TABLE 4. SEDIMENT SAMPLING ANALYTICAL RESULTS FOR INORGANIC ANALYTES, AMTRAK WRF

Sample Number:	DT3969	DT3970	DT3971	DT3972	DT3973	DT3974	DT3975	Risk-Based	Risk-Based
Location:	SD-1 AT-15 Background	SD-2 AT-16 Upstream	SD-3 AT-17 Midstream	SD-4 AT-18 Exit	SD-5 AT-19 Ditch	SD-6 AT-20 Upstream	SD-7 AT-21 Midstream	Concentration Residential Soil	Concentration Industrial Soil
Type:								7-11-94	7-11-94
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aluminum	21800	16400	3940	17300	7070	4890	3890	230,000 *	1,000,000 *
Antimony		[17.6]	[3.6]	[7.7]	[2.6]	[24.5]	[12.3]	31	410
Arsenic	10.0 L	32.6 L	11.6 L	14.6 L	26.2 L	53.5 L	23.9 L	23 n 0.370	310 n 1.6 c
Barium	209	366	152	207	94.3	602	292	5500	72000
Beryllium								0.15	0.67
Cadmium								39	510
Calcium	4640	14000	1740	3230	41600	43400	2490		
Chromium	56.7	89.0	25.4	92.7	36.9	23.6	27.2	III 78000, VI 390	IV 1,000,000, VI 5100
Cobalt	[13.9]	[17.7]	[4.6]	[15.0]	[4.6]	[8.1]	[5.5]	4700	61000
Copper	67.7 J	301 J	53.0 J	132 J	61.7 J	109 J	217 J	2900	38000
Iron	35000 J	74900 J	16100 J	39400 J	16300 J	236000 J	40300 J		
Lead	162	1040	366	452	108	135	470		
Magnesium	3810 J	5420 J	[466] J	3360 J	4580 J	[2870] J	[564] J		
Manganese	697 L	581 L	97.7 L	470 L	269 L	4710 L	291 L	390	5100
Mercury	0.59 J							23	310
Nickel	33.2	43.4	[8.5]	39.5	16	[24.7]	[16.0]	1600	20000
Potassium									
Selenium					3.3 L			390	5100
Silver								390	5100
Sodium		[1750] J				[3580] J			
Thallium						[1.8]		6.3 - 7.0	82 - 92
Vanadium	70.5	81.4	20.1	66.3	20.9	[12.3]	36.7	550	7200
Zinc	312 J	758 J	93.8 J	539 J	122 J	919 J	303 J	23000	310000
Cyanide		1.7	1.2					1600 (FREE)	20,000 (FREE)

J = Analyte present. Reported value may not be accurate or precise.
[ ] = Analyte present. As values approach the IDL, the quantitation may not be accurate.
K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.
* = Risk Based Concentration Tables, 4-20-94.

TABLE 5. SURFACE WATER SAMPLING ANALYTICAL RESULTS FOR ORGANIC COMPOUNDS
AMTRAK WRF

Sample Number:	9303977	9303978	9303979	9303980	9303981	9303982	9303983	9303984	9303985	Ambient
Location	EQUIPMENT BLANK AT-2	TRIB #1 SW-1 BACKGROUND AT-3	TRIB #1 SW-2 UPSTREAM AT-4	TRIB #1 SW-3 MIDSTREAM AT-5	TRIB #1-2 SW-4 EXIT AT-6	TRIB #1-2 SW-4 EXIT-FIELD DUPL AT-7	TRIB #1 SW-5 DITCH AT-8	TRIB #2 SW-6 UPSTREAM AT-9	TRIB #2 SW-7 MIDSTREAM AT-10	Water Quality Criteria - Freshwater Chronic
Type:										
Units.	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Acetone	7 J									
Chloroform		1 J								1240
Chlorobenzene		1 J							2 J	
2-Methylnaphthalene									10	
Acenaphthene									3 J	520
Dibenzofuron									2 J	
Diethylphthalate	1 J									
Fluorene									4 J	
Bis(2-Ethylhexy)phthalate	62									

J = Analyte present. Reported value may not be accurate or precise.

LJD1197.wk3

TABLE 6. SEDIMENT SAMPLING ANALYTICAL RESULTS FOR ORGANIC COMPOUNDS, AMTRAK WRF

Sample Number Location Type Units	9303969 SD-1 BACKGROUND TRIB. #1 AT-15 ug/kg	9303970 SD-2 UPSTREAM TRIB. #1 AT-16 ug/kg	9303971 SD-3 MIDSTREAM TRIB. #1 AT-17 ug/kg	9303972 SD-4 EXIT TRIB. #1-2 AT-18 ug/kg	9303973 SD-5 DITCH TRIB. #1 AT-19 ug/kg	9303974 SD-6 UPSTREAM TRIB. #2 AT-20 ug/kg	9303975 SD-7 MIDSTREAM TRIB. #2 AT-21 ug/kg	Risk-Based Concentration Residential Soil 7-11-94 ug/kg	Risk-Based Concentration Industrial Soil 7-11-94 ug/kg
2-Butanone	28 J					100			
Naphthalene					77 J			3,100,000	41,000,000
2-Methylnaphthalene			45000						
Acenaphthylene							24000 J	4,700,000	61,000,000
Dibenzofuran					85 J		8100 J		
Diethylphthalate						360 J		63,000,000	620,000,000
Fluorene		4100 J	2200 J				33000	3,100,000	41,000,000
Phenanthrene	480 J	18000 J	490 J		250 J	290 J	78000		
Anthracene					95 J			23,000,000	310,000,000
Fluoranthene	1200 J	4200 J			590 J	440 J		3,100,000	41,000,000
Pyrene	890 J	4800 J			500 J	350 J		2,300,000	31,000,000
Butylbenzylphthalate	110 J							16,000,000	200,000,000
Benzo(a)anthracene	440 J				290 J		3800 J	880	3900
Chrysene	660 J				380 J	240 J	4000 J	88000	390,000
Benzo(b)fluoranthene	770 J				430 J	250 J	2500 J	880	3900
Benzo(k)fluoranthene	560 J				240 J	160 J	870 J	8800	39000
Benzo(a)pyrene	500 J				200 J			88	390
Indeno(1,2,3-cd)pyrene	490 J				170 J			880	3900
Dibenz(a,h)anthracene	130 J							88	390
Benzo(g,h)perylene	120 J								
Dieldrin	27 J	68 J		62 J				40	180
4,4'-DDE							10 J	1900	8400
Endrin						110 J	490 DJ	23000	310000
4,4'-DDD						22 J	28 J	2700	12000
Endosulfan Sulfate			260 DJ						
Endrin Ketone					12 J				
Endrin Aldehyde			180 DJ				600 DJ		
alpha-Chlordane	60 J	54 L	4.7 J			11 J	7.6 J	490	2200
gamma-Chlordane	51 J			33 J				490	2200
Aroclor-1254		6600 DJ		1900 J				83	370
Aroclor-1260	1500	30000 D	3500 DJ	8500	920	8000 DJ	19000 DJ	83	370

J = Analyte present. Reported value may not be accurate or precise.
L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.
D = Extracted sample was diluted.

LJ001199 WK3

TABLE 7. SOIL SAMPLES ANALYTICAL RESULTS FOR INORGANIC ANALYTES, AMTRAK WRK

Sample Number:	DT3965	DT3966	DT3967	DT3968	Risk-Based	Risk-Based
Location:	SS-1 Background AT-11	SS-2 East AT-12	SS-2 East AT-13	SS-3 West AT-14	Concentration Residential Soil	Concentration Industrial Soil
Type:					7-11-94	7-11-94
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aluminum	11400	3300	3120	6140	230,000 *	1,000,000 *
Antimony				[8.9]	31	410
Arsenic	7.5 L	28.2 L	27.8 L	31.4 L	23 n 0.37 c	310 n 1.6 c
Barium	62.5	118	132	146	5500	72000
Beryllium	[0.11] L			[0.23] L	0.15	0.67
Cadmium					39	510
Calcium	1380	1610	1680	[1280]		
Chromium	18.8	44.4	56.7	27.8	III 78000, VI 390	III 1,000,000, VI 5100
Cobalt	[5.5]	[8.5]	[6.1]	[8.8]	4700	61000
Copper	13.8 J	85.4 J	90.4 J	172 J	2900	38000
Iron	16000 J	19300 J	17200 J	71000 J		
Lead	72.5	298	319	650		
Magnesium	1630 J	[371] J	[337] J	[244] J		
Manganese	208 L	71.4 L	64.3 L	380 L	390	5100
Mercury				0.56 J	23	310
Nickel	[9.1]	[12.3]	15.6	18.7	1600	20000
Potassium						
Selenium		4.7 L	4.0 J	2.2 L	390	5100
Silver					390	5100
Sodium				[1040] J		
Thallium			[0.62]		6.3 – 7.0	82 – 92
Vanadium	32.0	29.0	29.7	45.7	550	7200
Zinc	47.3 J	109 J	116 J	478 J	23000	310000
Cyanide					1600 (FREE)	20000 (FREE)

J = Analyte present. Reported value may not be accurate or precise.
[ ] = Analyte present. As values approach the IDL, the quantitation may not be accurate.
K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.
* = Risk Based Concentration Tables, 4-20-94.

LJL00394.wk3

TABLE 8. SOIL SAMPLING ANALYTICAL RESULTS FOR ORGANIC COMPOUNDS
AMTRAK WRF

Sample Number	9303965	9303966	9303967	9303968	9400190	9400191	9400192	Risk-Based	Risk-Based
Location	SS-1 BACKGROUND AT-11	SS-2 EAST AT-12	SS-2 EAST FIELD DUPL AT-13	SS-3 WEST AT-14	SS-2 (VOAS) EAST AT-12 R	SS-2 (VOAS) EAST AT-13 R	SS-3 (VOAS) WEST AT-14R	Concentration Residential Soil	Concentration Industrial Soil
Type								7-11-94	7-11-94
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Ethylbenzene					1700 L			7,800,000	100,000,000
Total Xylenes					900 L			160,000,000	1,000,000,000
Naphthalene		7000 J	4400 J					3,100,000	41,000,000
2-Methylnaphthalene		22000							
Fluorene			4100 J					3,100,000	41,000,000
Phenanthrene	130 J	9000 J	6000 J						
Fluoranthene	440							3,100,000	41,000,000
Pyrene	380 J		3400 J					2,300,000	31,000,000
Benzo(a)anthracene	250 J							880	3900
Chrysene	300 J							88000	390,000
Benzo(b)fluoranthene	310 J							880	3900
Benzo(k)fluoranthene	220 J							8800	39000
Benzo(a)pyrene	240 J							88	390
Indeno(1,2,3-cd)pyrene	170 J							880	3900
Dibenzo(a,h)anthracene	40 J							88	390
Endosulfan I		16 J	15 J					470,000	6,100,000
4,4'-DDE		15 J	13 J					1900	8400
Endrin				220 J				23000	310,000
Endosulfan Sulfate		230 J	79 J						
4,4'-DDT	5 J							1900	8400
Endrin Aldehyde				210 J					
Aroclor-1260	230			7900 J				83	370

J = Analyte present. Reported value may not be accurate or precise.
L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

L J901194 WK3

TABLE 9. POTENTIAL SITE-RELATED EXPOSURES BASED UPON MEDIA, RECEPTORS, TIME, LAND USE, AND EXPOSURE ROUTE

PRESENT EXPOSURE: (On-Site Worker)

Non-Carcinogenic Soil Ingestion	Carcinogenic Soil Ingestion	Non-Carcinogenic Sediment Ingestion	Carcinogenic Sediment Ingestion
Arsenic (SS-3, 31.4 mg/Kg "L")	PCB (SS-3, 7.9 mg/Kg "J")	Arsenic (SD-6, 53.5 mg/Kg "L")	PCB (SD-2, 36.6 mg/Kg "D/J")
Manganese (SS-3, 380 mg/Kg "L")	Benzo(a)pyrene (SS-1, 0.24 mg/Kg "J")	Manganese (SD-6, 4710 mg/Kg "L")	Benzo(a)Pyrene (SD-1, 0.5 mg/Kg "J")
Chromium (SS-2, 56.7 mg/Kg)	Arsenic (SS-3, 31.4 mg/Kg "L")	PCB (SD-2, 6.6 mg/Kg "D/J")	Arsenic (SD-6, 53.5 mg/Kg "L")
Antimony (SS-3, 8.9 mg/Kg "[ ]")	Beryllium (SS-3, 0.23 mg/Kg "[ ]L")	Chromium (SD-4, 92.7 mg/Kg)	Dieldrin (SD-2, 0.068 mg/Kg "J")
Beryllium (SS-3, 0.23 mg/Kg "[ ]L")	Benzo(a)Anthracene (SS-1, 0.25 mg/Kg "J")	Vanadium (SD-2, 81.4 mg/Kg)	Benzo(a)Anthracene (SD-7, 3.8 mg/Kg "J")
	Benzo(b)Fluoranthene (SS-1, 0.31 mg/Kg "J")	Copper (SD-2, 301 mg/Kg "J")	Benzo(b)Fluoranthene (SD-7, 2.5 mg/Kg "J")
	Indeno (1,2,3-cd)Pyrene (SS-1, 0.17 mg/Kg "J")	Chlordane (SD-1, 0.111 mg/Kg "J")	DiBenzo(a,h)Anthrancene (SD-1, 0.13 mg/Kg "J")
	DiBenzo(a,h)Anthracene (SS-1, 0.04 mg/Kg "J")	Dieldrin (SD-2, 0.068 mg/Kg "J")	Chlordane (SD-1, 0.111 mg/Kg "J")
		Antimony (SD-6, 24.5 mg/Kg "[ ]")	

