

**SUMMARY REPORT FOR
SAMPLING RESULTS
FOR JULY 2003
INVESTIGATION OF
“LOW-LYING AREAS”**

**Coliseum Boulevard
Plume Investigation**



August 29, 2003

Submitted to:

**The Alabama Department of Environmental Management
Montgomery, Alabama**



**SUMMARY REPORT FOR
SAMPLING RESULTS
FOR JULY 21 AND 29, 2003**
*INVESTIGATION OF
"LOW-LYING AREAS"*

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Introduction

The ALDOT (Alabama Department of Transportation) is investigating TCE (trichloroethylene) in soil and groundwater in the area known as the Coliseum Boulevard Plume in Montgomery, Alabama. The investigation is being conducted under the direction of the ADEM (Alabama Department of Environmental Management). The investigation comprises four general areas: 1) the Kilby Ditch, 2) the Probehole 12 Area, 3) Low-Lying Areas, and 4) Site-Wide. This report contains results of samples of sediment and surface water collected from the Low-Lying Areas.

The Low-Lying Areas are located downstream from the Kilby Ditch (Figure 1). Sediment and surface-water samples have been collected at 16 sites in accordance with Addendum 04 of the Comprehensive Work Plan to investigate the CBP (Coliseum Boulevard Plume). The 16 sites where samples are collected are shown on Figure 2 and described in Table 1. Sediment and surface-water samples were collected in November 2001 and February 2002. Based on the November 2001 and February 2002, results, the ALDOT recommended quarterly sediment and surface-water sampling at eight locations (I, J, K, L, M, N, O, and P) for one year. The quarterly sampling was to determine if VOC (volatile organic compounds) concentrations fluctuate seasonally and to determine if an ecological risk assessment was needed. The January 2003 sampling event was the final approved quarterly sampling event for the Low-Lying Areas. A preliminary ecological screening was performed by comparing the analytical results to EPA screening values. None of the sediment and surface-water results exceeded the screening values. Therefore, the ALDOT recommended semi-annual monitoring events to determine if the constituents of concern persist in the Low-Lying Areas. The ALDOT further recommended that one of the monitoring events be scheduled for winter (January – February) to coincide with the period in which the highest concentrations of TCE were detected in sediment and surface water samples. This report summarizes the first semi-annual monitoring event.

Sample Collection

A hand auger was used to collect sediment samples at locations I, J, K, L, N, O, and P on July 21, 2003 and at location M on July 29, 2003. A sample was not collected from location M on July 21st because the sampling site could not be located due to thick vegetation obstructing visibility. On July 29, 2003 sampling location M was sited and samples were collected.

Summary Report for Monitoring Event
Coliseum Boulevard Plume Site
Montgomery, Alabama

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Sediment samples were collected from the hand auger using an EnCore sampler. The sediment samples were collected immediately above the first stiff silt, clay, or organic layer. During the July 2003 sampling event the sediment samples were collected 2 to 8 inches BLS (below land surface).

Seven surface-water samples were collected during the July 2003 sampling event at locations I, J, K, L, M, N, and P. A surface-water sample was not collected from sampling location O because surface water was not present. An equipment rinsate sample was collected during the event. Additionally, an aqueous trip blank was placed in the cooler with the samples that were shipped to the laboratory.

Surface-water samples were collected by slowly lowering an upright VOC glass vial, which contained a hydrochloric acid preservative, into the water. The cap of the VOC vial was used to add water to form a meniscus before sealing the vial with a Teflon-lined cap.

Sediment and surface-water samples were immediately placed on ice, in a cooler, and shipped to **TTL's** laboratory in Tuscaloosa, Alabama for VOC analyses under strict chain-of-custody. The samples were analyzed for VOC's using Method 5035/8260 (sediment) and 8260 (groundwater) as outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

Results

The analytical results for samples collected on November 15 and 16, 2001, February 13 and 14, 2002, May 22, 2002, September 17, 2002, October 31, 2002, January 14, 2003, and July 21 and 29, 2003 are presented in Tables 2a and 2b and in Figures 3 and 4.

In July 2003, the sediment sample from location N contained a concentration (estimated) of TCE of 3.6J $\mu\text{g}/\text{kg}$ (micrograms per kilogram). Additionally, the sediment sample collected at location N contained an estimated concentration of vinyl chloride at 3.0J $\mu\text{g}/\text{kg}$. None of the other sediment samples collected at the other sample locations contained detectable concentrations of the constituents of concern. Laboratory reports are included in the Attachment.

During the July 2003 event, TCE was detected (some concentrations estimated) in the surface water at sample locations I, J, K, L, N, and P. Detected concentrations of



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TCE ranged from 4.3 µg/l (micrograms per liter) to 42.3 µg/l. None of the other surface-water samples collected at other sample locations contained detectable concentrations of the constituents of concern. Laboratory reports are included in the Attachment.

Recommendations

The ALDOT recommends continuing the semi-annual monitoring events to determine if the presence of constituents of concern persists in the Low-Lying Areas. The ALDOT further recommends that the next monitoring event be scheduled for January 2004 and include all 16 (A through P) sample locations.

TABLES

Table 2a. Concentrations of volatile organic compounds (VOCs)¹ in samples of sediment from the low-lying area; August 2003 Low-Lying Area Report; Coliseum Boulevard Plume Investigation; Montgomery, Alabama. [Distributions of VOCs in sediment samples are shown on Figure 3.]

		Sediment Lab Results									
Sample Location Identifier	Sample Date	Approximate Sample Depth (inches)	Trichloroethylene	Trichlorofluoromethane	Benzene	Toluene	M,P-Xylenes	Cis-1,2-Dichloroethene	Vinyl Chloride	Cis-1,3-Dichloropropene	Methylene Chloride ²
			[Concentrations are in micrograms per kilogram (µg/kg)]								
			3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³
A	11/15/2001	6	ND ⁴	ND	4.3J ⁵						
A	2/13/2002	12	ND	6.3	ND	ND	ND	ND	ND	ND	ND
A	5/22/2002	-	NC ⁶	NC	NC						
B	11/15/2001	5	ND	ND	ND	ND	ND	ND	ND	ND	3.6J
B	2/13/2002	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
B - dup ⁷	2/13/2002	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
B	5/22/2002	-	NC	NC	NC	NC	NC	NC	NC	NC	NC
C	11/15/2001	8	ND	ND	ND	ND	ND	ND	ND	ND	5.7J
C	2/13/2002	8	NR ⁸	NR	NR						
C	5/22/2002	-	NC	NC	NC	NC	NC	NC	NC	NC	NC
D	11/15/2001	8	ND	ND	ND	3.3J	ND	ND	ND	ND	ND
D-dup	11/15/2001	8	ND	ND	ND	12.4J	ND	ND	ND	ND	ND
D	2/13/2002	8	ND	ND	5.0	ND	ND	ND	ND	ND	ND
D	5/22/2002	-	NC	NC	NC	NC	NC	NC	NC	NC	NC
E	11/15/2001	4	ND	ND	ND	25.5J	ND	ND	ND	ND	3.9J
E	2/13/2002	7	ND	ND	ND	9.5	ND	ND	ND	ND	ND
E	5/22/2002	-	NC	NC	NC	NC	NC	NC	NC	NC	NC
F	11/15/2001	6	ND	ND	ND	8.8J	ND	ND	ND	ND	10.6J
F	2/13/2002	11	ND	ND	ND	ND	ND	ND	ND	ND	ND
F	5/22/2002	-	NC	NC	NC	NC	NC	NC	NC	NC	NC
G	11/15/2001	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
G	2/13/2002	7	ND	14.4	ND	ND	ND	ND	ND	ND	ND
G	5/22/2002	-	NC	NC	NC	NC	NC	NC	NC	NC	NC
H	11/15/2001	6	ND	ND	ND	ND	ND	ND	ND	ND	ND
H	2/13/2002	4	ND	ND	ND	ND	ND	ND	ND	ND	ND
H	5/22/2002	-	NC	NC	NC	NC	NC	NC	NC	NC	NC
I	11/16/2001	3	ND	ND	ND	ND	ND	ND	ND	ND	ND
I	2/14/2002	5	12.1	ND	ND						
I	5/22/2002	5	6.8J	ND	ND	4.7J	1.9J	ND	ND	ND	4.2J
I	9/17/2002	6	ND ⁹	ND	ND						
I	10/31/2002	6	ND	ND	ND	ND	ND	ND	ND	ND	ND
I	1/14/2003	8	ND (<2.6) ¹⁰	ND (<2.6)	ND (<2.6)						
I	7/21/2003	4	ND	ND	ND	ND	ND	ND	ND	ND	ND
I-dup	7/21/2003	4	ND	ND	ND	ND	ND	ND	ND	ND	ND
J	11/16/2001	8	ND	ND	ND	ND	ND	ND	ND	ND	ND
J	2/14/2002	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
J	5/22/2002	8	ND	ND	ND	4.1J	ND	ND	ND	ND	7.5J
J	9/17/2002	7	ND	ND	ND	ND	ND	ND	ND	ND	ND
J	10/31/2002	8	ND	ND	ND	ND	ND	ND	ND	ND	ND
J	1/14/2003	8	ND (<2.4)	ND (<2.4)	ND (<2.4)	ND (<2.4)	ND (<2.4)	ND (<2.4)	ND (<2.4)	ND (<2.4)	ND (<2.4)
J	7/21/2003	7	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 2a. Concentrations of volatile organic compounds (VOCs)¹ in samples of sediment from the low-lying area; August 2003 Low-Lying Area Report; Coliseum Boulevard Plume Investigation; Montgomery, Alabama. [Distributions of VOCs in sediment samples are shown on Figure 3.]

		Sediment Lab Results										
Sample Location Identifier	Sample Date	Approximate Sample Depth (inches)	Trichloroethylene	Trichlorofluoromethane	Benzene	Toluene	M,P-Xylenes	Cis-1,2-Dichloroethene	Vinyl Chloride	Cis-1,3-Dichloropropene	Methylene Chloride ²	
			[Concentrations are in micrograms per kilogram (µg/kg)]									
			3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³
K	11/16/2001	8	ND	ND	ND	ND	ND	ND	ND	ND	3.1J	
K-dup	11/16/2001	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	
K	2/14/2002	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	
K-dup	2/14/2002	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	
K	5/22/2002	12	ND	ND	ND	6.0J	ND	ND	ND	ND	3.2J	
K	9/17/2002	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	
K	10/31/2002	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	
K	1/14/2003	10	ND (<1.6)	ND (<1.6)	ND (<1.6)	ND (<1.6)	ND (<1.6)	ND (<1.6)	ND (<1.6)	ND (<1.6)	ND (<1.6)	
K	7/21/2003	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	
L	11/16/2001	10	3.9J	ND	3.1J							
L	2/14/2002	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	
L	5/22/2002	10	ND	ND	ND	ND	ND	ND	ND	ND	4.8J	
L-dup	5/22/2002	10	ND	ND	ND	ND	ND	ND	ND	ND	4.8J	
L	9/17/2002	8	26.4J	ND	ND	ND	ND	6.3J	ND	ND	ND	
L	10/31/2002	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	
L	1/14/2003	9	ND (<1.2)	ND (<1.2)	ND (<1.2)	ND (<1.2)	ND (<1.2)	ND (<1.2)	ND (<1.2)	ND (<1.2)	ND (<1.2)	
L	7/21/2003	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	
M	11/16/2001	10	ND	ND	ND	ND	ND	ND	ND	ND	4.8J	
M	2/14/2002	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	
M	5/22/2002	8	ND	ND	ND	3.0J	ND	ND	ND	ND	3.3J	
M	9/17/2002	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	
M	10/31/2002	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	
M	1/14/2003	9	ND (<1.3)	ND (<1.3)	ND (<1.3)	ND (<1.3)	ND (<1.3)	ND (<1.3)	ND (<1.3)	ND (<1.3)	ND (<1.3)	
M	7/29/03 ¹¹	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	
N	11/15/2001	3	50.6J	ND	ND	16.4J	ND	ND	ND	ND	6.6J	
N	2/13/2002	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	
N	5/22/2002	10	ND	ND	ND	ND	ND	ND	ND	ND	3.3J	
N	9/17/2002	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	
N-dup	9/17/2002	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	
N	10/31/2002	12	ND	ND	ND	3.2J	ND	ND	ND	ND	ND	
N	1/14/2003	8	ND (<1.2)	ND (<1.2)	ND (<1.2)	ND (<1.2)	ND (<1.2)	ND (<1.2)	ND (<1.2)	ND (<1.2)	ND (<1.2)	
N	7/21/2003	2	3.6J	ND	ND	ND	ND	ND	3.0J	ND	ND	
O	11/15/2001	3	ND	ND	ND	3.3J	ND	ND	ND	ND	3.1J	
O	2/13/2002	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	
O	5/22/2002	8	ND	5.7J	ND	4.0J	ND	ND	ND	ND	4.8J	
O	9/17/2002	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	
O	10/31/2002	12	ND	ND	ND	7.1J	ND	ND	35.1	ND	ND	
O	1/14/2003	11	ND (<1.6)	ND (<1.6)	ND (<1.6)	ND (<1.6)	ND (<1.6)	ND (<1.6)	ND (<1.6)	ND (<1.6)	ND (<1.6)	
O	7/21/2003	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Table 2a. Concentrations of volatile organic compounds (VOCs)¹ in samples of sediment from the low-lying area; August 2003 Low-Lying Area Report; Coliseum Boulevard Plume Investigation; Montgomery, Alabama. [Distributions of VOCs in sediment samples are shown on Figure 3.]

