JUNE STATUS REPORT

COLISEUM BOULEVARD PLUME INVESTIGATION

DEPARTMENT OF TRANSPORTATION

July 25, 2001

Submitted to:
The Alabama Department of Environmental Management
Montgomery, Alabama

Prepared by:
TTL, Inc.
4154 Lomac Street

ALABAMA
DEPARTMENT OF TRANSPORTATION

June Status Report

Coliseum Boulevard Plume Investigation

June Status Report

- June 1, 2001 - measured water levels in monitoring wells and piezometers along main and west branches of Kilby ditch.
- June 7, 2001 - collected shallow and deep ground-water samples from monitoring well MW103S. The ground-water samples were analyzed for volatile organic compounds (VOCs). Collected surface water sample (identified as SW-14) from a culvert at the west end of the west branch of Kilby ditch immediately east of Coliseum Boulevard for analyses for VOCs.
- June 11-12, 2001 - conducted slug and bail tests at monitoring wells MW101S, MW101D, MW102S, MW102D, MW103S and MW103D.
- June 14, 2001 - measured water levels in all monitoring wells and piezometers associated with the Coliseum Boulevard Plume Investigation.
- June 21, 2001 - surface water samples collected along the main and west branches of Kilby ditch and tributaries of Three Mile Branch (see Figures 1 and 2). The samples were analyzed for VOCs (see Table 1).
- June 26, 2001 - measured water levels in monitoring wells and piezometers along main and west branches of Kilby ditch.

Table 1. Results of analyses[1] of surface-water samples; Coliseum Boulevard Plume Investigation, Montgomery Alabama. [Locations of surface-water sample sites are shown on Figures 1 and 2.]

	SAMPLE SITE													
	SW-1*	SW-2*	SW-3**	SW-4*	SW-5*	SW-6**	SW-7**	SW-8**	SW-9**	SW-10**	SW-11**	SW-12	SW-13	SW-14
	Concentrations are expressed in micrograms/liter													
July 24, 2000 (No storm events several days prior to sampling)														
Trichloroethylene	NS	15	10.2	NS	----	----	----	----	----	----	----	----	----	----
cis, 1,2-Dichloroethene	NS	2.5	2.8	NS	----	----	----	----	----	----	----	----	----	----
Toluene	NS	13.4	<1.0	NS	----	----	----	----	----	----	----	----	----	----
Chloroform	NS	3.2	<1.0	NS	----	----	----	----	----	----	----	----	----	----
August 2, 2000 (Storm event during sampling)														
Trichloroethylene	<1.0	<1.0	<1.0	NS	----	----	----	----	----	----	----	----	----	----
August 11, 2000 (Storm event prior evening - August 10, 2000)														
Trichloroethylene	<1.0	<1.0	2.1	<1.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	----
Toluene	<1.0	1.1	<1.0	<1.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	----
September 18, 2000														
Trichloroethylene	NS	<1.0	2.1	NS	----	----	----	----	----	----	----	----	----	----
Bromodichloromethane	NS	6.2	1.8	NS	----	----	----	----	----	----	----	----	----	----
Dibromochloromethane	NS	1.5	<1.0	NS	----	----	----	----	----	----	----	----	----	----
Chloroform	NS	41.6	10.3	NS	----	----	----	----	----	----	----	----	----	----
November 9, 2000 (Storm event during sampling)														
Trichloroethylene	<1.0	<1.0	<1.0	<1.0	----	----	----	----	----	----	----	----	----	----
December 15, 2000														
Trichloroethylene	<1.0	<1.0	8.1	<1.0	----	----	----	----	----	----	----	----	----	----
Toluene	<1.0	2.5	<1.0	<1.0	----	----	----	----	----	----	----	----	----	----
January 31, 2001														
Trichloroethylene	<1.0	34.5	17.4	<1.0	----	----	----	----	----	----	----	----	----	----
Chloroform	<1.0	1.3	<1.0	<1.0	----	----	----	----	----	----	----	----	----	----
February 27, 2001														
Trichloroethylene	<1.0	100	21.1	<1.0	----	----	----	----	----	----	----	----	----	----
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	----	----	----	----	----	----	----	----	----	----
March 30, 2001														
Trichloroethylene	<1.0	156	68.0	<1.0	157	<1.0	<1.0	51.9	33.8	19.7	18.3	<1.0	3.4	----
1,1 - Dichloroethene	<1.0	2.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	----
cis, 1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	----
April 26, 2001														
Trichloroethylene	<1.0	156	66.6	NS	88.8	NS	NS	46.4	21.9	16.7	15.7	1.8	<1.0	----
1,1 - Dichloroethene	<1.0	2.0	<1.0	NS	1.0	NS	NS	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	----
cis, 1,2-Dichloroethene	<1.0	<1.0	<1.0	NS	<1.0	NS	NS	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	----
May 25, 2001														
Trichloroethylene	<1.0	140	24.3	<1.0	95.5	<1.0	<1.0	23.8	31.6	21.7	21.3	1.4	<1.0	----
1,1 - Dichloroethene	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	----
cis, 1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	----
June 7, 2001														
Trichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	21.4
June 21, 2001														
Trichloroethylene	<1.0	118	39.6	<1.0	87.9	<1.0	<1.0	19.4	15.6	9.8	10.5	1.1	<1.0	14.8
1,1 - Dichloroethene	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis, 1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	3.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	<1.0

[1] Testing of the samples was in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846, Third Edition, November, 1986.

* West Kilby ditch

** Main Kilby ditch

NS = Not sampled (sample site was "dry").

