the use of the pesticide-grade isopropanol which was used to decontaminate the ground water sampling equipment, as required in AT&E's CompQAP. Pesticide-grade isopropanol can contain acetone resulting from the decomposition of the isopropanol from exposure to sunlight and heat. The presence of di-n-butyl phthalate, a chemical used in the manufacturing of plastic products as well as a variety of other products, may be attributed to the decomposition of plastic materials present in the landfill.

#### Surface Water Sampling and Analysis

In conjunction with the above referenced ground water sampling event, surface water samples (SW-1 and SW-2) were collected from the two ponds located at the western edge of the existing pit, and at the northwest corner of the existing pit, as shown on Plate 3. The surface water samples were collected in accordance with the procedures described in AT&E's

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CompQAP. The collected surface water samples were submitted to VOC for analysis of volatile organics using EPA Method 8260, and semivolatile organics using EPA Method 8270.

Di-n-butylphthalate and butylbenzylphthalate were detected in the surface water sample collected at location SW-1 at concentrations of 66 and 21  $\mu\text{g/l}$ , respectively. None of the remaining semivolatile organics or volatile organics analyzed were detected in either of the two surface water samples. A summary of the surface water quality data is presented in Table 2. The laboratory's report is included as Appendix C.

As previously noted, di-n-butylphthalate is a chemical used in the manufacturing of plastics products, and the presence of this compound may be attributed to the decomposition of plastic materials present in the landfill. The butylbenzylphthalate is a chemical used in the production of polyvinyl chloride (PVC) and may also be a result of the decomposition of landfilled material.

### CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the soil and ground water quality investigation activities completed at the subject property, the following conclusions and recommendations can be made:

#### Conclusions

- ▶ The OVA/FID readings did not exhibit petroleum organic vapor concentrations greater than 50 ppm in any of the soil samples collected at the subject property. However, it should be noted that high filtered and unfiltered vapor concentration readings ( $> 1,000$  ppm) were measured in each of the soil samples collected during the installation of wells TMW-1 and TMW-2. These readings suggest that the soil in the vicinity of the landfill area is highly organic in nature resulting from the decomposition of the landfilled material. Based on the presence of organic debris (i.e. foliage) in the landfill, and the lack of detectable petroleum odors in the soil samples, the source of the volatile organic vapors is believed to be the decomposition of organic debris. In addition, the OVA/FID readings of the soil samples collected from the vicinity of the maintenance and aboveground storage tank areas, did not indicate that a petroleum discharge has occurred in these areas.
- ▶ The results of the soil samples collected for laboratory analysis detected low concentrations of metals (arsenic, barium, chromium and lead). With the exception of arsenic, which was detected in soil boring B-11 at a concentration of 2.0 mg/kg located in the vicinity of work shop area adjacent to the maintenance building, none of the detected metals were reported to exceed the Florida Soil Cleanup Goals for residential or industrial sites. It is possible that the low level of arsenic detected in the vicinity of the shop area can be attributed to the various maintenance activities performed on the equipment parts in this area.
- ▶ Low concentrations of arsenic, chromium, barium, and lead in the ground water samples collected from wells TMW-1 and TMW-2, located within the landfill area. Low

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concentrations of acetone and toluene were also detected in the sample collected from well TMW-1. In addition, low concentrations of di-n-butylphthalate were detected in the ground water samples collected from all six well locations. None of the constituents detected by the laboratory exceed the numerical standards established for Class GII ground water or the guidance concentrations contained in the FDEP's Florida Ground Water Guidance Concentrations (June 1994). The detection of acetone at a low concentration is likely a result of the decomposition of isopropanol alcohol used in equipment decontamination procedures, and is therefore not believed to be representative of the ground water quality at the TMW-1 well location. The presence of di-n-butyl phthalate, a chemical used in the manufacturing of plastic products as well as a variety of other products, may be attributed to the decomposition of plastic materials present in the landfill.

- ▶ The surface water sample laboratory analyses reported low concentrations of the di-n-butylphthalate and butylbenzylphthalate in the sample SW-1 collected from the active sump pond. Since the sump is actively removing ground water to maintain the water level below the bottom of the currently excavated area and the constituents detected in the surface water sample (SW-1) are consistent with those detected in the ground water samples, the presence phthalates in the SW-1 sample may also be attributed to the decomposition of plastic materials present in the landfill.

### Recommendations

Based on the results of the soil and ground water investigation activities, there does not appear to be wide-spread soil or ground water contamination at the subject property. Therefore AT&E does not recommend that additional soil or ground water investigation activities be performed at the subject property. However due the anticipated development activities which are proposed for the subject property if purchased by the County, AT&E does recommend that the County consider retaining a qualified firm to oversee the site development activities including the demolition and grading of the maintenance area and monitoring of the material used to fill the landfill to final grade.

\* \* \* \*



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June 2, 1997  
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Thank you for the opportunity to be of service to Pinellas County on this project. If you have any questions or require additional information, please call.

Yours very truly,  
**ATLANTA TESTING & ENGINEERING, INC.**

*Thomas L. Shaw*

Thomas L. Shaw  
Environmental Scientist

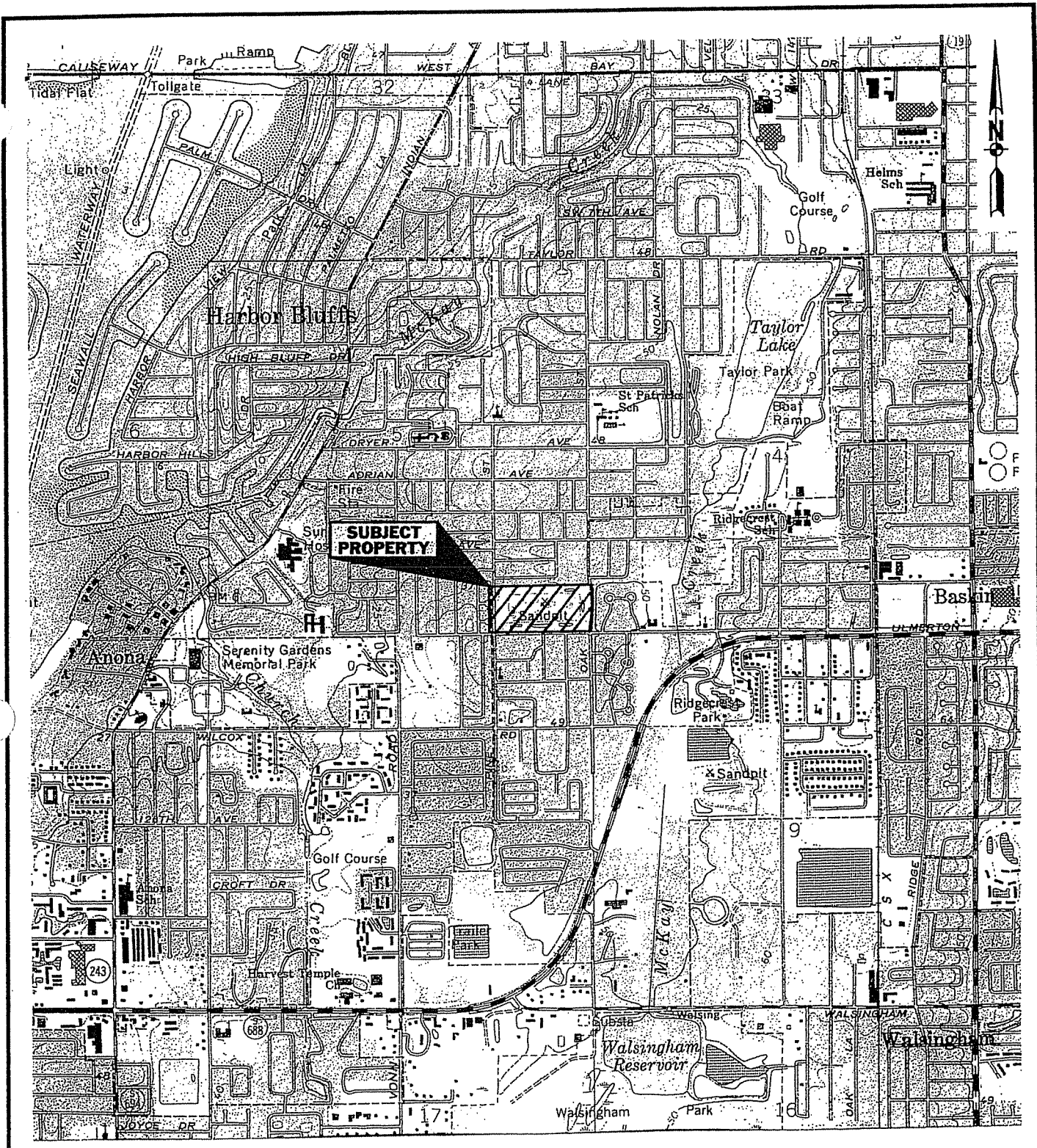
*Michael L. Schackne*

Michael L. Schackne, P.G.  
Senior Hydrogeologist

ksh

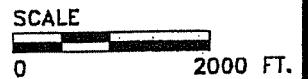
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PLATES



SOURCE: USGS 7.5 MINUTE QUADRANGLE  
CLEARWATER 1987

T30S, R15E



PINELLAS COUNTY COMMUNITY DEVELOPMENT

DATE  
05/20/97

JOB NO.  
27-2669

PLATE NO.  
1



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SITE LOCATION MAP

TERRA EXCAVATION, INC. PROPERTY  
LARGO, FLORIDA



RESIDENTIAL

APPROXIMATE  
PROPERTY BOUNDARY

CLAY WALL

POND

SUMP POND  
W/PUMP

EXISTING  
PIT AREA

MAINT.  
AREA

OFFICE

TERRA EXCAVATING, INC. PROPERTY

JACKSON STREET

PINE STREET

PINE STREET

DANSVILLE REDEVELOPMENT SITE

SCALE



PINELLAS COUNTY COMMUNITY DEVELOPMENT

DATE  
04/21/97

JOB NO.  
27-2669

PLATE NO.  
2



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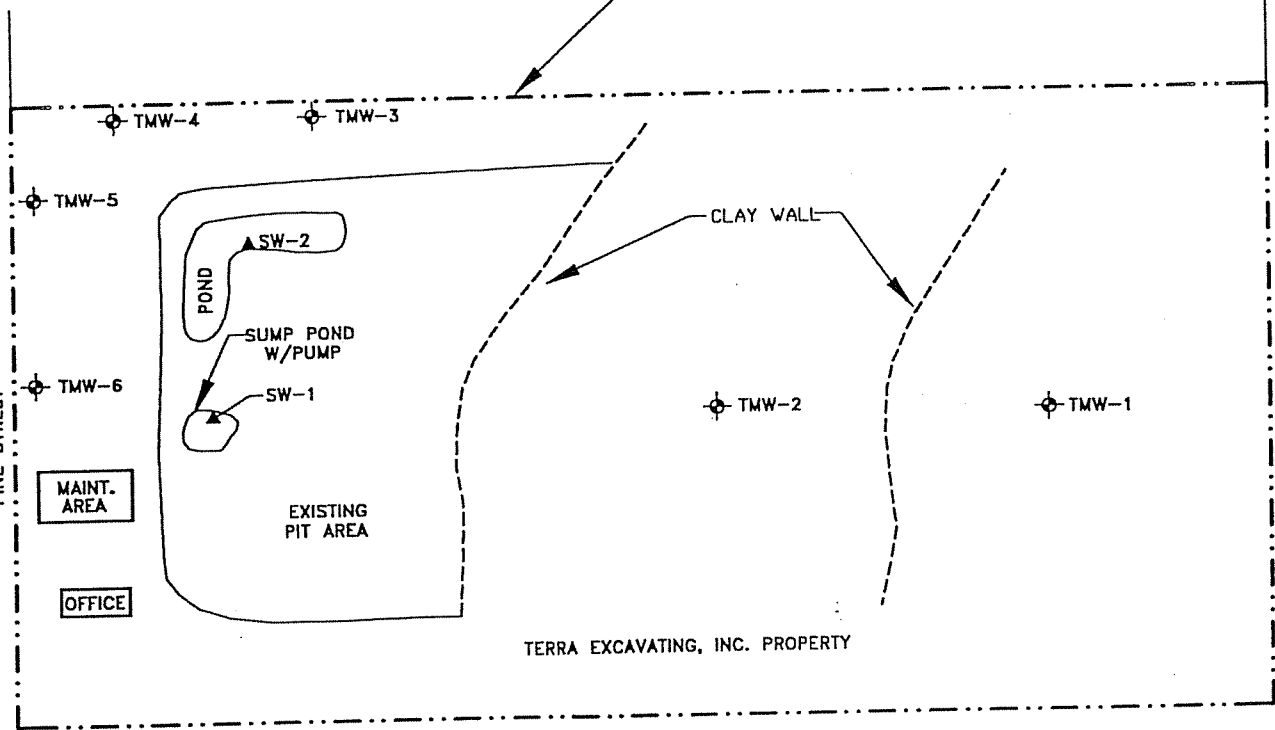
SITE LAYOUT

TERRA EXCAVATING, INC. PROPERTY  
LARGO, FLORIDA



RESIDENTIAL

APPROXIMATE PROPERTY BOUNDARY

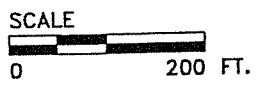


MAINT. AREA

OFFICE


TERRA EXCAVATING, INC. PROPERTY

DANSVILLE REDEVELOPMENT SITE



**LEGEND**

- ⊕ TEMPORARY MONITORING WELL LOCATION
- ▲ SURFACE WATER SAMPLE LOCATION

PINELLAS COUNTY COMMUNITY DEVELOPMENT		DATE 04/21/97	JOB NO. 27-2669	PLATE NO. 3
	atlanta testing & engineering 1211 TECH BLVD., TAMPA, FLORIDA 33619 Florida • Georgia • Carolinas		TEMPORARY MONITOR WELL AND SURFACE WATER SAMPLE LOCATION MAP	
				TERRA EXCAVATION, INC. PROPERTY LARGO, FLORIDA

04/22/97/AV/AVT (CP)

PINE STREET

GRASS

TRUCK PARKING AREA (UNPAVED)

CONCRETE SLAB

B-1

B-2

B-3

B-4

B-5

CONCRETE SLAB

CONCRETE BLOCK CONTAINMENT AREA SURROUNDING FUEL TANK TRUCK

ABOVE-GROUND WASTE OIL TANK

TRUCK PARKING AREA (UNPAVED)

PIT AREA

STORAGE SHEDS

B-9

B-10

CONCRETE OIL CHANGE PIT

B-11

B-12

COVERED WORK AREA

OPEN DOORWAY

MAINTENANCE BUILDING

B-8

B-7

CONCRETE SLAB

OVERHEAD DOOR

OVERHEAD DOOR

PARKING AREA

FENCE



**LEGEND**

B-4 ● SOIL BORING LOCATION AND IDENTIFICATION

SCALE



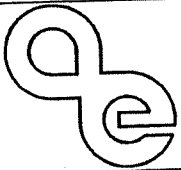
PINELLAS COUNTY COMMUNITY DEVELOPMENT

DATE 04/21/97

JOB NO. 27-2669

PLATE NO. 4

DATE PLOTTED: 04/21/97 (CAP)



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SOIL BORING LOCATION MAP

TERRA EXCAVATING, INC. PROPERTY  
LARGO, FLORIDA

**TABLES**

TABLE 1  
 ORGANIC VAPOR SCREENING RESULTS  
 TERRA EXCAVATION, INC. PROPERTY  
 FOR PINELLAS COUNTY COMMUNITY DEVELOPMENT DEPT.