		Sediment Lab Results									
Sample Location Identifier	Sample Date	Approximate Sample Depth (inches)	Trichloroethylene	Trichlorofluoromethane	Benzene	Toluene	M,P-Xylenes	Cis-1,2-Dichloroethene	Vinyl Chloride	Cis-1,3-Dichloropropene	Methylene Chloride ²
			[Concentrations are in micrograms per kilogram (µg/kg)]								
			3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³	3.0 µg/kg ³
P	11/15/2001	2	ND	7.1J	ND	ND	ND	ND	ND	ND	ND
P	2/13/2002	9	10.6	ND	ND						
P	5/22/2002	11	7.0J	ND	6.7J						
P	9/17/2002	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
P	10/31/2002	8	ND	ND	ND	ND	ND	ND	ND	ND	ND
P	1/14/2003	10	11.0	ND (<1.1)	ND (<1.1)						
P	7/21/2003	8	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

- ¹ Samples were analyzed by **TTL, Inc.** in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.
- ² Methylene Chloride is considered to have been present in the laboratory during analysis of the samples.
- ³ MDL - Method Detection Limit of 3.0 micrograms per kilogram (µg/kg) for the soil laboratory analyses
- ⁴ ND - Not Detected
- ⁵ J - Concentration below the calibration curve, but above the detection limit
- ⁶ NC - Not Collected during indicated sampling period. Quarterly sampling was initiated after the February 2002 sampling event and the only sample locations to be sampled are I through P.
- ⁷ dup - Duplicate sample collected for quality assurance/quality control purposes.
- ⁸ NR - Not Reported, analytical results were not reported by STL laboratories because the soil sample appeared to have something in the matrix which caused the sample not to purge.
- ⁹ Results are reported on "wet-weight" basis.
- ¹⁰ Soil samples collected on 1/14/03 were analyzed by STL Laboratories because **TTL**
- ¹¹ Sampling location M could not be found on 7/21/03. Sampling location M was found on 7/29/03 and sampled.

Table 2b. Concentrations of volatile organic compounds (VOCs)¹ in samples of surface water from the low-lying area; August 2003 Low-Lying Report; Coliseum Boulevard Plume Investigation; Montgomery, Alabama. [Distributions of VOCs in surface-water samples are shown on Figure 4.]

		Aqueous Lab Results					
		Trichloroethylene	Toluene	Chloromethane	Vinyl Chloride	Cis-1,2-Dichloroethane	Methylene Chloride ²
Sample Identifier	Sample Date	[Concentrations are in micrograms per liter (µg/l)]					
		1.0 µg/l ³	1.0 µg/l ³	1.0 µg/l ³	1.0 µg/l ³	1.0 µg/l ³	1.0 µg/l ³
A	11/15/2001	ND ⁴	ND	ND	ND	ND	ND
A	2/13/2002	ND	ND	ND	ND	ND	ND
A	5/22/2002	NC ⁵	NC	NC	NC	NC	NC
B	11/15/2001	NC	NC	NC	NC	NC	NC
B	2/13/2002	ND	ND	ND	ND	ND	ND
B-dup ⁶	2/13/2002	ND	ND	ND	ND	ND	ND
B	5/22/2002	NC	NC	NC	NC	NC	NC
C	11/15/2001	NC	NC	NC	NC	NC	NC
C	2/13/2002	ND	ND	ND	ND	ND	ND
C	5/22/2002	NC	3	NC	NC	NC	NC
D	11/15/2001	NC	NC	NC	NC	NC	NC
D-dup	11/15/2001	NC	NC	NC	NC	NC	NC
D	2/13/2002	ND	ND	ND	ND	ND	ND
D	5/22/2002	NC	NC	NC	NC	NC	NC
E	11/15/2001	NC	NC	NC	NC	NC	NC
E	2/13/2002	ND	ND	ND	ND	ND	ND
E	5/22/2002	NC	NC	NC	NC	NC	NC
F	11/15/2001	NC	NC	NC	NC	NC	NC
F	2/13/2002	ND	1.1J ⁷	ND	ND	ND	ND
F	5/22/2002	NC	NC	NC	NC	NC	NC
G	11/15/2001	NC	NC	NC	NC	NC	NC
G	2/13/2002	ND	ND	ND	ND	ND	ND
G	5/22/2002	NC	NC	NC	NC	NC	NC
H	11/15/2001	ND	ND	ND	ND	ND	ND
H	2/13/2002	ND	ND	ND	ND	ND	ND
H	5/22/2002	NC	NC	NC	NC	NC	NC
I	11/16/2001	4.6J	ND	ND	ND	ND	ND
I	2/14/2002	5.0J	ND	ND	ND	ND	ND
I	5/22/2002	2.3J	ND	ND	ND	ND	ND
I	9/17/2002	ND	ND	ND	ND	ND	ND
I	10/31/2002	4.2J	ND	ND	ND	ND	ND
I	1/14/2003	4.3J	ND	ND	ND	ND	ND
I	7/21/2003	7.5J	ND	ND	ND	ND	ND
I-dup	7/21/2003	7.5J	ND	ND	ND	ND	ND
J	11/16/2001	2.8J	ND	ND	ND	ND	ND
J	2/14/2002	3.9J	ND	ND	ND	ND	ND
J	5/22/2002	1.9J	ND	ND	ND	ND	ND
J	9/17/2002	ND	ND	ND	ND	ND	ND
J	10/31/2002	3.9J	ND	ND	ND	ND	ND
J	1/14/2003	2.9J	ND	ND	ND	ND	ND
J	7/21/2003	8.3J	ND	ND	ND	ND	ND

Table 2b. Concentrations of volatile organic compounds (VOCs)¹ in samples of surface water from the low-lying area; August 2003 Low-Lying Report; Coliseum Boulevard Plume Investigation; Montgomery, Alabama. [Distributions of VOCs in surface-water samples are shown on Figure 4.]

		Aqueous Lab Results					
		Trichloroethylene	Toluene	Chloromethane	Vinyl Chloride	Cis-1,2-Dichloroethane	Methylene Chloride ²
Sample Identifier	Sample Date	[Concentrations are in micrograms per liter (µg/l)]					
		1.0 µg/l ³	1.0 µg/l ³	1.0 µg/l ³	1.0 µg/l ³	1.0 µg/l ³	1.0 µg/l ³
<i>Continued on next page</i>							
K	11/16/2001	4.9J	ND	ND	ND	ND	ND
K-dup	11/16/2001	4.9J	ND	ND	ND	ND	ND
K	2/14/2002	16.4J	ND	ND	ND	ND	ND
K-dup	2/14/2003	16.2J	ND	ND	ND	ND	ND
K	5/22/2002	5.5J	ND	ND	ND	ND	ND
K	9/17/2002	2.2J	1.4J	ND	ND	ND	ND
K	10/31/2002	5.5J	ND	ND	ND	ND	ND
K	1/14/2003	13.9J	ND	ND	ND	ND	ND
K	7/21/2003	20.3	ND	ND	ND	ND	ND
L	11/16/2001	2.9J	ND	ND	ND	ND	ND
L	2/14/2002	7.9J	ND	ND	ND	ND	ND
L	5/22/2002	2.7J	ND	ND	ND	ND	ND
L-dup	5/22/2002	2.6J	ND	ND	ND	ND	ND
L	9/17/2002	1.4J	ND	ND	ND	ND	ND
L	10/31/2002	3.4J	ND	ND	ND	ND	ND
L	1/14/2003	6.0J	ND	ND	ND	ND	ND
L	7/21/2003	4.3J	ND	ND	ND	ND	ND
M	11/16/2001	ND	ND	ND	ND	ND	ND
M	2/14/2002	ND	ND	ND	ND	ND	ND
M	5/22/2002	NC	NC	NC	NC	NC	NC
M	9/17/2002	NC	NC	NC	NC	NC	NC
M	10/31/2002	NC	NC	NC	NC	NC	NC
M	1/14/2003	ND	ND	ND	ND	ND	ND
M	7/29/03 ⁸	ND	5.0J	ND	ND	ND	ND
N	11/15/2001	7.0J	ND	ND	ND	ND	ND
N	2/13/2002	16.8J	ND	ND	ND	ND	ND
N	5/22/2002	7.6J	ND	ND	ND	ND	ND
N	9/17/2002	3.7J	ND	ND	ND	ND	ND
N-dup	9/17/2002	3.7J	ND	ND	ND	ND	ND
N	10/31/2002	10.0J	ND	ND	ND	ND	ND
N	1/14/2003	15.2J	ND	ND	ND	ND	ND
N	7/21/2003	28.0	ND	ND	ND	ND	ND
O	11/15/2001	NC	NC	NC	NC	NC	NC
O	2/13/2002	ND	ND	ND	ND	ND	ND
O	5/22/2002	NC	NC	NC	NC	NC	NC
O	9/17/2002	ND	ND	1.0J	ND	ND	ND
O	10/31/2002	2.5J	ND	ND	4.8J	15.3J	ND
O	1/14/2003	4.8J	ND	ND	ND	14.4J	ND
O	7/21/2003	Dry ⁹	Dry	Dry	Dry	Dry	Dry

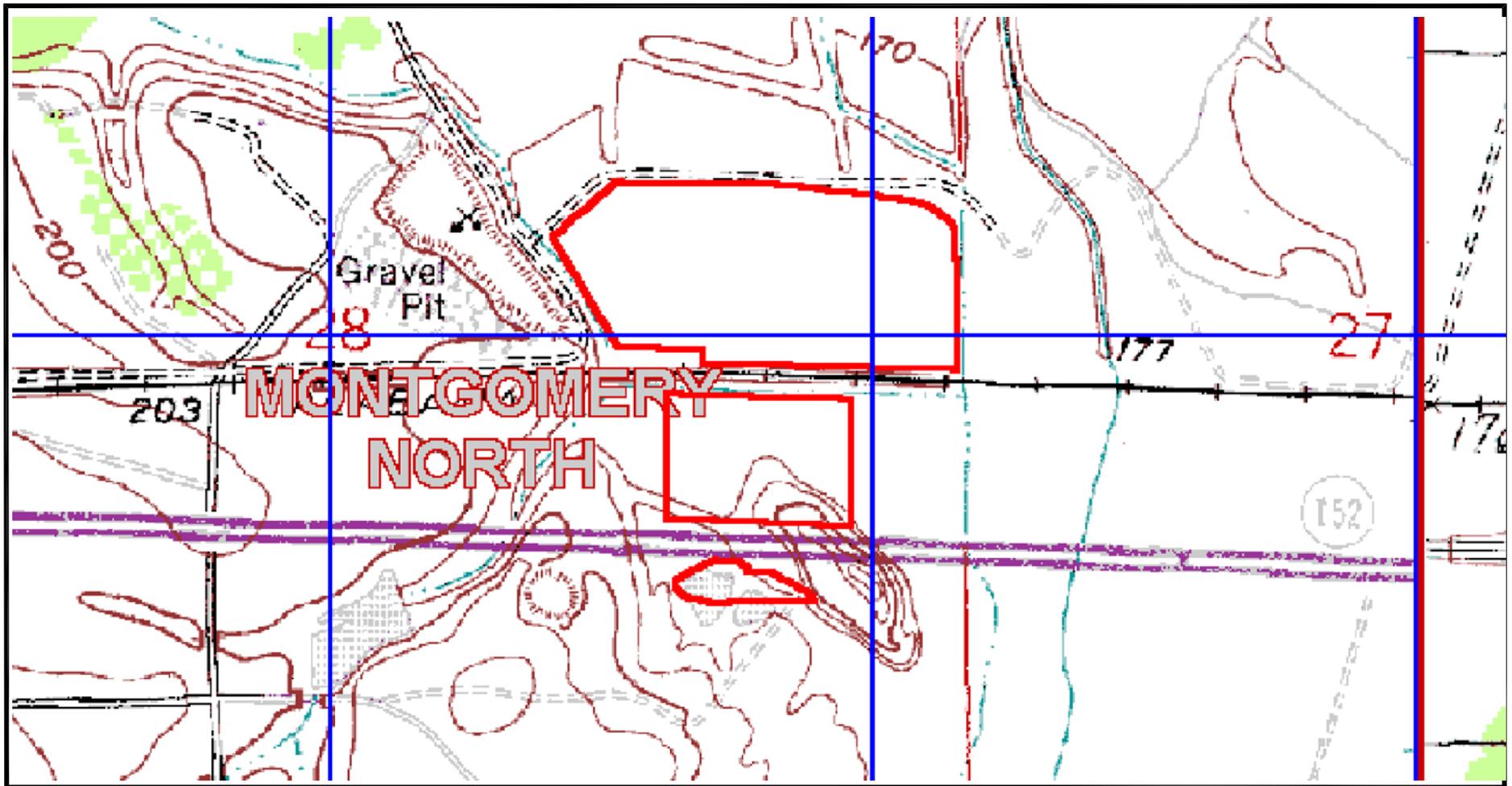
Table 2b. Concentrations of volatile organic compounds (VOCs)¹ in samples of surface water from the low-lying area; August 2003 Low-Lying Report; Coliseum Boulevard Plume Investigation; Montgomery, Alabama. [Distributions of VOCs in surface-water samples are shown on Figure 4.]

