



## **Summary of Activities From February 1 through February 28, 2001**

- ALDOT submitted a Work Plan for Rapid Response, Interim Corrective Measures and Comprehensive Site Assessment on February 9, 2001. The Work Plan included an approach to focus investigations on areas of potential exposure (i.e. the East Coliseum Ditch Area), and areas of elevated concentrations of trichloroethylene (TCE) in ground water. The Work Plan also included an expanded Community Relations Plan.
- Completed construction of the temporary fence around the East Coliseum Boulevard Ditch Area to eliminate casual and unintentional entry into the ditch where small concentrations of TCE have been detected. The fence is an 8-foot high chain-link fence.
- Completed field work to evaluate geology and concentrations of Volatile Organic Compounds (VOCs) in soil and ground water in Eastern Meadows, east of Coliseum Boulevard, and immediately north of Northern Boulevard. Completed 15 probeholes using the Membrane Interface Probe (MIP). Collected 51 soil samples and 31 ground-water samples using a Geoprobe. A report of the field work completed in January and February 2001 will be submitted to ADEM by March 30, 2001.
- Installed nine piezometers (west of Coliseum Boulevard and along the open concrete-lined part of the ditch east of Coliseum Boulevard) for measurements of ground-water elevations. Ground-water elevations were measured on February 27, 2001. Ground water elevations will continue to be measured bi-monthly until a remedy is selected for the ditch.
- Collected 5 samples of sediment along the ditch east of Coliseum Boulevard. Results of the sediment samples are summarized in Table 1. Samples of sediment were collected from the concrete lined ditch east of Coliseum Boulevard on February 7, 2001. One grab sample was collected at 100 feet intervals with sample # 1 being closest to Coliseum Boulevard and sample # 5 being just before the "T" intersection. The sediment was retrieved using a hand auger. Samples were placed in glass jars, immediately placed on ice, and shipped to TTL's laboratory in Tuscaloosa for analyses for VOCs.
- Completed field survey (plan, profile, and cross-sections) of the existing ditch that extends from the ALDOT property, north through Eastern Meadows and northeastward to the Northern Boulevard.
- Surveyed locations of probeholes completed in January, 2001 and probeholes and piezometers completed in February, 2001.
- Collected water samples from 4 locations along the ditch on February 27, 2001. Results of the analyses of the water samples from the ditch are summarized in Table 2. Locations of the samples are shown on Figure 1.

## **TABLES**

**Table 1. Results of sediment samples from East Coliseum Ditch Area**

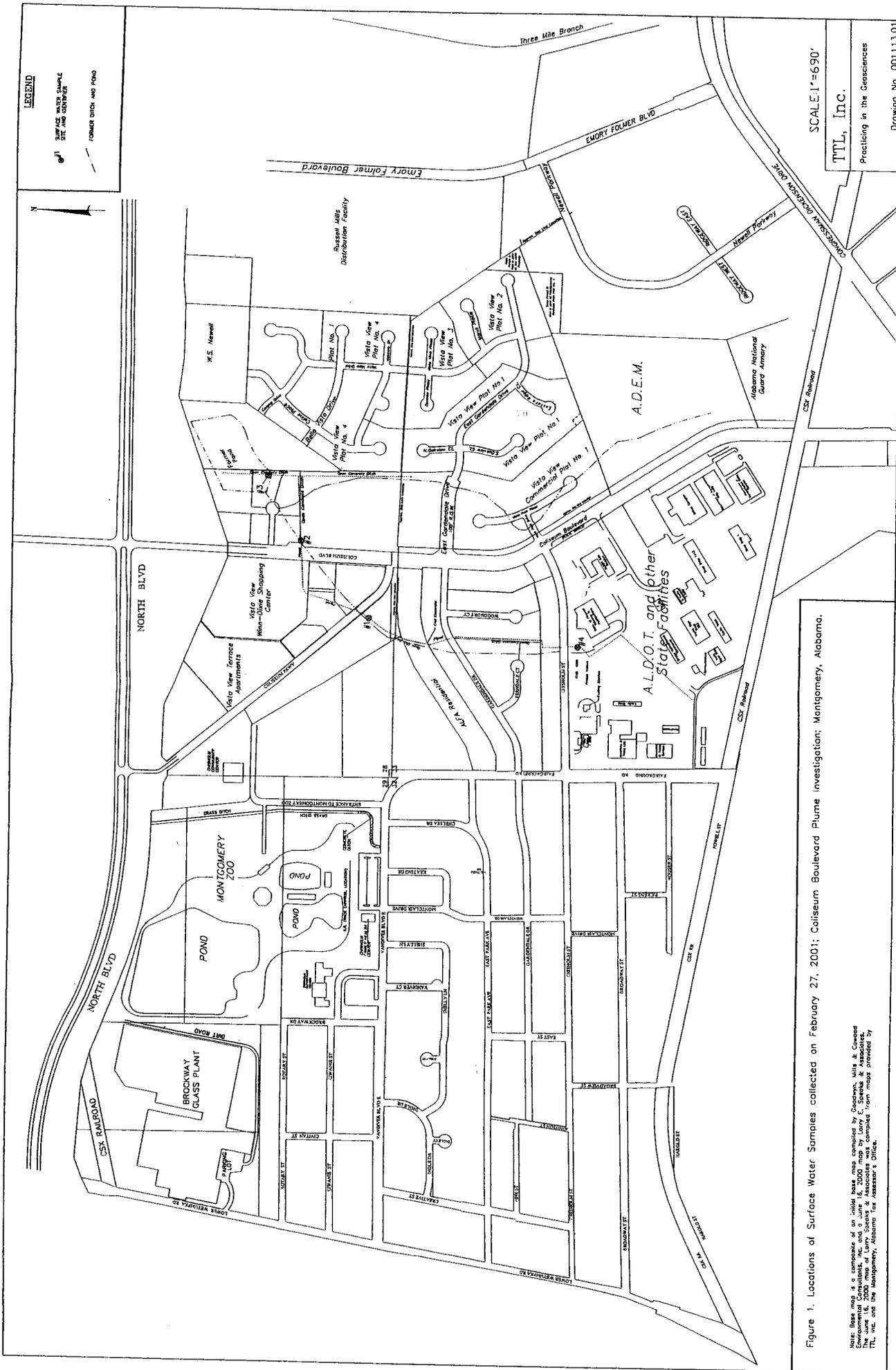
VOC Constituents Detected	Region III RBC Residential Soil <sup>1</sup> ( $\mu\text{g}/\text{kg}$ )	Ditch Sediment Samples				
		1	2	3	4	5
Trichloroethylene	58,000	19.4	<3.0	28.4	<3.0	<3.0
cis - 1,2 - Dichloroethene	780,000	4.1	8.9	12.3	12.4	<3.0
Vinyl Chloride	430	<3.0	4.5	<3.0	12.1	<3.0
Toluene	16,000,000	16.4	<3.0	<3.0	12.9	<3.0
Ethyl Benzene	7,800,000	<3.0	<3.0	<3.0	4.0	<3.0