Boring No.	Sampled Depth/Int. (FT. BGS)	Total Headspace Organic Vapor Concentration PPM	Methane/Ethane Concentration PPM	Total Organic Vapor Conc. Minus Methane/Ethane Conc. PPM
TMW-1	2.0 - 2.5	0	0	0
TMW-1	7.0 - 7.5	>1,000	>1,000	unknown
TMW-1	12.0 - 12.5	>1,000	>1,000	unknown
TMW-1	17.0 - 17.5	>1,000	>1,000	unknown
TMW-1	22.0 - 22.5	>1,000	>1,000	unknown
TMW-2	2.0 - 2.5	0	0	0
TMW-2	7.0 - 7.5	0	0	0
TMW-2	12.0 - 12.5	>1,000	>1,000	unknown
TMW-2	17.0 - 17.5	>1,000	>1,000	unknown
TMW-2	22.0 - 22.5	>1,000	>1,000	unknown
TMW-2	27.0 - 27.5	>1,000	>1,000	unknown
TMW-3	2.0 - 2.5	0	0	0
TMW-3	7.0 - 7.5	0	0	0
TMW-3	12.0 - 12.5	0	0	0
TMW-4	2.0 - 2.5	0	0	0
TMW-4	7.0 - 7.5	0	0	0
TMW-5	2.0 - 2.5	0	0	0
TMW-5	7.0 - 7.5	0	0	0
TMW-5	12.0 - 12.5	0	0	0
TMW-6	2.0 - 2.5	0	0	0
TMW-6	7.0 - 7.5	0	0	0
TMW-6	12.0 - 12.5	0	0	0
B-1	0.5 - 1.0	0	0	0
B-1	2.5 - 3.0	0	0	0
B-1	4.5 - 5.0	0	0	0
B-1	6.5 - 7.0	0	0	0
B-1	8.5 - 9.0	0	0	0
B-2	0.5 - 1.0	0	0	0
B-2	2.5 - 3.0	1	1	0
B-2	4.5 - 5.0	0	0	0
B-2	6.5 - 7.0	0	0	0
B-2	8.5 - 9.0	0	0	0
B-3	0.5 - 1.0	1	1	0
B-3	2.5 - 3.0	0	0	0
B-3	4.5 - 5.0	0	0	0
B-3	6.5 - 7.0	0	0	0
B-3	8.5 - 9.0	0	0	0
B-4	0.5 - 1.0	2	0	2
B-4	2.5 - 3.0	5	0	5
B-4	4.5 - 5.0	5	0	5

Notes:  
 PPM = Parts Per Million  
 Ft. BGS = Feet Below Ground Surface  
 NM = Not Measured



TABLE 1  
 ORGANIC VAPOR SCREENING RESULTS  
 TERRA EXCAVATION, INC. PROPERTY  
 FOR PINELLAS COUNTY COMMUNITY DEVELOPMENT DEPT.

Boring No.	Sampled Depth/Int. (FT. BGS)	Total Headspace Organic Vapor Concentration PPM	Methane/Ethane Concentration PPM	Total Organic Vapor Conc. Minus Methane/Ethane Conc. PPM
B-4	6.5 - 7.0	7	0	7
B-4	8.5 - 9.0	2	0	2
B-5	0.5 - 1.0	0	0	0
B-5	2.5 - 3.0	0	0	0
B-5	4.5 - 5.0	0	0	0
B-5	6.5 - 7.0	0	0	0
B-5	8.5 - 9.0	0	0	0
B-6	0.5 - 1.0	0	0	0
B-6	2.5 - 3.0	0	0	0
B-6	4.5 - 5.0	0	0	0
B-6	6.5 - 7.0	0	0	0
B-6	8.5 - 9.0	0	0	0
B-7	0.5 - 1.0	0	0	0
B-7	2.5 - 3.0	0	0	0
B-7	4.5 - 5.0	0	0	0
B-7	6.5 - 7.0	0	0	0
B-7	8.5 - 9.0	0	0	0
B-8	0.5 - 1.0	0	0	0
B-8	2.5 - 3.0	0	0	0
B-8	4.5 - 5.0	0	0	0
B-8	6.5 - 7.0	0	0	0
B-8	8.5 - 9.0	0	0	0
B-9	0.5 - 1.0	0	0	0
B-9	2.5 - 3.0	0	0	0
B-9	4.5 - 5.0	0	0	0
B-9	6.5 - 7.0	0	0	0
B-9	8.5 - 9.0	0	0	0
B-10	0.5 - 1.0	0	0	0
B-10	2.5 - 3.0	0	0	0
B-10	4.5 - 5.0	0	0	0
B-10	6.5 - 7.0	0	0	0
B-10	8.5 - 9.0	0	0	0
B-11	0.5 - 1.0	1	0	1
B-11	2.5 - 3.0	0	0	0
B-11	4.5 - 5.0	1	0	1
B-11	6.5 - 7.0	0	0	0
B-11	8.5 - 9.0	0	0	0
B-12	0.5 - 1.0	4	1	3
B-12	2.5 - 3.0	0	0	0
B-12	4.5 - 5.0	0	0	0
B-12	6.5 - 7.0	0	0	0
B-12	8.5 - 9.0	0	0	0

Notes:  
 PPM = Parts Per Million  
 Ft. BGS = Feet Below Ground Surface  
 NM = Not Measured

TABLE 2  
GROUND WATER AND SURFACE WATER QUALITY DATA SUMMARY  
TERRA EXCAVATING, INC.  
LARGO, FLORIDA

CHEMICAL COMPOUND	UNITS	MCL	METHOD DETECTION LIMIT	TMW-1	TMW-2	TMW-3	TMW-4	TMW-5	TMW-6	SW-1	SW-2	
				BDL	0.028	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic	mg/l	0.05	0.01	BDL	0.028	BDL	BDL	BDL	BDL	BDL	NS	NS
Barium	mg/l	2.0	0.01	0.22	0.41	BDL	BDL	BDL	BDL	BDL	NS	NS
Chromium	mg/l	0.10	0.005	0.029	0.04	BDL	BDL	BDL	BDL	BDL	NS	NS
Lead	mg/l	0.015	0.005	0.14	0.12	BDL	BDL	BDL	BDL	BDL	NS	NS
Di-n-butylphthalate	µg/l	700*	10	34	52	22	56	84	16	66	66	BDL
Butylbenzylphthalate	µg/l	1,400*	10	BDL	BDL	BDL	BDL	BDL	BDL	21	21	BDL
Acetone	µg/l	700	50	92	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toluene	µg/l	40	1.0	1.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Notes:  
mg/l = milligrams per liter  
µg/l = micrograms per liter  
MCL = Maximum Contaminant Level  
\* = Systemic Toxicant, Ground Water Guidance Concentrations, June 1994  
BDL = Below Detection Limits  
NS = Not Sampled

**APPENDIX A**  
**SOIL SAMPLE ANALYTICAL RESULTS**

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 1 of 3  
 Date: 04/29/97  
 Log #: L18204-3

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:

Soil Analysis  
 Terra/27-2669

Label: B-4(4.5-5.0)  
 Date Sampled: 04/18/97  
 Time Sampled: 16:20  
 Date Received: 04/21/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analy
<b>Polynuclear Aromatic Hydrocarbons</b>							
Naphthalene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
2-Methylnaphthalene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
1-Methylnaphthalene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Acenaphthylene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Acenaphthene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Fluorene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Phenanthrene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Anthracene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Fluoranthene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Pyrene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Benzo(a)anthracene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Chrysene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Benzo(b)fluoranthene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Benzo(k)fluoranthene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Benzo(a)pyrene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Dibenzo(a,h)Anthracene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Indeno(1,2,3-c,d)pyrene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Benzo(g,h,i)perylene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Dilution Factor	1.0				04/23	04/27	SW
<b>Surrogate Recoveries:</b>							
Nitrobenzene-d5	56.0	%	3550/8270	23-120	04/23	04/27	SW
2-Fluorobiphenyl	55.0	%	3550/8270	30-115	04/23	04/27	SW
Terphenyl-d14	84.0	%	3550/8270	18-137	04/23	04/27	SW
<b>Percent Solids</b>							
Percent Solid	96	%	SM2540B	0.10	04/22	04/22	SMP
<b>Purgeable Hydrocarbons</b>							
Bromodichloromethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Bromoform	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 2 of 3  
 Date: 04/29/97  
 Log #: L18204-3

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:

Soil Analysis  
 Terra/27-2669

Label: B-4(4.5-5.0)  
 Date Sampled: 04/18/97  
 Time Sampled: 16:20  
 Date Received: 04/21/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analj
<b>Purgeable Hydrocarbons (continued)</b>							
Bromomethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Carbon Tetrachloride	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Chloroethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
2-Chloroethylvinyl Ether	BDL	mg/kg	5030/8260	0.050	04/25	04/25	SV
Chloroform	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Chloromethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Dibromochloromethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
1,2-Dichlorobenzene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
1,3-Dichlorobenzene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
1,4-Dichlorobenzene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Dichlorodifluoromethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Chlorobenzene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Vinyl Chloride	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
1,1-Dichloroethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
1,2-Dichloroethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
1,1-Dichloroethene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Cis-1,2-Dichloroethene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Trans-1,2-Dichloroethene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
1,2-Dichloropropane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Cis-1,3-Dichloropropene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Trans-1,3-Dichloropropene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Methylene Chloride	BDL	mg/kg	5030/8260	0.010	04/25	04/25	SV
1,1,2,2-Tetrachloroethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Tetrachloroethene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
1,1,1-Trichloroethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
1,1,2-Trichloroethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Trichloroethene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Trichlorofluoromethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Benzene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Toluene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
MTBE	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Ethylbenzene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Total Xylenes	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Total BTEX	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Dilution Factor	1.0		5030/8260		04/25	04/25	SV
<b>Surrogate Recoveries:</b>							
4-Bromofluorobenzene	56.0	%	5030/8260	65-131	04/25	04/25	SV
Dibromofluoromethane	75.0	%	5030/8260	58-146	04/25	04/25	SV
Toluene-D8	38.0	%	5030/8260	78-118	04/25	04/25	SV

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 3 of 3  
 Date: 04/29/97  
 Log #: L18204-3

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:

Soil Analysis  
 Terra/27-2669

Label: B-4(4.5-5.0)  
 Date Sampled: 04/18/97  
 Time Sampled: 16:20  
 Date Received: 04/21/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analy
Metals							
Arsenic	BDL	mg/kg	3050/6010A	1.0	04/24	04/24	JK
Barium	2.8	mg/kg	3050/6010A	1.0	04/24	04/24	JK
Cadmium	BDL	mg/kg	3050/6010A	1.0	04/24	04/24	JK
Chromium	2.8	mg/kg	3050/6010A	1.0	04/24	04/24	JK
Lead	2.4	mg/kg	3050/6010A	1.0	04/24	04/24	JK
Mercury	BDL	mg/kg	7471	0.10	04/29	04/29	VF
Selenium	BDL	mg/kg	3050/6010A	1.0	04/24	04/24	JK
Silver	BDL	mg/kg	3050/6010A	1.0	04/24	04/24	JK

BDL = Below Detection Limits

\* Compounds are Screened Only, with an estimated detection limit.

All analyses were performed using EPA, ASTM, USGS, or Standard Methods.

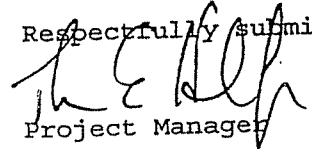
All analyses were performed within EPA holding times unless otherwise noted.

Analyses are reported in dry weight unless otherwise indicated by units.

QAP# 900376G  
 SUB HRS# 86122,86109,E86048  
 SC CERT# 96031  
 ELPAT# 13801  
 VA CERT# 00395

HRS# E86240,86356  
 ADEM ID# 40850  
 TN CERT# 02985  
 CA CERT# I-1068  
 AZ CERT# AZ0529

NC CERT# 444  
 ND CERT# R-148  
 CT CERT# PH-0122  
 USACE CERT  
 MA CERT# M-FL449

Respectfully submitted,  
  
 Project Manager  
 L18204-3

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 1 of 3  
 Date: 04/29/97  
 Log #: L18204-2

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:

Soil Analysis  
 Terra/27-2669

Label: B-11(0.5-1.0)  
 Date Sampled: 04/18/97  
 Time Sampled: 15:50  
 Date Received: 04/21/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analy
<b>Polynuclear Aromatic Hydrocarbons</b>							
Naphthalene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
2-Methylnaphthalene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
1-Methylnaphthalene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Acenaphthylene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Acenaphthene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Fluorene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Phenanthrene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Anthracene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Fluoranthene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Pyrene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Benzo(a)anthracene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Chrysene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Benzo(b)fluoranthene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Benzo(k)fluoranthene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Benzo(a)pyrene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Dibenzo(a,h)Anthracene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Indeno(1,2,3-c,d)pyrene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Benzo(g,h,i)perylene	BDL	mg/kg	3550/8270	0.10	04/23	04/27	SW
Dilution Factor	1.0		3550/8270		04/23	04/27	SW
<b>Surrogate Recoveries:</b>							
Nitrobenzene-d5	61.0	%	3550/8270	23-120	04/23	04/27	SW
2-Fluorobiphenyl	54.0	%	3550/8270	30-115	04/23	04/27	SW
Terphenyl-d14	87.0	%	3550/8270	18-137	04/23	04/27	SW
<b>Percent Solids</b>							
Percent Solid	90	%	SM2540B	0.10	04/22	04/22	SMP
<b>Purgeable Hydrocarbons</b>							
Bromodichloromethane	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Bromoform	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 2 of 3  
 Date: 04/29/97  
 Log #: L18204-2

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:

Soil Analysis  
 Terra/27-2669

Label: B-11(0.5-1.0)  
 Date Sampled: 04/18/97  
 Time Sampled: 15:50  
 Date Received: 04/21/97  
 Collected By: Client