Sample Identifier	Sample Date	Aqueous Lab Results					
		Trichloroethylene	Toluene	Chloromethane	Vinyl Chloride	Cis-1,2-Dichloroethane	Methylene Chloride ²
		[Concentrations are in micrograms per liter (µg/l)]					
		1.0 µg/l ³	1.0 µg/l ³	1.0 µg/l ³	1.0 µg/l ³	1.0 µg/l ³	1.0 µg/l ³
P	11/15/2001	16.8J	ND	ND	ND	ND	ND
P	2/13/2002	41.2	ND	ND	ND	ND	ND
P	5/22/2002	22.4	ND	ND	ND	ND	ND
P	9/17/2002	10.5J	ND	ND	ND	ND	ND
P	10/31/2002	25.1	ND	ND	ND	ND	ND
P	1/14/2003	43.2	ND	ND	ND	ND	ND
P	7/21/2003	42.2	ND	ND	ND	ND	ND
Rinsate	11/15/2001	ND	ND	ND	ND	ND	ND
Blank	11/15/2001	ND	ND	ND	ND	ND	ND
Rinsate	2/13/2002	ND	ND	ND	ND	ND	ND
Blank	2/13/2002	ND	ND	ND	ND	ND	ND
Rinsate	5/22/2002	ND	ND	ND	ND	ND	5.1J
Blank	5/22/2002	ND	ND	ND	ND	ND	ND
Rinsate	9/17/2002	ND	ND	ND	ND	ND	ND
Blank	9/17/2002	ND	ND	ND	ND	ND	ND
Rinsate	10/31/2002	ND	ND	ND	ND	ND	ND
Blank	10/31/2002	ND	ND	ND	ND	ND	ND
Rinsate	1/14/2003	ND	ND	ND	ND	ND	ND
Blank	1/14/2003	ND	ND	ND	ND	ND	ND
Blank	7/21/2003	ND	ND	ND	ND	ND	ND
Rinsate	7/21/2003	ND	ND	ND	ND	ND	ND
Blank	7/29/2003	ND	ND	ND	ND	ND	ND
Rinsate 2	11/16/2001	ND	ND	ND	ND	ND	ND
Blank	11/16/2001	ND	ND	ND	ND	ND	ND
Rinsate 2	2/14/2002	ND	ND	ND	ND	ND	ND
Blank	2/14/2002	ND	ND	ND	ND	ND	ND

Notes:

- ¹ Samples were analyzed by **TTL, Inc.** in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.
- ² Methylene Chloride is considered to have been present in the laboratory during analysis of the samples.
- ³ MDL - Method Detection Limit of 1.0 microgram per liter (µg/l) for the aqueous laboratory analyses
- ⁴ ND - Not Detected
- ⁵ NC - Not Collected; sampling location was not scheduled to be sampled. Quarterly sampling was initiated after the February 2002 sampling event and the only sample locations to be sampled are I through P.
- ⁶ dup - Duplicate sample collected for quality assurance/quality control purposes.
- ⁷ J - Concentration below the calibration curve, but above the method detection limit
- ⁸ Sampling location M was not found on 7/21/03. Sampling location M was located on 7/29/03 and sampled.
- ⁹ Surface water was not present.

FIGURES



Source: USGS Tuscaloosa 7.5 Minute Quadrangle Maps

Figure 1. Locations of Low Lying Areas. Summary Report for Semi-Annual Sampling Results; Investigation of "Low Lying Areas"; Coliseum Boulevard Plume; Montgomery, Alabama.



4154 Lomac Street ■ Montgomery, Alabama 36106
334.244.0766 ■ Fax 334.244.6668

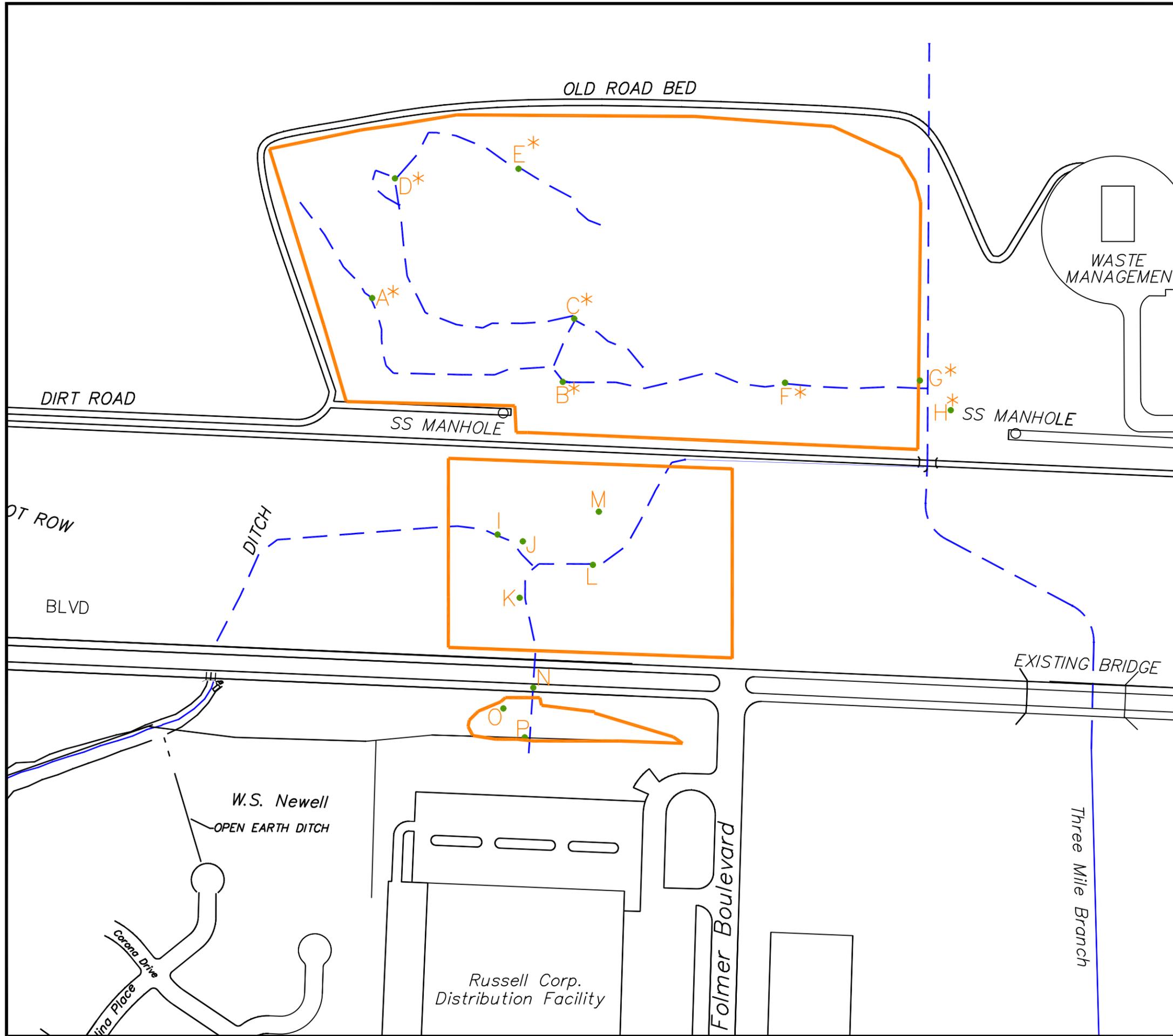
TTL PROJECT NO: 0700-024



Low Lying Areas



1" = 16,000'



LEGEND:

-  Boundary of Low Lying Area
-  Sample location and Identifier
-  Approximate locations of intermittent streams
-  Not sampled - Location was not scheduled for sampling during this quarterly event

ALDOT Coliseum Boulevard Plume Investigation

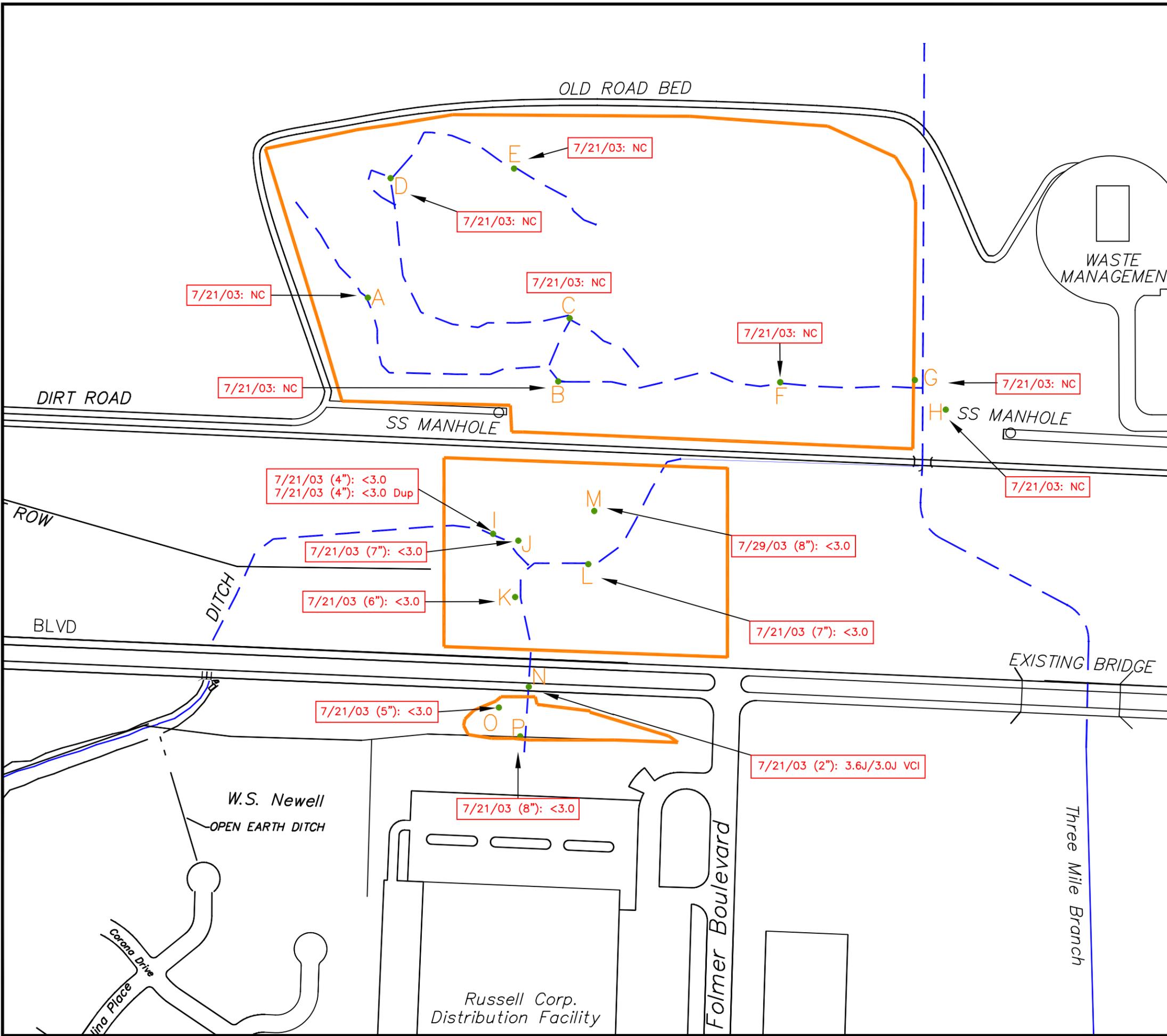
TTL
Technology and Tradition

4154 Lomax Street ■ Montgomery, Alabama 36106
334.244.0750 ■ Fax: 334.244.6958

Sample locations and identifiers. July 21 and 29, 2003. First Semi-Annual Event. "Low-Lying Areas." Coliseum Boulevard Plume. Montgomery, Alabama.