PRESENT EXPOSURE: Trespassing Child/Adult

Non-Carcinogenic Soil Ingestion	Non-Carcinogenic Sediment Ingestion
Arsenic (SS-3, 31.4 mg/Kg "L")	Arsenic (SD-6, 53.5 mg/Kg "L")
Manganese (SS-3, 380 mg/Kg "L")	Manganese (SD-6, 4710 mg/Kg "L")
Chromium (SS-2, 56.7 mg/Kg)	PCB (SD-2, 6.6 mg/Kg "D/J")
Antimony (SS-3, 8.9 mg/Kg "[ ]")	Chromium (SD-4, 92.7 mg/Kg)
Beryllium (SS-3, 0.23 mg/Kg "[ ]L")	Vanadium (SD-2, 81.4 mg/Kg)
	Copper (SD-2, 301 mg/Kg "J")
	Chlordane (SD-1, 0.111 mg/Kg "J")
	Dieldrin (SD-2, 0.068 mg/Kg "J")
	Antimony (SD-6, 24.5 mg/Kg "[ ]")

FUTURE EXPOSURE: On-Site Worker

Non-Carcinogenic Soil Ingestion	Carcinogenic Soil Ingestion	Non-Carcinogenic Sediment Ingestion	Carcinogenic Sediment Ingestion
Arsenic (SS-3, 31.4 mg/Kg "L")	PCB (SS-3, 7.9 mg/Kg "J")	Arsenic (SD-6, 53.5 mg/Kg "L")	PCB (SD-2, 36.6 mg/Kg "D/J")
Manganese (SS-3, 380 mg/Kg "L")	Benzo(a)pyrene (SS-1, 0.24 mg/Kg "J")	Manganese (SD-6, 4710 mg/Kg "L")	Benzo(a)Pyrene (SD-1, 0.5 mg/Kg "J")
Chromium (SS-2, 56.7 mg/Kg)	Arsenic (SS-3, 31.4 mg/Kg "L")	PCB (SD-2, 6.6 mg/Kg "D/J")	Arsenic (SD-6, 53.5 mg/Kg "L")
Antimony (SS-3, 8.9 mg/Kg "[ ]")	Beryllium (SS-3, 0.23 mg/Kg "[ ]L")	Chromium (SD-4, 92.7 mg/Kg)	Dieldrin (SD-2, 0.068 mg/Kg "J")
Beryllium (SS-3, 0.23 mg/Kg "[ ]L")	Benzo(a)Anthracene (SS-1, 0.25 mg/Kg "J")	Vanadium (SD-2, 81.4 mg/Kg)	Benzo(a)Anthracene (SD-7, 3.8 mg/Kg "J")
	Benzo(b)Fluoranthene (SS-1, 0.31 mg/Kg "J")	Copper (SD-2, 301 mg/Kg "J")	Benzo(b)Fluoranthene (SD-7, 2.5 mg/Kg "J")
	Indeno (1,2,3-cd)Pyrene (SS-1, 0.17 mg/Kg "J")	Chlordane (SD-1, 0.111 mg/Kg "J")	DiBenzo(a,h)Anthrancene (SD-1, 0.13 mg/Kg "J")
	DiBenzo(a,h)Anthracene (SS-1, 0.04 mg/Kg "J")	Dieldrin (SD-2, 0.068 mg/Kg "J")	Chlordane (SD-1, 0.111 mg/Kg "J")
		Antimony (SD-6, 24.5 mg/Kg "[ ]")	

FUTURE EXPOSURE: Resident Adult

Non-Carcinogenic Soil Ingestion	Carcinogenic Soil Ingestion	Non-Carcinogenic Sediment Ingestion	Carcinogenic Sediment Ingestion
Arsenic (SS-3, 31.4 mg/Kg "L")	PCB (SS-3, 7.9 mg/Kg "J")	Arsenic (SD-6, 53.5 mg/Kg "L")	PCB (SD-2, 36.6 mg/Kg "D/J")
Manganese (SS-3, 380 mg/Kg "L")	Benzo(a)pyrene (SS-1, 0.24 mg/Kg "J")	Manganese (SD-6, 4710 mg/Kg "L")	Benzo(a)Pyrene (SD-1, 0.5 mg/Kg "J")
Chromium (SS-2, 56.7 mg/Kg)	Arsenic (SS-3, 31.4 mg/Kg "L")	PCB (SD-2, 6.6 mg/Kg "D/J")	Arsenic (SD-6, 53.5 mg/Kg "L")
Antimony (SS-3, 8.9 mg/Kg "[ ]")	Beryllium (SS-3, 0.23 mg/Kg "[ ]L")	Chromium (SD-4, 92.7 mg/Kg)	Dieldrin (SD-2, 0.068 mg/Kg "J")
Beryllium (SS-3, 0.23 mg/Kg "[ ]L")	Benzo(a)Anthracene (SS-1, 0.25 mg/Kg "J")	Vanadium (SD-2, 81.4 mg/Kg)	Benzo(a)Anthracene (SD-7, 3.8 mg/Kg "J")
	Benzo(b)Fluoranthene (SS-1, 0.31 mg/Kg "J")	Copper (SD-2, 301 mg/Kg "J")	Benzo(b)Fluoranthene (SD-7, 2.5 mg/Kg "J")
	Indeno (1,2,3-cd)Pyrene (SS-1, 0.17 mg/Kg "J")	Chlordane (SD-1, 0.111 mg/Kg "J")	DiBenzo(a,h)Anthrancene (SD-1, 0.13 mg/Kg "J")
	DiBenzo(a,h)Anthracene (SS-1, 0.04 mg/Kg "J")	Dieldrin (SD-2, 0.068 mg/Kg "J")	Chlordane (SD-1, 0.111 mg/Kg "J")
		Antimony (SD-6, 24.5 mg/Kg "[ ]")	

FUTURE EXPOSURE: Resident Child

Non-Carcinogenic Soil Ingestion	Non-Carcinogenic Sediment Ingestion
Arsenic (SS-3, 31.4 mg/Kg "L")	Arsenic (SD-6, 53.5 mg/Kg "L")
Manganese (SS-3, 380 mg/Kg "L")	Manganese (SD-6, 4710 mg/Kg "L")
Chromium (SS-2, 56.7 mg/Kg)	PCB (SD-2, 6.6 mg/Kg "D/J")
Antimony (SS-3, 8.9 mg/Kg "[ ]")	Chromium (SD-4, 92.7 mg/Kg)
Beryllium (SS-3, 0.23 mg/Kg "[ ]L")	Vanadium (SD-2, 81.4 mg/Kg)
	Copper (SD-2, 301 mg/Kg "J")
	Chlordane (SD-1, 0.111 mg/Kg "J")

TABLE 10. QUALIFIED AND RISK-BASED CONCENTRATION-SCREENING YIELDING ANALYTES OF CONCERN EVALUATED TOXICOLOGICALLY AS PRESENT/FUTURE CARCINOGENIC EXPOSURE SCENARIOS FOR THE AMTRAK WRF SITE

FUTURE SITE USE SCENARIO

CARCINOGENIC RISK – SHALLOW SOIL								
Analytes	Location	Concentration (mg/Kg)	Data Qualifier	Resident Exposure (Adults)	Resident Exposure (Children)	Toxicological Values Applied: Oral RfD (Source)	Toxicological Values Applied: Oral Potency Slope (Source)	EPA Cancer Weight-of-Evidence
Polychlorinated Biphenyls	SS-3	7.9	J	9.5 x 10E-06	---	---	7.70E + 00 (i)	B2
Benzo(a)pyrene	SS-1	0.24	J	2.7 x 10E-06	---	---	7.30E + 00 (i)	B2
Arsenic	SS-3	31.4	L	8.6 x 10E-05	---	3.00E-04 (i)	1.75E + 00 (i)	A
Beryllium	SS-3	0.23	[ ] L	1.5 x 10E-06	---	5.00E-03(i)	4.30E+00(i)	B2
Benzo(a)Anthracene	SS-1	0.25	J	2.8 x 10E-07	---	---	7.30E-01(e)	B2
Benzo(b)Fluoranthene	SS-1	0.31	J	3.5 x 10E-07	---	---	7.30E-01(e)	B2
Indeno(1,2,3-cd)Pyrene	SS-1	0.17	J	1.9 x 10E-07	---	---	7.30E-01(e)	B2
DiBenzo(a,h)Anthracene	SS-1	0.04	J	4.6 x 10E-07	---	---	7.30E+00(e)	B2
Total Increased Incremental Lifetime Cancer Risk				1.87 x 10E-04*				

PRESENT/FUTURE SITE USE SCENARIO

CARCINOGENIC RISK – SHALLOW SOIL							
Analytes	Location	Concentration (mg/Kg)	Data Qualifier	On-Site Worker	Toxicological Values Applied: Oral RfD (Source)	Toxicological Values Applied: Oral Potency Slope (Source)	EPA Cancer Weight-of-Evidence
Polychlorinated Biphenyls	SS-3	7.9	J	2.1 x 10E-05	---	7.70E + 00 (i)	B2
Benzo(a)pyrene	SS-1	0.24	J	6.1 x 10E-07	---	7.30E + 00 (i)	B2
Arsenic	SS-3	31.4	L	1.9 x 10E-05	3.00E-04 (i)	1.75E + 00 (i)	A
Beryllium	SS-3	0.23	[ ] L	3.4 x 10E-07	5.00E-03(i)	4.30E+00(i)	B2
Benzo(a)Anthracene	SS-1	0.25	J	6.4 x 10E-08	---	7.30E-01(e)	B2
Benzo(b)Fluoranthene	SS-1	0.31	J	7.9 x 10E-08	---	7.30E-01(e)	B2
Indeno(1,2,3-cd)Pyrene	SS-1	0.17	J	4.3 x 10E-08	---	7.30E-01(e)	B2
DiBenzo(a,h)Anthracene	SS-1	0.04	J	1.0 x 10E-07	---	7.30E+00(e)	B2
Total Increased Incremental Lifetime Cancer Risk				4.17 x 10E-05*			

* Rounded Total from additional decimal places.
NA = Not available.
IRIS-2(i), withdrawn from IRIS-2(x), HEAST alternative method (a), withdrawn from HEAST (y), EPA-ECAO (e), other EPA documents (o).
NQ, J, K, L, [ ] = Data qualifers applied – see Appendix 2.
Carcinogen Weight-of-Evidence = see Appendix 5.
Shaded areas = Exceedances of 1.0 x 10E-06 for Cancer Risk or 1 for Hazard Quotient.

NOTE: Dose – Response Modeling Paradigm – see Appendix 6.

TABLE 11. QUALIFIED AND RISK–BASED CONCENTRATION–SCREENING YIELDING ANALYTES OF CONCERN EVALUATED TOXICOLOGICALLY AS PRESENT NON–CARCINOGENIC EXPOSURE SCENARIOS FOR AMTRAK WRF

PRESENT SITE USE SCENARIO

HAZARD QUOTIENT – SHALLOW SOIL								
Inorganic Analytes	Location	(mg/Kg) Concentration	Data Qualifier	Trespassing Child Exposure	Trespassing Adult Exposure	Toxicological Values Applied: Oral RfD Source	Toxicological Values Applied: Oral Potency Slope (Source)	EPA Cancer Weight–of–Evidence
Arsenic	SS–3	31.4	L	0.29822	0.03195	3.00E–04 (i)	1.75E + 00 (i)	A
Manganese	SS–3	380	L	0.21654	0.02320	5.00E–03 (i)	---	D
Chromium	SS–2	56.7	NQ	0.03231	0.00346	5.00E–03 (i)	---	
Antimony	SS–3	8.9	[ ]	0.06339	0.00679	4.00E–04(i)	---	
Beryllium	SS–3	0.23	[ ] L	0.00013	0.00001	5.00E–03(i)	4.30E+00(i)	B2
Total Non–Cancer/Systemic Hazard Index for Shallow Soil.				0.61061*	0.06542*	---	---	

PRESENT SITE USE SCENARIO

HAZARD QUOTIENT – SHALLOW SOIL							
Inorganic Analytes	Location	(mg/Kg) Concentration	Data Qualifier	On–Site Worker	Toxicological Values Applied: Oral RfD Source	Toxicological Values Applied: Oral Potency Slope (Source)	EPA Cancer Weight–of–Evidence
Arsenic	SS–3	31.4	L	0.10241	3.00E–04 (i)	1.75E + 00 (i)	A
Manganese	SS–3	380	L	0.07436	5.00E–03 (i)	---	D
Chromium	SS–2	56.7	NQ	0.011095	5.00E–03 (i)	---	
Antimony	SS–3	8.9	[ ]	0.021771	4.00E–04(i)	---	
Beryllium	SS–3	0.23	[ ] L	0.000045	5.00E–03(i)	4.30E+00(i)	B2
Total Non–Cancer/Systemic Hazard Index for Shallow Soil.				0.20969*	---	---	

IRIS–2 (i), withdrawn from IRIS–2 (x), HEAST (h), HEAST alternative method (a), withdrawn from HEAST (y), EPA–ECAO (e), other EPA documents (o).
NQ, J, K, L, [ ] = Data qualifiers applied – see Appendix 2.
Shaded areas = Exceedances of 1.0 x 10E–06 for Cancer Risk or 1 for Hazard Quotient.
* Rounded Total from additional decimal places.

NOTE: Dose–Response Modeling Paradigm – see Appendix 6.