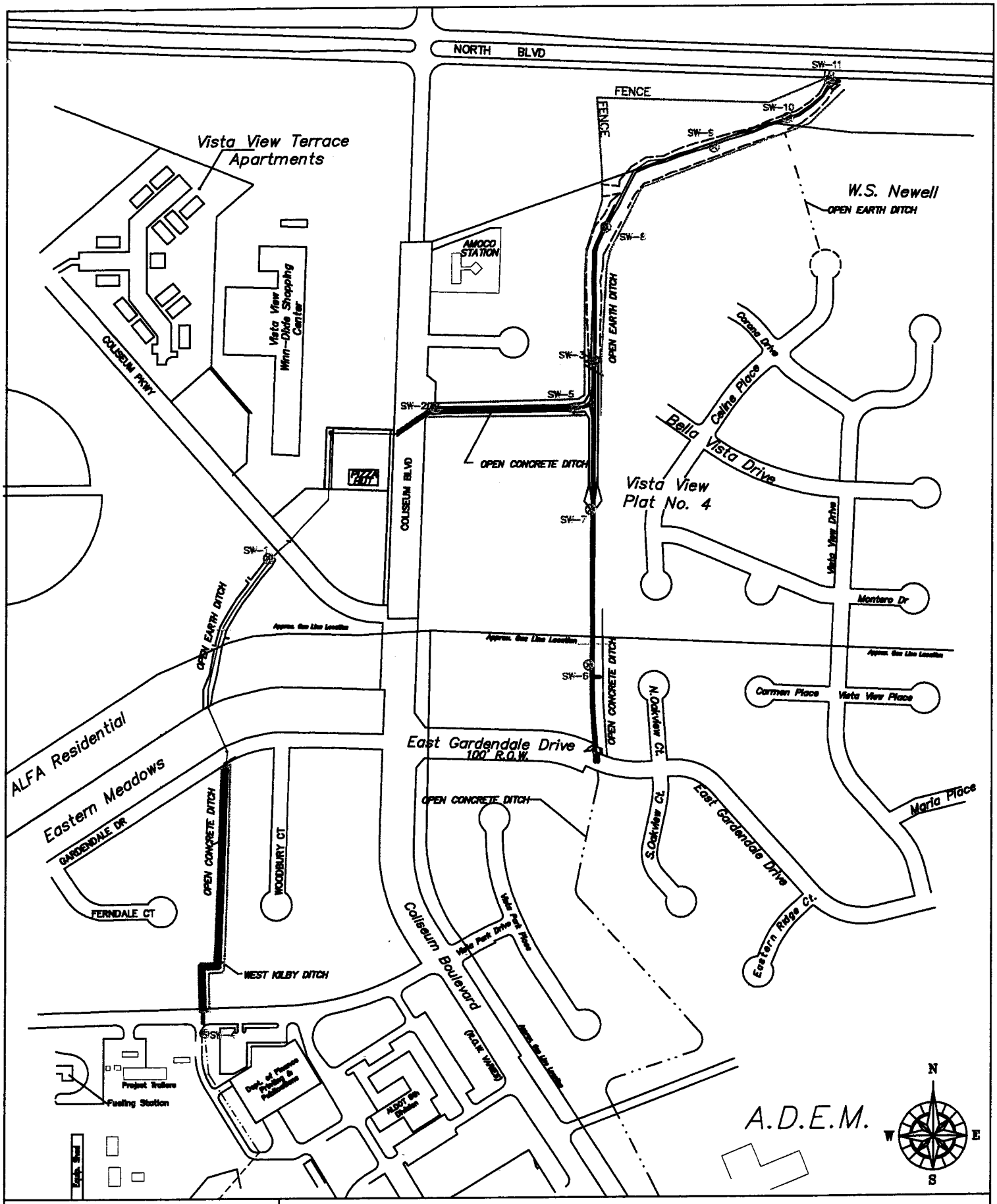

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Figure 1. Locations of Surface Water Samples 1 thru 11; Coliseum Boulevard Plume Investigation; Montgomery, Alabama.

LEGEND:

SW-1 SURFACE WATER SAMPLE

Note: Base map is a composite of an initial base map compiled by Goodwyn, Mills & Cawood Environmental Consultants, Inc. and a June 16, 2000 map by Larry E. Speaks & Associates. The June 16, 2000 map of Larry Speaks & Associates was compiled from maps provided by TTL, Inc. and the Montgomery, Alabama Tax Assessor's Office.

SCALE (FEET)

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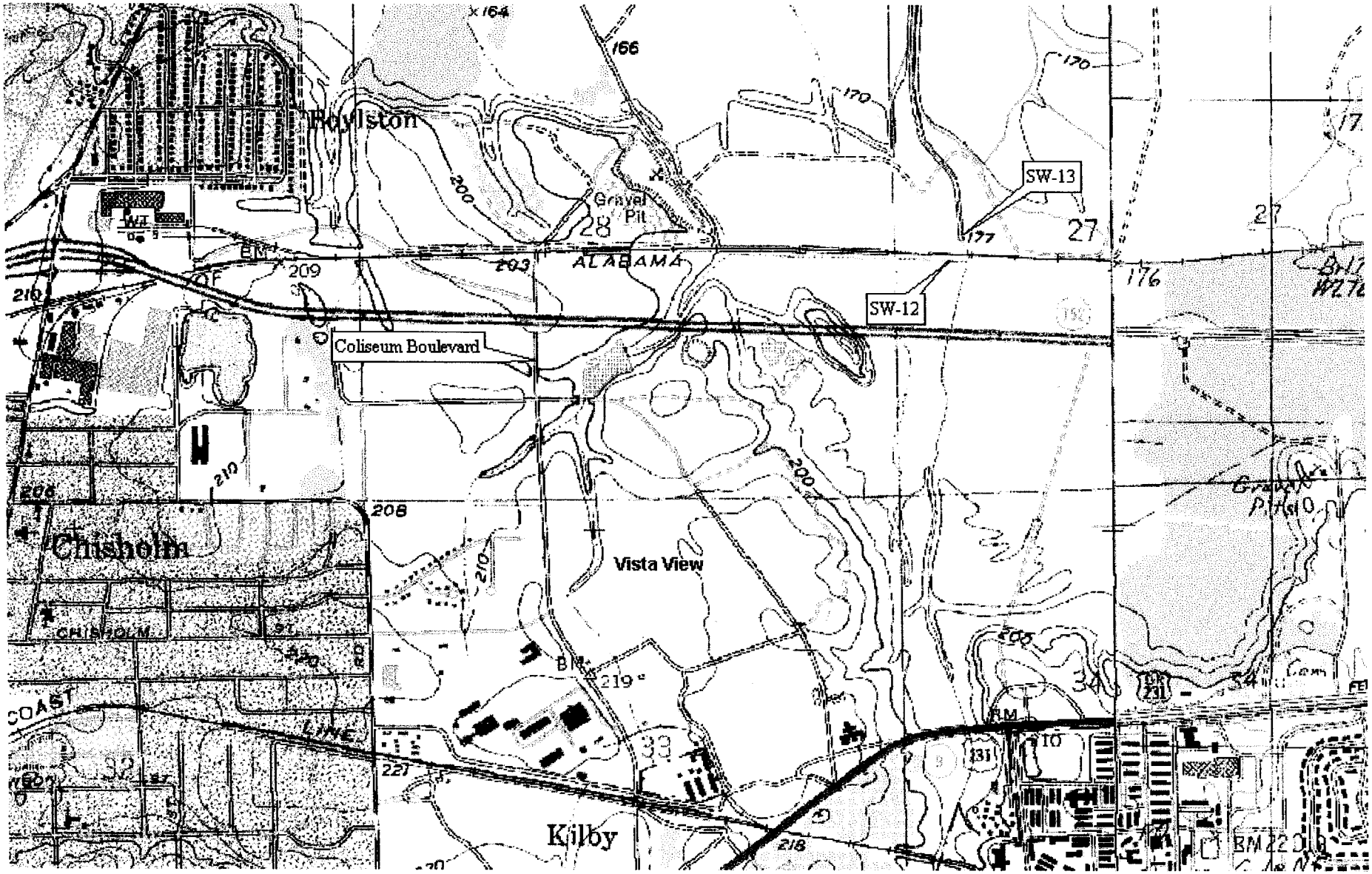