TTL PROJECT NUMBER:0700-024

Drawing No. 030509 SCALE: 1" = 300' Figure 2



7/21/03: NC

7/21/03 (4"): <3.0
7/21/03 (4"): <3.0 Dup

7/21/03 (7"): <3.0

7/21/03 (6"): <3.0

7/29/03 (8"): <3.0

7/21/03 (7"): <3.0

7/21/03 (5"): <3.0

7/21/03 (8"): <3.0

7/21/03 (2"): 3.6J/3.0J VCI

7/21/03 (8"): <3.0/3.0J VC

NC
VC
Dup

LEGEND:

Sample date (depth): TCE Concentrations (ug/kg)

Not collected
Vinyl Chloride
Duplicate sample collected for quality assurance/quality control

Boundary of Low Lying Area

Sample location and Identifier

Approximate locations of intermittent streams

ALDOT Coliseum Boulevard Plume Investigation



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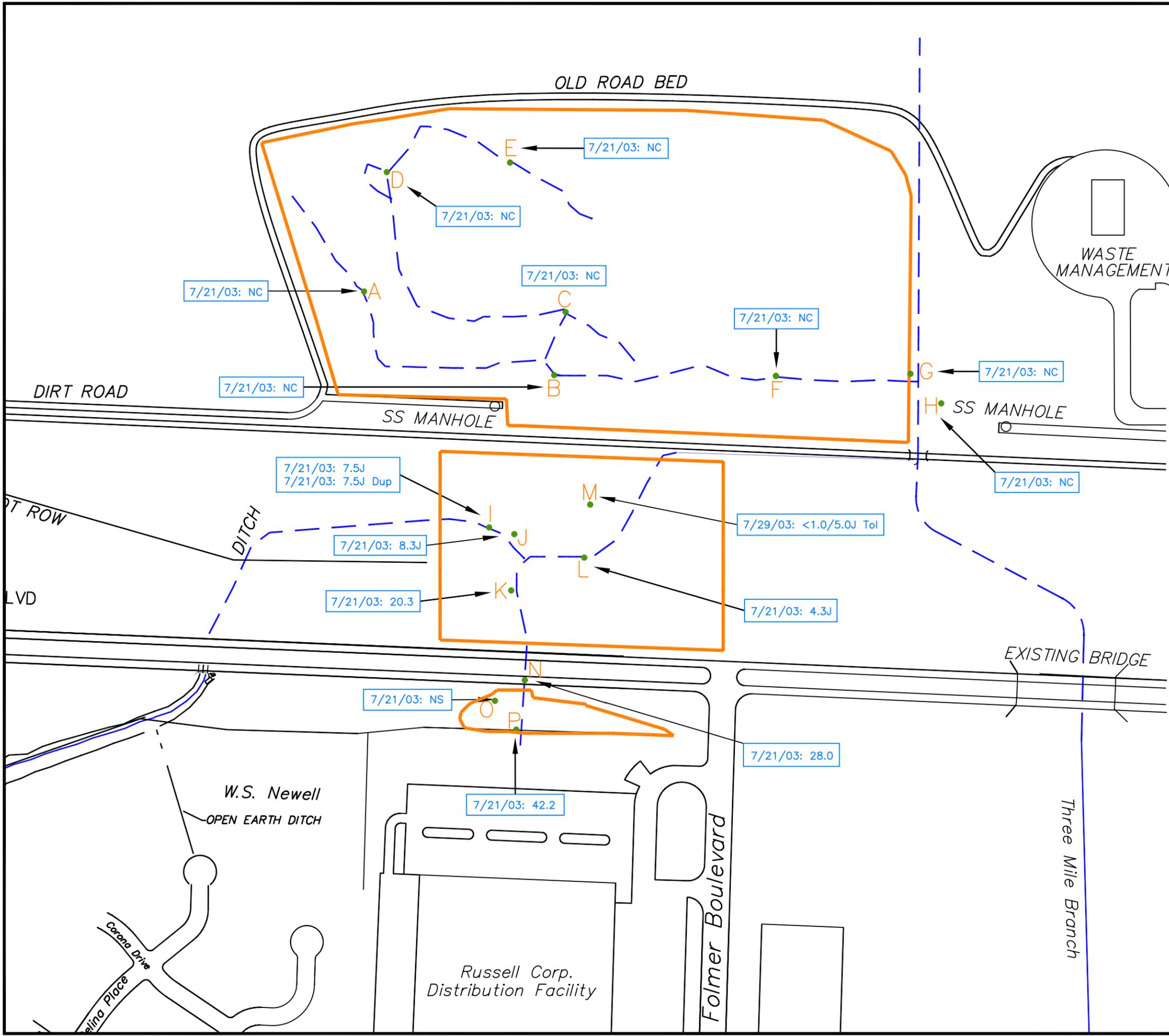
Analytical results of sediment/soil samples on July 21 and 29, 2003. Investigation of "Low-Lying Areas." Coliseum Boulevard Plume. Montgomery, Alabama.

TTL PROJECT NUMBER:0700-024

SCALE: 1" = 300'

Figure 3

Drawing No. 030206



LEGEND:

- 7/21/03: 7.5J Sample date: TCE (ug/L)
- J Concentration below alibration curve, but above detection limit
- Dup Duplicate sample collected for quality assurance/quality control
- Tol Toluene (ug/L)
- NC Not Collected
- NS Not Sampled; Insufficient water
- Boundary of Low Lying Area
- M Sample location and Identifier
- Approximate locations of intermittent streams

ALDOT Coliseum Boulevard Plume Investigation

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334.244.0796 ■ Fax 334.244.6666

Analytical results of surficial water samples on July 21 and 29, 2003. Investigation of "Low-Lying Areas." Coliseum Boulevard Plume. Montgomery, Alabama.

TTL PROJECT NUMBER:0700-024

SCALE: 1" = 300' Figure 4

Drawing No. 030206.1

ATTACHMENT



Construction Materials Engineering and Testing ■
Environmental Engineering and Consulting ■
Geotechnical Engineering ■
Analytical Services ■

Client: Alabama Department of Transportation
Sample Date: July 21, 2003
Date Analyzed: July 26, 2003
Analyzed By: TTL Personnel (VJB)
Sample Type: Soil
Sampled By: TTL Personnel (BB/RR)
Sample Site: Coliseum Boulevard Plume, Montgomery, AL
Sample ID: N - 2 in
TTL Lab Number: 030723.49
TTL Job Number: 0700-024

VOLATILE ORGANIC HYDROCARBONS

<u>COMPOUNDS</u>	<u>RESULTS, µg/Kg</u>	<u>FLAG*</u>
Chloromethane:	3.0	ND
Vinyl Chloride:	3.0	J
Chloroethane:	3.0	ND
Trichlorofluoromethane:	3.0	ND
1,1-Dichloroethene:	3.0	ND
Methylene Chloride:	3.0	ND
Trans-1,2-Dichloroethene:	3.0	ND
1,1-Dichloroethane:	3.0	ND
Cis-1,2-Dichloroethene:	3.0	ND
Chloroform:	3.0	ND
1,1,1-Trichloroethane:	3.0	ND
Carbon Tetrachloride:	3.0	ND
Benzene:	3.0	ND
1,2-Dichloroethane:	3.0	ND
Trichloroethylene:	3.6	J
1,2-Dichloropropane:	3.0	ND
Bromodichloromethane:	3.0	ND
CIS-1,3-Dichloropropene:	3.0	ND
Toluene:	3.0	ND
Trans-1,3-Dichloropropene:	3.0	ND
1,1,2-Trichloroethane:	3.0	ND
Tetrachloroethylene:	3.0	ND
Dibromochloromethane:	3.0	ND
Chlorobenzene:	3.0	ND
1,1,1,2-Tetrachloroethane:	3.0	ND
Ethylbenzene:	3.0	ND
M,P-Xylenes:	3.0	ND
O-Xylene:	3.0	ND
Bromoform:	3.0	ND
1,1,2,2-Tetrachloroethane:	3.0	ND
1,3-Dichlorobenzene:	3.0	ND
1,4-Dichlorobenzene:	3.0	ND
1,2-Dichlorobenzene:	3.0	ND

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

* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



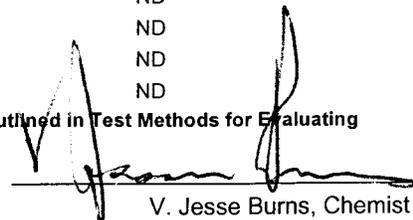
Construction Materials Engineering and Testing ■
 Environmental Engineering and Consulting ■
 Geotechnical Engineering ■
 Analytical Services ■

Client: Alabama Department of Transportation
 Sample Date: July 21, 2003
 Date Analyzed: July 26, 2003
 Analyzed By: TTL Personnel (VJB)
 Sample Type: Soil
 Sampled By: TTL Personnel (BB/RR)
 Sample Site: Coliseum Boulevard Plume, Montgomery, AL
 Sample ID: P - 8 in
 TTL Lab Number: 030723.50
 TTL Job Number: 0700-024

VOLATILE ORGANIC HYDROCARBONS

<u>COMPOUNDS</u>	<u>RESULTS, µg/Kg</u>	<u>FLAG*</u>
Chloromethane:	3.0	ND
Vinyl Chloride:	3.0	ND
Chloroethane:	3.0	ND
Trichlorofluoromethane:	3.0	ND
1,1-Dichloroethene:	3.0	ND
Methylene Chloride:	3.0	ND
Trans-1,2-Dichloroethene:	3.0	ND
1,1-Dichloroethane:	3.0	ND
Cis-1,2-Dichloroethene:	3.0	ND
Chloroform:	3.0	ND
1,1,1-Trichloroethane:	3.0	ND
Carbon Tetrachloride:	3.0	ND
Benzene:	3.0	ND
1,2-Dichloroethane:	3.0	ND
Trichloroethylene:	3.0	ND
1,2-Dichloropropane:	3.0	ND
Bromodichloromethane:	3.0	ND
CIS-1,3-Dichloropropene:	3.0	ND
Toluene:	3.0	ND
Trans-1,3-Dichloropropene:	3.0	ND
1,1,2-Trichloroethane:	3.0	ND
Tetrachloroethylene:	3.0	ND
Dibromochloromethane:	3.0	ND
Chlorobenzene:	3.0	ND
1,1,1,2-Tetrachloroethane:	3.0	ND
Ethylbenzene:	3.0	ND
M,P-Xylenes:	3.0	ND
O-Xylene:	3.0	ND
Bromoform:	3.0	ND
1,1,2,2-Tetrachloroethane:	3.0	ND
1,3-Dichlorobenzene:	3.0	ND
1,4-Dichlorobenzene:	3.0	ND
1,2-Dichlorobenzene:	3.0	ND

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

* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



Construction Materials Engineering and Testing ■
 Environmental Engineering and Consulting ■
 Geotechnical Engineering ■
 Analytical Services ■