TABLE 12. QUALIFIED AND RISK–BASED CONCENTRATION–SCREENING YIELDING ANALYTES OF CONCERN EVALUATED TOXICOLOGICALLY AS FUTURE NON–CARCINOGENIC EXPOSURE SCENARIOS FOR AMTRAK WRF

FUTURE SITE USE SCENARIO

HAZARD QUOTIENT – SHALLOW SOIL								
				Resident	Resident	Toxicological Values Applied		EPA Cancer
Inorganic Analytes	Location	(mg/Kg) Concentration	Data Qualifier	Adult Exposure	Child Exposure	Oral RfD Source	Oral Potency Slope (Source)	Weight–of–Evidence
Arsenic	SS–3	31.4	L	0.14337	1.33820	3.00E–04 (i)	1.75E + 00 (i)	A
Manganese	SS–3	380	L	0.10410	0.97168	5.00E–03 (i)	– – –	D
Chromium	SS–2	56.7	NQ	0.01553	0.14498	5.00E–03 (i)	– – –	
Antimony	SS–3	8.9	[ ]	0.03048	0.28447	4.00E–04(i)	– – –	
Beryllium	SS–3	0.23	[ ] L	0.00006	0.00058	5.00E–03(i)	4.30E+00(i)	B2
Total Non–Cancer/Systemic Hazard Index for Shallow Soil.				0.29356*	2.73994*	– – –	– – –	

IRIS–2 (i), withdrawn from IRIS–2 (x), HEAST (h), HEAST alternative method (a), withdrawn from HEAST (y), EPA–ECAO (e), other EPA documents (o).
NQ, J, K, L, [ ] = Data qualifiers applied – see Appendix 2.
Shaded areas = Exceedances of 1.0 x 10E–06 for Cancer Risk or 1 for Hazard Quotient.
* Rounded Total from additional decimal places.

NOTE: Dose–Response Modeling Paradigm – see Appendix 6.

TABLE 13. SUMMARY FOR ANALYTES OF CONCERN AS EVALUATED AND BASED ON EXCEEDANCES OF RISK-BASED CONCENTRATIONS OR OTHER SCREENING VALUES (SUCH AS MCL/SMCL OR AWQC) APPLYING QUALIFIED DATA

Media and Analytes	Data Application
ORGANIC ANALYTES	
Soil	
PCBs, SS-3, 7.9 mg/Kg, > RBC	Risk Modeled
Benzo(a)pyrene, SS-1 (Background), 0.24 mg/Kg, > RBC	Risk Modeled
Benzo(a)Anthracene, SS-1, 0.25 mg/Kg, 70.1 RBC	Risk Modeled
Benzo(b)Fluoranthene, SS-1, 0.31 mg/Kg, > 0.1 RBC	Risk Modeled
Indeno(1,2,3-cd)Pyrene, SS-1,).17 mg/Kg, > 0.1 RBC	Risk Modeled
DiBenzo(a,h)Anthracene, SS-1, 0.04 mg/Kg, > 0.1 RBC	Risk Modeled
Sediment (Screened using soil RBCs) (Evaluated Using Soil Exposure Scenarios)	
PCBs, SD-2, 36.6, > RBC	Risk Modeled
Benzo(a)Pyrene, SD-1, 0.5 mg/Kg, > RBC	Risk Modeled
Benzo(a)Anthracene, SD-7, 3.8 mg/Kg, > 0.1 RBC	Risk Modeled
Benzo(b)Fluoranthene, SD-7, 2.5 mg/Kg, > 0.1 RBC	Risk Modeled
DiBenzo(a,h)Anthracene, SD-1, 0.13 mg/Kg, > 0.1 RBC	Risk Modeled
Dieldrin, SD-2, 0.068 mg/Kg, > 0.1 RBC	Risk Modeled
Chlordane, SD-1, 0.111 mg/Kg, > 0.1 RBC	
Surface Water	
----	N/A
INORGANIC ANALYTES	
Soil	
Arsenic, SS-3, 31.4 mg/Kg, > RBC	Risk Modeled
Manganese, SS-3, 380 mg/Kg, > 0.1 RBC	Risk Modeled
Chromium, SS-2, 56.7 mg/Kg, > 0.1 RBC	Risk Modeled
Antimony, SS-3, 8.9 mg/Kg, > 0.1 RBC	Risk Modeled
Beryllium, SS-3, 0.23 mg/Kg, > 0.1 RBC	Risk Modeled
Lead, SS-3, 650 mg/Kg, > CHAL	Discussed
Sediment (Screened using soil RBCs) (Evaluated Using Soil Exposure Scenarios)	
Arsenic, SD-6, 53.5 mg/Kg, > RBC	Risk Modeled
Manganese, SD-6, 4710 mg/Kg, > RBC	Risk Modeled
Chromium, SD-4, 92.7 mg/Kg, > 0.1 RBC	Risk Modeled
Vanadium, SD-2, 81.4 mg/Kg, > 0.1 RBC	Risk Modeled
Copper, SD-2, 301 mg/Kg, > 0.1 RBC	Risk Modeled
Antimony, SD-6, 24.5 mg/Kg, > 0.1 RBC	Risk Modeled
Lead, SD-2, 1040 mg/Kg, > CHAL	Noted
Surface Water (Chronic Ambient Water Quality Criteria)	
Aluminum, Lead, Cyanide, Iron, Mercury	Noted

TABLE 14A. SUMMARY OF SPECIFIC RISKS/ADVERSE EFFECT POTENTIAL FOR SITE SAMPLING LOCATIONS, RECEPTORS, AND ANALYTES AS MODELED FOR THE AMTRAK WRF SITE

Location	Media Sample	Analyte	Receptor	Time	Cancer Risk	Non-Cancer Risk
SS-3 West Side	Soil	PCB	Worker	Present	2.1E-05	---
			Resident Adult	Future	8.9E-05	---
	Soil	Arsenic	Worker	Present	1.9E-05	0.10241
			Resident Adult	Future	8.0E-05	0.14337
			Resident Child	Future	---	1.33820
			Trespassing Child	Present	---	0.29822
			Trespassing Adult	Present	---	0.03195
	Soil	Manganese	Worker	Present	---	0.07436
			Resident Adult	Future	---	0.10410
			Resident Child	Future	---	0.97168
			Trespassing Child	Present	---	0.21654
			Trespassing Adult	Present	---	0.02320
	Soil	Beryllium	Worker	Present	3.4E-07	0.00004
			Resident Adult	Future	1.5E-06	0.00006
			Resident Child	Future	---	0.00058
			Trespassing Child	Present	---	0.00013
			Trespassing Adult	Present	---	0.00001
	Soil	Antimony	Worker	Present	---	0.02177
			Resident Adult	Future	---	0.03048
			Resident Child	Future	---	0.28447
			Trespassing Child	Present	---	0.06339
			Trespassing Adult	Present	---	0.00679
SS-2 East Side	Soil	Chromium	Worker	Present	---	0.011095
			Resident Adult	Future	---	0.01553
			Resident Child	Future	---	0.14498
			Trespassing Child	Present	---	0.03231
			Trespassing Adult	Present	---	0.00346
SS-1 Background	Soil	Benzo(a)Pyrene	Worker	Present	6.1E-07	---
			Resident Adult	Future	2.7E-06	---
	Soil	Benzo(a)Anthracene	Worker	Present	6.4E-08	---
			Resident Adult	Future	2.8E-07	---
	Soil	Benzo(b)Fluoranthene	Worker	Present	7.9E-08	---
			Resident Adult	Future	3.5E-07	---
	Soil	Indeno(1,2,3-cd)Pyrene	Worker	Present	4.3E-08	---
			Resident Adult	Future	1.9E-07	---
	Soil	DiBenzo(a,h)Anthracene	Worker	Present	1.0E-07	---
			Resident Adult	Future	4.6E-07	---

Shaded areas indicate increased lifetime cancer risks > 1.0E-06 target value or adverse health effect potential as hazard quotients greater than unity.

TABLE 14B. SUMMARY OF SPECIFIC RISKS/ADVERSE EFFECT POTENTIAL FOR SITE SAMPLING LOCATIONS, RECEPTORS, AND ANALYTES AS MODELED FOR THE AMTRAK WRF SITE

Location	Media Sample	Analyte	Receptor	Time	Cancer Risk	Non-Cancer Risk
SD-2	Sediment	PCB	Worker	Present	9.8E-04	---
			Resident Adult	Future	4.4E-04	---
	Sediment	Dieldrin	Worker	Present	3.8E-07	0.00133
			Resident Adult	Future	1.7E-06	0.00186
			Resident Child	Future	---	0.01739
			Trespassing Child	Present	---	0.00387
			Trespassing Adult	Present	---	0.00041
	Sediment	Aroclor-1254	Worker	Present	---	0.32289
			Resident Adult	Future	---	0.45205
			Resident Child	Future	---	4.21917
			Trespassing Child	Present	---	0.94027
			Trespassing Adult	Present	---	0.10074
	Sediment	Vanadium	Worker	Present	---	0.01138
			Resident Adult	Future	---	0.01593
			Resident Child	Future	---	0.14867
			Trespassing Child	Present	---	0.03313
			Trespassing Adult	Present	---	0.00355
	Sediment	Copper	Worker	Present	---	0.00793
			Resident Adult	Future	---	0.01111
			Resident Child	Future	---	0.10373
			Trespassing Child	Present	---	0.02311
			Trespassing Adult	Present	---	0.00247
SD-6	Sediment	Arsenic	Worker	Present	3.2E-05	0.17449
			Resident Adult	Future	1.4E-04	0.24429
			Resident Child	Future	---	2.28006
			Trespassing Child	Present	---	0.50813
			Trespassing Adult	Present	---	0.05444
	Sediment	Manganese	Worker	Present	---	0.92172
			Resident Adult	Future	---	1.29041
			Resident Child	Future	---	12.04383
			Trespassing Child	Present	---	2.68405
			Trespassing Adult	Present	---	0.28757
	Sediment	Antimony	Worker	Present	---	0.05993
			Resident Adult	Future	---	0.08390
			Resident Child	Future	---	0.78310
			Trespassing Child	Present	---	0.17452
			Trespassing Adult	Present	---	0.01869
SD-1	Sediment	Chlordane	Worker	Present	5.0E-08	0.00181
			Resident Adult	Future	2.3E-07	0.00253
			Resident Child	Future	---	0.23653
			Trespassing Child	Present	---	0.00527
			Trespassing Adult	Present	---	0.00056
	Sediment	Benzo(a)Pyrene	Worker	Present	1.3E-06	---
			Resident Adult	Future	5.7E-06	---
	Sediment	DiBenzo(a,h)Anthracene	Worker	Present	3.3E-07	---
			Resident Adult	Future	1.5E-06	---
SD-4	Sediment	Chromium	Worker	Present	---	0.01814
			Resident Adult	Future	---	0.02539
			Resident Child	Future	---	0.23704
			Trespassing Child	Present	---	0.05282
			Trespassing Adult	Present	---	0.00566
SD-7	Sediment	Benzo(a)Anthracene	Worker	Present	9.7E-07	---
			Resident Adult	Future	4.3E-06	---
	Sediment	Benzo(b)Fluoranthene	Worker	Present	6.4E-07	---
			Resident Adult	Future	2.8E-06	---

Shaded areas indicate increased lifetime cancer risks > 1.0E-06 target value or adverse health effect potential as hazard quotients greater than unity.

LJJ01227.wk3

TABLE 15. QUALIFIED AND RISK-BASED CONCENTRATION-SCREENING YIELDING ANALYTES OF CONCERN EVALUATED TOXICOLOGICALLY AS PRESENT/FUTURE CARCINOGENIC EXPOSURE SCENARIOS FOR THE AMTRAK WRF SITE

FUTURE SITE USE SCENARIO

CARCINOGENIC RISK – SEDIMENT								
				Resident Exposure		Toxicological Values Applied		EPA Cancer Weight-of-Evidence
Analytes	Location	Concentration (mg/Kg)	Data Qualifier	(Adults)	(Children)	Oral RfD (Source)	Oral Potency Slope (Source)	
Polychlorinated Biphenyls	SD-2	36.6	D/J	4.41x10E-04	---	---	7.70E+00(i)	B2
Benzo(a)pyrene	SD-1	0.5	J	5.71x10E-06	---	---	7.30E+00 (i)	B2
Arsenic	SD-6	53.5	L	1.46x10E-04	---	3.00E-04 (i)	1.75E+00(i)	A
Dieldrin	SD-2	0.068	J	1.70x10E-06	---	5.00E-03(i)	1.60E+01(i)	B2
Benzo(a)Anthracene	SD-7	3.8	J	4.34x10E-06	---	---	7.30E-01(e)	B2
Benzo(b)Fluoranthene	SD-7	2.5	J	2.85x10E-06	---	---	7.30E-01(e)	B2
DiBenzo(a,h)Anthracene	SD-1	0.13	J	1.48x10E-06	---	---	7.30E+00(e)	B2
Chlordane	SD-1	0.111	J	2.26x10E-07	---	6.00E-05(i)	1.30E+00(i)	B2
Total Increased Incremental Lifetime Cancer Risk				6.04x10E-04*				

PRESENT/FUTURE SITE USE SCENARIO

CARCINOGENIC RISK – SEDIMENT							
					Toxicological Values Applied		EPA Cancer Weight-of-Evidence
Analytes	Location	Concentration (mg/Kg)	Data Qualifier	On-Site Worker	Oral RfD (Source)	Oral Potency Slope (Source)	
Polychlorinated Biphenyls	SD-2	36.6	D/J	9.85 x 10E-05	---	7.70E+00(i)	B2
Benzo(a)pyrene	SD-1	0.5	J	1.27 x 10E-06	---	7.30E+00 (i)	B2
Arsenic	SD-6	53.5	L	3.27 x 10E-05	3.00E-04 (i)	1.75E+00(i)	A
Dieldrin	SD-2	0.068	J	1.80 x 10E-07	5.00E-03(i)	1.60E+01(i)	B2
Benzo(a)Anthracene	SD-7	3.8	J	9.70 x 10E-07	---	7.30E-01(e)	B2
Benzo(b)Fluoranthene	SD-7	2.5	J	6.38 x 10E-07	---	7.30E-01(e)	B2
DiBenzo(a,h)Anthracene	SD-1	0.13	J	3.31 x 10E-07	---	7.30E+00(e)	B2
Chlordane	SD-1	0.111	J	5.04 x 10E-08	6.00E-05(i)	1.30E+00(i)	B2
Total Increased Incremental Lifetime Cancer Risk				1.35 x 10E-04*			

* Rounded Total from additional decimal places.
NA = Not available.
IRIS-2(i), withdrawn from IRIS-2(x), HEAST alternative method (a), withdrawn from HEAST (y), EPA-ECAO (e), other EPA documents (o).
NQ, J, K, L, [ ] = Data qualifers applied – see Appendix 2.
D = Diluted Sample
Carcinogen Weight-of-Evidence = see Appendix 5.
Shaded areas = Exceedances of 1.0 x 10E-06 for Cancer Risk or 1 for Hazard Quotient.