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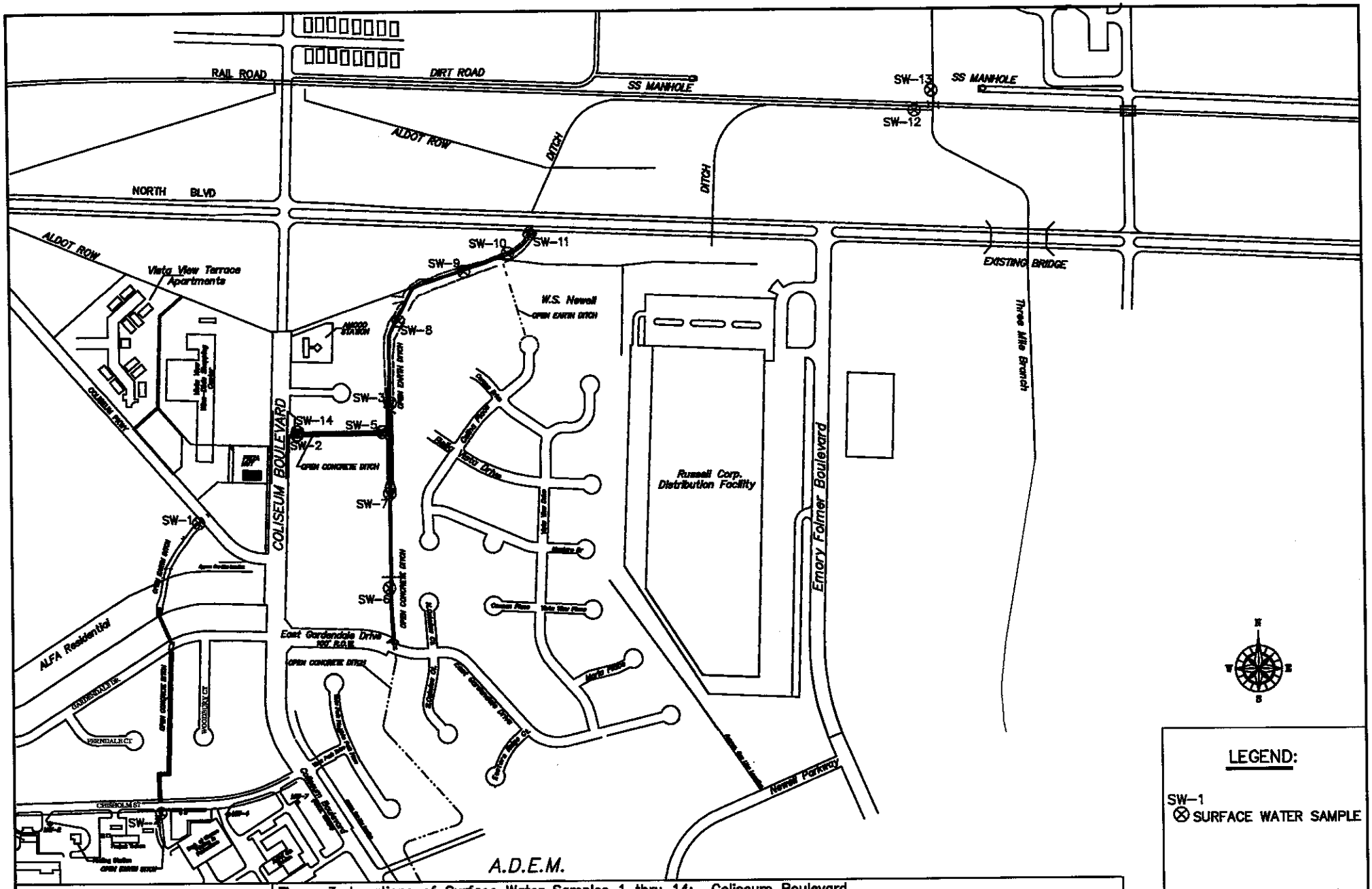
Figure 2. Locations of Surface Water Samples 12 and 13.
Coliseum Boulevard Plume Investigation; Montgomery, Alabama. Scale 1:24,000



LEGEND:

SW-1
⊗ SURFACE WATER SAMPLE

SCALE:1"=700'

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Figure 3. Locations of Surface Water Samples 1 thru 14; Coliseum Boulevard Plume Investigation; Montgomery, Alabama.

Drawing No. 010725

Note: Base map is a composite of an initial base map compiled by Goodwyn, Mills & Cawood Environmental Consultants, Inc. and a June 16, 2000 map by Larry E. Speaks & Associates. The June 16, 2000 map of Larry Speaks & Associates was compiled from maps provided by TTL, Inc. and the Montgomery, Alabama Tax Assessor's Office.

TTL, Inc. PRACTICING IN THE GEOSCIENCES

3516 Greensboro Avenue • P.O. Drawer 1128 • Tuscaloosa, Alabama 35403 • Telephone 205-345-0816 • FAX 205-345-0992

Client:	Maynard, Cooper & Gale
Sample Date:	June 21, 2001
Date Analyzed:	June 25, 2001
Analyzed By:	TTL Personnel (VJB)
Sampled Type:	Aqueous
Sampled By:	TTL Personnel (WGM)
Sample Site:	Surface Water Sites
Sample ID:	SW-1
TTL Lab Number:	010622.85
TTL Job Number:	0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	CONCENTRATION, µg/L	MDL, µg/L
Chloromethane	<1.0	1.0
Vinyl Chloride	<1.0	1.0
Chloroethane	<1.0	1.0
Trichlorofluoromethane	<1.0	1.0
1,1-Dichloroethene	<1.0	1.0
Methylene Chloride	<1.0	1.0
trans-1,2-Dichloroethene	<1.0	1.0
1,1-Dichloroethane	<1.0	1.0
cis-1,2-Dichloroethene	<1.0	1.0
Chloroform	<1.0	1.0
1,1,1-Trichloroethane	<1.0	1.0
Carbon Tetrachloride	<1.0	1.0
Benzene	<1.0	1.0
1,2-Dichloroethane	<1.0	1.0
Trichloroethylene	<1.0	1.0
1,2-Dichloropropane	<1.0	1.0
Bromodichloromethane	<1.0	1.0
cis-1,3-Dichloropropene	<1.0	1.0
Toluene	<1.0	1.0
trans-1,3-Dichloropropene	<1.0	1.0
1,1,2-Trichloroethane	<1.0	1.0
Tetrachloroethylene	<1.0	1.0
Dibromochloromethane	<1.0	1.0
Chlorobenzene	<1.0	1.0
1,1,1,2-Tetrachloroethane	<1.0	1.0
Ethylbenzene	<1.0	1.0
M,P-Xylenes	<1.0	1.0
O-Xylene	<1.0	1.0
Bromoform	<1.0	1.0
1,1,2,2-Tetrachloroethane	<1.0	1.0
1,3-Dichlorobenzene	<1.0	1.0
1,4-Dichlorobenzene	<1.0	1.0
1,2-Dichlorobenzene	<1.0	1.0