<sup>1</sup> From Risk Based Concentration Table Region III, Environmental Protection Agency.

**Table 2. Results of analyses of surface water samples collected from ditch near Coliseum Boulevard, Montgomery Alabama. [ Locations of surface water sample sites are shown on Figure 1. ]**

	Site 1	Site 2	Site 3	Site 4
<b>Concentrations are expressed in micrograms/liter</b>				
<b>July 24, 2000</b>	(No storm events several days prior to sampling)			
Trichloroethylene	NS	15.0	10.2	NS
Toluene	NS	13.4	<1.0	NS
Chloroform	NS	3.2	<1.0	NS
cis, 1,2-Dichloroethene	NS	2.5	2.8	NS
<b>August 2, 2000</b>	(storm event during sampling)			
Trichloroethylene	<1.0	<1.0	<1.0	NS
<b>August 11, 2000</b>	(storm event prior evening - August 10, 2000)			
Trichloroethylene	<1.0	<1.0	2.1	<1.0
Toluene	<1.0	1.1	<1.0	<1.0
<b>September 18, 2000</b>				
Chloroform	NS	41.6	10.3	NS
Trichloroethylene	NS	<1.0	2.1	NS
Bromodichloromethane	NS	6.2	1.8	NS
Dibromochloromethane	NS	1.5	<1.0	NS
<b>November 9, 2000</b>	(storm event during sampling)			
Trichloroethylene	<1.0	<1.0	<1.0	<1.0
<b>December 15, 2000</b>				
Trichloroethylene	<1.0	<1.0	8.1	<1.0
Toluene	<1.0	2.5	<1.0	<1.0
<b>January 31, 2001</b>				
Chloroform	<1.0	1.3	<1.0	<1.0
Trichloroethylene	<1.0	34.5	17.4	<1.0
<b>February 27, 2001</b>				
1,1 - Dichloroethene	<1.0	1.1	<1.0	<1.0
cis, 1,2-Dichloroethene	<1.0	1.5	1.4	<1.0
Chloroform	<1.0	1.2	<1.0	<1.0
Trichloroethylene	<1.0	100	21.1	<1.0

**FIGURE**



**LEGEND**

- ① SURFACE WATER SAMPLE SITE AND CONTAINER
- - - FORMER DITCH AND POND



SCALE: 1" = 690'

TTL, Inc.

Practicing in the Geosciences

Drawing No. 001113.01

Figure 1. Locations of Surface Water Samples collected on February 27, 2001; Coliseum Boulevard Plume Investigation; Montgomery, Alabama.

Note: Base map is a composite of an initial base map compiled by Caddwell, Mills & Coe and the June 16, 2000 map of Lunny, Sparks & Associates. The map data was provided by TTL, Inc. and the Montgomery, Alabama Tax Assessor's Office.