TABLE 16. QUALIFIED AND RISK–BASED CONCENTRATION–SCREENING YIELDING ANALYTES OF CONCERN EVALUATED TOXICOLOGICALLY AS PRESENT NON–CARCINOGENIC EXPOSURE SCENARIOS FOR AMTRAK WRF

PRESENT SITE USE SCENARIO

HAZARD QUOTIENT – SEDIMENT								
				Trespassing	Trespassing	Toxicological Values Applied		EPA Cancer
Inorganic Analytes	Location	(mg/Kg) Concentration	Data Qualifier	Child Exposure	Adult Exposure	Oral RfD Source	Oral Potency Slope (Source)	Weight–of–Evidence
Arsenic	SD–6	53.5	L	0.50813	0.05444	3.00E–04 (i)	1.75E + 00 (i)	A
Manganese	SD–6	4710	L	2.68405	0.28757	5.00E–03 (i)	---	D
Aroclor–1254	SD–2	6.6	D/J	0.94027	0.10074	2.00E–05 (i)	7.7E+00 (i)	B2
Chromium (as VI)	SD–4	92.7	NQ	0.05282	0.00566	5.00E–03 (i)	---	---
Vanadium	SD–2	81.4	NQ	0.03313	0.00355	7.00E–03 (h)	---	---
Copper	SD–2	301	J	0.02311	0.00247	3.71E–02 (h)	---	D
Chlordane (total)	SD–1	.111	J	0.00527	0.00056	6.00E–05 (i)	1.30E+00 (i)	B2
Dieldrin	SD–2	.068	J	0.00387	0.00041	5.00E–05 (i)	1.60E+01 (i)	B2
Antimony	SD–6	24.5	[ ]	0.17452	0.01869	4.00E–04 (i)	---	---
Total Non–Cancer/Systemic Hazard Index for Shallow Soil.				4.4252*	0.4741*	---	---	---

PRESENT SITE USE SCENARIO

HAZARD QUOTIENT – SEDIMENT							
					Toxicological Values Applied		EPA Cancer
Inorganic Analytes	Location	(mg/Kg) Concentration	Data Qualifier	On–Site Worker	Oral RfD Source	Oral Potency Slope (Source)	Weight–of–Evidence
Arsenic	SD–6	53.5	L	0.17449	3.00E–04 (i)	1.75E + 00 (i)	A
Manganese	SD–6	4710	L	0.92172	5.00E–03 (i)	---	D
Aroclor–1254	SD–2	6.6	D/J	0.32289	2.00E–05 (i)	7.7E+00 (i)	B2
Chromium (as VI)	SD–4	92.7	NQ	0.01814	5.00E–03 (i)	---	---
Vanadium	SD–2	81.4	NQ	0.01138	7.00E–03 (h)	---	---
Copper	SD–2	301	J	0.00793	3.71E–02 (h)	---	D
Chlordane (total)	SD–1	.111	J	0.00181	6.00E–05 (i)	1.30E+00 (i)	B2
Dieldrin	SD–2	.068	J	0.00133	5.00E–05 (i)	1.60E+01 (i)	B2
Antimony	SD–6	24.5	[ ]	0.05993	4.00E–04 (i)	---	---
Total Non–Cancer/Systemic Hazard Index for Shallow Soil.				1.5196*	---	---	---

IRIS–2 (i), withdrawn from IRIS–2 (x), HEAST (h), HEAST alternative method (a), withdrawn from HEAST (y), EPA–ECAO (e), other EPA documents (o).
NQ, J, K, L, [ ] = Data qualifiers applied – see Appendix 2.
D = Diluted Sample
Shaded areas = Exceedances of 1.0 x 10E–06 for Cancer Risk or 1 for Hazard Quotient.
* Rounded Total from additional decimal places.

NOTE: Dose–Response Modeling Paradigm – see Appendix 6

TABLE 17. QUALIFIED AND RISK–BASED CONCENTRATION–SCREENING YIELDING ANALYTES OF CONCERN EVALUATED TOXICOLOGICALLY AS FUTURE NON–CARCINOGENIC EXPOSURE SCENARIOS FOR AMTRAK WRF

FUTURE SITE USE SCENARIO

HAZARD QUOTIENT – SEDIMENT								
				Resident	Resident	Toxicological Values Applied		EPA Cancer
Inorganic Analytes	Location	(mg/Kg) Concentration	Data Qualifier	Adult Exposure	Child Exposure	Oral RfD Source	Oral Potency Slope (Source)	Weight–of–Evidence
Arsenic	SD - 6	53.5	L	0.24429	2.28006	3.00E–04 (i)	1.75E + 00 (i)	A
Manganese	SD–6	4710	L	1.29041	12.04383	5.00E–03 (i)	---	D
Aroclor–1254	SD–2	6.6	D/J	0.45205	4.21917	2.00E–05 (i)	7.7E+00 (i)	B2
Chromium (as VI)	SD–4	92.7	NQ	0.02539	0.23704	5.00E–03 (i)	---	---
Vanadium	SD–2	81.4	NQ	0.01593	0.14867	7.00E–03 (h)	---	---
Copper	SD–2	301	J	0.01111	0.10373	3.71E–02 (h)	---	D
Chlordane (total)	SD–1	.111	J	0.00253	0.23653	6.00E–05 (i)	1.30E+00 (i)	B2
Dieldrin	SD–2	.068	J	0.00186	0.01739	5.00E–05 (i)	1.60E+01 (i)	B2
Antimony	SD–6	24.5	[ ]	0.08390	0.78310	4.00E–04 (i)	---	---
Total Non–Cancer/Systemic Hazard Index for Shallow Soil.				2.1276*	19.8566*	---	---	---

IRIS–2 (i), withdrawn from IRIS–2 (x), HEAST (h), HEAST alternative method (a), withdrawn from HEAST (y), EPA–ECAO (e), other EPA documents (o).
NQ, J, K, L, [ ] = Data qualifiers applied – see Appendix 2.
D = Diluted Sample
Shaded areas = Exceedances of 1.0 x 10E–06 for Cancer Risk or 1 for Hazard Quotient.
* Rounded Total from additional decimal places.

NOTE: Dose–Response Modeling Paradigm – see Appendix 6.

APPENDIX D

ORGANIC DATA VALIDATION

State of Delaware
Department of Natural Resource
& Environmental Control
Division of Air and Waste Management
SUPERFUND BRANCH
715 Grantham Lane
New Castle, Delaware 19903

MEMORANDUM

TO: Larry Jones DATE: August 1, 1994

THRU: Stephen N. Williams SNW 8/2/94
Karl F. Kalbacher KFK 8/1/94

FROM: Robert M. Schulte RMS 8/1/94

SUBJECT: AMTRAK - DATA

As per our conversation of July 19, 1994, I reviewed the data validation reports on the Amtrak project and offer the following comments/recommendations:

- Semivolatile samples AT12, AT13, AT14, AT16, AT17, AT18, and AT21, were extracted at medium levels due to excessive levels of total petroleum hydrocarbons. The detection levels for semivolatile TCL compounds are very high and exceed 10^{-6} risk base concentration in many cases for the above samples.

- The pesticide/PCB medium level blank contained PCB 1254 Aroclor(?) at 549 ug/Kg. All values less than 5,490 ug/Kg for PCB 1254 must be rejected. In accordance with EPA risk assessment guidelines, all values less than ten times the blank can not be used as chemicals of concern.

- Pesticide/PCB sample AT21 original results were rejected by the data validator. There is a significant difference of PCB Aroclor 1260 in concentration comparison with the (3900 + 19000 ug/Kg) medium and low level analyses.

- Volatile samples AT-19R and AT-18R provides no useful information to the data user. The medium level sample analyses do not report any TCL or TIC compounds other than blank contaminants.

- Volatile samples AT12, AT13, AT14, AT16 and A17 were prepared as medium level extracts due to excessive levels of total petroleum hydrocarbons. The detection levels for volatile TCL compounds are very high and may exceed 10^{-6} risk base concentrations in some cases.

- No information is provided for volatile sample AT-21.

RMS:dmg:RMS94084

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION III
CENTRAL REGIONAL LABORATORY
201 DEFENSE HIGHWAY
SUITE 200
ANNAPOLIS, MARYLAND 21401

QUALITY
ASSURANCE
BRANCH

STATE OF DELAWARE
DNREC

JUN 29 1994
#11356
RECEIVED
SUPERFUND BRANCH

DATE : June 9, 1994

SUBJECT: Region III Data QA Review

FROM : Cynthia E. Caporale C. Caporale
Region III ESAT RPO (3ES30)

TO : ~~Harry Otto~~ Nandikkara V. Ramanujam
State of Delaware

Attached are the organic data validation reports for the Amtrak WRF Inspection Site completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III ESD.

If you have any questions regarding this review, please call me at (410) 573-6832.

Attachment

cc: Mike Guiranna, RPO, w/o attachment (3HW73)
Monica Jones, Region III State Coordinator (3ES32)

TID File: 03940540

STATE OF DELAWARE
TECH SERVICES SECTION
RECEIVED
JUN 16 1994
DIV. OF WATER RESOURCES

Printed on Recycled Pape

Lockheed
Environmental Systems & Technologies Co.
Environmental Services Assistance Teams
Region 3
1419 Forest Drive, Suite 104
Annapolis, Maryland 21403
Phone: (410) 268-7705
Fax: (410) 268-8472

DATE: June 8, 1994

SUBJECT: Level M2 Organic Data Validation
Site: Amtrak WRF

FROM: Edgar A. Latham EAL
Organic Data Reviewer

Mahboobeh Mecanic MM
Senior Oversight Chemist

TO: Cynthia E. Caporale
ESAT Regional Project Officer

THROUGH: Dale S. Boshart DSB
ESAT Team Manager

OVERVIEW

The case for Amtrak WRF consisted of eleven (11) soil samples submitted to the State of Delaware, Department of Natural Resources and Environmental Control (DE023) for volatile, semivolatile and pesticide/PCB analyses. The case included one (1) field duplicate pair. The samples were analyzed as a Contract Laboratory Program (CLP) Routine Analytical Service (RAS). Only samples 9303965, 9303969, and 9303974 were analyzed for volatiles because holding times were exceeded for the remaining samples due to instrument problems in the laboratory. The affected samples will be re-sampled for volatile analysis. See memo and the Case Narrative in Appendix D.

SUMMARY

Data validation was performed according to the Level M2 review, which includes the evaluation of all QA/QC measurements except the sample spectra and excludes the review of raw data.

All samples were successfully analyzed for all target compounds. All instrument and method sensitivities were according to the Contract Laboratory Program (CLP) Routine Analytical Service (RAS) protocol.

MINOR PROBLEMS

- Several compounds failed precision criteria in the volatile and semivolatile initial and/or continuing calibrations. The

positive result for 2-butanone was qualified "J" in the volatile analysis of sample 9303969. See Forms VI and VII in Appendix D.

- In the pesticide/PCB analyses, many of the samples had surrogate recoveries outside the QC limits. Poor surrogate recoveries were probably due to matrix interference. Results were reported from the reanalyses (designated by the -DL suffix), for samples 9303966, 9303968, 9303970, 9303971, 9303974, and 9303975. The results for sample 9303967 were reported from the initial analysis. Several compounds detected in the initial analyses only were reported on the reanalysis Form Is and marked with an asterisk (*). These results were qualified "J" or "L" based on the surrogate outliers from the initial analyses. See Form II Pest-2 and the Case Narrative in Appendix D.

- The "P" qualifier used on the pesticide/PCB Form Is denotes a percent difference (%D) greater than twenty-five percent (>25%) between the reported results on the two (2) columns used for the analyses. These results were qualified "J" on the Form Is. See Form Is in Appendix B and Form Xs in Appendix D.

NOTES

- All samples were originally extracted for semivolatiles by the low level method and screened by GC/FID. Screening results indicated that samples 9303966, 9303967, 9303968, 9303968MS, 9303968MSD, 9303970, 9303971, 9303972, and 9303975 should be extracted by the medium level method. See Case Narrative in Appendix D.