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

V. Jesse Burns, Chemist

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Client:	Maynard, Cooper & Gale
Sample Date:	June 21, 2001
Date Analyzed:	June 25, 2001
Analyzed By:	TTL Personnel (VJB)
Sampled Type:	Aqueous
Sampled By:	TTL Personnel (WGM)
Sample Site:	Surface Water Sites
Sample ID:	SW-2
TTL Lab Number:	010622.86
TTL Job Number:	0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	CONCENTRATION, µg/L	MDL, µg/L
Chloromethane	<1.0	1.0
Vinyl Chloride	<1.0	1.0
Chloroethane	<1.0	1.0
Trichlorofluoromethane	<1.0	1.0
1,1-Dichloroethene	1.2	1.0
Methylene Chloride	<1.0	1.0
trans-1,2-Dichloroethene	<1.0	1.0
1,1-Dichloroethane	<1.0	1.0
cis-1,2-Dichloroethene	<1.0	1.0
Chloroform	3.4	1.0
1,1,1-Trichloroethane	<1.0	1.0
Carbon Tetrachloride	<1.0	1.0
Benzene	<1.0	1.0
1,2-Dichloroethane	<1.0	1.0
Trichloroethylene	118	1.0
1,2-Dichloropropane	<1.0	1.0
Bromodichloromethane	<1.0	1.0
cis-1,3-Dichloropropene	<1.0	1.0
Toluene	<1.0	1.0
trans-1,3-Dichloropropene	<1.0	1.0
1,1,2-Trichloroethane	<1.0	1.0
Tetrachloroethylene	<1.0	1.0
Dibromochloromethane	<1.0	1.0
Chlorobenzene	<1.0	1.0
1,1,1,2-Tetrachloroethane	<1.0	1.0
Ethylbenzene	<1.0	1.0
M,P-Xylenes	<1.0	1.0
O-Xylene	<1.0	1.0
Bromoform	<1.0	1.0
1,1,2,2-Tetrachloroethane	<1.0	1.0
1,3-Dichlorobenzene	<1.0	1.0
1,4-Dichlorobenzene	<1.0	1.0
1,2-Dichlorobenzene	<1.0	1.0

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

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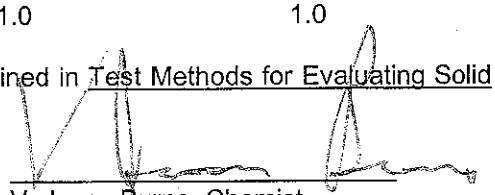
Client:	Maynard, Cooper & Gale
Sample Date:	June 21, 2001
Date Analyzed:	June 25, 2001
Analyzed By:	**TTL** Personnel (VJB)
Sampled Type:	Aqueous
Sampled By:	**TTL** Personnel (WGM)
Sample Site:	Surface Water Sites
Sample ID:	SW-3
TTL Lab Number:	010622.87
TTL Job Number:	0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	CONCENTRATION, µg/L	MDL, µg/L
Chloromethane	<1.0	1.0
Vinyl Chloride	<1.0	1.0
Chloroethane	<1.0	1.0
Trichlorofluoromethane	<1.0	1.0
1,1-Dichloroethene	<1.0	1.0
Methylene Chloride	<1.0	1.0
trans-1,2-Dichloroethene	<1.0	1.0
1,1-Dichloroethane	<1.0	1.0
cis-1,2-Dichloroethene	<1.0	1.0
Chloroform	<1.0	1.0
1,1,1-Trichloroethane	<1.0	1.0
Carbon Tetrachloride	<1.0	1.0
Benzene	<1.0	1.0
1,2-Dichloroethane	<1.0	1.0
Trichloroethylene	39.6	1.0
1,2-Dichloropropane	<1.0	1.0
Bromodichloromethane	<1.0	1.0
cis-1,3-Dichloropropene	<1.0	1.0
Toluene	<1.0	1.0
trans-1,3-Dichloropropene	<1.0	1.0
1,1,2-Trichloroethane	<1.0	1.0
Tetrachloroethylene	<1.0	1.0
Dibromochloromethane	<1.0	1.0
Chlorobenzene	<1.0	1.0
1,1,1,2-Tetrachloroethane	<1.0	1.0
Ethylbenzene	<1.0	1.0
M,P-Xylenes	<1.0	1.0
O-Xylene	<1.0	1.0
Bromoform	<1.0	1.0
1,1,2,2-Tetrachloroethane	<1.0	1.0
1,3-Dichlorobenzene	<1.0	1.0
1,4-Dichlorobenzene	<1.0	1.0
1,2-Dichlorobenzene	<1.0	1.0

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.



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Client:	Maynard, Cooper & Gale
Sample Date:	June 21, 2001
Date Analyzed:	June 25, 2001
Analyzed By:	**TTL** Personnel (VJB)
Sampled Type:	Aqueous
Sampled By:	**TTL** Personnel (WGM)
Sample Site:	Surface Water Sites
Sample ID:	SW-4
TTL Lab Number:	010622.88
TTL Job Number:	0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	CONCENTRATION, µg/L	MDL, µg/L
Chloromethane	<1.0	1.0
Vinyl Chloride	<1.0	1.0
Chloroethane	<1.0	1.0
Trichlorofluoromethane	<1.0	1.0
1,1-Dichloroethene	<1.0	1.0
Methylene Chloride	<1.0	1.0
trans-1,2-Dichloroethene	<1.0	1.0
1,1-Dichloroethane	<1.0	1.0
cis-1,2-Dichloroethene	<1.0	1.0
Chloroform	<1.0	1.0
1,1,1-Trichloroethane	<1.0	1.0
Carbon Tetrachloride	<1.0	1.0
Benzene	<1.0	1.0
1,2-Dichloroethane	<1.0	1.0
Trichloroethylene	<1.0	1.0
1,2-Dichloropropane	<1.0	1.0
Bromodichloromethane	<1.0	1.0
cis-1,3-Dichloropropene	<1.0	1.0
Toluene	<1.0	1.0
trans-1,3-Dichloropropene	<1.0	1.0
1,1,2-Trichloroethane	<1.0	1.0
Tetrachloroethylene	<1.0	1.0
Dibromochloromethane	<1.0	1.0
Chlorobenzene	<1.0	1.0
1,1,1,2-Tetrachloroethane	<1.0	1.0
Ethylbenzene	<1.0	1.0
M,P-Xylenes	<1.0	1.0
O-Xylene	<1.0	1.0
Bromoform	<1.0	1.0
1,1,2,2-Tetrachloroethane	<1.0	1.0
1,3-Dichlorobenzene	<1.0	1.0
1,4-Dichlorobenzene	<1.0	1.0
1,2-Dichlorobenzene	<1.0	1.0

