April Status Report

Coliseum Boulevard Plume Investigation

April Status Report

- April 5, 2001- measured water levels in piezometers along main Kilby ditch and west branch of Kilby ditch.
- April 16, 2001- submitted Membrane Interface Probe Investigation Report (final copy).
- April 19, 2001- submitted Soil Vapor Investigation Report (final copy).
- April 16-20, 2001- performed field investigations to collect surficial and subsurface soil samples and shallow and deep ground-water samples along the main and west branch of Kilby ditch east of Coliseum Boulevard. A hand-auger was used to collect surficial soil samples GPS 101S, 102S, 103S, 104S and 109S adjacent to the top edge of the concrete-lined ditch. Soil samples were collected from 12 probeholes (GPS-101 through GPS-112) and ground-water samples were collected from 6 probeholes (GPW-101 through GPW-106). Prior to collection of ground-water samples, soil conductivity tests were conducted at probeholes GPW-101 through GPW-106 to determine the first distinct clay beneath the water table. Soil conductivity tests also were conducted at three proposed locations for monitoring wells to be constructed along the main and west branch of the Kilby ditch east of Coliseum Boulevard.
- April 20, 2001- Water levels were measured in all piezometers and monitoring wells associated with the Coliseum Boulevard Plume Investigation.
- April 26, 2001-collected surface water samples from the main Kilby ditch and the west branch of Kilby ditch for analyses for VOCs. Results of these analyses are provided in Table 1. Locations of the surface water sample sites are shown on Figures 1 and 2.
- April 30, 2001- began field work to construct monitoring wells along the main Kilby ditch and the west branch of the Kilby ditch (east of Coliseum Boulevard).

TABLE

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
	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

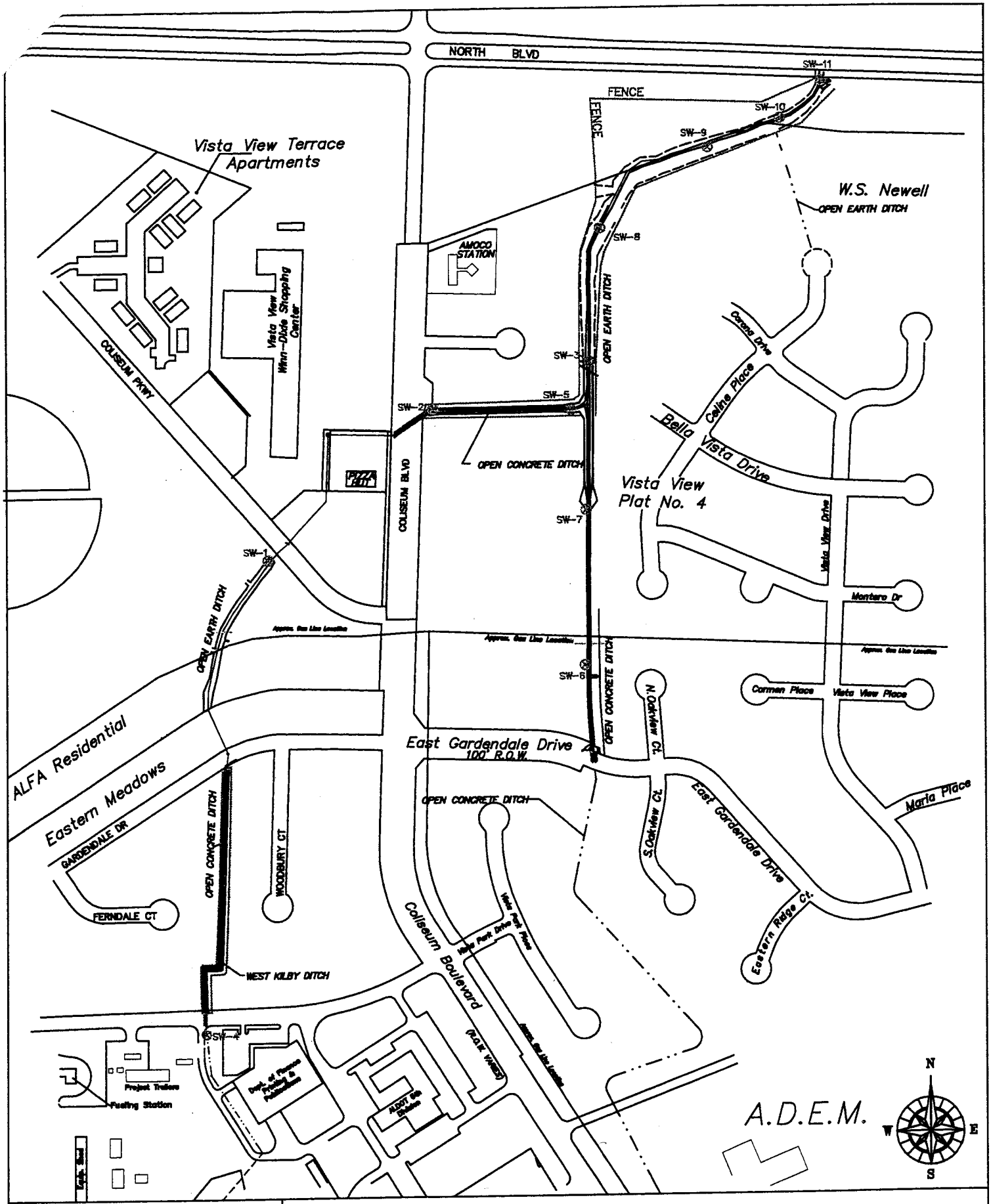
[1] Testing of the samples was in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846, Third Edition, November, 1986.