Parameter	Results	Units	Mechod	Reportable Limit	Extr. Date	Analysis Date	Analy
<b>Purgeable Hydrocarbons (continued)</b>							
Bromomethane	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Carbon Tetrachloride	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Chloroethane	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
2-Chloroethylvinyl Ether	BDL	mg/kg	5030/8260	0.050	04/26	04/26	SV
Chloroform	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Chloromethane	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Dibromochloromethane	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
1,2-Dichlorobenzene	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
1,3-Dichlorobenzene	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
1,4-Dichlorobenzene	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Dichlorodifluoromethane	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Chlorobenzene	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Vinyl Chloride	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
1,1-Dichloroethane	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
1,2-Dichloroethane	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
1,1-Dichloroethene	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Cis-1,2-Dichloroethene	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Trans-1,2-Dichloroethene	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
1,2-Dichloropropane	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Cis-1,3-Dichloropropene	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Trans-1,3-Dichloropropene	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Methylene Chloride	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
1,1,2,2-Tetrachloroethane	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Tetrachloroethene	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
1,1,1-Trichloroethane	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
1,1,2-Trichloroethane	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Trichloroethene	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Trichlorofluoromethane	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Benzene	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Toluene	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
MTBE	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Ethylbenzene	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Total Xylenes	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Total BTEX	BDL	mg/kg	5030/8260	0.0050	04/26	04/26	SV
Dilution Factor	1.0						
<b>Surrogate Recoveries:</b>							
4-Bromofluorobenzene	55.0	%	5030/8260	65-131	04/26	04/26	SV
Dibromofluoromethane	81.0	%	5030/8260	58-146	04/26	04/26	SV
Toluene-D8	55.0	%	5030/8260	78-118	04/26	04/26	SV



Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 3 of 3  
 Date: 04/29/97  
 Log #: L18204-2

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:

Soil Analysis  
 Terra/27-2669

Label: B-11(0.5-1.0)  
 Date Sampled: 04/18/97  
 Time Sampled: 15:50  
 Date Received: 04/21/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analys
<b>Metals</b>							
Arsenic	2.0	mg/kg	3050/6010A	1.0	04/24	04/24	JK
Barium	69	mg/kg	3050/6010A	1.0	04/24	04/24	JK
Cadmium	BDL	mg/kg	3050/6010A	1.0	04/24	04/24	JK
Chromium	16	mg/kg	3050/6010A	1.0	04/24	04/24	JK
Lead	32	mg/kg	3050/6010A	1.0	04/24	04/24	JK
Mercury	BDL	mg/kg	7471	0.10	04/29	04/29	VF
Selenium	BDL	mg/kg	3050/6010A	1.0	04/24	04/24	JK
Silver	BDL	mg/kg	3050/6010A	1.0	04/24	04/24	JK

BDL = Below Detection Limits

\* Compounds are Screened Only, with an estimated detection limit.

All analyses were performed using EPA, ASTM, USGS, or Standard Methods.

All analyses were performed within EPA holding times unless otherwise noted.

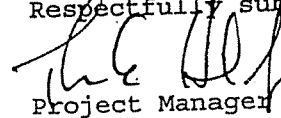
Analyses are reported in dry weight unless otherwise indicated by units.

QAP# 900376G  
 SUB HRS# 86122,86109,E86048  
 SC CERT# 96031  
 ELPAT# 13801  
 VA CERT# 00395

HRS# E86240,86356  
 ADEM ID# 40850  
 TN CERT# 02985  
 CA CERT# I-1068  
 AZ CERT# AZ0529

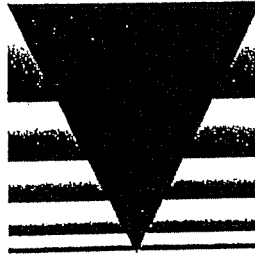
NC CERT# 444  
 ND CERT# R-148  
 CT CERT# PH-0122  
 USACE CERT  
 MA CERT# M-FL449

Respectfully submitted,



Project Manager

L18204-2



Our Quality Control Is Your Quality Assurance

Client #: TAM-94-120302  
Address: Atlanta Testing & Eng. TAM

Page: Page 1 of 3  
Date: 04/29/97  
Log #: L18204-1

1211 Tech Blvd., Ste 200  
Tampa, FL 33619  
Attn: Mike Schackne

Sample Description:

Soil Analysis  
Terra/27-2669

Label: B-12(0.5-1.0)  
Date Sampled: 04/18/97  
Time Sampled: 15:30  
Date Received: 04/21/97  
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analy
<b>Polynuclear Aromatic Hydrocarbons</b>							
Naphthalene	BDL	mg/kg	3550/8270	1.0	04/23	04/27	SW
2-Methylnaphthalene	BDL	mg/kg	3550/8270	1.0	04/23	04/27	SW
1-Methylnaphthalene	BDL	mg/kg	3550/8270	1.0	04/23	04/27	SW
Acenaphthylene	BDL	mg/kg	3550/8270	1.0	04/23	04/27	SW
Acenaphthene	BDL	mg/kg	3550/8270	1.0	04/23	04/27	SW
Fluorene	BDL	mg/kg	3550/8270	1.0	04/23	04/27	SW
Phenanthrene	BDL	mg/kg	3550/8270	1.0	04/23	04/27	SW
Anthracene	BDL	mg/kg	3550/8270	1.0	04/23	04/27	SW
Fluoranthene	BDL	mg/kg	3550/8270	1.0	04/23	04/27	SW
Pyrene	BDL	mg/kg	3550/8270	1.0	04/23	04/27	SW
Benzo (a) anthracene	BDL	mg/kg	3550/8270	1.0	04/23	04/27	SW
Chrysene	BDL	mg/kg	3550/8270	1.0	04/23	04/27	SW
Benzo (b) fluoranthene	BDL	mg/kg	3550/8270	1.0	04/23	04/27	SW
Benzo (k) fluoranthene	BDL	mg/kg	3550/8270	1.0	04/23	04/27	SW
Benzo (a) pyrene	BDL	mg/kg	3550/8270	1.0	04/23	04/27	SW
Dibenzo (a, h) Anthracene	BDL	mg/kg	3550/8270	1.0	04/23	04/27	SW
Indeno (1, 2, 3-c, d) pyrene	BDL	mg/kg	3550/8270	1.0	04/23	04/27	SW
Benzo (g, h, i) perylene	BDL	mg/kg	3550/8270	1.0	04/23	04/27	SW
Dilution Factor	10		3550/8270		04/23	04/27	
<b>Surrogate Recoveries:</b>							
Nitrobenzene-d5	n/a	%	3550/8270	23-120	04/23	04/27	SW
2-Fluorobiphenyl	n/a	%	3550/8270	30-115	04/23	04/27	SW
Terphenyl-d14	n/a	%	3550/8270	18-137	04/23	04/27	SW
<b>Percent Solids</b>							
Percent Solid	88	%	SM2540B	0.10	04/22	04/22	SMP
<b>Purgeable Hydrocarbons</b>							
Bromodichloromethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Bromoform	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 2 of 3  
 Date: 04/29/97  
 Log #: L18204-1

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schäckne

Sample Description:

Soil Analysis  
 Terra/27-2669

Label: B-12(0.5-1.0)  
 Date Sampled: 04/18/97  
 Time Sampled: 15:30  
 Date Received: 04/21/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analy
<b>Purgeable Hydrocarbons (continued)</b>							
Bromomethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Carbon Tetrachloride	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Chloroethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
2-Chloroethylvinyl Ether	BDL	mg/kg	5030/8260	0.050	04/25	04/25	SV
Chloroform	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Chloromethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Dibromochloromethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
1,2-Dichlorobenzene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
1,3-Dichlorobenzene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
1,4-Dichlorobenzene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Dichlorodifluoromethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Chlorobenzene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Vinyl Chloride	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
1,1-Dichloroethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
1,2-Dichloroethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
1,1-Dichloroethene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Cis-1,2-Dichloroethene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Trans-1,2-Dichloroethene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
1,2-Dichloropropane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Cis-1,3-Dichloropropene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Trans-1,3-Dichloropropene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Methylene Chloride	BDL	mg/kg	5030/8260	0.010	04/25	04/25	SV
1,1,2,2-Tetrachloroethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Tetrachloroethene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
1,1,1-Trichloroethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
1,1,2-Trichloroethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Trichloroethene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Trichlorofluoromethane	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Benzene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Toluene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
MTBE	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Ethylbenzene	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Total Xylenes	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Total BTEX	BDL	mg/kg	5030/8260	0.0050	04/25	04/25	SV
Dilution Factor	1.0		5030/8260		04/25	04/25	
<b>Surrogate Recoveries:</b>							
4-Bromofluorobenzene	32.0	%	5030/8260	65-131	04/25	04/25	SV
Dibromofluoromethane	67.0	%	5030/8260	58-146	04/25	04/25	SV
Toluene-D8	35.0	%	5030/8260	78-118	04/25	04/25	SV

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 3 of 3  
 Date: 04/29/97  
 Log #: L18204-1

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:

Soil Analysis  
 Terra/27-2669

Label: B-12 (0.5-1.0)  
 Date Sampled: 04/18/97  
 Time Sampled: 15:30  
 Date Received: 04/21/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analys
metals							
Arsenic	BDL	mg/kg	3050/6010A	1.0	04/24	04/24	JK
Barium	50	mg/kg	3050/6010A	1.0	04/24	04/24	JK
Cadmium	BDL	mg/kg	3050/6010A	1.0	04/24	04/24	JK
Chromium	40	mg/kg	3050/6010A	1.0	04/24	04/24	JK
Lead	47	mg/kg	3050/6010A	1.0	04/24	04/24	JK
Mercury	BDL	mg/kg	7471	0.10	04/29	04/29	VF
Selenium	BDL	mg/kg	3050/6010A	1.0	04/24	04/24	JK
Silver	BDL	mg/kg	3050/6010A	2.0	04/24	04/24	JK

DL = Below Detection Limits

Compounds are Screened Only, with an estimated detection limit.

11 analyses were performed using EPA, ASTM, USGS, or Standard Methods.

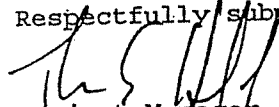
11 analyses were performed within EPA holding times unless otherwise noted.

analyses are reported in dry weight unless otherwise indicated by units.

AP# 900376G  
 UB HRS# 86122,86109,E86048  
 C CERT# 96031  
 LPAT# 13801  
 A CERT# 00395

HRS# E86240,86356  
 ADEM ID# 40850  
 TN CERT# 02985  
 CA CERT# I-1068  
 AZ CERT# AZ0529

NC CERT# 444  
 ND CERT# R-148  
 CT CERT# PH-0122  
 USACE CERT  
 MA CERT# M-FL449

Respectfully submitted,  
  
 Project Manager  
 L18204-1

BAR CODE

Login L #

Q1234

# V.O.C. Analytical Laboratories

Company Name AT

Address 1711 Tech Blvd.

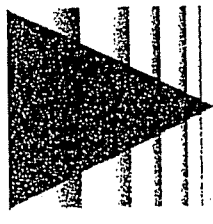
City Tampa State FL Zip 33619

Attn: Mike Schuckne Fax # 623-3795

Project Name / Number Terra / 27-2669

Sampler Name / Signature Thomas L. Shaw / Thomas L. Shaw

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix	Pres Codes **	Item	Retinquished by	Date	Time	Received by	Date	Time	LAB ANALYSIS		Comments
													Field Filtered (Y/N)	Integrity OK (Y/N)	
1	B-12 (0.5-1.0)	4-17-97	1530	Soil	4	8010/8020									Contract M. Schuckne for analysis deadline Due by 4/28/97
2	B-11 (0.5-1.0)	4-18-97	1550	Soil	4	8010/8020									
3	B-4 (4.5-5.0)	4-18-97	1620	Soil	4										
4															
5															
6															
7															
8															PO 27497
9															
0															



**Matrix Codes**

S	Soil	SW	Surface Water	SW	SW	SW	SW
GW	Ground Water	OL	Oil	OL	OL	OL	OL
EFF	Effluent	SL	Slicker	SL	SL	SL	SL
AFW	Analyte Free H <sub>2</sub> O	SO	Soil Sediment	SO	SO	SO	SO
WW	Waste Water	O	Other	O	O	O	O
DW	Drinking Water						

QA/QC Report Level

None 1 2 3 Other

T.A.T. Request RUSH

Standard 4/28/97 Date required 4/28/97

Custody Seals 4

**APPENDIX B**  
**BORING / WELL COMPLETION LOGS**

# Temporary Monitor Well No. TMW-1

PROJECT: Terra Excavation, Inc.  
 LOGGED BY: T. Shaw  
 DRILLER: Custom Drilling  
 DATE INSTALLED: April 11, 1997

DRILL METHOD: \* HSA  
 SAMPLE TYPE: Grab  
 HOLE DIA.: 8 in.  
 STATIC WL: 27.3 ft. BTOC

TOC ELEV.: N/A ft. NGVD  
 GROUND ELEV.: N/A ft. NGVD  
 STICK UP: 2.7 ft.  
 SURVEYOR: N/A

DESCRIPTION	USCS CLASS	GRAPHIC LOG	DEPTH	SAMPLE	BLOWS/FT.	WELL CONSTRUCTION DETAIL
SAND - pale brown, fine grained quartz, trace natural organic material (roots) As Above, grayish brown, trace silt	SP	[Dotted pattern]	0 1 2 3			
SAND - dusky yellowish brown, fine grained quartz, little silt, little organic fill material (wood, roots)  As Above, dark gray, little organic fill material and crushed concrete	SP SM	[Dotted pattern]	4 5 6 7 8 9 10 11 12 13 14 15 16			
SAND - grayish black, fine grained quartz, some silt little to some organic fill material and concrete  As Above, olive black	SM	[Vertical lines pattern]	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32			
Boring terminated at 33 feet below ground surface (bgs)			33 34 35 36 37 38 39 40			

Notes:  
 \* Denotes 8-Inch O.D. Hollow Stem Auger

Project No.  
 27-2889

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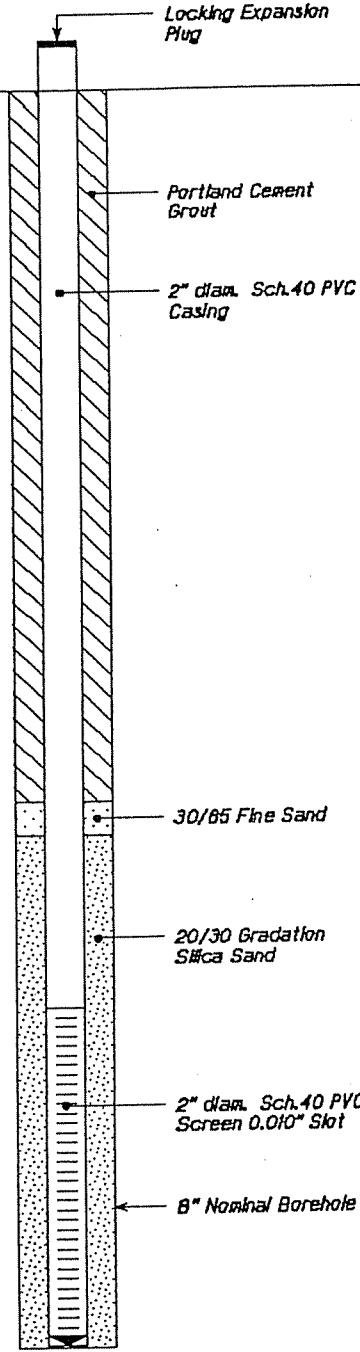