Client: Alabama Department of Transportation
 Sample Date: July 21, 2003
 Date Analyzed: July 26, 2003
 Analyzed By: TTL Personnel (VJB)
 Sample Type: Soil
 Sampled By: TTL Personnel (BB/RR)
 Sample Site: Coliseum Boulevard Plume, Montgomery, AL
 Sample ID: O - 5 in
 TTL Lab Number: 030723.51
 TTL Job Number: 0700-024

VOLATILE ORGANIC HYDROCARBONS

<u>COMPOUNDS</u>	<u>RESULTS, µg/Kg</u>	<u>FLAG*</u>
Chloromethane:	3.0	ND
Vinyl Chloride:	3.0	ND
Chloroethane:	3.0	ND
Trichlorofluoromethane:	3.0	ND
1,1-Dichloroethene:	3.0	ND
Methylene Chloride:	3.0	ND
Trans-1,2-Dichloroethene:	3.0	ND
1,1-Dichloroethane:	3.0	ND
Cis-1,2-Dichloroethene:	3.0	ND
Chloroform:	3.0	ND
1,1,1-Trichloroethane:	3.0	ND
Carbon Tetrachloride:	3.0	ND
Benzene:	3.0	ND
1,2-Dichloroethane:	3.0	ND
Trichloroethylene:	3.0	ND
1,2-Dichloropropane:	3.0	ND
Bromodichloromethane:	3.0	ND
CIS-1,3-Dichloropropene:	3.0	ND
Toluene:	3.0	ND
Trans-1,3-Dichloropropene:	3.0	ND
1,1,2-Trichloroethane:	3.0	ND
Tetrachloroethylene:	3.0	ND
Dibromochloromethane:	3.0	ND
Chlorobenzene:	3.0	ND
1,1,1,2-Tetrachloroethane:	3.0	ND
Ethylbenzene:	3.0	ND
M,P-Xylenes:	3.0	ND
O-Xylene:	3.0	ND
Bromoform:	3.0	ND
1,1,2,2-Tetrachloroethane:	3.0	ND
1,3-Dichlorobenzene:	3.0	ND
1,4-Dichlorobenzene:	3.0	ND
1,2-Dichlorobenzene:	3.0	ND

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

* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



Construction Materials Engineering and Testing ■
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 Geotechnical Engineering ■
 Analytical Services ■

Client: Alabama Department of Transportation
Sample Date: July 21, 2003
Date Analyzed: July 26, 2003
Analyzed By: TTL Personnel (VJB)
Sample Type: Soil
Sampled By: TTL Personnel (BB/RR)
Sample Site: Coliseum Boulevard Plume, Montgomery, AL
Sample ID: K - 6 in
TTL Lab Number: 030723.52
TTL Job Number: 0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	RESULTS. µg/Kg	FLAG*
Chloromethane:	3.0	ND
Vinyl Chloride:	3.0	ND
Chloroethane:	3.0	ND
Trichlorofluoromethane:	3.0	ND
1,1-Dichloroethene:	3.0	ND
Methylene Chloride:	3.0	ND
Trans-1,2-Dichloroethene:	3.0	ND
1,1-Dichloroethane:	3.0	ND
Cis-1,2-Dichloroethene:	3.0	ND
Chloroform:	3.0	ND
1,1,1-Trichloroethane:	3.0	ND
Carbon Tetrachloride:	3.0	ND
Benzene:	3.0	ND
1,2-Dichloroethane:	3.0	ND
Trichloroethylene:	3.0	ND
1,2-Dichloropropane:	3.0	ND
Bromodichloromethane:	3.0	ND
CIS-1,3-Dichloropropene:	3.0	ND
Toluene:	3.0	ND
Trans-1,3-Dichloropropene:	3.0	ND
1,1,2-Trichloroethane:	3.0	ND
Tetrachloroethylene:	3.0	ND
Dibromochloromethane:	3.0	ND
Chlorobenzene:	3.0	ND
1,1,1,2-Tetrachloroethane:	3.0	ND
Ethylbenzene:	3.0	ND
M,P-Xylenes:	3.0	ND
O-Xylene:	3.0	ND
Bromoform:	3.0	ND
1,1,2,2-Tetrachloroethane:	3.0	ND
1,3-Dichlorobenzene:	3.0	ND
1,4-Dichlorobenzene:	3.0	ND
1,2-Dichlorobenzene:	3.0	ND

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

* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



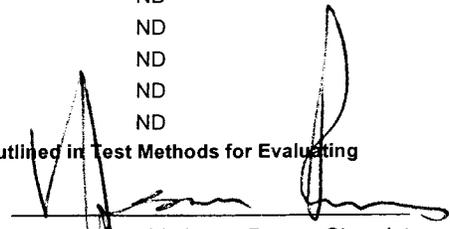
Construction Materials Engineering and Testing ■
 Environmental Engineering and Consulting ■
 Geotechnical Engineering ■
 Analytical Services ■

Client: Alabama Department of Transportation
 Sample Date: July 21, 2003
 Date Analyzed: July 26, 2003
 Analyzed By: TTL Personnel (VJB)
 Sample Type: Soil
 Sampled By: TTL Personnel (BB/RR)
 Sample Site: Coliseum Boulevard Plume, Montgomery, AL
 Sample ID: I - 4 in
 TTL Lab Number: 030723.53
 TTL Job Number: 0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	RESULTS, µg/Kg	FLAG*
Chloromethane:	3.0	ND
Vinyl Chloride:	3.0	ND
Chloroethane:	3.0	ND
Trichlorofluoromethane:	3.0	ND
1,1-Dichloroethene:	3.0	ND
Methylene Chloride:	3.0	ND
Trans-1,2-Dichloroethene:	3.0	ND
1,1-Dichloroethane:	3.0	ND
Cis-1,2-Dichloroethene:	3.0	ND
Chloroform:	3.0	ND
1,1,1-Trichloroethane:	3.0	ND
Carbon Tetrachloride:	3.0	ND
Benzene:	3.0	ND
1,2-Dichloroethane:	3.0	ND
Trichloroethylene:	3.0	ND
1,2-Dichloropropane:	3.0	ND
Bromodichloromethane:	3.0	ND
CIS-1,3-Dichloropropene:	3.0	ND
Toluene:	3.0	ND
Trans-1,3-Dichloropropene:	3.0	ND
1,1,2-Trichloroethane:	3.0	ND
Tetrachloroethylene:	3.0	ND
Dibromochloromethane:	3.0	ND
Chlorobenzene:	3.0	ND
1,1,1,2-Tetrachloroethane:	3.0	ND
Ethylbenzene:	3.0	ND
M,P-Xylenes:	3.0	ND
O-Xylene:	3.0	ND
Bromoform:	3.0	ND
1,1,2,2-Tetrachloroethane:	3.0	ND
1,3-Dichlorobenzene:	3.0	ND
1,4-Dichlorobenzene:	3.0	ND
1,2-Dichlorobenzene:	3.0	ND

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

* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



Construction Materials Engineering and Testing ■
Environmental Engineering and Consulting ■
Geotechnical Engineering ■
Analytical Services ■

Client: Alabama Department of Transportation
Sample Date: July 21, 2003
Date Analyzed: July 26, 2003
Analyzed By: TTL Personnel (VJB)
Sample Type: Soil
Sampled By: TTL Personnel (BB/RR)
Sample Site: Coliseum Boulevard Plume, Montgomery, AL
Sample ID: I - 4 in DUP
TTL Lab Number: 030723.54
TTL Job Number: 0700-024

VOLATILE ORGANIC HYDROCARBONS

<u>COMPOUNDS</u>	<u>RESULTS, µg/Kg</u>	<u>FLAG*</u>
Chloromethane:	3.0	ND
Vinyl Chloride:	3.0	ND
Chloroethane:	3.0	ND
Trichlorofluoromethane:	3.0	ND
1,1-Dichloroethene:	3.0	ND
Methylene Chloride:	3.0	ND
Trans-1,2-Dichloroethene:	3.0	ND
1,1-Dichloroethane:	3.0	ND
Cis-1,2-Dichloroethene:	3.0	ND
Chloroform:	3.0	ND
1,1,1-Trichloroethane:	3.0	ND
Carbon Tetrachloride:	3.0	ND
Benzene:	3.0	ND
1,2-Dichloroethane:	3.0	ND
Trichloroethylene:	3.0	ND
1,2-Dichloropropane:	3.0	ND
Bromodichloromethane:	3.0	ND
CIS-1,3-Dichloropropene:	3.0	ND
Toluene:	3.0	ND
Trans-1,3-Dichloropropene:	3.0	ND
1,1,2-Trichloroethane:	3.0	ND
Tetrachloroethylene:	3.0	ND
Dibromochloromethane:	3.0	ND
Chlorobenzene:	3.0	ND
1,1,1,2-Tetrachloroethane:	3.0	ND
Ethylbenzene:	3.0	ND
M,P-Xylenes:	3.0	ND
O-Xylene:	3.0	ND
Bromoform:	3.0	ND
1,1,2,2-Tetrachloroethane:	3.0	ND
1,3-Dichlorobenzene:	3.0	ND
1,4-Dichlorobenzene:	3.0	ND
1,2-Dichlorobenzene:	3.0	ND

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

* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



Construction Materials Engineering and Testing ■
 Environmental Engineering and Consulting ■
 Geotechnical Engineering ■
 Analytical Services ■

Client: Alabama Department of Transportation
 Sample Date: July 21, 2003
 Date Analyzed: July 26, 2003
 Analyzed By: TTL Personnel (VJB)
 Sample Type: Soil
 Sampled By: TTL Personnel (BB/RR)
 Sample Site: Coliseum Boulevard Plume, Montgomery, AL
 Sample ID: J - 7 in
 TTL Lab Number: 030723.55
 TTL Job Number: 0700-024

VOLATILE ORGANIC HYDROCARBONS

<u>COMPOUNDS</u>	<u>RESULTS, µg/Kg</u>	<u>FLAG*</u>
Chloromethane:	3.0	ND
Vinyl Chloride:	3.0	ND
Chloroethane:	3.0	ND
Trichlorofluoromethane:	3.0	ND
1,1-Dichloroethene:	3.0	ND
Methylene Chloride:	3.0	ND
Trans-1,2-Dichloroethene:	3.0	ND
1,1-Dichloroethane:	3.0	ND
Cis-1,2-Dichloroethene:	3.0	ND
Chloroform:	3.0	ND
1,1,1-Trichloroethane:	3.0	ND
Carbon Tetrachloride:	3.0	ND
Benzene:	3.0	ND
1,2-Dichloroethane:	3.0	ND
Trichloroethylene:	3.0	ND
1,2-Dichloropropane:	3.0	ND
Bromodichloromethane:	3.0	ND
CIS-1,3-Dichloropropene:	3.0	ND
Toluene:	3.0	ND
Trans-1,3-Dichloropropene:	3.0	ND
1,1,2-Trichloroethane:	3.0	ND
Tetrachloroethylene:	3.0	ND
Dibromochloromethane:	3.0	ND
Chlorobenzene:	3.0	ND
1,1,1,2-Tetrachloroethane:	3.0	ND
Ethylbenzene:	3.0	ND
M,P-Xylenes:	3.0	ND
O-Xylene:	3.0	ND
Bromoform:	3.0	ND
1,1,2,2-Tetrachloroethane:	3.0	ND
1,3-Dichlorobenzene:	3.0	ND
1,4-Dichlorobenzene:	3.0	ND
1,2-Dichlorobenzene:	3.0	ND

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

* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



Construction Materials Engineering and Testing ■
 Environmental Engineering and Consulting ■
 Geotechnical Engineering ■
 Analytical Services ■