* West Kilby ditch

** Main Kilby ditch

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

FIGURES



TTL, Inc.

Practicing in the Geosciences

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

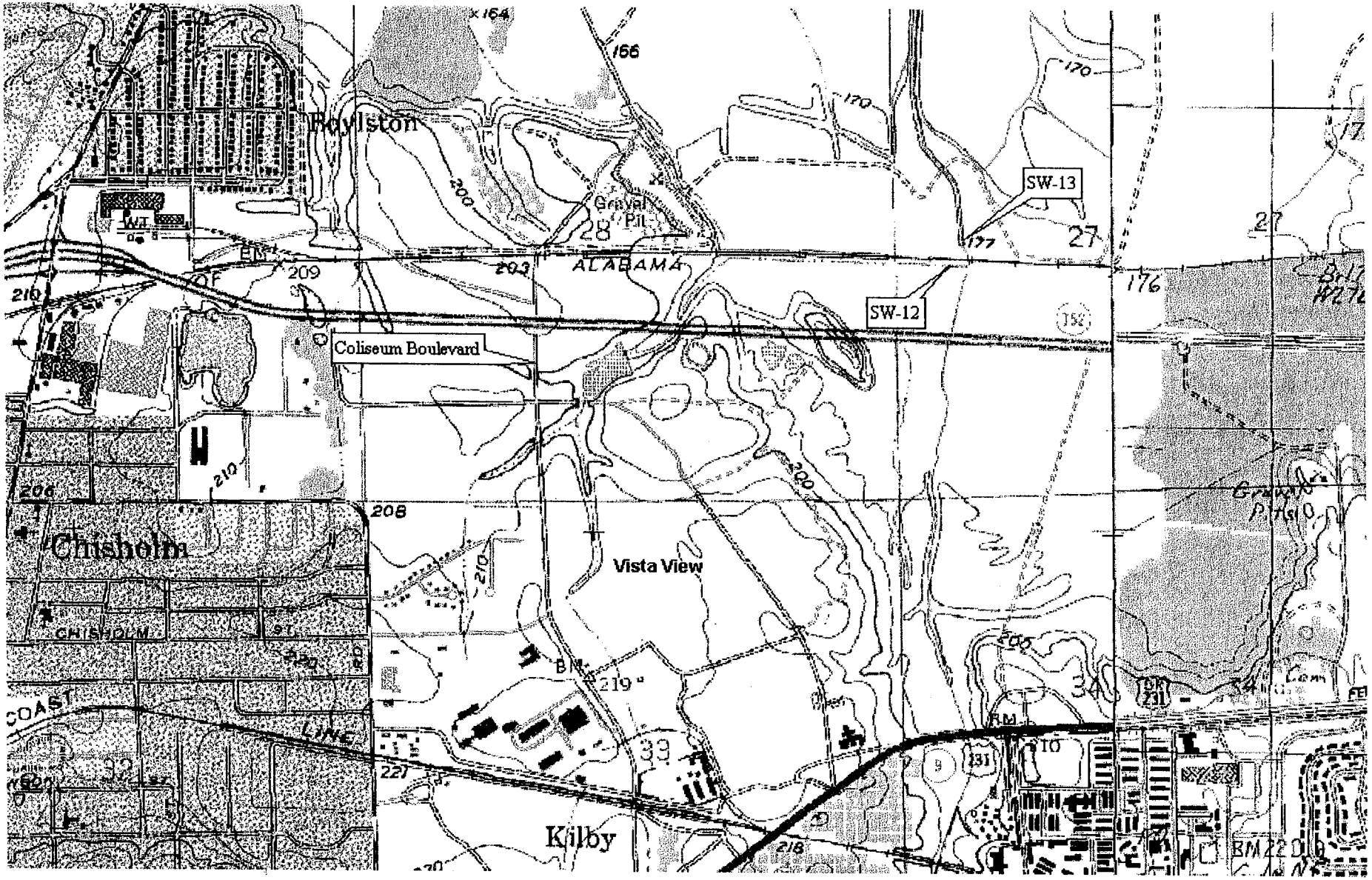
LEGEND:

SW-1 SURFACE WATER SAMPLE

SCALE (FEET)

0 100 200 300 400 500

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

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

N