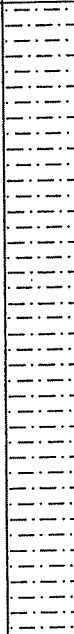


Page 1 of 7

# Temporary Monitor Well No. TMW-2

PROJECT: Terra Excavation, Inc.  
 LOGGED BY: T. Shaw  
 DRILLER: Custom Drilling  
 DATE INSTALLED: April 11, 1997

DRILL METHOD: \* HSA  
 SAMPLE TYPE: Grab  
 HOLE DIA.: 8 in.  
 STATIC WL: 32.5 ft. BTOC

TOC ELEV.: N/A ft. NGVD  
 GROUND ELEV.: N/A ft. NGVD  
 STICK UP: 2.8 ft.  
 SURVEYOR: N/A

DESCRIPTION	USCS CLASS	GRAPHIC LOG	DEPTH	SAMPLE	BLOWS/FT.	WELL CONSTRUCTION DETAIL
SAND - pale yellowish brown, fine grained quartz As Above, grayish brown, trace silt, little crushed concrete	SP		0 1 2 3 4 5 6			
Concrete			7			
SAND - brownish black, fine grained quartz, little silt, little to some crushed concrete, trace to little organic fill material (wood and roots)	SP SM		8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26			
As Above, little to some organic fill material, little to some silt	SM		27 28 29 30 31 32 33 34 35 36 37 38			
SAND - grayish black, fine grained quartz, some silt, little to some organic fill material, little crushed concrete			37 38			
Boring terminated at 38.5 feet below ground surface (bgs)			39 40			

Notes:  
 \* Denotes 8-inch O.D. Hollow Stem Auger

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Consultants in the earth sciences  
 Florida - Georgia - Carolinas

Project No.  
 27-2888

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# Temporary Monitor Well No. TMW-3

PROJECT: Terra Excavation, Inc.  
 LOGGED BY: T. Shaw  
 DRILLER: Custom Drilling  
 DATE INSTALLED: April 11, 1997

DRILL METHOD: \* HSA  
 SAMPLE TYPE: Grab  
 HOLE DIA.: 8 in.  
 STATIC WL: 20.1 ft. BTOC

TOG ELEV.: N/A ft. NGVD  
 GROUND ELEV.: N/A ft. NGVD  
 STICK UP: 2.5 ft.  
 SURVEYOR: N/A

DESCRIPTION	USCS CLASS	GRAPHIC LOG	DEPTH	SAMPLE	BLOWS/FT.	WELL CONSTRUCTION DETAIL
SAND - grayish brown, fine grained quartz, trace silt As Above, dark yellowish brown SAND - dark yellowish orange, fine grained quartz  As Above, pale yellowish gray	SP	[Stippled Pattern]	0 1 2 3 4 5 6 7 8 9			
SAND - moderate brown, fine grained quartz, little to some silt	SP SM	[Horizontal Line Pattern]	10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27			
Boring terminated at 27.5 feet below ground surface (bgs)			28 29 30 31 32 33 34 35 36 37 38 39 40			

Notes:  
 \* Denotes 8-Inch O.D. Hollow Stem Auger

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Project No:  
 27-2888

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# Temporary Monitor Well No. TMW-4

PROJECT: Terra Excavation, Inc.

LOGGED BY: T. Shaw

DRILLER: Custom Drilling

DATE INSTALLED: April 11, 1997

DRILL METHOD: \* HSA

SAMPLE TYPE: Grab

HOLE DIA.: 8 in.

STATIC WL: 14.6 ft. BTOC

TOC ELEV.: N/A ft. NGVD

GROUND ELEV.: N/A ft. NGVD

STICK UP: 2.8 ft.

SURVEYOR: N/A

DESCRIPTION	USCS CLASS	GRAPHIC LOG	DEPTH	SAMPLE	BLOWS/FT.	WELL CONSTRUCTION DETAIL
SAND - grayish brown, fine grained quartz, trace silt SAND - dark yellowish orange, fine grained quartz	SP		0			<p style="text-align: right;">Locking Expansion Plug</p> <p style="text-align: right;">Portland Cement Grout</p> <p style="text-align: right;">2" diam. Sch.40 PVC Casing</p> <p style="text-align: right;">30/85 Fine Sand</p> <p style="text-align: right;">20/30 Gradation Silica Sand</p> <p style="text-align: right;">2" diam. Sch.40 PVC Screen 0.010" Slot</p> <p style="text-align: right;">8" Nominal Borehole</p>
As Above, pale yellowish gray			1			
As Above, light brown, trace silt			2			
			3			
			4			
			5			
			6			
SAND - moderate brown, fine grained quartz, little to some silt	SP SM		7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			
Boring terminated at 20 feet below ground surface (bgs)			21			
			22			
			23			
			24			
			25			
			26			
			27			
			28			
			29			
			30			
			31			
			32			
			33			
			34			
			35			
			36			
			37			
			38			
			39			
			40			

Notes:  
\* Denotes 8-Inch O.D. Hollow Stem Auger

**Atlanta Testing & Engineering**  
Consultants in the earth sciences  
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Project No.  
27-2888  
Page 1 of 1

# Temporary Monitor Well No. TMW-5

PROJECT: Terra Excavation, Inc.

DRILL METHOD: \* HSA

TOC ELEV.: N/A ft. NGVD

LOGGED BY: T. Shaw

SAMPLE TYPE: Grab

GROUND ELEV.: N/A ft. NGVD

DRIILLER: Custom Drilling

HOLE DIA.: 8 in.

STICK UP: 2.6 ft.

DATE INSTALLED: April 11, 1997

STATIC WL: 15.3 ft. BTOC

SURVEYOR: N/A

DESCRIPTION	USCS CLASS	GRAPHIC LOG	DEPTH	SAMPLE	BLOWS/FT.	WELL CONSTRUCTION DETAIL	
SAND - pale brown, fine grained quartz As Above, pale yellowish brown	SP	[Dotted Pattern]	0 1 2 3 4 5 6 7 8 9 10				
SAND - light brown, grading to moderate brown, fine grained quartz, trace to little silt		[Dotted Pattern]	11 12 13 14 15 16 17 18 19 20				
SAND - brownish black, fine grained quartz, little to some silt	SP SM	[Dotted Pattern]	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40				
Boring terminated at 20 feet below ground surface (bgs)							

Notes:

\* Denotes 8-inch O.D. Hollow Stem Auger

**Atlanta Testing & Engineering**

Consultants in the earth sciences  
Florida - Georgia - Carolinas

Project No.  
27-2889

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# Temporary Monitor Well No. TMW-6

PROJECT: Terra Excavation, Inc.

DRILL METHOD: \* HSA

TOC ELEV.: N/A ft. NGVD

LOGGED BY: T. Shaw

SAMPLE TYPE: Grab

GROUND ELEV.: N/A ft. NGVD

DRILLER: Custom Drilling

HOLE DIA.: 8 in.

STICK UP: 0.6 ft.

DATE INSTALLED: April 11, 1997

STATIC WL: 18.0 ft. BTOC

SURVEYOR: N/A

DESCRIPTION	USCS CLASS	GRAPHIC LOG	DEPTH	SAMPLE	BLOWS/FT.	WELL CONSTRUCTION DETAIL
			0			
SAND - pale brown to pale yellowish brown, fine grained quartz	SP	•••••	1			
		•••••	2			
		•••••	3			
		•••••	4			
		•••••	5			
		•••••	6			
SAND - light brown to moderate brown, fine grained quartz, trace to little silt		•••••	7			
		•••••	8			
		•••••	9			
		•••••	10			
		•••••	11			
		•••••	12			
SAND - brownish black, fine grained quartz, little to some silt	SP SM	•••••	13			
		•••••	14			
		•••••	15			
		•••••	16			
		•••••	17			
		•••••	18			
		•••••	19			
		•••••	20			
		•••••	21			
		•••••	22			
		•••••	23			
Boring terminated at 23.5 feet below ground surface (bgs)		•••••	24			
		•••••	25			
		•••••	26			
		•••••	27			
		•••••	28			
		•••••	29			
		•••••	30			
		•••••	31			
		•••••	32			
		•••••	33			
		•••••	34			
		•••••	35			
		•••••	36			
		•••••	37			
		•••••	38			
		•••••	39			
		•••••	40			

Notes:  
\* Denotes 8-Inch O.D. Hollow Stem Auger

**Atlanta Testing & Engineering**  
Consultants in the earth sciences  
Florida - Georgia - Carolinas

Project No.  
27-2888  
  
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**APPENDIX C**  
**GROUND WATER AND SURFACE WATER**  
**ANALYTICAL RESULTS**

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 1 of 5  
 Date: 04/29/97  
 Log #: L18137-5

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:  
 Groundwater Analysis  
 Terra

Label: TMW-1  
 Date Sampled: 04/17/97  
 Time Sampled: 19:25  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analyst
<b>Metals</b>							
Arsenic	BDL	mg/l	3010/6010A	0.010	04/22	04/22	JK
Barium	0.22	mg/l	3010/6010A	0.010	04/22	04/22	JK
Cadmium	BDL	mg/l	3010/6010A	0.0050	04/22	04/22	JK
Chromium	0.029	mg/l	3010/6010A	0.0050	04/22	04/22	JK
Lead	0.14	mg/l	3010/6010A	0.0050	04/22	04/22	VF
Mercury	BDL	mg/l	245.2	0.0010	04/25	04/25	JK
Selenium	BDL	mg/l	3010/6010A	0.010	04/22	04/22	JK
Silver	BDL	mg/l	3010/6010A	0.010	04/22	04/22	JK
<b>Semi-volatile Organic Compounds</b>							
Hexachloroethane	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Pyridine	BDL	ug/l	3510/8270	20	04/21	04/25	GM
N-Nitrosodimethylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Nitrobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Aniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Isophorone	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Nitrophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Phenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dimethyl Phenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroethyl) Ether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Chlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroethoxy) Methane	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,3-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzoic Acid	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,4-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
N-Nitrosodiethylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzyl alcohol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2,4-Trichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM



Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 3 of 5  
 Date: 04/29/97  
 Log #: L18137-5

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
 Terra

Label: TMW-1  
 Date Sampled: 04/17/97  
 Time Sampled: 19:25  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analyst
<b>Semi-volatile Organic Compounds (continued)</b>							
Butylbenzylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (a) anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3,3'-Dichlorobenzidine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Chrysene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2-Diphenylhydrazine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis (2-Ethylhexyl) Phthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Di-n-octyl phthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (b) fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (k) fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (a) pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Indeno (1,2,3-c,d) pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dibenzo (a,h) Anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (g,h,i) perylene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dilution Factor	1.0		3510/8270		04/21	04/25	GM
<b>Surrogate Recoveries:</b>							
2-Fluorophenol	21.0	%	3510/8270	21-100	04/21	04/25	GM
Phenol-d5	18.0	%	3510/8270	10-94	04/21	04/25	GM
Nitrobenzene-d5	30.0	%	3510/8270	35-114	04/21	04/25	GM
2-Fluorobiphenyl	38.0	%	3510/8270	43-111	04/21	04/25	GM
2,4,6-Tribromophenol	56.0	%	3510/8270	10-123	04/21	04/25	GM
Terphenyl-d14	57.0	%	3510/8270	33-141	04/21	04/25	GM
<b>Volatile Organic Compounds</b>							
Dichlorodifluoromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethanol	BDL	ug/l	5030/8260	1000	04/28	04/28	KS
Chloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Vinyl Chloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromomethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Chloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trichlorofluoromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acrolein	BDL	ug/l	5030/8260	5.0	04/28	04/28	KS
1,1-Dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acetone	92	ug/l	5030/8260	50	04/28	04/28	KS
Iodomethane	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Carbon Disulfide	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Methylene Chloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acrylonitrile	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Trans-1,2-dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1-Dichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Vinyl Acetate	BDL	ug/l	5030/8260	50	04/28	04/28	KS



Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 4 of 5  
 Date: 04/29/97  
 Log #: L18137-5

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
 Terra

Label: TMW-1  
 Date Sampled: 04/17/97  
 Time Sampled: 19:25  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analysis
<b>Volatile Organic Compounds (continued)</b>							
2-Butanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Chloroform	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1,1-Trichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Carbon Tetrachloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Benzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dichloropropane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Dibromomethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromodichloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
2-Chloroethylvinyl Ether	BDL	ug/l	5030/8260	10	04/28	04/28	KS
Cis-1,3-Dichloropropene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1-Methyl-2-pentanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Toluene	1.2	ug/l	5030/8260	1.0	04/28	04/28	KS
Trans-1,3-Dichloropropene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethyl Methacrylate	BDL	ug/l	5030/8260	50	04/28	04/28	KS
1,1,2-Trichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
2-Hexanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Dibromochloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Chlorobenzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethylbenzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Total Xylenes	BDL	ug/l	5030/8260	3.0	04/28	04/28	KS
Styrene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromoform	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Cis-1,4-dichloro-2-butene	BDL	ug/l	5030/8260	50	04/28	04/28	KS
1,1,2,2-Tetrachloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2,3-Trichloropropane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trans-1,4-dichloro-2-butene	BDL	ug/l	5030/8260	50	04/28	04/28	KS
MTBE	BDL	ug/l	5030/8260	50	04/28	04/28	KS
1,1,1,2-Tetrachloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Cis-1,2-Dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Tetrachloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dibromoethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Dilution Factor	1.0						
<b>Surrogate Recoveries:</b>							
p-Bromofluorobenzene	91.0	%	5030/8260	82-119	04/28	04/28	KS
m-Bromofluoromethane	136	%	5030/8260	75-112	04/28	04/28	KS
Toluene-D8	85.0	%	5030/8260	82-116	04/28	04/28	KS

General Chemistry

Client #: TAM-94-120302  
Address: Atlanta Testing & Eng. TAM

Page: Page 5 of 5  
Date: 04/29/97  
Log #: L18137-5

1211 Tech Blvd., Ste 200  
Tampa, FL 33619  
Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
Terra

Label: TMW-1  
Date Sampled: 04/17/97  
Time Sampled: 19:25  
Date Received: 04/18/97  
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analys
<b>General Chemistry (continued)</b>							
Turbidity	300	NTU	180.1	0.10	04/18	04/18	SC


BDL - Below Detection Limits

\* Compounds are Screened Only, with an estimated detection limit.  
All analyses were performed using EPA, ASTM, USGS, or Standard Methods.  
All analyses were performed within EPA holding times unless otherwise noted.  
Analyses are reported in dry weight unless otherwise indicated by units.

