

Table 2. Results of analyses of vapor samples (in $\mu\text{g}/\text{M}^3$) collected on July 17 and 18, and November 1, 2, and 3, 2000; Coliseum Boulevard Plume Investigation; Montgomery, Alabama

SVI No.	3	3	4	4	2	2	2 Dup	1-R ^a	6	6	5B	5B ^b	5A	5A	8	8	7	7	9 ^c
Depth (ft BLS)	18.2	18.2	5.2	5.2	16	16	16	5	17.2	17.2	10.2	10.2	5	5	16	16	5	5	4
Location	Broadway Street at Fairground Road	Chisholm Street at Fairground Road	Gardendale Drive at Fairground Road	East Park Avenue at Chelsea Road															
Sample Date	7/17/2000	11/2/2000	7/18/2000	11/2/2000	7/17/2000	11/1/2000	11/2/2000	11/2/2000	7/17/2000	11/1/2000	7/18/2000	11/1/2000	7/18/2000	11/3/2000	7/17/2000	11/1/2000	7/18/2000	11/02/00	11/2/2000
Sample Time	3:59 PM	7:55 AM	7:25 PM	4:00 PM	2:34 PM	5:30 PM	8:59 AM	10:44 AM	12:37 PM	2:27 PM	11:15 AM		4:51 PM	4:30 PM	10:53 AM	12:53 PM	12:46 PM	11:38 PM	2:28 PM
Flow Controller Rate (mL/min)	100	92	10	12	100	98	None	93	100	98	100		10	12	100	99	10	13	107
Benzene	ND	ND	7.0	ND	ND	ND	ND	2600	ND#	ND	ND#	NS	9.1	ND	ND#	1.2	3.5	ND	ND
Carbon Tetrachloride	ND	320	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND						
Chloroform	40	310	ND	ND	96	59	ND	ND	120	96	ND#	NS	ND	ND	110	48	ND#	ND	8.5
1,1 Dichloroethylene (1,1-DCE)	40	ND	ND	ND#	NS	ND	ND	ND	ND	ND#	ND	ND							
Ethylbenzene	ND#	ND	47	ND	24	ND	ND	410	33	ND	ND	NS	27	ND	190	27	ND	ND	ND
Freon 11 (Trichlorofluoromethane)	ND	61	ND	ND	NS	ND	ND	ND	ND	ND	ND	8.0							
Freon 12 (Dichlorodifluoromethane)	ND	ND	ND#	ND	ND#	ND	ND	ND	ND	ND	9.0	NS	10	ND	ND	ND	ND#	ND	180
Methylene Chloride (Chloromethane)	ND	ND	4.5	NS	ND#	ND	ND	ND	ND#	ND	ND								
Methyl Chloride (Dichloromethane)	ND	ND	80	NS	ND	ND	ND	15	ND#	ND	ND								
Perchloroethylene (PCE)	ND	15	ND	ND	11	8.1	10	ND	15	ND#	26	NS	7.4	ND	7.4	ND	ND	ND	ND
Toluene	ND	ND	150	ND	21	ND	ND	20	62	21	12	NS	95	70	74	58	12	ND	40
1,1,1-Trichloroethane (1,1,1-TCA)	29.8	410	ND	ND	ND	NS	ND	ND	ND	ND	ND#	ND	20						
Trichloroethylene (TCE)	37000	22000	ND#	ND	220	1100	1100	ND	210	300	ND#	NS	ND#	ND	18	27	420	ND	20
1,2,4-Trimethylbenzene (Pseudocumene)	ND	ND	35	340	50	21	13	340	75	75	ND#	NS	20	ND	200	156	ND	ND#	13
1,3,5-Trimethylbenzene (Mesitylene)	ND	ND	10	75	16	ND#	ND	10	21	20	ND	NS	ND#	ND	64	59	ND	ND	ND
m/p-Xylene	ND#	ND	160	52	76	14	ND	1700	140	62	10	NS	110	52	180	147	4.7	17	28
o-Xylene	ND	ND	40	14	24	ND	ND	140	43	14	ND#	NS	30	ND	66	46	ND	ND	ND
Vinyl Chloride	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND								
1,4-Dichlorobenzene	ND	ND #	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND						
Styrene	ND	ND	ND	NS	ND	ND	ND	ND #	ND	ND	ND								

^a = 1-R is replacement for original SVI 1, which could not be sampled due to damaged tubing.

^b = SVI 5B could not be sampled in November 2000 because the canister pressure (vacuum) did not change after 25 minutes (1st attempt) or after 8 hours (2nd attempt).

^c = SVI 9 constructed to verify results for SVI 7.

ND = Not Detected

ND# = Compound detected but concentration less than one-half the PQL (practical quantitation limit).