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

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Client:	Maynard, Cooper & Gale
Sample Date:	June 21, 2001
Date Analyzed:	June 25, 2001
Analyzed By:	**TTL** Personnel (VJB)
Sampled Type:	Aqueous
Sampled By:	**TTL** Personnel (WGM)
Sample Site:	Surface Water Sites
Sample ID:	SW-5
TTL Lab Number:	010622.89
TTL Job Number:	0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	CONCENTRATION, µg/L	MDL, µg/L
Chloromethane	<1.0	1.0
Vinyl Chloride	<1.0	1.0
Chloroethane	<1.0	1.0
Trichlorofluoromethane	<1.0	1.0
1,1-Dichloroethene	<1.0	1.0
Methylene Chloride	<1.0	1.0
trans-1,2-Dichloroethene	<1.0	1.0
1,1-Dichloroethane	<1.0	1.0
cis-1,2-Dichloroethene	1.2	1.0
Chloroform	<1.0	1.0
1,1,1-Trichloroethane	<1.0	1.0
Carbon Tetrachloride	<1.0	1.0
Benzene	<1.0	1.0
1,2-Dichloroethane	<1.0	1.0
Trichloroethylene	87.9	1.0
1,2-Dichloropropane	<1.0	1.0
Bromodichloromethane	<1.0	1.0
cis-1,3-Dichloropropene	<1.0	1.0
Toluene	<1.0	1.0
trans-1,3-Dichloropropene	<1.0	1.0
1,1,2-Trichloroethane	<1.0	1.0
Tetrachloroethylene	<1.0	1.0
Dibromochloromethane	<1.0	1.0
Chlorobenzene	<1.0	1.0
1,1,1,2-Tetrachloroethane	<1.0	1.0
Ethylbenzene	<1.0	1.0
M,P-Xylenes	<1.0	1.0
O-Xylene	<1.0	1.0
Bromoform	<1.0	1.0
1,1,2,2-Tetrachloroethane	<1.0	1.0
1,3-Dichlorobenzene	<1.0	1.0
1,4-Dichlorobenzene	<1.0	1.0
1,2-Dichlorobenzene	<1.0	1.0

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

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Client:	Maynard, Cooper & Gale
Sample Date:	June 21, 2001
Date Analyzed:	June 25, 2001
Analyzed By:	**TTL** Personnel (VJB)
Sampled Type:	Aqueous
Sampled By:	**TTL** Personnel (WGM)
Sample Site:	Surface Water Sites
Sample ID:	SW-6
TTL Lab Number:	010622.90
TTL Job Number:	0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	CONCENTRATION, µg/L	MDL, µg/L
Chloromethane	<1.0	1.0
Vinyl Chloride	<1.0	1.0
Chloroethane	<1.0	1.0
Trichlorofluoromethane	<1.0	1.0
1,1-Dichloroethene	<1.0	1.0
Methylene Chloride	<1.0	1.0
trans-1,2-Dichloroethene	<1.0	1.0
1,1-Dichloroethane	<1.0	1.0
cis-1,2-Dichloroethene	<1.0	1.0
Chloroform	<1.0	1.0
1,1,1-Trichloroethane	<1.0	1.0
Carbon Tetrachloride	<1.0	1.0
Benzene	<1.0	1.0
1,2-Dichloroethane	<1.0	1.0
Trichloroethylene	<1.0	1.0
1,2-Dichloropropane	<1.0	1.0
Bromodichloromethane	<1.0	1.0
cis-1,3-Dichloropropene	<1.0	1.0
Toluene	<1.0	1.0
trans-1,3-Dichloropropene	<1.0	1.0
1,1,2-Trichloroethane	<1.0	1.0
Tetrachloroethylene	<1.0	1.0
Dibromochloromethane	<1.0	1.0
Chlorobenzene	<1.0	1.0
1,1,1,2-Tetrachloroethane	<1.0	1.0
Ethylbenzene	<1.0	1.0
M,P-Xylenes	<1.0	1.0
O-Xylene	<1.0	1.0
Bromoform	<1.0	1.0
1,1,2,2-Tetrachloroethane	<1.0	1.0
1,3-Dichlorobenzene	<1.0	1.0
1,4-Dichlorobenzene	<1.0	1.0
1,2-Dichlorobenzene	<1.0	1.0

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

V. Jesse Burns, Chemist

TTL, Inc. PRACTICING IN THE GEOSCIENCES

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Client:	Maynard, Cooper & Gale
Sample Date:	June 21, 2001
Date Analyzed:	June 25, 2001
Analyzed By:	**TTL** Personnel (VJB)
Sampled Type:	Aqueous
Sampled By:	**TTL** Personnel (WGM)
Sample Site:	Surface Water Sites
Sample ID:	SW-7
TTL Lab Number:	010622.91
TTL Job Number:	0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	CONCENTRATION, µg/L	MDL, µg/L
Chloromethane	<1.0	1.0
Vinyl Chloride	<1.0	1.0
Chloroethane	<1.0	1.0
Trichlorofluoromethane	<1.0	1.0
1,1-Dichloroethene	<1.0	1.0
Methylene Chloride	<1.0	1.0
trans-1,2-Dichloroethene	<1.0	1.0
1,1-Dichloroethane	<1.0	1.0
cis-1,2-Dichloroethene	<1.0	1.0
Chloroform	<1.0	1.0
1,1,1-Trichloroethane	<1.0	1.0
Carbon Tetrachloride	<1.0	1.0
Benzene	<1.0	1.0
1,2-Dichloroethane	<1.0	1.0
Trichloroethylene	<1.0	1.0
1,2-Dichloropropane	<1.0	1.0
Bromodichloromethane	<1.0	1.0
cis-1,3-Dichloropropene	<1.0	1.0
Toluene	<1.0	1.0
trans-1,3-Dichloropropene	<1.0	1.0
1,1,2-Trichloroethane	<1.0	1.0
Tetrachloroethylene	<1.0	1.0
Dibromochloromethane	<1.0	1.0
Chlorobenzene	<1.0	1.0
1,1,1,2-Tetrachloroethane	<1.0	1.0
Ethylbenzene	<1.0	1.0
M,P-Xylenes	<1.0	1.0
O-Xylene	<1.0	1.0
Bromoform	<1.0	1.0
1,1,2,2-Tetrachloroethane	<1.0	1.0
1,3-Dichlorobenzene	<1.0	1.0
1,4-Dichlorobenzene	<1.0	1.0
1,2-Dichlorobenzene	<1.0	1.0

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

V. Jesse Burns, Chemist

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Client:	Maynard, Cooper & Gale
Sample Date:	June 21, 2001
Date Analyzed:	June 25, 2001
Analyzed By:	**TTL** Personnel (VJB)
Sampled Type:	Aqueous
Sampled By:	**TTL** Personnel (WGM)
Sample Site:	Surface Water Sites
Sample ID:	SW-8
TTL Lab Number:	010622.92
TTL Job Number:	0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	CONCENTRATION, µg/L	MDL, µg/L
Chloromethane	<1.0	1.0
Vinyl Chloride	<1.0	1.0
Chloroethane	<1.0	1.0
Trichlorofluoromethane	<1.0	1.0
1,1-Dichloroethene	<1.0	1.0
Methylene Chloride	<1.0	1.0
trans-1,2-Dichloroethene	<1.0	1.0
1,1-Dichloroethane	<1.0	1.0
cis-1,2-Dichloroethene	<1.0	1.0
Chloroform	<1.0	1.0
1,1,1-Trichloroethane	<1.0	1.0
Carbon Tetrachloride	<1.0	1.0
Benzene	<1.0	1.0
1,2-Dichloroethane	<1.0	1.0
Trichloroethylene	19.4	1.0
1,2-Dichloropropane	<1.0	1.0
Bromodichloromethane	<1.0	1.0
cis-1,3-Dichloropropene	<1.0	1.0
Toluene	<1.0	1.0
trans-1,3-Dichloropropene	<1.0	1.0
1,1,2-Trichloroethane	<1.0	1.0
Tetrachloroethylene	<1.0	1.0
Dibromochloromethane	<1.0	1.0
Chlorobenzene	<1.0	1.0
1,1,1,2-Tetrachloroethane	<1.0	1.0
Ethylbenzene	<1.0	1.0
M,P-Xylenes	<1.0	1.0
O-Xylene	<1.0	1.0
Bromoform	<1.0	1.0
1,1,2,2-Tetrachloroethane	<1.0	1.0
1,3-Dichlorobenzene	<1.0	1.0
1,4-Dichlorobenzene	<1.0	1.0
1,2-Dichlorobenzene	<1.0	1.0