- According to the laboratory, the samples were very oily and difficult to extract for pesticide/PCB analysis. In anticipation of analytical problems, all samples were analyzed by the low level and medium level methods, except sample 9303969, which was analyzed by the low level method only. Sample 9303969 was also analyzed at a 10x dilution. See Case Narrative in Appendix D.

- Sample 9303966 was re-extracted and re-analyzed by the medium level method for semivolatiles because of poor surrogate recoveries and GC/FID screening results. The re-extraction was performed ten (10) days after the date of sample collection and subsequently reanalyzed. Although no technical holding time for the semivolatile extraction of soil samples has been established, the re-extraction exceeded the technical holding time of seven (7) days for aqueous samples by three (3) days. All surrogate recoveries were within QC limits in the re-extraction; therefore, only data from the reanalysis were reported by the laboratory. No data were qualified by

the reviewer due to this minor holding time infraction because semivolatile compounds are considered to be persistent in soil samples. The contractual holding time was met by the laboratory. See Form I in Appendix C, and Case Narrative and Traffic Report in Appendix D.

- In the pesticide/PCB analyses, alpha-BHC exceeded the QC limit in the initial calibration dated 12/28/93 for the DB-1701 column. Endosulfan II exceeded the QC limit in the initial calibration dated 12/28/93 for the DB-608 column. No data were qualified. See Form VI Pest-2 Pest in Appendix D.

- The maximum concentration of all compounds found in the analyses of the laboratory method blanks are listed below. Samples with concentrations of common laboratory contaminants less than ten times (<10X) the blank concentration have been qualified "B" on the Form Is.

Compound	Concentration (µg/Kg)
methylene chloride *	4 J
acetone *	9 J
di-n-butylphthalate *	86 J
bis(2-ethylhexyl)phthalate *	48 J
aroclor-1254	490 J (medium level)

* Common Laboratory Contaminant

- Several compounds were not detected in the initial pesticide/PCB analyses of samples 9303968, 9303971 and 9303975. However, in the medium level analysis of these samples, endrin aldehyde was detected in 9303968DL, endosulfan sulfate and endrin aldehyde were detected in 9303971DL, and endrin and endrin aldehyde were detected in 9303975DL. The results for these compounds were reported from the medium level analyses and reported on the initial analysis Form Is by the data reviewer and marked with an asterisk (*). See Form Is in Appendix B and Appendix D.

- Sample 9303969 was reanalyzed for pesticides/PCBs at a 10x dilution (9303969DL). Results from the initial analysis were reported because of better surrogate recoveries. See Form Is in Appendix B and D.

- Gel Permeation Chromatography (GPC) cleanup was performed in the semivolatile and pesticide/PCB analyses of the soil samples. The dilution factor of two (2) required by this procedure was accounted for in the analytical procedures used by the laboratory.

- In the Pesticide GPC calibration check dated 12/9/93, endrin recovery was 75%, which is just outside the lower QC limit. This is most likely the result of breakdown during the GC analysis and not to poor GPC recovery. The laboratory should have met the GPC calibration QC requirements prior to sample cleanup. No data were qualified. See Form IX Pest-2 and Case Narrative in Appendix D.

- Sample weights other than thirty (30) grams for low level analysis and/or one (1) gram for medium level analysis were used in the semivolatile and pesticide/PCB analyses of several samples.

- One (1) field duplicate pair was analyzed (samples 9303966 and 9303967. See Form Is in Appendix B and the Request for Laboratory Analysis in Appendix D.

- In the volatile MS/MSD analyses of sample 9303965, and the pesticide/PCB MS/MSD analyses of samples 9303968 and 9303968DL, positive results for non-spiked compounds were circled on the Form Is. See Form Is in Appendix D.

- The semivolatile MS/MSD analyses of sample 9303965 had one (1) out of eleven (11) relative percent differences (RPDs) outside the QC limit. See Form III SV-2 and Form Is in Appendix D.

- The semivolatile MS/MSD analyses of sample 9303968, which was analyzed by the medium level method, had one (1) out of eleven (11) RPDs and eleven (11) out of twenty-two (22) spike recoveries outside the QC limits. See Form III SV-2 in Appendix D.

- The pesticide/PCB MS/MSD analyses of sample 9303968 had eight (8) out of twelve (12) spike recoveries outside the QC limits. Gamma-BHC, heptachlor and 4,4'-DDT had a 0% recovery, which was attributed to matrix interference by the laboratory. See Form III Pest-1 and the Case Narrative in Appendix D.

- The pesticide/PCB MS/MSD analyses of sample 9303968DL had two (2) out of twelve (12) spike recoveries outside the QC limits. See Form III Pest-1 in Appendix D.

- In the pesticide MSD analyses, the units were incorrectly reported as µg/L by the laboratory and were changed to µg/Kg by the reviewer. See Form III Pest-1 in Appendix D.

- The retention time for tetrachloro-m-xylene was just outside the upper QC limit for the MS/MSD analyses of sample 9303968. No data were qualified. See Pesticide Analytical Sequence in Appendix D.

- The acid surrogate phenol-d5 (S4) was outside the lower QC limit in the semivolatile analyses of samples 9303967, 9303968, and 9303972. No data were qualified. See Form II SV-2 in Appendix D.

- In the pesticide/PCB analyses, one (1) surrogate was outside the QC limit in samples 9303966DL, 9303967DL, 9303968DL, 9303969DL, 9303970DL, 9303971DL, 9303972, 9303973, and 9303975DL. No data were qualified. See Form II Pest-2 in Appendix D.

- One or two surrogates were outside the lower QC limits in the pesticide/PCB MS/MSD analyses of samples 9303968 and 9303968DL. No data were qualified. See Form II Pest in Appendix D.

- The tentatively identified compounds (TICs) in Appendix C were reviewed and corrected during data validation. Compounds identified as blank contaminants were crossed off the TIC Form Is.

All data for Amtrak WRF were reviewed in accordance with the Level M2 Innovative Approach for Validation of Organic Data in conjunction with the National Functional Guidelines for Evaluating Organic Analyses with modification for use within Region III. The text of the report addresses only those problems affecting usability.

ATTACHMENTS

1) Appendix A - Glossary of Data Qualifiers
2) Appendix B - Results as Reported by the Laboratory and Qualified by the Data Reviewer for All Target Compounds
3) Appendix C - Reviewed and Corrected Tentatively Identified Compounds
4) Appendix D - Support Documentation

DCN:EL405A05.AMT

Appendix A

Glossary of Data Qualifiers

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED TO IDENTIFICATION
(confidence concerning presence or absence of compounds)

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

NO CODE = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

N = Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION
(can be used for both positive results and sample quantitation limits):

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

Q = No analytical result.

Appendix B

Results Reported by the Laboratory and Qualified by the Reviewer
Based on Level M2 Validation

VOLATILE RESULTS

Level M2 Review

000047

EPA SAMPLE NO.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Location: AT-11

9303965

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ------ SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT-11

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >V1404

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: not dec.17 Date Analyzed: 12/08/93

GC Column: PACK ID: 2 (mm) Dilution Factor: 1.0

Soil Extract Volume: ------ (ul) Soil Aliquot Volume: ------ (ul)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	12.	U
74-83-9	Bromomethane	12.	U
75-01-4	Vinyl Chloride	12.	U
75-00-3	Chloroethane	12.	U
75-09-2	Methylene Chloride	4.	~~J~~B
67-64-1	Acetone	4.	~~J~~B
75-15-0	Carbon Disulfide	12.	U
75-35-4	1,1-Dichloroethene	12.	U
75-34-3	1,1-Dichloroethane	12.	U
540-59-0	1,2-Dichloroethene (total)	12.	U
67-66-3	Chloroform	12.	U
107-02-2	1,2-Dichloroethane	12.	U
78-93-3	2-Butanone	12.	U
71-55-6	1,1,1-Trichloroethane	12.	U
56-23-5	Carbon Tetrachloride	12.	U
75-27-4	Bromodichloromethane	12.	U
78-87-5	1,2-Dichloropropane	12.	U
10061-01-5	cis-1,3-Dichloropropene	12.	U
79-01-6	Trichloroethene	12.	U
124-48-1	Dibromochloromethane	12.	U
79-00-5	1,1,2-Trichloroethane	12.	U
71-43-2	Benzene	12.	U
10061-02-6	trans-1,3-Dichloropropene	12.	U
75-25-2	Bromoform	12.	U
108-10-1	4-Methyl-2-pentanone	12.	U
591-78-6	2-Hexanone	12.	U
127-18-4	Tetrachloroethene	12.	U
79-34-5	1,1,2,2-Tetrachloroethane	12.	U
108-88-3	Toluene	12.	U
108-90-7	Chlorobenzene	12.	U
100-41-4	Ethylbenzene	12.	U
100-42-5	Styrene	12.	U
133-02-7	Xylene (total)	12.	U

EL 5/25/94

Level M2 Review

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000057
EPA SAMPLE NO.

Sample Location: AT-15

9303969

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ------ SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT-15

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >V1419

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: not dec.58 Date Analyzed: 12/09/93

GC Column: PACK ID: 2 (mm) Dilution Factor: 1.0

Soil Extract Volume: ------ (ul) Soil Aliquot Volume: ------ (ul)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	24.	U
74-83-9	Bromomethane	24.	U
75-01-4	Vinyl Chloride	24.	U
75-00-3	Chloroethane	24.	U
75-09-2	Methylene Chloride	9.	~~J~~B
67-64-1	Acetone	110.	B
75-15-0	Carbon Disulfide	24.	U
75-35-4	1,1-Dichloroethene	24.	U
75-34-3	1,1-Dichloroethane	24.	U
540-59-0	1,2-Dichloroethene (total)	24.	U
67-66-3	Chloroform	24.	U
107-02-2	1,2-Dichloroethane	24.	U
78-93-3	2-Butanone	28.	J
71-55-6	1,1,1-Trichloroethane	24.	U
56-23-5	Carbon Tetrachloride	24.	U
75-27-4	Bromodichloromethane	24.	U
78-87-5	1,2-Dichloropropane	24.	U
10061-01-5	cis-1,3-Dichloropropene	24.	U
79-01-6	Trichloroethene	24.	U
124-48-1	Dibromochloromethane	24.	U
79-00-5	1,1,2-Trichloroethane	24.	U
71-43-2	Benzene	24.	U
10061-02-6	trans-1,3-Dichloropropene	24.	U
75-25-2	Bromoform	24.	U
108-10-1	4-Methyl-2-pentanone	24.	U
591-78-6	2-Hexanone	24.	U
127-18-4	Tetrachloroethene	24.	U
79-34-5	1,1,2,2-Tetrachloroethane	24.	U
108-88-3	Toluene	24.	U
108-90-7	Chlorobenzene	24.	U
100-41-4	Ethylbenzene	24.	U
100-42-5	Styrene	24.	U
133-02-7	Xylene (total)	24.	U

EL 5/25/94

Level M2 Review

000068

EPA SAMPLE NO.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Location: AT-20

9303974

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ------ SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT-20

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >V1410

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: not dec. 86 Date Analyzed: 12/08/93

GC Column: PACK ID: 2 (mm) Dilution Factor: 1.0

Soil Extract Volume: ------ (ul) Soil Aliquot Volume: ------ (ul)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	71.	U
74-83-9	Bromomethane	71.	U
75-01-4	Vinyl Chloride	71.	U
75-00-3	Chloroethane	71.	U
75-09-2	Methylene Chloride	25.	~~U~~ B
67-64-1	Acetone	450.	B
75-15-0	Carbon Disulfide	71.	U
75-35-4	1,1-Dichloroethene	71.	U
75-34-3	1,1-Dichloroethane	71.	U
540-59-0	1,2-Dichloroethene (total)	71.	U
67-66-3	Chloroform	71.	U
107-02-2	1,2-Dichloroethane	71.	U
78-93-3	2-Butanone	100.	
71-55-6	1,1,1-Trichloroethane	71.	U
56-23-5	Carbon Tetrachloride	71.	U
75-27-4	Bromodichloromethane	71.	U
78-87-5	1,2-Dichloropropane	71.	U
10061-01-5	cis-1,3-Dichloropropene	71.	U
79-01-6	Trichloroethene	71.	U
124-48-1	Dibromochloromethane	71.	U
79-00-5	1,1,2-Trichloroethane	71.	U
71-43-2	Benzene	71.	U
10061-02-6	trans-1,3-Dichloropropene	71.	U
75-25-2	Bromoform	71.	U
108-10-1	4-Methyl-2-pentanone	71.	U
591-78-6	2-Hexanone	71.	U
127-18-4	Tetrachloroethene	71.	U
79-34-5	1,1,2,2-Tetrachloroethane	71.	U
108-88-3	Toluene	71.	U
108-90-7	Chlorobenzene	71.	U
100-41-4	Ethylbenzene	71.	U
100-42-5	Styrene	71.	U
133-02-7	Xylene (total)	71.	U

EL 5/25/94

Level M2 Review

000162

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Sample Location: AT11

9303965

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT11

Sample wt/vol: 30.1 (g/ml) G Lab File ID: >A2021

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: 17 decanted: (Y/N) N Date Extracted: 12/03/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	400	U