JAP# 900376G  
SUB HRS# 86122,86109,E86048  
SC CERT# 96031  
SLPAT# 13801  
JA CERT# 00395

HRS# E86240,86356  
ADEM ID# 40850  
TN CERT# 02985  
CA CERT# I-1068  
AZ CERT# AZ0529

NC CERT# 444  
ND CERT# R-148  
CT CERT# PH-0122  
USACE CERT  
MA CERT# M-FL449

Respectfully submitted,  
  
Project Manager  
L18137-5

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 1 of 5  
 Date: 04/29/97  
 Log #: L18137-4

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:  
 Groundwater Analysis  
 Terra

Label: TMW-2  
 Date Sampled: 04/17/97  
 Time Sampled: 18:40  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analyst
<b>Metals</b>							
Arsenic	0.028	mg/l	3010/6010A	0.010	04/22	04/22	JK
Barium	0.41	mg/l	3010/6010A	0.010	04/22	04/22	JK
Cadmium	BDL	mg/l	3010/6010A	0.0050	04/22	04/22	JK
Chromium	0.040	mg/l	3010/6010A	0.0050	04/22	04/22	JK
Lead	0.12	mg/l	3010/6010A	0.0050	04/22	04/22	JK
Mercury	BDL	mg/l	245.2	0.0010	04/25	04/25	VF
Selenium	BDL	mg/l	3010/6010A	0.010	04/22	04/22	JK
Silver	BDL	mg/l	3010/6010A	0.010	04/22	04/22	JK
<b>Semivolatile Organic Compounds</b>							
Hexachloroethane	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Pyridine	BDL	ug/l	3510/8270	20	04/21	04/25	GM
N-Nitrosodimethylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Nitrobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Aniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Isophorone	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Nitrophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Phenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dimethyl Phenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroethyl) Ether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Chlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroethoxy) Methane	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,3-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzoic Acid	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,4-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
N-Nitrosodiethylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzyl alcohol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2,4-Trichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 2 of 5  
 Date: 04/29/97  
 Log #: L18137-4

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
 Terra

Label: TMW-2  
 Date Sampled: 04/17/97  
 Time Sampled: 18:40  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analysis
Semi-volatile Organic Compounds (continued)							
2-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Naphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chloroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroisopropyl) Ethe	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorobutadiene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
N-Nitrosodi-n-propylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chloro-3-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3&4-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1-Methylnaphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Methylnaphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorocyclopentadiene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4,6-Trichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4,5-Trichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Chloronaphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dimethylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,6-Dinitrotoluene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Acenaphthylene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Acenaphthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dibenzofuran	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dinitrotoluene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dinitrophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
4-Nitrophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
Diethylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Fluorene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chlorophenyl-phenylether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4,6-Dinitro-2-Methylphenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
N-Nitrosodiphenylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Azobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Bromophenyl-phenylether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Pentachlorophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
Phenanthrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Di-n-butylphthalate	52	ug/l	3510/8270	10	04/21	04/25	GM
Fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzidine	BDL	ug/l	3510/8270	80	04/21	04/25	GM
Pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 3 of 5  
 Date: 04/29/97  
 Log #: L18137-4

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:  
 Groundwater Analysis  
 Terra

Label: TMW-2  
 Date Sampled: 04/17/97  
 Time Sampled: 18:40  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analyt
<b>Semivolatile Organic Compounds (continued)</b>							
Butylbenzylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (a) anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3,3'-Dichlorobenzidine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Chrysene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2-Diphenylhydrazine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis (2-Ethylhexyl) Phthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Di-n-octyl phthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (b) fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (k) fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (a) pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Indeno (1,2,3-c,d) pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dibenzo (a,h) Anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (g,h,i) perylene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dilution Factor	1.0		3510/8270		04/21	04/25	GM
<b>Surrogate Recoveries:</b>							
2-Fluorophenol	52.0	%	3510/8270	21-100	04/21	04/25	GM
Phenol-d5	40.0	%	3510/8270	10-94	04/21	04/25	GM
Nitrobenzene-d5	81.0	%	3510/8270	35-114	04/21	04/25	GM
2-Fluorobiphenyl	82.0	%	3510/8270	43-111	04/21	04/25	GM
2,4,6-Tribromophenol	108	%	3510/8270	10-123	04/21	04/25	GM
Terphenyl-d14	95.0	%	3510/8270	33-141	04/21	04/25	GM
<b>Volatile Organic Compounds</b>							
Dichlorodifluoromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethanol	BDL	ug/l	5030/8260	1000	04/28	04/28	KS
Chloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Vinyl Chloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromomethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Chloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trichlorofluoromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acrolein	BDL	ug/l	5030/8260	5.0	04/28	04/28	KS
1,1-Dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acetone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Iodomethane	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Carbon Disulfide	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Methylene Chloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acrylonitrile	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Trans-1,2-dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1-Dichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Vinyl Acetate	BDL	ug/l	5030/8260	50	04/28	04/28	KS

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 4 of 5  
 Date: 04/29/97  
 Log #: L18137-4

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:  
 Groundwater Analysis  
 Terra

Label: TMW-2  
 Date Sampled: 04/17/97  
 Time Sampled: 18:40  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analysis
<b>Volatile Organic Compounds (continued)</b>							
2-Butanone	BDL	ug/l	5030/8260	5.0	04/28	04/28	KS
Chloroform	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1,1-Trichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Carbon Tetrachloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Benzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dichloropropane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Dibromomethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromodichloromethane	BDL	ug/l	5030/8260	10	04/28	04/28	KS
2-Chloroethylvinyl Ether	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Cis-1,3-Dichloropropene	BDL	ug/l	5030/8260	50	04/28	04/28	KS
4-Methyl-2-pentanone	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Toluene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trans-1,3-Dichloropropene	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Ethyl Methacrylate	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1,2-Trichloroethane	BDL	ug/l	5030/8260	50	04/28	04/28	KS
2-Hexanone	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Dibromochloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Chlorobenzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethylbenzene	BDL	ug/l	5030/8260	3.0	04/28	04/28	KS
Total Xylenes	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Styrene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromoform	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Cis-1,4-dichloro-2-butene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1,2,2-Tetrachloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2,3-Trichloropropane	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Trans-1,4-dichloro-2-butene	BDL	ug/l	5030/8260	50	04/28	04/28	KS
MTBE	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1,1,2-Tetrachloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Cis-1,2-Dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Tetrachloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dibromoethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Dilution Factor	1.0						
<b>Surrogate Recoveries:</b>							
4-Bromofluorobenzene	85.0	%	5030/8260	82-119	04/28	04/28	KS
Dibromofluoromethane	106	%	5030/8260	75-112	04/28	04/28	KS
Toluene-D8	92.0	%	5030/8260	82-116	04/28	04/28	KS

**General Chemistry**

Client #: TAM-94-120302  
Address: Atlanta Testing & Eng. TAM

Page: Page 5 of 5  
Date: 04/29/97  
Log #: L18137-4

1211 Tech Blvd., Ste 200  
Tampa, FL 33619  
Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
Terra

Label: TMW-2  
Date Sampled: 04/17/97  
Time Sampled: 18:40  
Date Received: 04/18/97  
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analysis
General Chemistry (continued)							
Turbidity	580	NTU	180.1	0.10	04/18	04/18	SC

BDL = Below Detection Limits

\* Compounds are Screened Only, with an estimated detection limit.

All analyses were performed using EPA, ASTM, USGS, or Standard Methods.

All analyses were performed within EPA holding times unless otherwise noted.

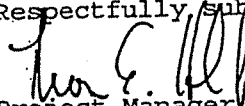
Analyses are reported in dry weight unless otherwise indicated by units.

QAP# 900376G  
SUB HRS# 86122,86109,E86048  
SC CERT# 96031  
ELPAT# 13801  
VA CERT# 00395

HRS# E86240,86356  
ADEM ID# 40850  
TN CERT# 02985  
CA CERT# I-1068  
AZ CERT# AZ0529

NC CERT# 444  
ND CERT# R-148  
CT CERT# PH-0122  
USACE CERT  
MA CERT# M-FL449

Respectfully Submitted,

  
Project Manager

L18137-4

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 1 of 5  
 Date: 04/29/97  
 Log #: L18137-2

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:  
 Groundwater Analysis  
 Terra

Label: TMW-3  
 Date Sampled: 04/17/97  
 Time Sampled: 17:46  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analys
<b>Metals</b>							
Arsenic	BDL	mg/l	3010/6010A	0.010	04/22	04/22	JK
Barium	BDL	mg/l	3010/6010A	0.010	04/22	04/22	JK
Cadmium	BDL	mg/l	3010/6010A	0.0050	04/22	04/22	JK
Chromium	BDL	mg/l	3010/6010A	0.0050	04/22	04/22	JK
Lead	BDL	mg/l	3010/6010A	0.0050	04/22	04/22	JK
Mercury	BDL	mg/l	245.2	0.0010	04/25	04/25	VF
Selenium	BDL	mg/l	3010/6010A	0.010	04/22	04/22	JK
Silver	BDL	mg/l	3010/6010A	0.010	04/22	04/22	JK
<b>Semivolatile Organic Compounds</b>							
Hexachloroethane	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Pyridine	BDL	ug/l	3510/8270	20	04/21	04/25	GM
N-Nitrosodimethylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Nitrobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Aniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Isophorone	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Nitrophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Phenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dimethyl Phenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroethyl) Ether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Chlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroethoxy) Methane	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,3-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzoic Acid	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,4-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
N-Nitrosodiethylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzyl alcohol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2,4-Trichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM



Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 2 of 5  
 Date: 04/29/97  
 Log #: L18137-2

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:  
 Groundwater Analysis  
 Terra

Label: TMW-3  
 Date Sampled: 04/17/97  
 Time Sampled: 17:46  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analys
Semi-volatile Organic Compounds (continued)							
2-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Naphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chloroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroisopropyl) Ethe	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorobutadiene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
N-Nitrosodi-n-propylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chloro-3-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3&4-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1-Methyl-naphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Methyl-naphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorocyclopentadiene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4,6-Trichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4,5-Trichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Chloronaphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dimethylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,6-Dinitrotoluene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Acenaphthylene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Acenaphthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dibenzofuran	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dinitrotoluene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dinitrophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
4-Nitrophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
Diethylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Fluorene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chlorophenyl-phenylether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,6-Dinitro-2-Methylphenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
N-Nitrosodiphenylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Azobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1-Bromophenyl-phenylether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Pentachlorophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
Phenanthrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Di-n-butylphthalate	22	ug/l	3510/8270	10	04/21	04/25	GM
Fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzenidine	BDL	ug/l	3510/8270	80	04/21	04/25	GM
Pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 3 of 5  
 Date: 04/29/97  
 Log #: L18137-2

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
 Terra

Label: TMW-3  
 Date Sampled: 04/17/97  
 Time Sampled: 17:46  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analys
<b>Semivolatile Organic Compounds (continued)</b>							
Butylbenzylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (a) anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3,3'-Dichlorobenzidine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Chrysene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2-Diphenylhydrazine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis (2-Ethylhexyl) Phthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Di-n-octyl phthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (b) fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (k) fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (a) pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Indeno (1,2,3-c,d) pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dibenzo (a,h) Anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (g,h,i) perylene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dilution Factor	1.0		3510/8270		04/21	04/25	GM
<b>Surrogate Recoveries:</b>							
2-Fluorophenol	59.0	%	3510/8270	21-100	04/21	04/25	GM
Phenol-d5	46.0	%	3510/8270	10-94	04/21	04/25	GM
Nitrobenzene-d5	84.0	%	3510/8270	35-114	04/21	04/25	GM
2-Fluorobiphenyl	91.0	%	3510/8270	43-111	04/21	04/25	GM
2,4,6-Tribromophenol	106	%	3510/8270	10-123	04/21	04/25	GM
Terphenyl-d14	97.0	%	3510/8270	33-141	04/21	04/25	GM
<b>Volatile Organic Compounds</b>							
Dichlorodifluoromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethanol	BDL	ug/l	5030/8260	1000	04/28	04/28	KS
Chloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Vinyl Chloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromomethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Chloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trichlorofluoromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acrolein	BDL	ug/l	5030/8260	5.0	04/28	04/28	KS
1,1-Dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acetone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Iodomethane	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Carbon Disulfide	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Methylene Chloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acrylonitrile	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Trans-1,2-dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1-Dichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Vinyl Acetate	BDL	ug/l	5030/8260	50	04/28	04/28	KS

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 4 of 5  
 Date: 04/29/97  
 Log #: L18137-2

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619.  
 Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
 Terra

Label: TMW-3  
 Date Sampled: 04/17/97  
 Time Sampled: 17:46  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analysis
<b>Volatiles Organic Compounds (continued)</b>							
2-Butanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Chloroform	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1,1-Trichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Carbon Tetrachloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Benzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dichloropropane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Dibromomethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromodichloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
2-Chloroethylvinyl Ether	BDL	ug/l	5030/8260	10	04/28	04/28	KS
Cis-1,3-Dichloropropene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
4-Methyl-2-pentanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Toluene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trans-1,3-Dichloropropene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethyl Methacrylate	BDL	ug/l	5030/8260	50	04/28	04/28	KS
1,1,2-Trichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
2-Hexanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Dibromochloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Chlorobenzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethylbenzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Total Xylenes	BDL	ug/l	5030/8260	3.0	04/28	04/28	KS
Styrene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromoform	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Cis-1,4-dichloro-2-butene	BDL	ug/l	5030/8260	50	04/28	04/28	KS
1,1,2,2-Tetrachloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2,3-Trichloropropane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trans-1,4-dichloro-2-butene	BDL	ug/l	5030/8260	50	04/28	04/28	KS
MTBE	BDL	ug/l	5030/8260	50	04/28	04/28	KS
1,1,1,2-Tetrachloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Cis-1,2-Dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Tetrachloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dibromoethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Dilution Factor	1.0		5030/8260		04/28	04/28	KS
<b>Surrogate Recoveries:</b>							
1-Bromofluorobenzene	98.0	%	5030/8260	82-119	04/28	04/28	KS
Dibromofluoromethane	102	%	5030/8260	75-112	04/28	04/28	KS
Toluene-D8	88.0	%	5030/8260	82-116	04/28	04/28	KS

**General Chemistry**

Client #: TAM-94-120302  
Address: Atlanta Testing & Eng. TAM

Page: Page 5 of 5  
Date: 04/29/97  
Log #: L18137-2

1211 Tech Blvd., Ste 200  
Tampa, FL 33619  
Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
Terra

Label: TMW-3  
Date Sampled: 04/17/97  
Time Sampled: 17:46  
Date Received: 04/18/97  
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analysis
<b>General Chemistry (continued)</b>							
Turbidity	0.40	NTU	180.1	0.10	04/18	04/18	SC

SDL - Below Detection Limits

\* Compounds are Screened Only, with an estimated detection limit.

All analyses were performed using EPA, ASTM, USGS, or Standard Methods.

All analyses were performed within EPA holding times unless otherwise noted.

Analyses are reported in dry weight unless otherwise indicated by units.