Client: Alabama Department of Transportation
 Sample Date: July 21, 2003
 Date Analyzed: July 26, 2003
 Analyzed By: TTL Personnel (VJB)
 Sample Type: Soil
 Sampled By: TTL Personnel (BB/RR)
 Sample Site: Coliseum Boulevard Plume, Montgomery, AL
 Sample ID: L - 7 in
 TTL Lab Number: 030723.56
 TTL Job Number: 0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	RESULTS, µg/Kg	FLAG*
Chloromethane:	3.0	ND
Vinyl Chloride:	3.0	ND
Chloroethane:	3.0	ND
Trichlorofluoromethane:	3.0	ND
1,1-Dichloroethene:	3.0	ND
Methylene Chloride:	3.0	ND
Trans-1,2-Dichloroethene:	3.0	ND
1,1-Dichloroethane:	3.0	ND
Cis-1,2-Dichloroethene:	3.0	ND
Chloroform:	3.0	ND
1,1,1-Trichloroethane:	3.0	ND
Carbon Tetrachloride:	3.0	ND
Benzene:	3.0	ND
1,2-Dichloroethane:	3.0	ND
Trichloroethylene:	3.0	ND
1,2-Dichloropropane:	3.0	ND
Bromodichloromethane:	3.0	ND
CIS-1,3-Dichloropropene:	3.0	ND
Toluene:	3.0	ND
Trans-1,3-Dichloropropene:	3.0	ND
1,1,2-Trichloroethane:	3.0	ND
Tetrachloroethylene:	3.0	ND
Dibromochloromethane:	3.0	ND
Chlorobenzene:	3.0	ND
1,1,1,2-Tetrachloroethane:	3.0	ND
Ethylbenzene:	3.0	ND
M,P-Xylenes:	3.0	ND
O-Xylene:	3.0	ND
Bromoform:	3.0	ND
1,1,2,2-Tetrachloroethane:	3.0	ND
1,3-Dichlorobenzene:	3.0	ND
1,4-Dichlorobenzene:	3.0	ND
1,2-Dichlorobenzene:	3.0	ND

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

* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



Chain of Custody Form

Sample Security Requirements

Client: ALDOT-CBP Condition of Contents: Good

Contact: Kelada Dixon Sealed for Shipping By: RER

Mailing Address: 4154 Lomas st Initial Contents Temp.: Ice °C Seal Applied Yes No

City, State, Zip: Montgomery AL 36106 Sampling Status: Complete Expected Completion Date _____

Phone No.: (334) 244-0766 Custody Seal Intact Upon Receipt by Laboratory: Yes No

Date: 7-21-03 Condition of Contents: Good

Sampled By: Brad Baker Comments: Free

Sample Site: Low lying Areas

TTL Job No.: 0700-0241 Client P.O. # _____

Reporting Status: Routine; ASAP By _____ ; Rush By _____

Date	Time	Sample ID/Description	Sample Type	Sample Method		# of Containers	Preservatives	Analysis Parameters
				Grab	Comp			
7/21	1:30p	N - 2"	Solid	X		3	-	VOC
	1:45	P - 8"						
	2:00	O - 5"						
	2:30	K - 6"						
	2:50	I - 4"						
		I Duplicate - 4"						
	3:10	J - 9"						
	4:00	L - 7"						

CUSTODY TRANSFERS PRIOR TO SHIPPING

SHIPPING DETAILS

Relinquished by: (signed) Date/Time TD max Lab Received by: (signed) Date/Time _____

1 7/21/03 5:00pm Jeff Wharton 7-22-03 9:30

2 7/22/03 12:00 Jeff Wharton 7-23-03 9:45

3 7-23-03 9:58 _____

Air Bill #: 30117997025

Method of Shipment: Per

Received By Lab: Jeff Wharton

Date/Time: 07-23-03 09:55

TTL, Inc. - Tuscaloosa Office/Laboratory: 3516 Greensboro Avenue, Tuscaloosa, Alabama 35401, Telephone (205) 345-0816, FAX (205) 345-0992

TTL, Inc. - Montgomery Office: 4154 Lomas 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.



Chain of Custody Form

Sample Security Requirements

Client: ALDOT-CBP Condition of Contents: Good

Contact: Kidada Dixon Sealed for Shipping By: RED

Mailing Address: 4154 Lomac St Initial Contents Temp.: Fil °C Seal Applied Yes No

City, State, Zip: Montgomery, AL 36106 Sampling Status: Complete Expected Completion Date

Phone No.: (334) 244-0766 Custody Seal Intact Upon Receipt by Laboratory: Yes ✓ No

Date: 7-21-03 Condition of Contents: good

Sampled By: Brend Baker Comments: Ice

Sample Site: Low lying Areas Reporting Status: Routine; ASAP By _____; Rush By _____

TTL Job No.: 0200-024 Client P.O. # _____

Date	Time	Sample ID/Description	Sample Type	Sample Method		# of Containers	Preservatives	Analysis Parameters
				Grab	Comp			
7/21	1:30	N - 2"	Solid	X		1	-	VOC
	1:45	P - 8"						
	2:00	O - 5"						
	2:30	KC - 6"						
	2:50	I - 4"						
	3:10	J - 7"						
	4:00	L - 7"						

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished by: (signed) Date/Time 7/21/03 5:00pm Received by: (signed) Date/Time 7/22/03 9:30

1 James C. Glin

2 James C. Glin 7-22-03 10:00 James C. Glin 7-23-03 9:45

3 James C. Glin 7-23-03 9:55

SHIPPING DETAILS

Air Bill #: 3011799705

Method of Shipment: Express

Received By Lab: 072303 0955

Date/Time: _____

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.



Construction Materials Engineering and Testing ■
 Environmental Engineering and Consulting ■
 Geotechnical Engineering ■
 Analytical Services ■

Client: Alabama Department of Transportation
Sample Date: July 29, 2003
Date Analyzed: August 1, 2003
Analyzed By: TTL Personnel (VJB)
Sample Type: Soil
Sampled By: TTL Personnel (WGM/KJM)
Sample Site: Coliseum Boulevard Plume, Montgomery, AL
Sample ID: M - 8 in
TTL Lab Number: 030730.72
TTL Job Number: 0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	RESULTS, µg/Kg	FLAG*
Chloromethane:	3.0	ND
Vinyl Chloride:	3.0	ND
Chloroethane:	3.0	ND
Trichlorofluoromethane:	3.0	ND
1,1-Dichloroethene:	3.0	ND
Methylene Chloride:	3.0	ND
Trans-1,2-Dichloroethene:	3.0	ND
1,1-Dichloroethane:	3.0	ND
Cis-1,2-Dichloroethene:	3.0	ND
Chloroform:	3.0	ND
1,1,1-Trichloroethane:	3.0	ND
Carbon Tetrachloride:	3.0	ND
Benzene:	3.0	ND
1,2-Dichloroethane:	3.0	ND
Trichloroethylene:	3.0	ND
1,2-Dichloropropane:	3.0	ND
Bromodichloromethane:	3.0	ND
CIS-1,3-Dichloropropene:	3.0	ND
Toluene:	3.0	ND
Trans-1,3-Dichloropropene:	3.0	ND
1,1,2-Trichloroethane:	3.0	ND
Tetrachloroethylene:	3.0	ND
Dibromochloromethane:	3.0	ND
Chlorobenzene:	3.0	ND
1,1,1,2-Tetrachloroethane:	3.0	ND
Ethylbenzene:	3.0	ND
M,P-Xylenes:	3.0	ND
O-Xylene:	3.0	ND
Bromoform:	3.0	ND
1,1,2,2-Tetrachloroethane:	3.0	ND
1,3-Dichlorobenzene:	3.0	ND
1,4-Dichlorobenzene:	3.0	ND
1,2-Dichlorobenzene:	3.0	ND

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

* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



Chain of Custody Form Sample Security Requirements

Client: ALDOT - CBP 1. Condition of Contents: Good
 Contact: Kidada Dixon 2. Sealed for Shipping By: CRP
 Mailing Address: 4154 LOMAC ST. 3. Initial Contents Temp.: ICE °C Seal Applied Yes No
 City, State, Zip: Montgomery AL 36106 4. Sampling Status: Complete Expected Completion Date
 Phone No.: (334) 244-5616 5. Custody Seal Intact Upon Receipt by Laboratory: Yes ✓ No
 Date: 7-29-03 6. Condition of Contents: good
 Sampled By: WGM, KJM 7. Comments: Free
 Sample Site: Low KING Areas 8. Reporting Status: Routine; ASAP By _____; Rush By _____
 TTL Job No.: 0200.024 Client P.O. # _____

Date	Time	Sample ID/Description	Sample Type <small>Solid, Etc.</small>	Sample Method		# of Containers	Preservatives	Analysis Parameters
				Grab	Comp			
7/29/03	3:45 PM	M - 8"	SOL	✓		1	ICE	VOC

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished by: (signed) Date/Time to month 7-29-03 4:59pm Received by (signed) Date/Time
 1 [Signature] 7/29/03 6:27 AM
 2 [Signature] 7/29/03 2:59pm 1 [Signature] 7/30/03 1:15P
 3 [Signature] 7/30/03 1:20P 2 [Signature] 7/30/03 1:15P

SHIPPING DETAILS

Air Bill #: _____
 Method of Shipment: FEDEX
 Received By Lab: [Signature]
 Date/Time: 7/30/03 1330

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.



Construction Materials Engineering and Testing ■
Environmental Engineering and Consulting ■
Geotechnical Engineering ■
Analytical Services ■

Client: Alabama Department of Transportation
Sample Date: July 21 2003
Date Analyzed: July 24, 2003
Analyzed By: TTL Personnel (VJB)
Sample Type: Aqueous
Sampled By: TTL Personnel (BB/RR)
Sample Site: Coliseum Boulevard Plume, Montgomery, AL
Sample ID: Equipment Rinse
TTL Lab Number: 030723.57
TTL Job Number: 0700-024

VOLATILE ORGANIC HYDROCARBONS

<u>COMPOUNDS</u>	<u>RESULTS, µg/L</u>	<u>FLAG*</u>
Chloromethane:	1.0	ND
Vinyl Chloride:	1.0	ND
Chloroethane:	1.0	ND
Trichlorofluoromethane:	1.0	ND
1,1-Dichloroethene:	1.0	ND
Methylene Chloride:	1.0	ND
Trans-1,2-Dichloroethene:	1.0	ND
1,1-Dichloroethane:	1.0	ND
Cis-1,2-Dichloroethene:	1.0	ND
Chloroform:	1.0	ND
1,1,1-Trichloroethane:	1.0	ND
Carbon Tetrachloride:	1.0	ND
Benzene:	1.0	ND
1,2-Dichloroethane:	1.0	ND
Trichloroethylene:	1.0	ND
1,2-Dichloropropane:	1.0	ND
Bromodichloromethane:	1.0	ND
CIS-1,3-Dichloropropene:	1.0	ND
Toluene:	1.0	ND
Trans-1,3-Dichloropropene:	1.0	ND
1,1,2-Trichloroethane:	1.0	ND
Tetrachloroethylene:	1.0	ND
Dibromochloromethane:	1.0	ND
Chlorobenzene:	1.0	ND
1,1,1,2-Tetrachloroethane:	1.0	ND
Ethylbenzene:	1.0	ND
M,P-Xylenes:	1.0	ND
O-Xylene:	1.0	ND
Bromoform:	1.0	ND
1,1,2,2-Tetrachloroethane:	1.0	ND
1,3-Dichlorobenzene:	1.0	ND
1,4-Dichlorobenzene:	1.0	ND
1,2-Dichlorobenzene:	1.0	ND

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

* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



Construction Materials Engineering and Testing ■
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Geotechnical Engineering ■
Analytical Services ■

Client: Alabama Department of Transportation
Sample Date: 07/21/2003
Date Analyzed: 07/25/2003
Analyzed By: TTL Personnel (VJB)
Sample Type: Surface Water
Sampled By: TTL Personnel (BB/RR)
Sample Site: Coliseum Boulevard Plume, Montgomery, AL
Sample ID: SW-K
TTL Lab Number: 030723.61
TTL Job Number: 0700-024

VOLATILE ORGANIC HYDROCARBONS

<u>COMPOUNDS</u>	<u>RESULTS, µg/L</u>	<u>FLAG*</u>
Chloromethane	1.0	ND
Vinyl Chloride	1.0	ND
Chloroethane	1.0	ND
Trichlorofluoromethane	1.0	ND
1,1-Dichloroethene	1.0	ND
Methylene Chloride	1.0	ND
Trans-1,2-Dichloroethene	1.0	ND
1,1-Dichloroethane	1.0	ND
Cis-1,2-Dichloroethene	1.0	ND
Chloroform	1.0	ND
1,1,1-Trichloroethane	1.0	ND
Carbon Tetrachloride	1.0	ND
Benzene	1.0	ND
1,2-Dichloroethane	1.0	ND
Trichloroethylene	20.3	
1,2-Dichloropropane	1.0	ND
Bromodichloromethane	1.0	ND
Cis-1,3-Dichloropropene	1.0	ND
Toluene	1.0	ND
Trans-1,3-Dichloropropene	1.0	ND
1,1,2-Trichloroethane	1.0	ND
Tetrachloroethylene	1.0	ND
Dibromochloromethane	1.0	ND
Chlorobenzene	1.0	ND
1,1,1,2-Tetrachloroethane	1.0	ND
Ethyl Benzene	1.0	ND
M,P-Xylenes	1.0	ND
O-Xylene	1.0	ND
Bromoform	1.0	ND
1,1,2,2-Tetrachloroethane	1.0	ND
1,3-Dichlorobenzene	1.0	ND
1,4-Dichlorobenzene	1.0	ND
1,2-Dichlorobenzene	1.0	ND