SEMIVOLATILE RESULTS

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303965

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT11

Sample wt/vol: 30.1 (g/ml) G Lab File ID: >A2021

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: 17 decanted: (Y/N) N Date Extracted: 12/03/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	130	J
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	89	BJ
206-44-0	Fluoranthene	440	
129-00-0	Pyrene	380	J
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	250	J
218-01-9	Chrysene	300	J
117-81-7	bis(2-Ethylhexyl)phthalate	49	BJ
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	310	J
207-08-9	Benzo(k)fluoranthene	220	J
50-32-8	Benzo(a)pyrene	240	J
193-39-5	Indeno(1,2,3-cd)pyrene	170	J
53-70-3	Dibenz(a,h)anthracene	40	J
191-24-2	Benzo(g,h,i)perylene	400	U

EL 5/23/94

(1) - Cannot be separated from Diphenylamine

Level M2 Review

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Field Duplic of 9303967
9303966

Sample Location: AT12

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT12

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2083

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 41 decanted: (Y/N) N Date Extracted: 12/10/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 01/03/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	17000	U
111-44-4	bis(2-Chloroethyl)ether	17000	U
95-57-8	2-Chlorophenol	17000	U
541-73-1	1,3-Dichlorobenzene	17000	U
106-46-7	1,4-Dichlorobenzene	17000	U
95-50-1	1,2-Dichlorobenzene	17000	U
95-48-7	2-Methylphenol	17000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	17000	U
106-44-5	4-Methylphenol	17000	U
621-64-7	N-Nitroso-di-n-propylamine	17000	U
67-72-1	Hexachloroethane	17000	U
98-95-3	Nitrobenzene	17000	U
78-59-1	Isophorone	17000	U
88-75-5	2-Nitrophenol	17000	U
105-67-9	2,4-Dimethylphenol	17000	U
111-91-1	bis(2-Chloroethoxy)methane	17000	U
120-83-2	2,4-Dichlorophenol	17000	U
120-82-1	1,2,4-Trichlorobenzene	17000	U
91-20-3	Naphthalene	7000	J
106-47-8	4-Chloroaniline	17000	U
87-68-3	Hexachlorobutadiene	17000	U
59-50-7	4-Chloro-3-methylphenol	17000	U
91-57-6	2-Methylnaphthalene	22000	
77-47-4	Hexachlorocyclopentadiene	17000	U
88-06-2	2,4,6-Trichlorophenol	17000	U
95-95-4	2,4,5-Trichlorophenol	42000	U
91-58-7	2-Chloronaphthalene	17000	U
88-74-4	2-Nitroaniline	42000	U
131-11-3	Dimethylphthalate	17000	U
208-96-8	Acenaphthylene	17000	U
606-20-2	2,6-Dinitrotoluene	17000	U
99-09-2	3-Nitroaniline	42000	U
83-32-9	Acenaphthene	17000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303966

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT12

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2083

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 41 decanted: (Y/N) N Date Extracted: 12/10/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 01/03/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	42000	U
100-02-7	4-Nitrophenol	42000	U
132-64-9	Dibenzofuran	17000	U
121-14-2	2,4-Dinitrotoluene	17000	U
84-66-2	Diethylphthalate	17000	U
7005-72-3	4-Chlorophenyl-phenylether	17000	U
86-73-7	Fluorene	17000	U
100-01-6	4-Nitroaniline	42000	U
534-52-1	4,6-Dinitro-2-methylphenol	42000	U
86-30-6	N-Nitrosodiphenylamine (1)	17000	U
101-55-3	4-Bromophenyl-phenylether	17000	U
118-74-1	Hexachlorobenzene	17000	U
87-86-5	Pentachlorophenol	42000	U
85-01-8	Phenanthrene	9000	J
120-12-7	Anthracene	17000	U
86-74-8	Carbazole	17000	U
84-74-2	Di-n-butylphthalate	17000	U
206-44-0	Fluoranthene	17000	U
129-00-0	Pyrene	17000	U
85-68-7	Butylbenzylphthalate	17000	U
91-94-1	3,3'-Dichlorobenzidine	17000	U
56-55-3	Benzo(a)anthracene	17000	U
218-01-9	Chrysene	17000	U
117-81-7	bis(2-Ethylhexyl)phthalate	13000	BJ
117-84-0	Di-n-octylphthalate	17000	U
205-99-2	Benzo(b)fluoranthene	17000	U
207-08-9	Benzo(k)fluoranthene	17000	U
50-32-8	Benzo(a)pyrene	17000	U
193-39-5	Indeno(1,2,3-cd)pyrene	17000	U
53-70-3	Dibenz(a,h)anthracene	17000	U
191-24-2	Benzo(g,h,i)perylene	17000	U

EL 5/23/94

(1) - Cannot be separated from Diphenylamine

Level M2 Review

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Location: AT13

EPA SAMPLE NO.
Field Duplicate of 9303966
9303967

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT13

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2026

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 39 decanted: (Y/N) N Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	16000	U
111-44-4	bis(2-Chloroethyl)ether	16000	U
95-57-8	2-Chlorophenol	16000	U
541-73-1	1,3-Dichlorobenzene	16000	U
106-46-7	1,4-Dichlorobenzene	16000	U
95-50-1	1,2-Dichlorobenzene	16000	U
95-48-7	2-Methylphenol	16000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	16000	U
106-44-5	4-Methylphenol	16000	U
621-64-7	N-Nitroso-di-n-propylamine	16000	U
67-72-1	Hexachloroethane	16000	U
98-95-3	Nitrobenzene	16000	U
78-59-1	Isophorone	16000	U
88-75-5	2-Nitrophenol	16000	U
105-67-9	2,4-Dimethylphenol	16000	U
111-91-1	bis(2-Chloroethoxy)methane	16000	U
120-83-2	2,4-Dichlorophenol	16000	U
120-82-1	1,2,4-Trichlorobenzene	16000	U
91-20-3	Naphthalene	4400	J
106-47-8	4-Chloroaniline	16000	U
87-68-3	Hexachlorobutadiene	16000	U
59-50-7	4-Chloro-3-methylphenol	16000	U
91-57-6	2-Methylnaphthalene	16000	U
77-47-4	Hexachlorocyclopentadiene	16000	U
88-06-2	2,4,6-Trichlorophenol	16000	U
95-95-4	2,4,5-Trichlorophenol	41000	U
91-58-7	2-Chloronaphthalene	16000	U
88-74-4	2-Nitroaniline	41000	U
131-11-3	Dimethylphthalate	16000	U
208-96-8	Acenaphthylene	16000	U
606-20-2	2,6-Dinitrotoluene	16000	U
99-09-2	3-Nitroaniline	41000	U
83-32-9	Acenaphthene	16000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303967

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT13

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2026

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 39 decanted: (Y/N) N Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	41000	U
100-02-7	4-Nitrophenol	41000	U
132-64-9	Dibenzofuran	16000	U
121-14-2	2,4-Dinitrotoluene	16000	U
84-66-2	Diethylphthalate	16000	U
7005-72-3	4-Chlorophenyl-phenylether	16000	U
86-73-7	Fluorene	4100	J
100-01-6	4-Nitroaniline	41000	U
534-52-1	4,6-Dinitro-2-methylphenol	41000	U
86-30-6	N-Nitrosodiphenylamine (1)	16000	U
101-55-3	4-Bromophenyl-phenylether	16000	U
118-74-1	Hexachlorobenzene	16000	U
87-86-5	Pentachlorophenol	41000	U
85-01-8	Phenanthrene	6000	J
120-12-7	Anthracene	16000	U
86-74-8	Carbazole	16000	U
84-74-2	Di-n-butylphthalate	16000	U
206-44-0	Fluoranthene	16000	U
129-00-0	Pyrene	3400	J
85-68-7	Butylbenzylphthalate	16000	U
91-94-1	3,3'-Dichlorobenzidine	16000	U
56-55-3	Benzo(a)anthracene	16000	U
218-01-9	Chrysene	16000	U
117-81-7	bis(2-Ethylhexyl)phthalate	16000	U
117-84-0	Di-n-octylphthalate	16000	U
205-99-2	Benzo(b)fluoranthene	16000	U
207-08-9	Benzo(k)fluoranthene	16000	U
50-32-8	Benzo(a)pyrene	16000	U
193-39-5	Indeno(1,2,3-cd)pyrene	16000	U
53-70-3	Dibenz(a,h)anthracene	16000	U
191-24-2	Benzo(g,h,i)perylene	16000	U

(1) - Cannot be separated from Diphenylamine

Level MZ Review

000278

EPA SAMPLE NO.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Location: AT14

9303968

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT14

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2027

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 41 decanted: (Y/N) N Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	17000	U
111-44-4	bis(2-Chloroethyl)ether	17000	U
95-57-8	2-Chlorophenol	17000	U
541-73-1	1,3-Dichlorobenzene	17000	U
106-46-7	1,4-Dichlorobenzene	17000	U
95-50-1	1,2-Dichlorobenzene	17000	U
95-48-7	2-Methylphenol	17000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	17000	U
106-44-5	4-Methylphenol	17000	U
621-64-7	N-Nitroso-di-n-propylamine	17000	U
67-72-1	Hexachloroethane	17000	U
98-95-3	Nitrobenzene	17000	U
78-59-1	Isophorone	17000	U
88-75-5	2-Nitrophenol	17000	U
105-67-9	2,4-Dimethylphenol	17000	U
111-91-1	bis(2-Chloroethoxy)methane	17000	U
120-83-2	2,4-Dichlorophenol	17000	U
120-82-1	1,2,4-Trichlorobenzene	17000	U
91-20-3	Naphthalene	17000	U
106-47-8	4-Chloroaniline	17000	U
87-68-3	Hexachlorobutadiene	17000	U
59-50-7	4-Chloro-3-methylphenol	17000	U
91-57-6	2-Methylnaphthalene	17000	U
77-47-4	Hexachlorocyclopentadiene	17000	U
88-06-2	2,4,6-Trichlorophenol	17000	U
95-95-4	2,4,5-Trichlorophenol	42000	U
91-58-7	2-Chloronaphthalene	17000	U
88-74-4	2-Nitroaniline	42000	U
131-11-3	Dimethylphthalate	17000	U
208-96-8	Acenaphthylene	17000	U
606-20-2	2,6-Dinitrotoluene	17000	U
99-09-2	3-Nitroaniline	42000	U
83-32-9	Acenaphthene	17000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303968

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT14

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2027

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 41 decanted: (Y/N) N Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	42000	U
100-02-7	4-Nitrophenol	42000	U
132-64-9	Dibenzofuran	17000	U
121-14-2	2,4-Dinitrotoluene	17000	U
84-66-2	Diethylphthalate	17000	U
7005-72-3	4-Chlorophenyl-phenylether	17000	U
86-73-7	Fluorene	17000	U
100-01-6	4-Nitroaniline	42000	U
534-52-1	4,6-Dinitro-2-methylphenol	42000	U
86-30-6	N-Nitrosodiphenylamine (1)	17000	U
101-55-3	4-Bromophenyl-phenylether	17000	U
118-74-1	Hexachlorobenzene	17000	U
87-86-5	Pentachlorophenol	42000	U
85-01-8	Phenanthrene	17000	U
120-12-7	Anthracene	17000	U
86-74-8	Carbazole	17000	U
84-74-2	Di-n-butylphthalate	17000	U
206-44-0	Fluoranthene	17000	U
129-00-0	Pyrene	17000	U
85-68-7	Butylbenzylphthalate	17000	U
91-94-1	3,3'-Dichlorobenzidine	17000	U
56-55-3	Benzo(a)anthracene	17000	U
218-01-9	Chrysene	17000	U
117-81-7	bis(2-Ethylhexyl)phthalate	17000	U
117-84-0	Di-n-octylphthalate	17000	U
205-99-2	Benzo(b)fluoranthene	17000	U
207-08-9	Benzo(k)fluoranthene	17000	U
50-32-8	Benzo(a)pyrene	17000	U
193-39-5	Indeno(1,2,3-cd)pyrene	17000	U
53-70-3	Dibenz(a,h)anthracene	17000	U
191-24-2	Benzo(g,h,i)perylene	17000	U

(1) - Cannot be separated from Diphenylamine

Level M2 Review

000310

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Sample Location: AT15

9303969

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT15

Sample wt/vol: 30.8 (g/ml) G Lab File ID: >A2036

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: 58 decanted: (Y/N) Y Date Extracted: 12/02/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	770	U
111-44-4	bis(2-Chloroethyl)ether	770	U
95-57-8	2-Chlorophenol	770	U
541-73-1	1,3-Dichlorobenzene	770	U
106-46-7	1,4-Dichlorobenzene	770	U
95-50-1	1,2-Dichlorobenzene	770	U
95-48-7	2-Methylphenol	770	U
108-60-1	2,2'-oxybis(1-Chloropropane)	770	U
106-44-5	4-Methylphenol	770	U
621-64-7	N-Nitroso-di-n-propylamine	770	U
67-72-1	Hexachloroethane	770	U
98-95-3	Nitrobenzene	770	U
78-59-1	Isophorone	770	U
88-75-5	2-Nitrophenol	770	U
105-67-9	2,4-Dimethylphenol	770	U
111-91-1	bis(2-Chloroethoxy)methane	770	U
120-83-2	2,4-Dichlorophenol	770	U
120-82-1	1,2,4-Trichlorobenzene	770	U
91-20-3	Naphthalene	770	U
106-47-8	4-Chloroaniline	770	U
87-68-3	Hexachlorobutadiene	770	U
59-50-7	4-Chloro-3-methylphenol	770	U
91-57-6	2-Methylnaphthalene	770	U
77-47-4	Hexachlorocyclopentadiene	770	U
88-06-2	2,4,6-Trichlorophenol	770	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	770	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	770	U
208-96-8	Acenaphthylene	770	U
606-20-2	2,6-Dinitrotoluene	770	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	770	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303969