JAP# 900376G

SUB HRS# 86122,86109,E86048

3C CERT# 96031

SLPAT# 13801

JA CERT# 00395

HRS# E86240,86356

ADEM ID# 40850

TN CERT# 02985

CA CERT# I-1068

AZ CERT# AZ0529

NC CERT# 444

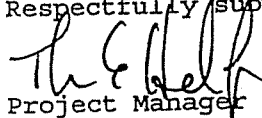
ND CERT# R-148

CT CERT# PH-0122

USACE CERT

MA CERT# M-FL449

Respectfully submitted,

  
Project Manager

L18137-2



Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 2 of 5  
 Date: 04/29/97  
 Log #: L18137-1

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:  
 Groundwater Analysis  
 Terra

Label: TMW-4  
 Date Sampled: 04/17/97  
 Time Sampled: 16:06  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analy
<b>Semivolatile Organic Compounds (continued)</b>							
2-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Naphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chloroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroisopropyl) Ethe	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorobutadiene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
N-Nitrosodi-n-propylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chloro-3-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3&4-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1-Methylnaphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Methylnaphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorocyclopentadiene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4,6-Trichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4,5-Trichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Chloronaphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dimethylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,6-Dinitrotoluene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Acenaphthylene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Acenaphthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dibenzofuran	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dinitrotoluene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dinitrophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
4-Nitrophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
Diethylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Fluorene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chlorophenyl-phenylether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4,6-Dinitro-2-Methylphenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
N-Nitrosodiphenylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Azobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Bromophenyl-phenylether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Pentachlorophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
Phenanthrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Di-n-butylphthalate	56	ug/l	3510/8270	10	04/21	04/25	GM
Fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzidine	BDL	ug/l	3510/8270	80	04/21	04/25	GM
Pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

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 Date: 04/29/97  
 Log #: L18137-1

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
 Terra

Label: TMW-4  
 Date Sampled: 04/17/97  
 Time Sampled: 16:06  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analysis
<b>Semivolatile Organic Compounds (continued)</b>							
Butylbenzylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (a) anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3,3'-Dichlorobenzidine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Chrysene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2-Diphenylhydrazine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis (2-Ethylhexyl) Phthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Di-n-octyl phthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (b) fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (k) fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (a) pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Indeno (1,2,3-c,d) pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dibenzo (a,h) Anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (g,h,i) perylene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dilution Factor	1.0		3510/8270		04/21	04/25	GM
<b>Surrogate Recoveries:</b>							
2-Fluorophenol	42.0	%	3510/8270	21-100	04/21	04/25	GM
Phenol-d5	31.0	%	3510/8270	10-94	04/21	04/25	GM
Nitrobenzene-d5	68.0	%	3510/8270	35-114	04/21	04/25	GM
2-Fluorobiphenyl	72.0	%	3510/8270	43-111	04/21	04/25	GM
2,4,6-Tribromophenol	94.0	%	3510/8270	10-123	04/21	04/25	GM
Terphenyl-d14	86.0	%	3510/8270	33-141	04/21	04/25	GM
<b>Volatile Organic Compounds</b>							
Dichlorodifluoromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethanol	BDL	ug/l	5030/8260	1000	04/28	04/28	KS
Chloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Vinyl Chloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromomethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Chloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trichlorofluoromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acrolein	BDL	ug/l	5030/8260	5.0	04/28	04/28	KS
1,1-Dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acetone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Iodomethane	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Carbon Disulfide	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Methylene Chloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acrylonitrile	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Trans-1,2-dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1-Dichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Vinyl Acetate	BDL	ug/l	5030/8260	50	04/28	04/28	KS

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 4 of 5  
 Date: 04/29/97  
 Log #: L18137-1

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:  
 Groundwater Analysis  
 Terra

Label: TMW-4  
 Date Sampled: 04/17/97  
 Time Sampled: 16:06  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analys
<b>Volatile Organic Compounds (continued)</b>							
2-Butanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Chloroform	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1,1-Trichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Carbon Tetrachloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Benzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dichloropropane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Dibromomethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromodichloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
2-Chloroethylvinyl Ether	BDL	ug/l	5030/8260	10	04/28	04/28	KS
Cis-1,3-Dichloropropene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
4-Methyl-2-pentanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Toluene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trans-1,3-Dichloropropene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethyl Methacrylate	BDL	ug/l	5030/8260	50	04/28	04/28	KS
1,1,2-Trichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
2-Hexanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Dibromochloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Chlorobenzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethylbenzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Total Xylenes	BDL	ug/l	5030/8260	3.0	04/28	04/28	KS
Styrene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromoform	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Cis-1,4-dichloro-2-butene	BDL	ug/l	5030/8260	50	04/28	04/28	KS
1,1,2,2-Tetrachloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2,3-Trichloropropane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trans-1,4-dichloro-2-butene	BDL	ug/l	5030/8260	50	04/28	04/28	KS
MTBE	BDL	ug/l	5030/8260	50	04/28	04/28	KS
1,1,1,2-Tetrachloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Cis-1,2-Dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Tetrachloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dibromoethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Dilution Factor	1.0		5030/8260		04/28	04/28	KS
<b>Surrogate Recoveries:</b>							
4-Bromofluorobenzene	99.0	%	5030/8260	82-119	04/28	04/28	KS
Dibromofluoromethane	99.0	%	5030/8260	75-112	04/28	04/28	KS
Toluene-D8	88.0	%	5030/8260	82-116	04/28	04/28	KS

**General Chemistry**



Client #: TAM-94-120302  
Address: Atlanta Testing & Eng. TAM

Page: Page 5 of 5  
Date: 04/29/97  
Log #: L18137-1

1211 Tech Blvd., Ste 200  
Tampa, FL 33619  
Attn: Mike Schäckne

Sample Description:  
Groundwater Analysis  
Terra

Label: TMW-4  
Date Sampled: 04/17/97  
Time Sampled: 16:06  
Date Received: 04/18/97  
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analys
<b>General Chemistry (continued)</b>							
Turbidity	2.6	NTU	180.1	0.10	04/18	04/18	SC

BDL = Below Detection Limits

\* Compounds are Screened Only, with an estimated detection limit.

All analyses were performed using EPA, ASTM, USGS, or Standard Methods.

All analyses were performed within EPA holding times unless otherwise noted.

Analyses are reported in dry weight unless otherwise indicated by units.

QAP# 900376G  
SUB HRS# 86122,86109,E86048  
3C CERT# 96031  
ELPAT# 13801  
VA CERT# 00395

HRS# E86240,86356  
ADEM ID# 40850  
TN CERT# 02985  
CA CERT# I-1068  
AZ CERT# AZ0529

NC CERT# 444  
ND CERT# R-148  
CT CERT# PH-0122  
USACE CERT  
MA CERT# M-FL449

Respectfully submitted,

*Thomas S. Hill*  
Project Manager

L18137-1

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 1 of 5  
 Date: 04/29/97  
 Log #: L18137-6

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:  
 Groundwater Analysis  
 Terra

Label: TMW-5  
 Date Sampled: 04/17/97  
 Time Sampled: 19:32  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analys
<b>Metals</b>							
Arsenic	BDL	mg/l	3010/6010A	0.010	04/22	04/22	JK
Barium	BDL	mg/l	3010/6010A	0.010	04/22	04/22	JK
Cadmium	BDL	mg/l	3010/6010A	0.0050	04/22	04/22	JK
Chromium	BDL	mg/l	3010/6010A	0.0050	04/22	04/22	JK
Lead	BDL	mg/l	3010/6010A	0.0050	04/22	04/22	JK
Mercury	BDL	mg/l	245.2	0.0010	04/25	04/25	VF
Selenium	BDL	mg/l	3010/6010A	0.010	04/22	04/22	JK
Silver	BDL	mg/l	3010/6010A	0.010	04/22	04/22	JK
<b>Semivolatile Organic Compounds</b>							
Hexachloroethane	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Pyridine	BDL	ug/l	3510/8270	20	04/21	04/25	GM
N-Nitrosodimethylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Nitrobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Aniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Isophorone	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Nitrophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Phenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dimethyl Phenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroethyl) Ether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Chlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroethoxy) Methane	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,3-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzoic Acid	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,4-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
N-Nitrosodiethylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,4-Dichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzyl alcohol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2,4-Trichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 2 of 5  
 Date: 04/29/97  
 Log #: L18137-6

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schäckne

Sample Description:  
 Groundwater Analysis  
 Terra

Label: TMW-5  
 Date Sampled: 04/17/97  
 Time Sampled: 19:32  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analysis
Semi-volatile Organic Compounds (continued)							
2-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Naphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chloroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroisopropyl) Ethe	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorobutadiene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
N-Nitrosodi-n-propylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chloro-3-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3&4-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1-Methyl-naphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Methyl-naphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorocyclopentadiene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4,6-Trichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4,5-Trichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Chloronaphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dimethylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,6-Dinitrotoluene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Acenaphthylene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Acenaphthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dibenzofuran	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dinitrotoluene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dinitrophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
4-Nitrophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
Diethylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Fluorene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chlorophenyl-phenylether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4,6-Dinitro-2-Methylphenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
N-Nitrosodiphenylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Azobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Bromophenyl-phenylether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Pentachlorophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
Phenanthrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Di-n-butylphthalate	84	ug/l	3510/8270	10	04/21	04/25	GM
Fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzidine	BDL	ug/l	3510/8270	80	04/21	04/25	GM
Pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 3 of 5  
 Date: 04/29/97  
 Log #: L18137-6

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:  
 Groundwater Analysis  
 Terra

Label: TMW-5  
 Date Sampled: 04/17/97  
 Time Sampled: 19:32  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analysis
<b>Semivolatile Organic Compounds (continued)</b>							
Butylbenzylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (a) anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3,3'-Dichlorobenzidine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Chrysene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2-Diphenylhydrazine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis (2-Ethylhexyl) Phthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Di-n-octyl phthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (b) fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (k) fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (a) pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Indeno (1,2,3-c,d) pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dibenzo (a,h) Anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (g,h,i) perylene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dilution Factor	1.0		3510/8270		04/21	04/25	GM
<b>Surrogate Recoveries:</b>							
2-Fluorophenol	55.0	%	3510/8270	21-100	04/21	04/25	GM
Phenol-d5	40.0	%	3510/8270	10-94	04/21	04/25	GM
Nitrobenzene-d5	80.0	%	3510/8270	35-114	04/21	04/25	GM
2-Fluorobiphenyl	91.0	%	3510/8270	43-111	04/21	04/25	GM
2,4,6-Tribromophenol	104	%	3510/8270	10-123	04/21	04/25	GM
Terphenyl-d14	97.0	%	3510/8270	33-141	04/21	04/25	GM
<b>Volatile Organic Compounds</b>							
Dichlorodifluoromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethanol	BDL	ug/l	5030/8260	1000	04/28	04/28	KS
Chloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Vinyl Chloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromomethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Chloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trichlorofluoromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acrolein	BDL	ug/l	5030/8260	5.0	04/28	04/28	KS
1,1-Dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acetone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Fluoromethane	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Carbon Disulfide	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Methylene Chloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acrylonitrile	BDL	ug/l	5030/8260	50	04/28	04/28	KS
trans-1,2-dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1-Dichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Vinyl Acetate	BDL	ug/l	5030/8260	50	04/28	04/28	KS

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

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 Date: 04/29/97  
 Log #: L18137-6

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:  
 Groundwater Analysis  
 Terra

Label: TMW-5  
 Date Sampled: 04/17/97  
 Time Sampled: 19:32  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analyst
<b>Volatile Organic Compounds (continued)</b>							
2-Butanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Chloroform	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1,1-Trichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Carbon Tetrachloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Benzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dichloropropane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Dibromomethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromodichloromethane	BDL	ug/l	5030/8260	10	04/28	04/28	KS
2-Chloroethylvinyl Ether	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Cis-1,3-Dichloropropene	BDL	ug/l	5030/8260	50	04/28	04/28	KS
4-Methyl-2-pentanone	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Toluene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trans-1,3-Dichloropropene	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Ethyl Methacrylate	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1,2-Trichloroethane	BDL	ug/l	5030/8260	50	04/28	04/28	KS
2-Hexanone	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Dibromochloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Chlorobenzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethylbenzene	BDL	ug/l	5030/8260	3.0	04/28	04/28	KS
Total Xylenes	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Styrene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromoform	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Cis-1,4-dichloro-2-butene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1,2,2-Tetrachloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2,3-Trichloropropane	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Trans-1,4-dichloro-2-butene	BDL	ug/l	5030/8260	50	04/28	04/28	KS
MTBE	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1,1,2-Tetrachloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Cis-1,2-Dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Tetrachloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dibromoethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Dilution Factor	1.0		5030/8260		04/28	04/28	
<b>Surrogate Recoveries:</b>							
4-Bromofluorobenzene	91.0	%	5030/8260	82-119	04/28	04/28	KS
Dibromofluoromethane	102	%	5030/8260	75-112	04/28	04/28	KS
Toluene-D8	86.0	%	5030/8260	82-116	04/28	04/28	KS

**General Chemistry**

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

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 Date: 04/29/97  
 Log #: L18137-6

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

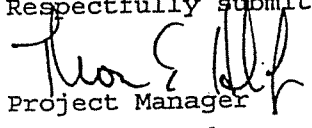
Sample Description:  
 Groundwater Analysis  
 Terra

Label: TMW-5  
 Date Sampled: 04/17/97  
 Time Sampled: 19:32  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analysis
General Chemistry (continued)							
Turbidity	4.4	NTU	180.1	0.10	04/18	04/18	SC

BDL = Below Detection Limits  
 \* Compounds are Screened Only, with an estimated detection limit.  
 All analyses were performed using EPA, ASTM, USGS, or Standard Methods.  
 All analyses were performed within EPA holding times unless otherwise noted.  
 Analyses are reported in dry weight unless otherwise indicated by units.