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

* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



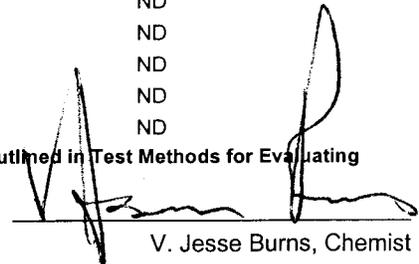
Construction Materials Engineering and Testing ■
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 Analytical Services ■

Client: Alabama Department of Transportation
 Sample Date: July 21 2003
 Date Analyzed: July 25, 2003
 Analyzed By: TTL Personnel (VJB)
 Sample Type: Surface Water
 Sampled By: TTL Personnel (BB/RR)
 Sample Site: Coliseum Boulevard Plume, Montgomery, AL
 Sample ID: SW-N
 TTL Lab Number: 030723.58
 TTL Job Number: 0700-024

VOLATILE ORGANIC HYDROCARBONS

<u>COMPOUNDS</u>	<u>RESULTS, µg/L</u>	<u>FLAG*</u>
Chloromethane:	1.0	ND
Vinyl Chloride:	1.0	ND
Chloroethane:	1.0	ND
Trichlorofluoromethane:	1.0	ND
1,1-Dichloroethene:	1.0	ND
Methylene Chloride:	1.0	ND
Trans-1,2-Dichloroethene:	1.0	ND
1,1-Dichloroethane:	1.0	ND
Cis-1,2-Dichloroethene:	1.0	ND
Chloroform:	1.0	ND
1,1,1-Trichloroethane:	1.0	ND
Carbon Tetrachloride:	1.0	ND
Benzene:	1.0	ND
1,2-Dichloroethane:	1.0	ND
Trichloroethylene:	28.0	
1,2-Dichloropropane:	1.0	ND
Bromodichloromethane:	1.0	ND
CIS-1,3-Dichloropropene:	1.0	ND
Toluene:	1.0	ND
Trans-1,3-Dichloropropene:	1.0	ND
1,1,2-Trichloroethane:	1.0	ND
Tetrachloroethylene:	1.0	ND
Dibromochloromethane:	1.0	ND
Chlorobenzene:	1.0	ND
1,1,1,2-Tetrachloroethane:	1.0	ND
Ethylbenzene:	1.0	ND
M,P-Xylenes:	1.0	ND
O-Xylene:	1.0	ND
Bromoform:	1.0	ND
1,1,2,2-Tetrachloroethane:	1.0	ND
1,3-Dichlorobenzene:	1.0	ND
1,4-Dichlorobenzene:	1.0	ND
1,2-Dichlorobenzene:	1.0	ND

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

* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



Construction Materials Engineering and Testing ■
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 Geotechnical Engineering ■
 Analytical Services ■

Client: Alabama Department of Transportation
 Sample Date: July 21 2003
 Date Analyzed: July 25, 2003
 Analyzed By: TTL Personnel (VJB)
 Sample Type: Surface Water
 Sampled By: TTL Personnel (BB/RR)
 Sample Site: Coliseum Boulevard Plume, Montgomery, AL
 Sample ID: SW-P
 TTL Lab Number: 030723.59
 TTL Job Number: 0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	RESULTS, µg/L	FLAG*
Chloromethane:	1.0	ND
Vinyl Chloride:	1.0	ND
Chloroethane:	1.0	ND
Trichlorofluoromethane:	1.0	ND
1,1-Dichloroethene:	1.0	ND
Methylene Chloride:	1.0	ND
Trans-1,2-Dichloroethene:	1.0	ND
1,1-Dichloroethane:	1.0	ND
Cis-1,2-Dichloroethene:	1.0	ND
Chloroform:	1.0	ND
1,1,1-Trichloroethane:	1.0	ND
Carbon Tetrachloride:	1.0	ND
Benzene:	1.0	ND
1,2-Dichloroethane:	1.0	ND
Trichloroethylene:	42.2	
1,2-Dichloropropane:	1.0	ND
Bromodichloromethane:	1.0	ND
CIS-1,3-Dichloropropene:	1.0	ND
Toluene:	1.0	ND
Trans-1,3-Dichloropropene:	1.0	ND
1,1,2-Trichloroethane:	1.0	ND
Tetrachloroethylene:	1.0	ND
Dibromochloromethane:	1.0	ND
Chlorobenzene:	1.0	ND
1,1,1,2-Tetrachloroethane:	1.0	ND
Ethylbenzene:	1.0	ND
M,P-Xylenes:	1.0	ND
O-Xylene:	1.0	ND
Bromoform:	1.0	ND
1,1,2,2-Tetrachloroethane:	1.0	ND
1,3-Dichlorobenzene:	1.0	ND
1,4-Dichlorobenzene:	1.0	ND
1,2-Dichlorobenzene:	1.0	ND

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

* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



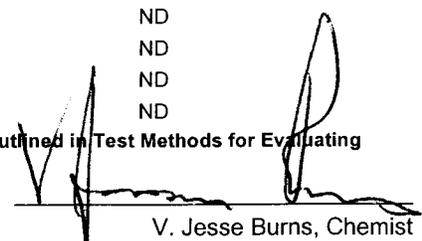
Construction Materials Engineering and Testing ■
 Environmental Engineering and Consulting ■
 Geotechnical Engineering ■
 Analytical Services ■

Client: Alabama Department of Transportation
 Sample Date: July 21, 2003
 Date Analyzed: July 25, 2003
 Analyzed By: TTL Personnel (VJB)
 Sample Type: Surface Water
 Sampled By: TTL Personnel (BB/RR)
 Sample Site: Coliseum Boulevard Plume, Montgomery, AL
 Sample ID: SW-I
 TTL Lab Number: 030723.62
 TTL Job Number: 0700-024

VOLATILE ORGANIC HYDROCARBONS

<u>COMPOUNDS</u>	<u>RESULTS, µg/L</u>	<u>FLAG*</u>
Chloromethane:	1.0	ND
Vinyl Chloride:	1.0	ND
Chloroethane:	1.0	ND
Trichlorofluoromethane:	1.0	ND
1,1-Dichloroethene:	1.0	ND
Methylene Chloride:	1.0	ND
Trans-1,2-Dichloroethene:	1.0	ND
1,1-Dichloroethane:	1.0	ND
Cis-1,2-Dichloroethene:	1.0	ND
Chloroform:	1.0	ND
1,1,1-Trichloroethane:	1.0	ND
Carbon Tetrachloride:	1.0	ND
Benzene:	1.0	ND
1,2-Dichloroethane:	1.0	ND
Trichloroethylene:	7.5	J
1,2-Dichloropropane:	1.0	ND
Bromodichloromethane:	1.0	ND
CIS-1,3-Dichloropropene:	1.0	ND
Toluene:	1.0	ND
Trans-1,3-Dichloropropene:	1.0	ND
1,1,2-Trichloroethane:	1.0	ND
Tetrachloroethylene:	1.0	ND
Dibromochloromethane:	1.0	ND
Chlorobenzene:	1.0	ND
1,1,1,2-Tetrachloroethane:	1.0	ND
Ethylbenzene:	1.0	ND
M,P-Xylenes:	1.0	ND
O-Xylene:	1.0	ND
Bromoform:	1.0	ND
1,1,2,2-Tetrachloroethane:	1.0	ND
1,3-Dichlorobenzene:	1.0	ND
1,4-Dichlorobenzene:	1.0	ND
1,2-Dichlorobenzene:	1.0	ND

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

* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



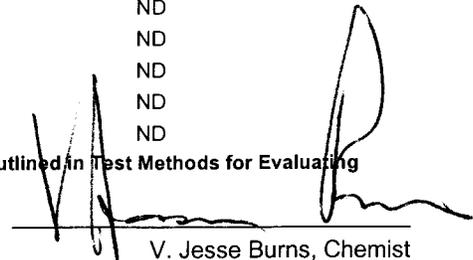
Construction Materials Engineering and Testing ■
 Environmental Engineering and Consulting ■
 Geotechnical Engineering ■
 Analytical Services ■

Client: Alabama Department of Transportation
 Sample Date: July 21, 2003
 Date Analyzed: July 25, 2003
 Analyzed By: TTL Personnel (VJB)
 Sample Type: Surface Water
 Sampled By: TTL Personnel (BB/RR)
 Sample Site: Coliseum Boulevard Plume, Montgomery, AL
 Sample ID: SW-I DUP
 TTL Lab Number: 030723.63
 TTL Job Number: 0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	RESULTS, µg/L	FLAG*
Chloromethane:	1.0	ND
Vinyl Chloride:	1.0	ND
Chloroethane:	1.0	ND
Trichlorofluoromethane:	1.0	ND
1,1-Dichloroethene:	1.0	ND
Methylene Chloride:	1.0	ND
Trans-1,2-Dichloroethene:	1.0	ND
1,1-Dichloroethane:	1.0	ND
Cis-1,2-Dichloroethene:	1.0	ND
Chloroform:	1.0	ND
1,1,1-Trichloroethane:	1.0	ND
Carbon Tetrachloride:	1.0	ND
Benzene:	1.0	ND
1,2-Dichloroethane:	1.0	ND
Trichloroethylene:	7.5	J
1,2-Dichloropropane:	1.0	ND
Bromodichloromethane:	1.0	ND
CIS-1,3-Dichloropropene:	1.0	ND
Toluene:	1.0	ND
Trans-1,3-Dichloropropene:	1.0	ND
1,1,2-Trichloroethane:	1.0	ND
Tetrachloroethylene:	1.0	ND
Dibromochloromethane:	1.0	ND
Chlorobenzene:	1.0	ND
1,1,1,2-Tetrachloroethane:	1.0	ND
Ethylbenzene:	1.0	ND
M,P-Xylenes:	1.0	ND
O-Xylene:	1.0	ND
Bromoform:	1.0	ND
1,1,2,2-Tetrachloroethane:	1.0	ND
1,3-Dichlorobenzene:	1.0	ND
1,4-Dichlorobenzene:	1.0	ND
1,2-Dichlorobenzene:	1.0	ND

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

* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



Construction Materials Engineering and Testing ■
 Environmental Engineering and Consulting ■
 Geotechnical Engineering ■
 Analytical Services ■

Client: Alabama Department of Transportation
 Sample Date: July 21, 2003
 Date Analyzed: July 30, 2003
 Analyzed By: TTL Personnel (VJB)
 Sample Type: Surface Water
 Sampled By: TTL Personnel (BB/RR)
 Sample Site: Coliseum Boulevard Plume, Montgomery, AL
 Sample ID: SW-J
 TTL Lab Number: 030723.64
 TTL Job Number: 0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	RESULTS, µg/L	FLAG*
Chloromethane:	1.0	ND
Vinyl Chloride:	1.0	ND
Chloroethane:	1.0	ND
Trichlorofluoromethane:	1.0	ND
1,1-Dichloroethene:	1.0	ND
Methylene Chloride:	1.0	ND
Trans-1,2-Dichloroethene:	1.0	ND
1,1-Dichloroethane:	1.0	ND
Cis-1,2-Dichloroethene:	1.0	ND
Chloroform:	1.0	ND
1,1,1-Trichloroethane:	1.0	ND
Carbon Tetrachloride:	1.0	ND
Benzene:	1.0	ND
1,2-Dichloroethane:	1.0	ND
Trichloroethylene:	8.3	J
1,2-Dichloropropane:	1.0	ND
Bromodichloromethane:	1.0	ND
CIS-1,3-Dichloropropene:	1.0	ND
Toluene:	1.0	ND
Trans-1,3-Dichloropropene:	1.0	ND
1,1,2-Trichloroethane:	1.0	ND
Tetrachloroethylene:	1.0	ND
Dibromochloromethane:	1.0	ND
Chlorobenzene:	1.0	ND
1,1,1,2-Tetrachloroethane:	1.0	ND
Ethylbenzene:	1.0	ND
M,P-Xylenes:	1.0	ND
O-Xylene:	1.0	ND
Bromoform:	1.0	ND
1,1,2,2-Tetrachloroethane:	1.0	ND
1,3-Dichlorobenzene:	1.0	ND
1,4-Dichlorobenzene:	1.0	ND
1,2-Dichlorobenzene:	1.0	ND