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

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Client:	Maynard, Cooper & Gale
Sample Date:	June 21, 2001
Date Analyzed:	June 25, 2001
Analyzed By:	**TTL** Personnel (VJB)
Sampled Type:	Aqueous
Sampled By:	**TTL** Personnel (WGM)
Sample Site:	Surface Water Sites
Sample ID:	SW-9
TTL Lab Number:	010622.93
TTL Job Number:	0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	CONCENTRATION, µg/L	MDL, µg/L
Chloromethane	<1.0	1.0
Vinyl Chloride	<1.0	1.0
Chloroethane	<1.0	1.0
Trichlorofluoromethane	<1.0	1.0
1,1-Dichloroethene	<1.0	1.0
Methylene Chloride	<1.0	1.0
trans-1,2-Dichloroethene	<1.0	1.0
1,1-Dichloroethane	<1.0	1.0
cis-1,2-Dichloroethene	<1.0	1.0
Chloroform	<1.0	1.0
1,1,1-Trichloroethane	<1.0	1.0
Carbon Tetrachloride	<1.0	1.0
Benzene	<1.0	1.0
1,2-Dichloroethane	<1.0	1.0
Trichloroethylene	15.6	1.0
1,2-Dichloropropane	<1.0	1.0
Bromodichloromethane	<1.0	1.0
cis-1,3-Dichloropropene	<1.0	1.0
Toluene	<1.0	1.0
trans-1,3-Dichloropropene	<1.0	1.0
1,1,2-Trichloroethane	<1.0	1.0
Tetrachloroethylene	<1.0	1.0
Dibromochloromethane	<1.0	1.0
Chlorobenzene	<1.0	1.0
1,1,1,2-Tetrachloroethane	<1.0	1.0
Ethylbenzene	<1.0	1.0
M,P-Xylenes	<1.0	1.0
O-Xylene	<1.0	1.0
Bromoform	<1.0	1.0
1,1,2,2-Tetrachloroethane	<1.0	1.0
1,3-Dichlorobenzene	<1.0	1.0
1,4-Dichlorobenzene	<1.0	1.0
1,2-Dichlorobenzene	<1.0	1.0

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

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Client:	Maynard, Cooper & Gale
Sample Date:	June 21, 2001
Date Analyzed:	June 25, 2001
Analyzed By:	TTL Personnel (VJB)
Sampled Type:	Aqueous
Sampled By:	TTL Personnel (WGM)
Sample Site:	Surface Water Sites
Sample ID:	SW-10
TTL Lab Number:	010622.94
TTL Job Number:	0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	CONCENTRATION, µg/L	MDL, µg/L
Chloromethane	<1.0	1.0
Vinyl Chloride	<1.0	1.0
Chloroethane	<1.0	1.0
Trichlorofluoromethane	<1.0	1.0
1,1-Dichloroethene	<1.0	1.0
Methylene Chloride	<1.0	1.0
trans-1,2-Dichloroethene	<1.0	1.0
1,1-Dichloroethane	<1.0	1.0
cis-1,2-Dichloroethene	<1.0	1.0
Chloroform	<1.0	1.0
1,1,1-Trichloroethane	<1.0	1.0
Carbon Tetrachloride	<1.0	1.0
Benzene	<1.0	1.0
1,2-Dichloroethane	<1.0	1.0
Trichloroethylene	9.8	1.0
1,2-Dichloropropane	<1.0	1.0
Bromodichloromethane	<1.0	1.0
cis-1,3-Dichloropropene	<1.0	1.0
Toluene	<1.0	1.0
trans-1,3-Dichloropropene	<1.0	1.0
1,1,2-Trichloroethane	<1.0	1.0
Tetrachloroethylene	<1.0	1.0
Dibromochloromethane	<1.0	1.0
Chlorobenzene	<1.0	1.0
1,1,1,2-Tetrachloroethane	<1.0	1.0
Ethylbenzene	<1.0	1.0
M,P-Xylenes	<1.0	1.0
O-Xylene	<1.0	1.0
Bromoform	<1.0	1.0
1,1,2,2-Tetrachloroethane	<1.0	1.0
1,3-Dichlorobenzene	<1.0	1.0
1,4-Dichlorobenzene	<1.0	1.0
1,2-Dichlorobenzene	<1.0	1.0

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

V. Jesse Burns, Chemist

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Client:	Maynard, Cooper & Gale
Sample Date:	June 21, 2001
Date Analyzed:	June 26, 2001
Analyzed By:	**TTL** Personnel (VJB)
Sampled Type:	Aqueous
Sampled By:	**TTL** Personnel (WGM)
Sample Site:	Surface Water Sites
Sample ID:	SW-11
TTL Lab Number:	010622.95
TTL Job Number:	0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	CONCENTRATION, µg/L	MDL, µg/L
Chloromethane	1.0	1.0
Vinyl Chloride	<1.0	1.0
Chloroethane	<1.0	1.0
Trichlorofluoromethane	<1.0	1.0
1,1-Dichloroethene	<1.0	1.0
Methylene Chloride	<1.0	1.0
trans-1,2-Dichloroethene	<1.0	1.0
1,1-Dichloroethane	<1.0	1.0
cis-1,2-Dichloroethene	<1.0	1.0
Chloroform	<1.0	1.0
1,1,1-Trichloroethane	<1.0	1.0
Carbon Tetrachloride	<1.0	1.0
Benzene	<1.0	1.0
1,2-Dichloroethane	<1.0	1.0
Trichloroethylene	10.5	1.0
1,2-Dichloropropane	<1.0	1.0
Bromodichloromethane	<1.0	1.0
cis-1,3-Dichloropropene	<1.0	1.0
Toluene	<1.0	1.0
trans-1,3-Dichloropropene	<1.0	1.0
1,1,2-Trichloroethane	<1.0	1.0
Tetrachloroethylene	<1.0	1.0
Dibromochloromethane	<1.0	1.0
Chlorobenzene	<1.0	1.0
1,1,1,2-Tetrachloroethane	<1.0	1.0
Ethylbenzene	<1.0	1.0
M,P-Xylenes	<1.0	1.0
O-Xylene	<1.0	1.0
Bromoform	<1.0	1.0
1,1,2,2-Tetrachloroethane	<1.0	1.0
1,3-Dichlorobenzene	<1.0	1.0
1,4-Dichlorobenzene	<1.0	1.0
1,2-Dichlorobenzene	<1.0	1.0