JAP# 900376G	HRS# E86240,86356	NC CERT# 444
SUB HRS# 86122,86109,E86048	ADEM ID# 40850	ND CERT# R-148
SC CERT# 96031	TN CERT# 02985	CT CERT# PH-0122
SLPAT# 13801	CA CERT# I-1068	USACE CERT
JA CERT# 00395	AZ CERT# AZ0529	MA CERT# M-FL449

Respectfully submitted,  
  
 Project Manager  
 L18137-6

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 1 of 5  
 Date: 04/29/97  
 Log #: L18137-3

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
 Terra

Label: TMW-6  
 Date Sampled: 04/17/97  
 Time Sampled: 18:21  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analys
<b>Metals</b>							
Arsenic	BDL	mg/l	3010/6010A	0.010	04/22	04/22	JK
Barium	BDL	mg/l	3010/6010A	0.010	04/22	04/22	JK
Cadmium	BDL	mg/l	3010/6010A	0.0050	04/22	04/22	JK
Chromium	BDL	mg/l	3010/6010A	0.0050	04/22	04/22	JK
Lead	BDL	mg/l	3010/6010A	0.0050	04/22	04/22	JK
Mercury	BDL	mg/l	245.2	0.0010	04/25	04/25	VF
Selenium	BDL	mg/l	3010/6010A	0.010	04/22	04/22	JK
Silver	BDL	mg/l	3010/6010A	0.010	04/22	04/22	JK
<b>Semivolatile Organic Compounds</b>							
Hexachloroethane	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Pyridine	BDL	ug/l	3510/8270	20	04/21	04/25	GM
N-Nitrosodimethylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Nitrobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Aniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Isophorone	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Nitrophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Phenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dimethyl Phenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroethyl) Ether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Chlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroethoxy) Methane	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,3-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzoic Acid	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,4-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
N-Nitrosodiethylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzyl alcohol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2,4-Trichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM

Client #: TAM-94-120302  
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 Date: 04/29/97  
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1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
 Terra

Label: TMW-6  
 Date Sampled: 04/17/97  
 Time Sampled: 18:21  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analysis
Semivolatile Organic Compounds (continued)							
2-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Naphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chloroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroisopropyl) Ethe	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorobutadiene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
N-Nitrosodi-n-propylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chloro-3-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3&4-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1-Methyl-naphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Methyl-naphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorocyclopentadiene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4,6-Trichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4,5-Trichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Chloronaphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dimethylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,6-Dinitrotoluene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Acenaphthylene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Acenaphthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dibenzofuran	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dinitrotoluene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dinitrophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
4-Nitrophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
Diethylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Fluorene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chlorophenyl-phenylether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4,6-Dinitro-2-Methylphenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
N-Nitrosodiphenylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Azobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Bromophenyl-phenylether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Pentachlorophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
Phenanthrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Di-n-butylphthalate	16	ug/l	3510/8270	10	04/21	04/25	GM
Fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzidine	BDL	ug/l	3510/8270	80	04/21	04/25	GM
Pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM



Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

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 Date: 04/29/97  
 Log #: L18137-3

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
 Terra

Label: TMW-6  
 Date Sampled: 04/17/97  
 Time Sampled: 18:21  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analysis
<b>Semivolatile Organic Compounds (continued)</b>							
Butylbenzylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (a) anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3,3'-Dichlorobenzidine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Chrysene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2-Diphenylhydrazine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Ethylhexyl) Phthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Di-n-octyl phthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (b) fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (k) fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (a) pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Indeno (1,2,3-c,d) pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dibenzo (a,h) Anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (g,h,i) perylene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dilution Factor	1.0				04/21	04/25	GM
<b>Surrogate Recoveries:</b>							
2-Fluorophenol	54.0	%	3510/8270	21-100	04/21	04/25	GM
Phenol-d5	40.0	%	3510/8270	10-94	04/21	04/25	GM
Nitrobenzene-d5	88.0	%	3510/8270	35-114	04/21	04/25	GM
2-Fluorobiphenyl	98.0	%	3510/8270	43-111	04/21	04/25	GM
2,4,6-Tribromophenol	105	%	3510/8270	10-123	04/21	04/25	GM
Terphenyl-d14	100	%	3510/8270	33-141	04/21	04/25	GM
<b>Volatile Organic Compounds</b>							
Dichlorodifluoromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethanol	BDL	ug/l	5030/8260	1000	04/28	04/28	KS
Chloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Vinyl Chloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromomethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Chloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trichlorofluoromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acrolein	BDL	ug/l	5030/8260	5.0	04/28	04/28	KS
1,1-Dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acetone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Iodomethane	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Carbon Disulfide	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Methylene Chloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acrylonitrile	BDL	ug/l	5030/8260	50	04/28	04/28	KS
trans-1,2-dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1-Dichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Vinyl Acetate	BDL	ug/l	5030/8260	50	04/28	04/28	KS

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

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 Date: 04/29/97  
 Log #: L18137-3

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:  
 Groundwater Analysis  
 Terra

Label: TMW-6  
 Date Sampled: 04/17/97  
 Time Sampled: 18:21  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analys
<b>Volatile Organic Compounds (continued)</b>							
2-Butanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Chloroform	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1,1-Trichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Carbon Tetrachloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Benzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dichloropropane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Dibromomethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromodichloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
2-Chloroethylvinyl Ether	BDL	ug/l	5030/8260	10	04/28	04/28	KS
Cis-1,3-Dichloropropene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
4-Methyl-2-pentanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Toluene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trans-1,3-Dichloropropene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethyl Methacrylate	BDL	ug/l	5030/8260	50	04/28	04/28	KS
1,1,2-Trichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
2-Hexanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Dibromochloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Chlorobenzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethylbenzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Total Xylenes	BDL	ug/l	5030/8260	3.0	04/28	04/28	KS
Styrene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromoform	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Cis-1,4-dichloro-2-butene	BDL	ug/l	5030/8260	50	04/28	04/28	KS
1,1,2,2-Tetrachloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2,3-Trichloropropane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trans-1,4-dichloro-2-butene	BDL	ug/l	5030/8260	50	04/28	04/28	KS
MTBE	BDL	ug/l	5030/8260	50	04/28	04/28	KS
1,1,1,2-Tetrachloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Cis-1,2-Dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Tetrachloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dibromoethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Dilution Factor	1.0		5030/8260				
<b>Surrogate Recoveries:</b>							
4-Bromofluorobenzene	94.0	%	5030/8260	82-119	04/28	04/28	KS
Dibromofluoromethane	138	%	5030/8260	75-112	04/28	04/28	KS
Toluene-D8	88.0	%	5030/8260	82-116	04/28	04/28	KS

**General Chemistry**

Client #: TAM-94-120302  
Address: Atlanta Testing & Eng. TAM

Page: Page 5 of 5  
Date: 04/29/97  
Log #: L18137-3

1211 Tech Blvd., Ste 200  
Tampa, FL 33619  
Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
Terra

Label: TMW-6  
Date Sampled: 04/17/97  
Time Sampled: 18:21  
Date Received: 04/18/97  
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analys
<del>General Chemistry</del> (continued)							
Turbidity	6.5	NTU	180.1	0.10	04/18	04/18	SC

BDL = Below Detection Limits

\* Compounds are Screened Only, with an estimated detection limit.

All analyses were performed using EPA, ASTM, USGS, or Standard Methods.

All analyses were performed within EPA holding times unless otherwise noted.

Analyses are reported in dry weight unless otherwise indicated by units.

QAP# 900376G

SUB HRS# 86122,86109,E86048

SC CERT# 96031

SLPAT# 13801

VA CERT# 00395

HRS# E86240,86356

ADEM ID# 40850

TN CERT# 02985

CA CERT# I-1068

AZ CERT# AZ0529

NC CERT# 444

ND CERT# R-148

CT CERT# PH-0122

USACE CERT

MA CERT# M-FL449

Respectfully submitted,

  
Project Manager

L18137-3

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 1 of 5  
 Date: 04/29/97  
 Log #: L18137-9

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:  
 Groundwater Analysis  
 Terra

Label: EQUIP BLANK  
 Date Sampled: 04/17/97  
 Time Sampled: 19:21  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analyst
<b>Metals</b>							
Arsenic	BDL	mg/l	3010/6010A	0.010	04/22	04/22	JK
Barium	BDL	mg/l	3010/6010A	0.010	04/22	04/22	JK
Cadmium	BDL	mg/l	3010/6010A	0.0050	04/22	04/22	JK
Chromium	BDL	mg/l	3010/6010A	0.0050	04/22	04/22	JK
Lead	BDL	mg/l	3010/6010A	0.0050	04/22	04/22	JK
Mercury	BDL	mg/l	245.2	0.0010	04/25	04/25	VF
Selenium	BDL	mg/l	3010/6010A	0.010	04/22	04/22	JK
Silver	BDL	mg/l	3010/6010A	0.010	04/22	04/22	JK
<b>Semivolatile Organic Compounds</b>							
Hexachloroethane	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Pyridine	BDL	ug/l	3510/8270	20	04/21	04/25	GM
N-Nitrosodimethylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Nitrobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Aniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Isophorone	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Nitrophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Phenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dimethyl Phenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroethyl) Ether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Chlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroethoxy) Methane	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,3-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzoic Acid	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,4-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
N-Nitrosodiethylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzyl alcohol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2,4-Trichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 2 of 5  
 Date: 04/29/97  
 Log #: L18137-9

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
 Terra

Label: EQUIP BLANK  
 Date Sampled: 04/17/97  
 Time Sampled: 19:21  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analysis
Semivolatile Organic Compounds (continued)							
2-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Naphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chloroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroisopropyl) Ethe	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorobutadiene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
N-Nitrosodi-n-propylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chloro-3-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3&4-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1-Methylnaphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Methylnaphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorocyclopentadiene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4,6-Trichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4,5-Trichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Chloronaphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dimethylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,6-Dinitrotoluene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Acenaphthylene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Acenaphthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dibenzofuran	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dinitrotoluene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dinitrophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
1-Nitrophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
Diethylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Fluorene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1-Chlorophenyl-phenylether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,6-Dinitro-2-Methylphenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
N-Nitrosodiphenylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Azobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1-Bromophenyl-phenylether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Pentachlorophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
Phenanthrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Di-n-butylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzidine	BDL	ug/l	3510/8270	80	04/21	04/25	GM
Pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM

Client #: TAM-94-120302  
Address: Atlanta Testing & Eng. TAM

Page: Page 3 of 5  
Date: 04/29/97  
Log #: L18137-9

1211 Tech Blvd., Ste 200  
Tampa, FL 33619  
Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
Terra

Label: EQUIP BLANK  
Date Sampled: 04/17/97  
Time Sampled: 19:21  
Date Received: 04/18/97  
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analys
<b>Semivolatile Organic Compounds (continued)</b>							
Butylbenzylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (a) anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3,3'-Dichlorobenzidine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Chrysene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2-Diphenylhydrazine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis (2-Ethylhexyl) Phthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Di-n-octyl phthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (b) fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (k) fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (a) pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Indeno (1,2,3-c,d) pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dibenzo (a,h) Anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (g,h,i) perylene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dilution Factor	1.0		3510/8270		04/21	04/25	GM
<b>Surrogate Recoveries:</b>							
2-Fluorophenol	55.0	%	3510/8270	21-100	04/21	04/25	GM
Phenol-d5	38.0	%	3510/8270	10-94	04/21	04/25	GM
Nitrobenzene-d5	72.0	%	3510/8270	35-114	04/21	04/25	GM
2-Fluorobiphenyl	90.0	%	3510/8270	43-111	04/21	04/25	GM
2,4,6-Tribromophenol	97.0	%	3510/8270	10-123	04/21	04/25	GM
Terphenyl-d14	96.0	%	3510/8270	33-141	04/21	04/25	GM
<b>Volatile Organic Compounds</b>							
Dichlorodifluoromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethanol	BDL	ug/l	5030/8260	1000	04/28	04/28	KS
Chloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Vinyl Chloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromomethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Chloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trichlorofluoromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acrolein	BDL	ug/l	5030/8260	5.0	04/28	04/28	KS
1,1-Dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acetone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Iodomethane	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Carbon Disulfide	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Methylene Chloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acrylonitrile	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Trans-1,2-dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1-Dichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Vinyl Acetate	BDL	ug/l	5030/8260	50	04/28	04/28	KS

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 4 of 5  
 Date: 04/29/97  
 Log #: L18137-9

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
 Terra

Label: EQUIP BLANK  
 Date Sampled: 04/17/97  
 Time Sampled: 19:21  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analys
<b>Volatile Organic Compounds (continued)</b>							
2-Butanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Chloroform	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1,1-Trichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Carbon Tetrachloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Benzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dichloropropane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Dibromomethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromodichloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
2-Chloroethylvinyl Ether	BDL	ug/l	5030/8260	10	04/28	04/28	KS
Cis-1,3-Dichloropropene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
4-Methyl-2-pentanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Toluene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trans-1,3-Dichloropropene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethyl Methacrylate	BDL	ug/l	5030/8260	50	04/28	04/28	KS
1,1,2-Trichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
2-Hexanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Dibromochloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Chlorobenzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethylbenzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Total Xylenes	BDL	ug/l	5030/8260	3.0	04/28	04/28	KS
Styrene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromoform	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Cis-1,4-dichloro-2-butene	BDL	ug/l	5030/8260	50	04/28	04/28	KS
1,1,2,2-Tetrachloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2,3-Trichloropropane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trans-1,4-dichloro-2-butene	BDL	ug/l	5030/8260	50	04/28	04/28	KS
MTBE	BDL	ug/l	5030/8260	50	04/28	04/28	KS
1,1,1,2-Tetrachloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Cis-1,2-Dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Tetrachloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dibromoethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Dilution Factor	1.0		5030/8260		04/28	04/28	KS
<b>Surrogate Recoveries:</b>							
1-Bromofluorobenzene	100	%	5030/8260	82-119	04/28	04/28	KS
Dibromofluoromethane	96.0	%	5030/8260	75-112	04/28	04/28	KS
Toluene-D8	89.0	%	5030/8260	82-116	04/28	04/28	KS

**General Chemistry**

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM  
 1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Page: Page 5 of 5  
 Date: 04/29/97  
 Log #: L18137-9

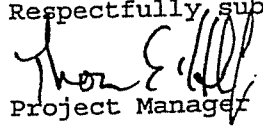
Sample Description:  
 Groundwater Analysis  
 Terra

Label: EQUIP BLANK  
 Date Sampled: 04/17/97  
 Time Sampled: 19:21  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analysis
<b>General Chemistry (continued)</b>							
Turbidity	BDL	NTU	180.1	0.10	04/18	04/18	SC

BDL = Below Detection Limits  
 \* Compounds are Screened Only, with an estimated detection limit.  
 All analyses were performed using EPA, ASTM, USGS, or Standard Methods.  
 All analyses were performed within EPA holding times unless otherwise noted.  
 Analyses are reported in dry weight unless otherwise indicated by units.