NS = Not Sampled

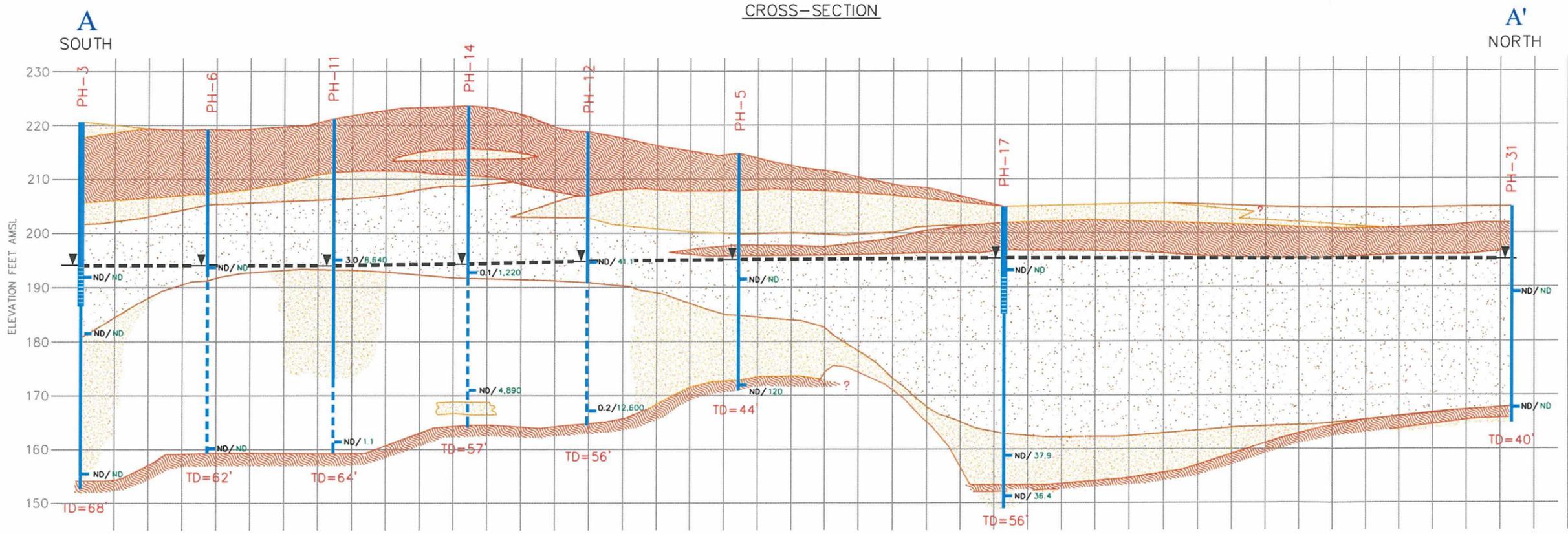
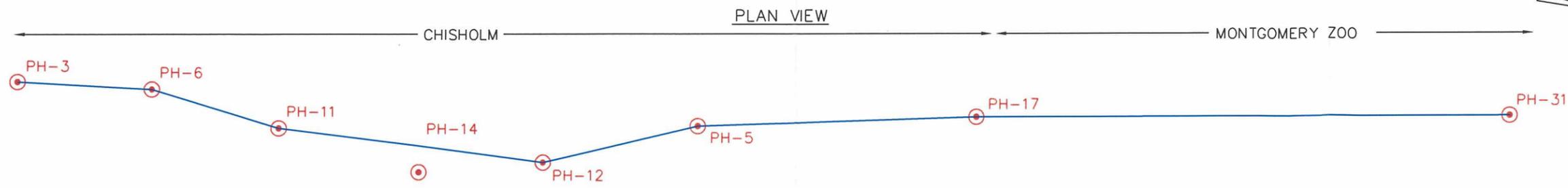
Table 3. Results of analyses of vapor samples (in $\mu\text{g}/\text{M}^3$) collected on July 17 and 18, and November 1, 2, and 3, 2000 - exclusive of gasoline and diesel-fuel compounds and freons; Coliseum Boulevard Plume Investigation; Montgomery, Alabama

SVI No.	3	3	4	4	2	2	2 Dup	1-R ^a	6	6	5B ^b	5A	5A	8	8	7	7	9 ^c
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Carbon Tetrachloride		320																
Chloroform	40	310			96	59			120	96				110	48			8.5
1,1 Dichloroethylene (1,1-DCE)	40																	
Methyl Chloride (Chloromethane)											4.5							
Methylene Chloride (Dichloromethane)											80				15			
Perchloroethylene (PCE)		15			11	8.1	10		15		26	7.4		7.4				
1,1,1-Trichloroethane (1,1,1-TCA)	29.8	410																20
Trichloroethylene (TCE)	37000	22000			220	1100	1100		210	300				18	27	420		20

^a = 1-R is replacement for original SVI 1, which could not be sampled due to damaged tubing.

^b = SVI 5B could not be sampled in November 2000 because the canister pressure (vacuum) did not change after 25 minutes (1st attempt) or after 8 hours (2nd attempt).

^c = SVI 9 constructed to verify results for SVI 7.



- EXPLANATION**
- SANDY CLAY
 - FINE-COARSE SAND WITH LENSES OF GRAVEL
 - GRADED SAND
 - PZ-3
PIEZOMETER AND IDENTIFIER WITH SCREENED INTERVALS
 - PH-3
PROBEHOLE AND IDENTIFIER
 - PH-6,11,12,14
INTERVAL OF NO CORE DATA (PH-6,11,12,14)
 - 3.0/8.640
DISCRETE GEOPROBE GROUNDWATER SAMPLE CONCENTRATIONS
PCE/TCE (ug/L)
 - ∇
GROUNDWATER ELEVATION
(MARCH 7, 2001)

TTL, Inc.
PRACTICING IN THE GEOSCIENCES

Figure 1. Stratigraphy, ground-water elevations, and concentrations of PCE and TCE in ground-water samples along north-south cross-section west of Fairground Road; Coliseum Boulevard Plume Investigation. Montgomery, Alabama.

SCALE: 1"=350'
VERTICAL SCALE: 16X