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

V. Jesse Burns, Chemist

TTL, Inc. PRACTICING IN THE GEOSCIENCES

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Client:	Maynard, Cooper & Gale
Sample Date:	June 21, 2001
Date Analyzed:	June 26, 2001
Analyzed By:	**TTL** Personnel (VJB)
Sampled Type:	Aqueous
Sampled By:	**TTL** Personnel (WGM)
Sample Site:	Surface Water Sites
Sample ID:	SW-12
TTL Lab Number:	010622.96
TTL Job Number:	0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	CONCENTRATION, µg/L	MDL, µg/L
Chloromethane	<1.0	1.0
Vinyl Chloride	<1.0	1.0
Chloroethane	<1.0	1.0
Trichlorofluoromethane	<1.0	1.0
1,1-Dichloroethene	<1.0	1.0
Methylene Chloride	<1.0	1.0
trans-1,2-Dichloroethene	<1.0	1.0
1,1-Dichloroethane	<1.0	1.0
cis-1,2-Dichloroethene	<1.0	1.0
Chloroform	<1.0	1.0
1,1,1-Trichloroethane	<1.0	1.0
Carbon Tetrachloride	<1.0	1.0
Benzene	<1.0	1.0
1,2-Dichloroethane	<1.0	1.0
Trichloroethylene	1.1	1.0
1,2-Dichloropropane	<1.0	1.0
Bromodichloromethane	<1.0	1.0
cis-1,3-Dichloropropene	<1.0	1.0
Toluene	<1.0	1.0
trans-1,3-Dichloropropene	<1.0	1.0
1,1,2-Trichloroethane	<1.0	1.0
Tetrachloroethylene	<1.0	1.0
Dibromochloromethane	<1.0	1.0
Chlorobenzene	<1.0	1.0
1,1,1,2-Tetrachloroethane	<1.0	1.0
Ethylbenzene	<1.0	1.0
M,P-Xylenes	<1.0	1.0
O-Xylene	<1.0	1.0
Bromoform	<1.0	1.0
1,1,2,2-Tetrachloroethane	<1.0	1.0
1,3-Dichlorobenzene	<1.0	1.0
1,4-Dichlorobenzene	<1.0	1.0
1,2-Dichlorobenzene	<1.0	1.0

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

V. Jesse Burns, Chemist

TTL, Inc. PRACTICING IN THE GEOSCIENCES

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Client:	Maynard, Cooper & Gale
Sample Date:	June 21, 2001
Date Analyzed:	June 26, 2001
Analyzed By:	**TTL** Personnel (VJB)
Sampled Type:	Aqueous
Sampled By:	**TTL** Personnel (WGM)
Sample Site:	Surface Water Sites
Sample ID:	SW-13
TTL Lab Number:	010622.97
TTL Job Number:	0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	CONCENTRATION, µg/L	MDL, µg/L
Chloromethane	<1.0	1.0
Vinyl Chloride	<1.0	1.0
Chloroethane	<1.0	1.0
Trichlorofluoromethane	<1.0	1.0
1,1-Dichloroethene	<1.0	1.0
Methylene Chloride	<1.0	1.0
trans-1,2-Dichloroethene	<1.0	1.0
1,1-Dichloroethane	<1.0	1.0
cis-1,2-Dichloroethene	<1.0	1.0
Chloroform	<1.0	1.0
1,1,1-Trichloroethane	<1.0	1.0
Carbon Tetrachloride	<1.0	1.0
Benzene	<1.0	1.0
1,2-Dichloroethane	<1.0	1.0
Trichloroethylene	<1.0	1.0
1,2-Dichloropropane	<1.0	1.0
Bromodichloromethane	<1.0	1.0
cis-1,3-Dichloropropene	<1.0	1.0
Toluene	<1.0	1.0
trans-1,3-Dichloropropene	<1.0	1.0
1,1,2-Trichloroethane	<1.0	1.0
Tetrachloroethylene	<1.0	1.0
Dibromochloromethane	<1.0	1.0
Chlorobenzene	<1.0	1.0
1,1,1,2-Tetrachloroethane	<1.0	1.0
Ethylbenzene	<1.0	1.0
M,P-Xylenes	<1.0	1.0
O-Xylene	<1.0	1.0
Bromoform	<1.0	1.0
1,1,2,2-Tetrachloroethane	<1.0	1.0
1,3-Dichlorobenzene	<1.0	1.0
1,4-Dichlorobenzene	<1.0	1.0
1,2-Dichlorobenzene	<1.0	1.0

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

V. Jesse Burns, Chemist

TTL, Inc. PRACTICING IN THE GEOSCIENCES

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Client:	Maynard, Cooper & Gale
Sample Date:	June 21, 2001
Date Analyzed:	June 26, 2001
Analyzed By:	**TTL** Personnel (VJB)
Sampled Type:	Aqueous
Sampled By:	**TTL** Personnel (WGM)
Sample Site:	Surface Water Sites
Sample ID:	SW-14
TTL Lab Number:	010622.98
TTL Job Number:	0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	CONCENTRATION, µg/L	MDL, µg/L
Chloromethane	<1.0	1.0
Vinyl Chloride	<1.0	1.0
Chloroethane	<1.0	1.0
Trichlorofluoromethane	<1.0	1.0
1,1-Dichloroethene	<1.0	1.0
Methylene Chloride	<1.0	1.0
trans-1,2-Dichloroethene	<1.0	1.0
1,1-Dichloroethane	<1.0	1.0
cis-1,2-Dichloroethene	<1.0	1.0
Chloroform	<1.0	1.0
1,1,1-Trichloroethane	<1.0	1.0
Carbon Tetrachloride	<1.0	1.0
Benzene	<1.0	1.0
1,2-Dichloroethane	<1.0	1.0
Trichloroethylene	14.8	1.0
1,2-Dichloropropane	<1.0	1.0
Bromodichloromethane	<1.0	1.0
cis-1,3-Dichloropropene	<1.0	1.0
Toluene	<1.0	1.0
trans-1,3-Dichloropropene	<1.0	1.0
1,1,2-Trichloroethane	<1.0	1.0
Tetrachloroethylene	<1.0	1.0
Dibromochloromethane	<1.0	1.0
Chlorobenzene	<1.0	1.0
1,1,1,2-Tetrachloroethane	<1.0	1.0
Ethylbenzene	<1.0	1.0
M,P-Xylenes	<1.0	1.0
O-Xylene	<1.0	1.0
Bromoform	<1.0	1.0
1,1,2,2-Tetrachloroethane	<1.0	1.0
1,3-Dichlorobenzene	<1.0	1.0
1,4-Dichlorobenzene	<1.0	1.0
1,2-Dichlorobenzene	<1.0	1.0