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT15

Sample wt/vol: 30.8 (g/ml) G Lab File ID: >A2036

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: 58 decanted: (Y/N) Y Date Extracted: 12/02/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	770	U
121-14-2	2,4-Dinitrotoluene	770	U
84-66-2	Diethylphthalate	770	U
7005-72-3	4-Chlorophenyl-phenylether	770	U
86-73-7	Fluorene	770	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine (1)	770	U
101-55-3	4-Bromophenyl-phenylether	770	U
118-74-1	Hexachlorobenzene	770	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	460	J
120-12-7	Anthracene	770	U
86-74-8	Carbazole	770	U
84-74-2	Di-n-butylphthalate	100	B J
206-44-0	Fluoranthene	1200	
129-00-0	Pyrene	890	
85-68-7	Butylbenzylphthalate	110	J
91-94-1	3,3'-Dichlorobenzidine	770	U
56-55-3	Benzo(a)anthracene	440	J
218-01-9	Chrysene	660	J
117-81-7	bis(2-Ethylhexyl)phthalate	400	B J
117-84-0	Di-n-octylphthalate	770	U
205-99-2	Benzo(b)fluoranthene	770	J
207-08-9	Benzo(k)fluoranthene	560	J
50-32-8	Benzo(a)pyrene	500	J
193-39-5	Indeno(1,2,3-cd)pyrene	490	J
53-70-3	Dibenz(a,h)anthracene	130	J
191-24-2	Benzo(g,h,i)perylene	120	J

EL 5/24/94

(1) - Cannot be separated from Diphenylamine

Level M2 Review

000356

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Sample Location: AT16

9303970

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT16

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2031

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 64 decanted: (Y/N) Y Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	28000	U
111-44-4	bis(2-Chloroethyl)ether	28000	U
95-57-8	2-Chlorophenol	28000	U
541-73-1	1,3-Dichlorobenzene	28000	U
106-46-7	1,4-Dichlorobenzene	28000	U
95-50-1	1,2-Dichlorobenzene	28000	U
95-48-7	2-Methylphenol	28000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	28000	U
106-44-5	4-Methylphenol	28000	U
621-64-7	N-Nitroso-di-n-propylamine	28000	U
67-72-1	Hexachloroethane	28000	U
98-95-3	Nitrobenzene	28000	U
78-59-1	Isophorone	28000	U
88-75-5	2-Nitrophenol	28000	U
105-67-9	2,4-Dimethylphenol	28000	U
111-91-1	bis(2-Chloroethoxy)methane	28000	U
120-83-2	2,4-Dichlorophenol	28000	U
120-82-1	1,2,4-Trichlorobenzene	28000	U
91-20-3	Naphthalene	28000	U
106-47-8	4-Chloroaniline	28000	U
87-68-3	Hexachlorobutadiene	28000	U
59-50-7	4-Chloro-3-methylphenol	28000	U
91-57-6	2-Methylnaphthalene	28000	U
77-47-4	Hexachlorocyclopentadiene	28000	U
88-06-2	2,4,6-Trichlorophenol	28000	U
95-95-4	2,4,5-Trichlorophenol	69000	U
91-58-7	2-Chloronaphthalene	28000	U
88-74-4	2-Nitroaniline	69000	U
131-11-3	Dimethylphthalate	28000	U
208-96-8	Acenaphthylene	28000	U
606-20-2	2,6-Dinitrotoluene	28000	U
99-09-2	3-Nitroaniline	69000	U
83-32-9	Acenaphthene	28000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303970

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT16

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2031

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 64 decanted: (Y/N) Y Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	69000	U
100-02-7	4-Nitrophenol	69000	U
132-64-9	Dibenzofuran	28000	U
121-14-2	2,4-Dinitrotoluene	28000	U
84-66-2	Diethylphthalate	28000	U
7005-72-3	4-Chlorophenyl-phenylether	28000	U
86-73-7	Fluorene	4100	J
100-01-6	4-Nitroaniline	69000	U
534-52-1	4,6-Dinitro-2-methylphenol	69000	U
86-30-6	N-Nitrosodiphenylamine (1)	28000	U
101-55-3	4-Bromophenyl-phenylether	28000	U
118-74-1	Hexachlorobenzene	28000	U
87-86-5	Pentachlorophenol	69000	U
85-01-8	Phenanthrene	18000	J
120-12-7	Anthracene	28000	U
86-74-8	Carbazole	28000	U
84-74-2	Di-n-butylphthalate	28000	U
206-44-0	Fluoranthene	4200	J
129-00-0	Pyrene	4800	J
85-68-7	Butylbenzylphthalate	28000	U
91-94-1	3,3'-Dichlorobenzidine	28000	U
56-55-3	Benzo(a)anthracene	28000	U
218-01-9	Chrysene	28000	U
117-81-7	bis(2-Ethylhexyl)phthalate	3600	B
117-84-0	Di-n-octylphthalate	28000	U
205-99-2	Benzo(b)fluoranthene	28000	U
207-08-9	Benzo(k)fluoranthene	28000	U
50-32-8	Benzo(a)pyrene	28000	U
193-39-5	Indeno(1,2,3-cd)pyrene	28000	U
53-70-3	Dibenz(a,h)anthracene	28000	U
191-24-2	Benzo(g,h,i)perylene	28000	U

EL 5/24/94

(1) - Cannot be separated from Diphenylamine

Level MZ Review

000393

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Sample Location: AT17

9303971

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT17

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2032

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 39 decanted: (Y/N) N Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	16000	U
111-44-4	bis(2-Chloroethyl)ether	16000	U
95-57-8	2-Chlorophenol	16000	U
541-73-1	1,3-Dichlorobenzene	16000	U
106-46-7	1,4-Dichlorobenzene	16000	U
95-50-1	1,2-Dichlorobenzene	16000	U
95-48-7	2-Methylphenol	16000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	16000	U
106-44-5	4-Methylphenol	16000	U
621-64-7	N-Nitroso-di-n-propylamine	16000	U
67-72-1	Hexachloroethane	16000	U
98-95-3	Nitrobenzene	16000	U
78-59-1	Isophorone	16000	U
88-75-5	2-Nitrophenol	16000	U
105-67-9	2,4-Dimethylphenol	16000	U
111-91-1	bis(2-Chloroethoxy)methane	16000	U
120-83-2	2,4-Dichlorophenol	16000	U
120-82-1	1,2,4-Trichlorobenzene	16000	U
91-20-3	Naphthalene	16000	U
106-47-8	4-Chloroaniline	16000	U
87-68-3	Hexachlorobutadiene	16000	U
59-50-7	4-Chloro-3-methylphenol	16000	U
91-57-6	2-Methylnaphthalene	45000	
77-47-4	Hexachlorocyclopentadiene	16000	U
88-06-2	2,4,6-Trichlorophenol	16000	U
95-95-4	2,4,5-Trichlorophenol	41000	U
91-58-7	2-Chloronaphthalene	16000	U
88-74-4	2-Nitroaniline	41000	U
131-11-3	Dimethylphthalate	16000	U
208-96-8	Acenaphthylene	16000	U
606-20-2	2,6-Dinitrotoluene	16000	U
99-09-2	3-Nitroaniline	41000	U
83-32-9	Acenaphthene	16000	U

Level M2 Review

000394

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Location: AT17

EPA SAMPLE NO.

9303971

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT17

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2032

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 39 decanted: (Y/N) N Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	41000	U
100-02-7	4-Nitrophenol	41000	U
132-64-9	Dibenzofuran	16000	U
121-14-2	2,4-Dinitrotoluene	16000	U
84-66-2	Diethylphthalate	16000	U
7005-72-3	4-Chlorophenyl-phenylether	16000	U
86-73-7	Fluorene	2200	J
100-01-6	4-Nitroaniline	41000	U
534-52-1	4,6-Dinitro-2-methylphenol	41000	U
86-30-6	N-Nitrosodiphenylamine (1)	16000	U
101-55-3	4-Bromophenyl-phenylether	16000	U
118-74-1	Hexachlorobenzene	16000	U
87-86-5	Pentachlorophenol	41000	U
85-01-8	Phenanthrene	4900	J
120-12-7	Anthracene	16000	U
86-74-8	Carbazole	16000	U
84-74-2	Di-n-butylphthalate	16000	U
206-44-0	Fluoranthene	16000	U
129-00-0	Pyrene	16000	U
85-68-7	Butylbenzylphthalate	16000	U
91-94-1	3,3'-Dichlorobenzidine	16000	U
56-55-3	Benzo(a)anthracene	16000	U
218-01-9	Chrysene	16000	U
117-81-7	bis(2-Ethylhexyl)phthalate	16000	U
117-84-0	Di-n-octylphthalate	16000	U
205-99-2	Benzo(b)fluoranthene	16000	U
207-08-9	Benzo(k)fluoranthene	16000	U
50-32-8	Benzo(a)pyrene	16000	U
193-39-5	Indeno(1,2,3-cd)pyrene	16000	U
53-70-3	Dibenz(a,h)anthracene	16000	U
191-24-2	Benzo(g,h,i)perylene	16000	U

(1) - Cannot be separated from Diphenylamine

Level MZ Review

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
Sample Location: AT18

EPA SAMPLE NO.

9303972

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT18

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2024

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 68 decanted: (Y/N) Y Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	31000	U
111-44-4	bis(2-Chloroethyl)ether	31000	U
95-57-8	2-Chlorophenol	31000	U
541-73-1	1,3-Dichlorobenzene	31000	U
106-46-7	1,4-Dichlorobenzene	31000	U
95-50-1	1,2-Dichlorobenzene	31000	U
95-48-7	2-Methylphenol	31000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	31000	U
106-44-5	4-Methylphenol	31000	U
621-64-7	N-Nitroso-di-n-propylamine	31000	U
67-72-1	Hexachloroethane	31000	U
98-95-3	Nitrobenzene	31000	U
78-59-1	Isophorone	31000	U
88-75-5	2-Nitrophenol	31000	U
105-67-9	2,4-Dimethylphenol	31000	U
111-91-1	bis(2-Chloroethoxy)methane	31000	U
120-83-2	2,4-Dichlorophenol	31000	U
120-82-1	1,2,4-Trichlorobenzene	31000	U
91-20-3	Naphthalene	31000	U
106-47-8	4-Chloroaniline	31000	U
87-68-3	Hexachlorobutadiene	31000	U
59-50-7	4-Chloro-3-methylphenol	31000	U
91-57-6	2-Methylnaphthalene	31000	U
77-47-4	Hexachlorocyclopentadiene	31000	U
88-06-2	2,4,6-Trichlorophenol	31000	U
95-95-4	2,4,5-Trichlorophenol	78000	U
91-58-7	2-Chloronaphthalene	31000	U
88-74-4	2-Nitroaniline	78000	U
131-11-3	Dimethylphthalate	31000	U
208-96-8	Acenaphthylene	31000	U
606-20-2	2,6-Dinitrotoluene	31000	U
99-09-2	3-Nitroaniline	78000	U
83-32-9	Acenaphthene	31000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303972

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT18

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2024

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 68 decanted: (Y/N) Y Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	78000	U
100-02-7	4-Nitrophenol	78000	U
132-64-9	Dibenzofuran	31000	U
121-14-2	2,4-Dinitrotoluene	31000	U
84-66-2	Diethylphthalate	31000	U
7005-72-3	4-Chlorophenyl-phenylether	31000	U
86-73-7	Fluorene	31000	U
100-01-6	4-Nitroaniline	78000	U
534-52-1	4,6-Dinitro-2-methylphenol	78000	U
86-30-6	N-Nitrosodiphenylamine (1)	31000	U
101-55-3	4-Bromophenyl-phenylether	31000	U
118-74-1	Hexachlorobenzene	31000	U
87-86-5	Pentachlorophenol	78000	U
85-01-8	Phenanthrene	31000	U
120-12-7	Anthracene	31000	U
86-74-8	Carbazole	31000	U
84-74-2	Di-n-butylphthalate	31000	U
206-44-0	Fluoranthene	31000	U
129-00-0	Pyrene	31000	U
85-68-7	Butylbenzylphthalate	31000	U
91-94-1	3,3'-Dichlorobenzidine	31000	U
56-55-3	Benzo(a)anthracene	31000	U
218-01-9	Chrysene	31000	U
117-81-7	bis(2-Ethylhexyl)phthalate	31000	U
117-84-0	Di-n-octylphthalate	31000	U
205-99-2	Benzo(b)fluoranthene	31000	U
207-08-9	Benzo(k)fluoranthene	31000	U
50-32-8	Benzo(a)pyrene	31000	U
193-39-5	Indeno(1,2,3-cd)pyrene	31000	U
53-70-3	Dibenz(a,h)anthracene	31000	U
191-24-2	Benzo(g,h,i)perylene	31000	U

(1) - Cannot be separated from Diphenylamine

Level M2 Review

000458
EPA SAMPLE NO.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Location: AT19

9303973

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT19

Sample wt/vol: 31.0 (g/ml) G Lab File ID: >A2033

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: 41 decanted: (Y/N) Y Date Extracted: 12/02/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	550	U
111-44-4	bis(2-Chloroethyl)ether	550	U
95-57-8	2-Chlorophenol	550	U
541-73-1	1,3-Dichlorobenzene	550	U
106-46-7	1,4-Dichlorobenzene	550	U
95-50-1	1,2-Dichlorobenzene	550	U
95-48-7	2-Methylphenol	550	U
108-60-1	2,2'-oxybis(1-Chloropropane)	550	U
106-44-5	4-Methylphenol	550	U
621-64-7	N-Nitroso-di-n-propylamine	550	U
67-72-1	Hexachloroethane	550	U
98-95-3	Nitrobenzene	550	U
78-59-1	Isophorone	550	U
88-75-5	2-Nitrophenol	550	U
105-67-9	2,4-Dimethylphenol	550	U
111-91-1	bis(2-Chloroethoxy)methane	550	U
120-83-2	2,4-Dichlorophenol	550	U
120-82-1	1,2,4-Trichlorobenzene	550	U
91-20-3	Naphthalene	77	J
106-47-8	4-Chloroaniline	550	U
87-68-3	Hexachlorobutadiene	550	U
59-50-7	4-Chloro-3-methylphenol	550	U
91-57-6	2-Methylnaphthalene	550	U
77-47-4	Hexachlorocyclopentadiene	550	U
88-06-2	2,4,6-Trichlorophenol	550	U
95-95-4	2,4,5-Trichlorophenol	1400	U
91-58-7	2-Chloronaphthalene	550	U
88-74-4	2-Nitroaniline	1400	U
131-11-3	Dimethylphthalate	550	U
208-96-8	Acenaphthylene	550	U
606-20-2	2,6-Dinitrotoluene	550	U
99-09-2	3-Nitroaniline	1400	U
83-32-9	Acenaphthene	550	U

000459

EPA SAMPLE NO.