QAP# 900376G	HRS# E86240,86356	NC CERT# 444
SUB HRS# 86122,86109,E86048	ADEM ID# 40850	ND CERT# R-148
SC CERT# 96031	TN CERT# 02985	CT CERT# PH-0122
ELPAT# 13801	CA CERT# I-1068	USACE CERT
VA CERT# 00395	AZ CERT# AZ0529	MA CERT# M-FL449

Respectfully submitted,  
  
 Project Manager  
 L18137-9



Client #: TAM-94-120302  
Address: Atlanta Testing & Eng. TAM

Page: Page 1 of 4  
Date: 04/29/97  
Log #: L18137-7

1211 Tech Blvd., Ste 200  
Tampa, FL 33619  
Attn: Mike Schackne

Sample Description:  
Groundwater Analysis  
Terra

Label: SW-1  
Date Sampled: 04/17/97  
Time Sampled: 14:55  
Date Received: 04/18/97  
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analys
<b>Semivolatile Organic Compounds</b>							
Hexachloroethane	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Pyridine	BDL	ug/l	3510/8270	20	04/21	04/25	GM
N-Nitrosodimethylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Nitrobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Aniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Isophorone	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Nitrophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Phenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dimethyl Phenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroethyl) Ether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Chlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroethoxy) Methane	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,3-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzoic Acid	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,4-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
N-Nitrosodiethylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzyl alcohol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2,4-Trichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Naphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chloroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroisopropyl) Ethe	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorobutadiene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
N-Nitrosodi-n-propylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chloro-3-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3&4-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1-Methylnaphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Methylnaphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 2 of 4  
 Date: 04/29/97  
 Log #: L18137-7

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
 Terra

Label: SW-1  
 Date Sampled: 04/17/97  
 Time Sampled: 14:55  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analyst
<b>Semi-volatile Organic Compounds (continued)</b>							
Hexachlorocyclopentadiene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4,6-Trichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4,5-Trichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Chloronaphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dimethylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,6-Dinitrotoluene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Acenaphthylene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Acenaphthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dibenzofuran	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dinitrotoluene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dinitrophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
4-Nitrophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
Diethylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Fluorene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chlorophenyl-phenylether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,6-Dinitro-2-Methylphenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
N-Nitrosodiphenylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Azobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Bromophenyl-phenylether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Pentachlorophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
Phenanthrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Di-n-butylphthalate	66	ug/l	3510/8270	10	04/21	04/25	GM
Fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benidine	BDL	ug/l	3510/8270	80	04/21	04/25	GM
Pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Butylbenzylphthalate	21	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (a) anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,3'-Dichlorobenzidine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Chrysene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,2-Diphenylhydrazine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Ethylhexyl) Phthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Di-n-octyl phthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (b) fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (k) fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (a) pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM

Client #: TAM-94-120302  
Address: Atlanta Testing & Eng. TAM

Page: Page 3 of 4  
Date: 04/29/97  
Log #: L18137-7

1211 Tech Blvd., Ste 200  
Tampa, FL 33619  
Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
Terra

Label: SW-1  
Date Sampled: 04/17/97  
Time Sampled: 14:55  
Date Received: 04/18/97  
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analysis
<b>Semivolatile Organic Compounds (continued)</b>							
Indeno (1,2,3-c,d) pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dibenzo (a,h) Anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (g,h,i) perylene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dilution Factor	1.0		3510/8270		04/21	04/25	GM
<b>Surrogate Recoveries:</b>							
2-Fluorophenol	40.0	%	3510/8270	21-100	04/21	04/25	GM
Phenol-d5	30.0	%	3510/8270	10-94	04/21	04/25	GM
Nitrobenzene-d5	74.0	%	3510/8270	35-114	04/21	04/25	GM
2-Fluorobiphenyl	86.0	%	3510/8270	43-111	04/21	04/25	GM
2,4,6-Tribromophenol	83.0	%	3510/8270	10-123	04/21	04/25	GM
Terphenyl-d14	96.0	%	3510/8270	33-141	04/21	04/25	GM
<b>Volatile Organic Compounds</b>							
Dichlorodifluoromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethanol	BDL	ug/l	5030/8260	1000	04/28	04/28	KS
Chloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Vinyl Chloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromomethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Chloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trichlorofluoromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acrolein	BDL	ug/l	5030/8260	5.0	04/28	04/28	KS
1,1-Dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acetone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Iodomethane	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Carbon Disulfide	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Methylene Chloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acrylonitrile	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Trans-1,2-dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1-Dichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Vinyl Acetate	BDL	ug/l	5030/8260	50	04/28	04/28	KS
2-Butanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Chloroform	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1,1-Trichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Carbon Tetrachloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Benzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dichloropropane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Dibromomethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromodichloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS

Client #: TAM-94-120302  
Address: Atlanta Testing & Eng. TAM

Page: Page 4 of 4  
Date: 04/29/97  
Log #: L18137-7

1211 Tech Blvd., Ste 200  
Tampa, FL 33619  
Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
Terra

Label: SW-1  
Date Sampled: 04/17/97  
Time Sampled: 14:55  
Date Received: 04/18/97  
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analysis
Volatile Organic Compounds (continued)							
2-Chloroethylvinyl Ether	BDL	ug/l	5030/8260	10	04/28	04/28	KS
Cis-1,3-Dichloropropene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
4-Methyl-2-pentanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Toluene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trans-1,3-Dichloropropene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethyl Methacrylate	BDL	ug/l	5030/8260	50	04/28	04/28	KS
1,1,2-Trichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
2-Hexanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Dibromochloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Chlorobenzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethylbenzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Total Xylenes	BDL	ug/l	5030/8260	3.0	04/28	04/28	KS
Styrene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromoform	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Cis-1,4-dichloro-2-butene	BDL	ug/l	5030/8260	50	04/28	04/28	KS
1,1,2,2-Tetrachloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2,3-Trichloropropane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trans-1,4-dichloro-2-butene	BDL	ug/l	5030/8260	50	04/28	04/28	KS
MTBE	BDL	ug/l	5030/8260	50	04/28	04/28	KS
1,1,1,2-Tetrachloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Cis-1,2-Dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Tetrachloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dibromoethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Dilution Factor	1.0		5030/8260		04/28	04/28	KS
Surrogate Recoveries:							
4-Bromofluorobenzene	95.0	%	5030/8260	82-119	04/28	04/28	KS
Dibromofluoromethane	119	%	5030/8260	75-112	04/28	04/28	KS
Toluene-D8	83.0	%	5030/8260	82-116	04/28	04/28	KS

BDL = Below Detection Limits

\* Compounds are Screened Only, with an estimated detection limit.

All analyses were performed using EPA, ASTM, USGS, or Standard Methods.

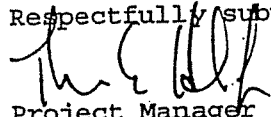
All analyses were performed within EPA holding times unless otherwise noted.

Analyses are reported in dry weight unless otherwise indicated by units.

QAP# 900376G  
SUB HRS# 86122,86109,866048  
SC CERT# 96031  
BLPAT# 13801  
VA CERT# 00395

HRS# E86240,86356  
ADEM ID# 40850  
TN CERT# 02985  
CA CERT# I-1068  
AZ CERT# AZ0529

NC CERT# 444  
ND CERT# R-148  
CT CERT# PH-0122  
USACE CERT  
MA CERT# M-FL449

Respectfully submitted,  
  
Project Manager  
L18137-7

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 1 of 4  
 Date: 04/29/97  
 Log #: L18137-8

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
 Terra

Label: SW-2  
 Date Sampled: 04/17/97  
 Time Sampled: 15:10  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analyst
<b>Semivolatile Organic Compounds</b>							
Hexachloroethane	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Pyridine	BDL	ug/l	3510/8270	20	04/21	04/25	GM
N-Nitrosodimethylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Nitrobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Aniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Isophorone	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Nitrophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Phenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dimethyl Phenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroethyl) Ether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Chlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroethoxy) Methane	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,3-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzoic Acid	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,4-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
N-Nitrosodiethylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzyl alcohol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2,4-Trichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2-Dichlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Naphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chloroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Chloroisopropyl) Ethe	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorobutadiene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
N-Nitrosodi-n-propylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chloro-3-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3&4-Methylphenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1-Methylnaphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Methylnaphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 2 of 4  
 Date: 04/29/97  
 Log #: L18137-8

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:  
 Groundwater Analysis  
 Terra

Label: SW-2  
 Date Sampled: 04/17/97  
 Time Sampled: 15:10  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analyst
Semivolatile Organic Compounds (continued)							
Hexachlorocyclopentadiene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4,6-Trichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4,5-Trichlorophenol	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Chloronaphthalene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dimethylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,6-Dinitrotoluene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Acenaphthylene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
3-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Acenaphthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2-Benzofuran	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dinitrotoluene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,4-Dinitrophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
4-Nitrophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
Diethylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Fluorene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Chlorophenyl-phenylether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Nitroaniline	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,6-Dinitro-2-Methylphenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
N-Nitrosodiphenylamine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
1,2-Dibenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
4-Bromophenyl-phenylether	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Hexachlorobenzene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Pentachlorophenol	BDL	ug/l	3510/8270	50	04/21	04/25	GM
Phenanthrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Di-n-butylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzenidine	BDL	ug/l	3510/8270	80	04/21	04/25	GM
Pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Butylbenzylphthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo(a)anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,3'-Dichlorobenzidine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Chrysene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
2,2-Diphenylhydrazine	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Bis(2-Ethylhexyl) Phthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Di-n-octyl phthalate	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo(b)fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo(k)fluoranthene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo(a)pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 3 of 4  
 Date: 04/29/97  
 Log #: L18137-8

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
 Terra

Label: SW-2  
 Date Sampled: 04/17/97  
 Time Sampled: 15:10  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analysis
<b>Semivolatile Organic Compounds (continued)</b>							
Indeno (1,2,3-c,d)pyrene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dibenzo (a,h)Anthracene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Benzo (g,h,i)perylene	BDL	ug/l	3510/8270	10	04/21	04/25	GM
Dilution Factor	1.0		3510/8270		04/21	04/25	GM
<b>Surrogate Recoveries:</b>							
2-Fluorophenol	46.0	%	3510/8270	21-100	04/21	04/25	GM
Phenol-d5	31.0	%	3510/8270	10-94	04/21	04/25	GM
Nitrobenzene-d5	75.0	%	3510/8270	35-114	04/21	04/25	GM
2-Fluorobiphenyl	87.0	%	3510/8270	43-111	04/21	04/25	GM
2,4,6-Tribromophenol	96.0	%	3510/8270	10-123	04/21	04/25	GM
Terphenyl-d14	94.0	%	3510/8270	33-141	04/21	04/25	GM
<b>Volatile Organic Compounds</b>							
Dichlorodifluoromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethanol	BDL	ug/l	5030/8260	1000	04/28	04/28	KS
Chloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Vinyl Chloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromomethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Chloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trichlorofluoromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acrolein	BDL	ug/l	5030/8260	5.0	04/28	04/28	KS
1,1-Dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acetone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Iodomethane	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Carbon Disulfide	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Methylene Chloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Acrylonitrile	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Trans-1,2-dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1-Dichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Vinyl Acetate	BDL	ug/l	5030/8260	50	04/28	04/28	KS
2-Butanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Chloroform	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,1,1-Trichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Carbon Tetrachloride	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Benzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dichloropropane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Dibromomethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromodichloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS

Client #: TAM-94-120302  
 Address: Atlanta Testing & Eng. TAM

Page: Page 4 of 4  
 Date: 04/29/97  
 Log #: L18137-8

1211 Tech Blvd., Ste 200  
 Tampa, FL 33619  
 Attn: Mike Schackne

Sample Description:

Groundwater Analysis  
 Terra

Label: SW-2  
 Date Sampled: 04/17/97  
 Time Sampled: 15:10  
 Date Received: 04/18/97  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Analysis Date	Analyst
<b>Volatile Organic Compounds (continued)</b>							
2-Chloroethylvinyl Ether	BDL	ug/l	5030/8260	10	04/28	04/28	KS
Cis-1,3-Dichloropropene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
4-Methyl-2-pentanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Toluene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trans-1,3-Dichloropropene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethyl Methacrylate	BDL	ug/l	5030/8260	50	04/28	04/28	KS
1,1,2-Trichloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
2-Hexanone	BDL	ug/l	5030/8260	50	04/28	04/28	KS
Dibromochloromethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Chlorobenzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Ethylbenzene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Total Xylenes	BDL	ug/l	5030/8260	3.0	04/28	04/28	KS
Styrene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Bromoform	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Cis-1,4-dichloro-2-butene	BDL	ug/l	5030/8260	50	04/28	04/28	KS
1,1,2,2-Tetrachloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2,3-Trichloropropane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Trans-1,4-dichloro-2-butene	BDL	ug/l	5030/8260	50	04/28	04/28	KS
MTBE	BDL	ug/l	5030/8260	50	04/28	04/28	KS
1,1,1,2-Tetrachloroethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Cis-1,2-Dichloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Tetrachloroethene	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
1,2-Dibromoethane	BDL	ug/l	5030/8260	1.0	04/28	04/28	KS
Dilution Factor	1.0		5030/8260		04/28	04/28	KS
<b>Surrogate Recoveries:</b>							
4-Bromofluorobenzene	92.0	%	5030/8260	82-119	04/28	04/28	KS
Dibromofluoromethane	138	%	5030/8260	75-112	04/28	04/28	KS
Toluene-D8	88.0	%	5030/8260	82-116	04/28	04/28	KS

BDL = Below Detection Limits

\* Compounds are Screened Only, with an estimated detection limit.

All analyses were performed using EPA, ASTM, USGS, or Standard Methods.

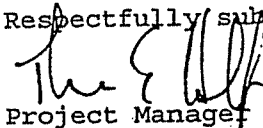
All analyses were performed within EPA holding times unless otherwise noted.

Analyses are reported in dry weight unless otherwise indicated by units.

JAP# 900376G  
 SUB HRS# 86122,86109,886048  
 BC CERT# 96031  
 ELPAT# 13801  
 JA CERT# 00395

HRS# E86240,86356  
 ADEM ID# 40850  
 TN CERT# 02985  
 CA CERT# I-1068  
 AZ CERT# AZ0529

NC CERT# 444  
 ND CERT# R-148  
 CT CERT# PH-0122  
 USACE CERT  
 MA CERT# M-FL449

Respectfully submitted,  
  
 Project Manager  
 L18137-8



Chain of Custody Record

LAB USE ONLY

V.O.C. LUY # 10121

Note - short hold on Turbidity Q1234

Login L #

V.O.C. Analytical Laboratories

BAR CODE

Company Name		Address		City		State		Zip		Attn:		Project Name / Number		Sampler Name / Signature	
AT & E		1211 TECH BLVD		TAMPA		FL				Mike Schaback		Thomas L. Shaw / Thomas L. Shaw			
#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code	Matrix # of Cont	Sample	pH	Temp	Pres Code	Field Filtered (Y/N)	Integrity OK (Y/N)	Comments			
1	TMW-4	4/17/97	16:06	GW	8	8240	BT	BT	BT			Hold Filtered			
2	TMW-3	4/17/97	17:46	GW	8	8270	BT	BT	BT			samples pending receipt of total metals results			
3	TMW-6	4/17/97	18:21	GW	8	8240	BT	BT	BT			Contact M. Schaback for analysis			
4	TMW-2	4/17/97	18:40	GW	8		BT	BT	BT			deadline			
5	TMW-1	4/17/97	19:25	GW	8		BT	BT	BT			No Trip Blank			
6	TMW-5	4/17/97	19:32	GW	8		BT	BT	BT						
7	SW-1	4/17/97	14:55	SW	5		BT	BT	BT						
8	SW-2	4/17/97	15:10	SW	5		BT	BT	BT						
9	Epp Blank	4/17/97	19:21	AFW	8		BT	BT	BT						
10	5 Trip Blank	NA	NA	AFW	5		BT	BT	BT						

C.O.C. # 004804

V.O.C. Analytical Laboratories  
3231 N.W. 7th Avenue • Boca Raton, FL 33431

Standard