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

V. Jesse Burns, Chemist

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Client:	Maynard, Cooper & Gale
Sample Date:	June 21, 2001
Date Analyzed:	June 26, 2001
Analyzed By:	**TTL** Personnel (VJB)
Sampled Type:	Aqueous
Sampled By:	**TTL** Laboratory Personnel
Sample Site:	Surface Water Sites
Sample ID:	Trip Blank
TTL Lab Number:	010622.99
TTL Job Number:	0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	CONCENTRATION, µg/L	MDL, µg/L
Chloromethane	<1.0	1.0
Vinyl Chloride	<1.0	1.0
Chloroethane	<1.0	1.0
Trichlorofluoromethane	<1.0	1.0
1,1-Dichloroethene	<1.0	1.0
Methylene Chloride	<1.0	1.0
trans-1,2-Dichloroethene	<1.0	1.0
1,1-Dichloroethane	<1.0	1.0
cis-1,2-Dichloroethene	<1.0	1.0
Chloroform	<1.0	1.0
1,1,1-Trichloroethane	<1.0	1.0
Carbon Tetrachloride	<1.0	1.0
Benzene	<1.0	1.0
1,2-Dichloroethane	<1.0	1.0
Trichloroethylene	<1.0	1.0
1,2-Dichloropropane	<1.0	1.0
Bromodichloromethane	<1.0	1.0
cis-1,3-Dichloropropene	<1.0	1.0
Toluene	<1.0	1.0
trans-1,3-Dichloropropene	<1.0	1.0
1,1,2-Trichloroethane	<1.0	1.0
Tetrachloroethylene	<1.0	1.0
Dibromochloromethane	<1.0	1.0
Chlorobenzene	<1.0	1.0
1,1,1,2-Tetrachloroethane	<1.0	1.0
Ethylbenzene	<1.0	1.0
M,P-Xylenes	<1.0	1.0
O-Xylene	<1.0	1.0
Bromoform	<1.0	1.0
1,1,2,2-Tetrachloroethane	<1.0	1.0
1,3-Dichlorobenzene	<1.0	1.0
1,4-Dichlorobenzene	<1.0	1.0
1,2-Dichlorobenzene	<1.0	1.0

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

V. Jesse Burns, Chemist

TTL, INC.
Chain of Custody Form

Sheet 1 of 2

Client: Maynard Cooper & Gale
Contact: Ashley Cousins
Mailing Address: 4154 Lomac St
City, State, Zip: Montgomery, AL 36106
Phone No.: (334) 244-0766
Date: 6-21-01
Sampled By: GM
Sample Site: ALDOT DITCH SURFACE H2O
TTL Job No.: 0700-024 **Client P.O. #**

Sample Security Requirements

1. Condition of Contents: Good
2. Sealed for Shipping By: KM
3. Initial Contents Temp.: rce °C Seal Applied Yes ____ No ____
4. Sampling Status: Complete Expected Completion Date ____
5. Custody Seal Intact Upon Receipt by Laboratory: Yes ____ No ____
6. Condition of Contents: ____
7. Comments: ____
8. Reporting Status: Routine; ASAP By ____; Rush By ____

Date	Time	Sample ID/Description	Sample Type	Sample Method		# of Containers	Preservatives	Analysis Parameters
			Solid, Etc.	Grab	Comp			
6-21	9:57	SW-1	Aq	X		~~3~~ 4	HCl	~~VOC~~ 8260
	9:21	2						
	10:20	3						
	9:50	4						
	10:16	5						
	10:04	6						
	9:38	7						
	10:30	8						
	10:38	9						
	10:54	10						

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished by: (signed) Date/Time 6-21-01
1 Kendall Keranen 5:15pm
2 KJ Maney
3

Received by (signed) Date/Time
1 KJ Maney 6/21 5:15pm
2
3

SHIPPING DETAILS

Air Bill #: ____
Method of Shipment: hand
Received By Lab: R. Whitson
Date/Time 6-22 11:30

TTL, Inc. - Tuscaloosa Office/Laboratory: 3516 Greensboro Avenue, Tuscaloosa, Alabama 35401, Telephone (205) 345-0816, FAX (205) 345-0992
TTL, Inc. - Montgomery Office: 4154 Lomac Street, Montgomery, Alabama 36106, Telephone (334) 244-0766, FAX (334) 244-6668
TTL, Inc. - Florence Office: 523 South Wood Avenue, Florence, Alabama, Telephone (256) 766-4622, FAX (256) 760-4626

NOTE: Please read terms and conditions between TTL, Inc. and client on back of form.

TTL, INC.
Chain of Custody Form

Sheet 2 of 2

Client: Maynard Cooper & Gale
Contact: Ashley Cousins
Mailing Address: 4154 Lomac St
City, State, Zip: Montgomery AL 36106
Phone No.: (334) 244-0766
Date: 6-21-01
Sampled By: GM
Sample Site: ALDOT Ditch
TTL Job No.: 0780-024 **Client P.O. #**

Sample Security Requirements

1. Condition of Contents: Good
2. Sealed for Shipping By: [illegible]
3. Initial Contents Temp.: Ice °C Seal Applied Yes ____ No ____
4. Sampling Status: Complete Expected Completion Date ____
5. Custody Seal Intact Upon Receipt by Laboratory: Yes ____ No ____
6. Condition of Contents: ____
7. Comments: ____
8. Reporting Status: Routine; ASAP By ____ ; Rush By ____

Date	Time	Sample ID/Description	Sample Type	Sample Method		# of Containers	Preservatives	Analysis Parameters
			Solid, Etc.	Grab	Comp			
6-21	10:56	SW- 11	Ag	X		4 ~~3~~	HCl	~~VOC~~ 8260
	11:16	12				1		
	11:14	13				3		
	9:25	14				4		
	8:30	Blanks				4		

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished by: (signed) Date/Time 6-22-01
1 Kendall Keranen 5:15pm
2 Kyle Massey
3

Received by (signed) Date/Time
1 Kyle Massey 6/21 5:15pm
2
3

SHIPPING DETAILS

Air Bill #: ____
Method of Shipment: hand
Received By Lab: R Whitson
Date/Time 6-22 11:30

TTL, Inc. - Tuscaloosa Office/Laboratory: 3516 Greensboro Avenue, Tuscaloosa, Alabama 35401, Telephone (205) 345-0816, FAX (205) 345-0992
TTL, Inc. - Montgomery Office: 4154 Lomac Street, Montgomery, Alabama 36106, Telephone (334) 244-0766, FAX (334) 244-6668
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NOTE: Please read terms and conditions between TTL, Inc. and client on back of form.

SENT BY: TTL INCORPORATED; 2053430613; JUL-24-01 12:04; PAGE 2/2

TTL, Inc.

Laboratory Assignment Sheet

Job Name: Coliseum Blvd Plume

TTL Project Contact: MC/SG

Client: Maynard, Cooper, & Gale

Sheet No: 1 of 1

TTL Job #: 0700-024

State Job #:

TTL Lab No.:

County: Montgomery

	Boring Number	Station and Offset	Sample ID	Sample Depth	Date Drilled	Date Submitted	Due Date	Submitted By (Init.)
1		Shelby Tube	Pump Test Well	5-7'	7-9	7-13	ASAP	SG
2		↓	OW3	5-7'	7-10	↓	↓	↓
3		↓	OW4	4-6'	7-11		↓	↓
4								
5								
6								
7								
8								
9								
10								

Test

200080	200215	200110	No Number #25	200202	200150
Dry Bulk Density	Porosity	Sieve w/ Hydrometer	Organic Matter	Permeability	Moisture
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X

Notes:

- Assigned
- In Progress
- Test Complete
- Reported

entered by: M. Addox 7/24/01

f:\engineer\labforms\Lab Assignment Sheet2