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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Construction Materials Engineering and Testing ■
 Environmental Engineering and Consulting ■
 Geotechnical Engineering ■
 Analytical Services ■

Client: Alabama Department of Transportation
 Sample Date: July 21, 2003
 Date Analyzed: July 30, 2003
 Analyzed By: TTL Personnel (VJB)
 Sample Type: Surface Water
 Sampled By: TTL Personnel (BB/RR)
 Sample Site: Coliseum Boulevard Plume, Montgomery, AL
 Sample ID: SW-L
 TTL Lab Number: 030723.65
 TTL Job Number: 0700-024

VOLATILE ORGANIC HYDROCARBONS

<u>COMPOUNDS</u>	<u>RESULTS, µg/L</u>	<u>FLAG*</u>
Chloromethane:	1.0	ND
Vinyl Chloride:	1.0	ND
Chloroethane:	1.0	ND
Trichlorofluoromethane:	1.0	ND
1,1-Dichloroethene:	1.0	ND
Methylene Chloride:	1.0	ND
Trans-1,2-Dichloroethene:	1.0	ND
1,1-Dichloroethane:	1.0	ND
Cis-1,2-Dichloroethene:	1.0	ND
Chloroform:	1.0	ND
1,1,1-Trichloroethane:	1.0	ND
Carbon Tetrachloride:	1.0	ND
Benzene:	1.0	ND
1,2-Dichloroethane:	1.0	ND
Trichloroethylene:	4.3	J
1,2-Dichloropropane:	1.0	ND
Bromodichloromethane:	1.0	ND
CIS-1,3-Dichloropropene:	1.0	ND
Toluene:	1.0	ND
Trans-1,3-Dichloropropene:	1.0	ND
1,1,2-Trichloroethane:	1.0	ND
Tetrachloroethylene:	1.0	ND
Dibromochloromethane:	1.0	ND
Chlorobenzene:	1.0	ND
1,1,1,2-Tetrachloroethane:	1.0	ND
Ethylbenzene:	1.0	ND
M,P-Xylenes:	1.0	ND
O-Xylene:	1.0	ND
Bromoform:	1.0	ND
1,1,2,2-Tetrachloroethane:	1.0	ND
1,3-Dichlorobenzene:	1.0	ND
1,4-Dichlorobenzene:	1.0	ND
1,2-Dichlorobenzene:	1.0	ND

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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Construction Materials Engineering and Testing ■
Environmental Engineering and Consulting ■
Geotechnical Engineering ■
Analytical Services ■

Client: Alabama Department of Transportation
Sample Date: 07/21/2003
Date Analyzed: 07/31/2003
Analyzed By: TTL Personnel (VJB)
Sample Type: Aqueous
Sampled By: TTL Lab Personnel
Sample Site: Coliseum Boulevard Plume, Montgomery, AL
Sample ID: Blank (Rinse, Surface Water)
TTL Lab Number: 030723.66
TTL Job Number: 0700-024

VOLATILE ORGANIC HYDROCARBONS

<u>COMPOUNDS</u>	<u>RESULTS, µg/L</u>	<u>FLAG*</u>
Chloromethane	1.0	ND
Vinyl Chloride	1.0	ND
Chloroethane	1.0	ND
Trichlorofluoromethane	1.0	ND
1,1-Dichloroethene	1.0	ND
Methylene Chloride	1.0	ND
Trans-1,2-Dichloroethene	1.0	ND
1,1-Dichloroethane	1.0	ND
Cis-1,2-Dichloroethene	1.0	ND
Chloroform	1.0	ND
1,1,1-Trichloroethane	1.0	ND
Carbon Tetrachloride	1.0	ND
Benzene	1.0	ND
1,2-Dichloroethane	1.0	ND
Trichloroethylene	1.0	ND
1,2-Dichloropropane	1.0	ND
Bromodichloromethane	1.0	ND
Cis-1,3-Dichloropropene	1.0	ND
Toluene	1.0	ND
Trans-1,3-Dichloropropene	1.0	ND
1,1,2-Trichloroethane	1.0	ND
Tetrachloroethylene	1.0	ND
Dibromochloromethane	1.0	ND
Chlorobenzene	1.0	ND
1,1,1,2-Tetrachloroethane	1.0	ND
Ethyl Benzene	1.0	ND
M,P-Xylenes	1.0	ND
O-Xylene	1.0	ND
Bromoform	1.0	ND
1,1,2,2-Tetrachloroethane	1.0	ND
1,3-Dichlorobenzene	1.0	ND
1,4-Dichlorobenzene	1.0	ND
1,2-Dichlorobenzene	1.0	ND

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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Chain of Custody Form Sample Security Requirements

Client: ALDOT-CBP 1. Condition of Contents: Good
 Contact: Kickadee Dixon 2. Sealed for Shipping By: RER
 Mailing Address: 41534 Lomax St. 3. Initial Contents Temp.: Ice °C Seal Applied Yes No
 City, State, Zip: Montgomery AL 36106 4. Sampling Status: Complete Expected Completion Date
 Phone No.: (334) 244-0760 5. Custody Seal Intact Upon Receipt by Laboratory: Yes ✓ No
 Date: 7.21.03 6. Condition of Contents: Good
 Sampled By: Brad Baker Reggie Robinson 7. Comments: See
 Sample Site: Low Flying Areas 8. Reporting Status: Routine; ASAP By _____; Rush By _____
 TTL Job No.: 0700-024 Client P.O. # _____

Date	Time	Sample ID/Description	Sample Type Solid, Etc.	Sample Method		# of Containers	Preservatives	Analysis Parameters
				Grab	Comp			
7/21	2:45	Equipment Run	Aggreg	X		3	HCl	WOC
	1:30	SW - N						
	1:45	SW - P						
	2:00	SW - O						
	2:20	SW - K						
	2:50	SW - I						
	3:10	SW - J Duplicate						
	4:00	SW - L						

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished by: (signed) Date/Time Tommy Lewis Received by: (signed) Date/Time 7-22-03 9:30
John Baker 7/21/03 5:00pm
John Baker 7-22-03 10:00 John Baker 7-23-03 9:45
John Baker 7-23-03 9:55 SHIPPING DETAILS
Air Bill #: 3011799 125
Method of Shipment: Box
Received By Lab: Box
Date/Time: 072303 0955

TTL, Inc. - Tuscaloosa Office/Laboratory: 3516 Greensboro Avenue, Tuscaloosa, Alabama 35401, Telephone (205) 345-0816, FAX (205) 345-0992
 TTL, Inc. - Montgomery Office: 4154 Lomax 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.



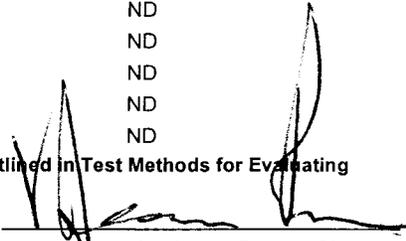
Construction Materials Engineering and Testing ■
 Environmental Engineering and Consulting ■
 Geotechnical Engineering ■
 Analytical Services ■

Client: Alabama Department of Transportation
 Sample Date: July 29, 2003
 Date Analyzed: August 1, 2003
 Analyzed By: TTL Personnel (VJB)
 Sample Type: Aqueous
 Sampled By: TTL Personnel (WGM/KJM)
 Sample Site: Coliseum Boulevard Plume, Montgomery, AL
 Sample ID: M
 TTL Lab Number: 030730.61
 TTL Job Number: 0700-024

VOLATILE ORGANIC HYDROCARBONS

<u>COMPOUNDS</u>	<u>RESULTS, µg/L</u>	<u>FLAG*</u>
Chloromethane:	1.0	ND
Vinyl Chloride:	1.0	ND
Chloroethane:	1.0	ND
Trichlorofluoromethane:	1.0	ND
1,1-Dichloroethene:	1.0	ND
Methylene Chloride:	1.0	ND
Trans-1,2-Dichloroethene:	1.0	ND
1,1-Dichloroethane:	1.0	ND
Cis-1,2-Dichloroethene:	1.0	ND
Chloroform:	1.0	ND
1,1,1-Trichloroethane:	1.0	ND
Carbon Tetrachloride:	1.0	ND
Benzene:	1.0	ND
1,2-Dichloroethane:	1.0	ND
Trichloroethylene:	1.0	ND
1,2-Dichloropropane:	1.0	ND
Bromodichloromethane:	1.0	ND
CIS-1,3-Dichloropropene:	1.0	ND
Toluene:	5.0	J
Trans-1,3-Dichloropropene:	1.0	ND
1,1,2-Trichloroethane:	1.0	ND
Tetrachloroethylene:	1.0	ND
Dibromochloromethane:	1.0	ND
Chlorobenzene:	1.0	ND
1,1,1,2-Tetrachloroethane:	1.0	ND
Ethylbenzene:	1.0	ND
M,P-Xylenes:	1.0	ND
O-Xylene:	1.0	ND
Bromoform:	1.0	ND
1,1,2,2-Tetrachloroethane:	1.0	ND
1,3-Dichlorobenzene:	1.0	ND
1,4-Dichlorobenzene:	1.0	ND
1,2-Dichlorobenzene:	1.0	ND

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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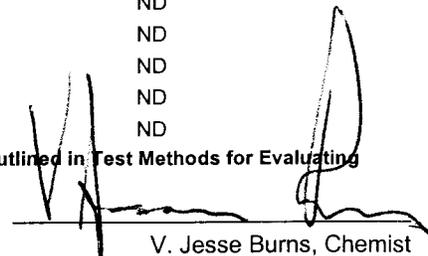
Construction Materials Engineering and Testing ■
 Environmental Engineering and Consulting ■
 Geotechnical Engineering ■
 Analytical Services ■

Client: Alabama Department of Transportation
 Sample Date: July 29, 2003
 Date Analyzed: August 1, 2003
 Analyzed By: TTL Personnel (VJB)
 Sample Type: Aqueous
 Sampled By: TTL Lab Personnel
 Sample Site: Coliseum Boulevard Plume, Montgomery, AL
 Sample ID: Blank (Low Lying Area-M)
 TTL Lab Number: 030730.62
 TTL Job Number: 0700-024

VOLATILE ORGANIC HYDROCARBONS

<u>COMPOUNDS</u>	<u>RESULTS, µg/L</u>	<u>FLAG*</u>
Chloromethane:	1.0	ND
Vinyl Chloride:	1.0	ND
Chloroethane:	1.0	ND
Trichlorofluoromethane:	1.0	ND
1,1-Dichloroethene:	1.0	ND
Methylene Chloride:	1.0	ND
Trans-1,2-Dichloroethene:	1.0	ND
1,1-Dichloroethane:	1.0	ND
Cis-1,2-Dichloroethene:	1.0	ND
Chloroform:	1.0	ND
1,1,1-Trichloroethane:	1.0	ND
Carbon Tetrachloride:	1.0	ND
Benzene:	1.0	ND
1,2-Dichloroethane:	1.0	ND
Trichloroethylene:	1.0	ND
1,2-Dichloropropane:	1.0	ND
Bromodichloromethane:	1.0	ND
CIS-1,3-Dichloropropene:	1.0	ND
Toluene:	1.0	ND
Trans-1,3-Dichloropropene:	1.0	ND
1,1,2-Trichloroethane:	1.0	ND
Tetrachloroethylene:	1.0	ND
Dibromochloromethane:	1.0	ND
Chlorobenzene:	1.0	ND
1,1,1,2-Tetrachloroethane:	1.0	ND
Ethylbenzene:	1.0	ND
M,P-Xylenes:	1.0	ND
O-Xylene:	1.0	ND
Bromoform:	1.0	ND
1,1,2,2-Tetrachloroethane:	1.0	ND
1,3-Dichlorobenzene:	1.0	ND
1,4-Dichlorobenzene:	1.0	ND
1,2-Dichlorobenzene:	1.0	ND

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

* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.