9303973

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT19

Sample wt/vol: 31.0 (g/ml) G Lab File ID: >A2033

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: 41 decanted: (Y/N) Y Date Extracted: 12/02/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400	U
100-02-7	4-Nitrophenol	1400	U
132-64-9	Dibenzofuran	85	J
121-14-2	2,4-Dinitrotoluene	550	U
84-66-2	Diethylphthalate	550	U
7005-72-3	4-Chlorophenyl-phenylether	550	U
86-73-7	Fluorene	550	U
100-01-6	4-Nitroaniline	1400	U
534-52-1	4,6-Dinitro-2-methylphenol	1400	U
86-30-6	N-Nitrosodiphenylamine (1)	550	U
101-55-3	4-Bromophenyl-phenylether	550	U
118-74-1	Hexachlorobenzene	550	U
87-86-5	Pentachlorophenol	1400	U
85-01-8	Phenanthrene	250	J
120-12-7	Anthracene	95	J
86-74-8	Carbazole	550	U
84-74-2	Di-n-butylphthalate	74	B J
206-44-0	Fluoranthene	590	
129-00-0	Pyrene	500	J
85-68-7	Butylbenzylphthalate	550	U
91-94-1	3,3'-Dichlorobenzidine	550	U
56-55-3	Benzo(a)anthracene	290	J
218-01-9	Chrysene	380	J
117-81-7	bis(2-Ethylhexyl)phthalate	230	B J
117-84-0	Di-n-octylphthalate	550	U
205-99-2	Benzo(b)fluoranthene	430	J
207-08-9	Benzo(k)fluoranthene	240	J
50-32-8	Benzo(a)pyrene	200	J
193-39-5	Indeno(1,2,3-cd)pyrene	170	J
53-70-3	Dibenz(a,h)anthracene	550	U
191-24-2	Benzo(g,h,i)perylene	550	U

EL 5/24/94

(1) - Cannot be separated from Diphenylamine

Level M2 Review

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
Sample Location: AT20

000504
EPA SAMPLE NO.

9303974

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT20

Sample wt/vol: 30.3 (g/ml) G Lab File ID: >A2039

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: 84 decanted: (Y/N) Y Date Extracted: 12/02/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2100	U
111-44-4	bis(2-Chloroethyl)ether	2100	U
95-57-8	2-Chlorophenol	2100	U
541-73-1	1,3-Dichlorobenzene	2100	U
106-46-7	1,4-Dichlorobenzene	2100	U
95-50-1	1,2-Dichlorobenzene	2100	U
95-48-7	2-Methylphenol	2100	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2100	U
106-44-5	4-Methylphenol	2100	U
621-64-7	N-Nitroso-di-n-propylamine	2100	U
67-72-1	Hexachloroethane	2100	U
98-95-3	Nitrobenzene	2100	U
78-59-1	Isophorone	2100	U
88-75-5	2-Nitrophenol	2100	U
105-67-9	2,4-Dimethylphenol	2100	U
111-91-1	bis(2-Chloroethoxy)methane	2100	U
120-83-2	2,4-Dichlorophenol	2100	U
120-82-1	1,2,4-Trichlorobenzene	2100	U
91-20-3	Naphthalene	2100	U
106-47-8	4-Chloroaniline	2100	U
87-68-3	Hexachlorobutadiene	2100	U
59-50-7	4-Chloro-3-methylphenol	2100	U
91-57-6	2-Methylnaphthalene	2100	U
77-47-4	Hexachlorocyclopentadiene	2100	U
88-06-2	2,4,6-Trichlorophenol	2100	U
95-95-4	2,4,5-Trichlorophenol	5200	U
91-58-7	2-Chloronaphthalene	2100	U
88-74-4	2-Nitroaniline	5200	U
131-11-3	Dimethylphthalate	2100	U
208-96-8	Acenaphthylene	2100	U
606-20-2	2,6-Dinitrotoluene	2100	U
99-09-2	3-Nitroaniline	5200	U
83-32-9	Acenaphthene	2100	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303974

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT20

Sample wt/vol: 30.3 (g/ml) G Lab File ID: >A2039

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: 84 decanted: (Y/N) Y Date Extracted: 12/02/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	5200	U
100-02-7	4-Nitrophenol	5200	U
132-64-9	Dibenzofuran	2100	U
121-14-2	2,4-Dinitrotoluene	2100	U
84-66-2	Diethylphthalate	360	J
7005-72-3	4-Chlorophenyl-phenylether	2100	U
86-73-7	Fluorene	2100	U
100-01-6	4-Nitroaniline	5200	U
534-52-1	4,6-Dinitro-2-methylphenol	5200	U
86-30-6	N-Nitrosodiphenylamine (1)	2100	U
101-55-3	4-Bromophenyl-phenylether	2100	U
118-74-1	Hexachlorobenzene	2100	U
87-86-5	Pentachlorophenol	5200	U
85-01-8	Phenanthrene	290	J
120-12-7	Anthracene	2100	U
86-74-8	Carbazole	2100	U
84-74-2	Di-n-butylphthalate	320	B
206-44-0	Fluoranthene	440	J
129-00-0	Pyrene	350	J
85-68-7	Butylbenzylphthalate	2100	U
91-94-1	3,3'-Dichlorobenzidine	2100	U
56-55-3	Benzo(a)anthracene	2100	U
218-01-9	Chrysene	240	J
117-81-7	bis(2-Ethylhexyl)phthalate	310	B
117-84-0	Di-n-octylphthalate	2100	U
205-99-2	Benzo(b)fluoranthene	250	J
207-08-9	Benzo(k)fluoranthene	160	J
50-32-8	Benzo(a)pyrene	2100	U
193-39-5	Indeno(1,2,3-cd)pyrene	2100	U
53-70-3	Dibenz(a,h)anthracene	2100	U
191-24-2	Benzo(g,h,i)perylene	2100	U

EL 5/24/94

(1) - Cannot be separated from Diphenylamine

Level M2 Review

000545

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Location: AT21

EPA SAMPLE NO.

9303975

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT21

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2034

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 60 decanted: (Y/N) Y Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	25000	U
111-44-4	bis(2-Chloroethyl)ether	25000	U
95-57-8	2-Chlorophenol	25000	U
541-73-1	1,3-Dichlorobenzene	25000	U
106-46-7	1,4-Dichlorobenzene	25000	U
95-50-1	1,2-Dichlorobenzene	25000	U
95-48-7	2-Methylphenol	25000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	25000	U
106-44-5	4-Methylphenol	25000	U
621-64-7	N-Nitroso-di-n-propylamine	25000	U
67-72-1	Hexachloroethane	25000	U
98-95-3	Nitrobenzene	25000	U
78-59-1	Isophorone	25000	U
88-75-5	2-Nitrophenol	25000	U
105-67-9	2,4-Dimethylphenol	25000	U
111-91-1	bis(2-Chloroethoxy)methane	25000	U
120-83-2	2,4-Dichlorophenol	25000	U
120-82-1	1,2,4-Trichlorobenzene	25000	U
91-20-3	Naphthalene	25000	U
106-47-8	4-Chloroaniline	25000	U
87-68-3	Hexachlorobutadiene	25000	U
59-50-7	4-Chloro-3-methylphenol	25000	U
91-57-6	2-Methylnaphthalene	25000	U
77-47-4	Hexachlorocyclopentadiene	25000	U
88-06-2	2,4,6-Trichlorophenol	25000	U
95-95-4	2,4,5-Trichlorophenol	63000	U
91-58-7	2-Chloronaphthalene	25000	U
88-74-4	2-Nitroaniline	63000	U
131-11-3	Dimethylphthalate	25000	U
208-96-8	Acenaphthylene	25000	U
606-20-2	2,6-Dinitrotoluene	25000	U
99-09-2	3-Nitroaniline	63000	U
83-32-9	Acenaphthene	24000	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303975

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT21

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2034

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 60 decanted: (Y/N) Y Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	63000	U
100-02-7	4-Nitrophenol	63000	U
132-64-9	Dibenzofuran	8100	J
121-14-2	2,4-Dinitrotoluene	25000	U
84-66-2	Diethylphthalate	25000	U
7005-72-3	4-Chlorophenyl-phenylether	25000	U
86-73-7	Fluorene	33000	
100-01-6	4-Nitroaniline	63000	U
534-52-1	4,6-Dinitro-2-methylphenol	63000	U
86-30-6	N-Nitrosodiphenylamine (1)	25000	U
101-55-3	4-Bromophenyl-phenylether	25000	U
118-74-1	Hexachlorobenzene	25000	U
87-86-5	Pentachlorophenol	63000	U
85-01-8	Phenanthrene	78000	
120-12-7	Anthracene	25000	U
86-74-8	Carbazole	25000	U
84-74-2	Di-n-butylphthalate	25000	U
206-44-0	Fluoranthene	25000	U
129-00-0	Pyrene	25000	U
85-68-7	Butylbenzylphthalate	25000	U
91-94-1	3,3'-Dichlorobenzidine	25000	U
56-55-3	Benzo(a)anthracene	3800	J
218-01-9	Chrysene	4000	J
117-81-7	bis(2-Ethylhexyl)phthalate	30000	B
117-84-0	Di-n-octylphthalate	25000	U
205-99-2	Benzo(b)fluoranthene	2500	J
207-08-9	Benzo(k)fluoranthene	970	J
50-32-8	Benzo(a)pyrene	25000	U
193-39-5	Indeno(1,2,3-cd)pyrene	25000	U
53-70-3	Dibenz(a,h)anthracene	25000	U
191-24-2	Benzo(g,h,i)perylene	25000	U

EL 5/24/94

(1) - Cannot be separated from Diphenylamine

PESTICIDE/PCB RESULTS

Level M2 Review

000752

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Sample Location: AT11

9303965

Lab Name:DE DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE 023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P6541

Sample wt/vol: 30.00 (g/ml) G Lab File ID:

% Moisture: 17 decanted: (Y/N)N Date Received:12/01/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/07/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed: 1/14/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:7.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC(Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	5.0	~~U~~ J
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	4.0	U
7421-36-3	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200.	U
12674-11-2	Aroclor-1016	40.	U
11104-28-2	Aroclor-1221	81.	U
11141-16-5	Aroclor-1232	40.	U
53469-21-9	Aroclor-1242	40.	U
12672-29-6	Aroclor-1248	40.	U
11097-69-1	Aroclor-1254	40.	U
11096-82-5	Aroclor-1260	230.	

EL 5/24/94

Level M2 Review

000767

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Field Duplic. of 9303967

Sample Location: AT12

9303966DL

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P5956

Sample wt/vol: 1.00 (g/ml) G Lab File ID:

% Moisture: 41 decanted: (Y/N)N Date Received:12/01/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/02/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed:12/29/93

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:7.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	85.	U
319-85-7	beta-BHC	85.	U
319-86-8	delta-BHC	85.	U
58-89-9	gamma-BHC(Lindane)	85.	U
76-44-8	Heptachlor	85.	U
309-00-2	Aldrin	85.	U
1024-57-3	Heptachlor epoxide	85.	U
959-98-8	Endosulfan I	(16*) ~~85.~~	~~U~~ J
60-57-1	Dieldrin	170.	U
72-55-9	4,4'-DDE	(15*) ~~170.~~	~~U~~ J
72-20-8	Endrin	170.	U
33213-65-9	Endosulfan II	170.	U
72-54-8	4,4'-DDD	170.	U
1031-07-8	Endosulfan sulfate	(230.)	DF J
50-29-3	4,4'-DDT	170.	U
72-43-5	Methoxychlor	850.	U
53494-70-5	Endrin ketone	170.	U
7421-36-3	Endrin aldehyde	170.	U
5103-71-9	alpha-Chlordane	85.	U
5103-74-2	gamma-Chlordane	85.	U
8001-35-2	Toxaphene	8500.	U
12674-11-2	Aroclor-1016	1700.	U
11104-28-2	Aroclor-1221	3400.	U
11141-16-5	Aroclor-1232	1700.	U
53469-21-9	Aroclor-1242	1700.	U
12672-29-6	Aroclor-1248	1700.	U
11097-69-1	Aroclor-1254	1700.	U
11096-82-5	Aroclor-1260	1700.	U

EL 5/24/94

FORM I PEST 3/90

* = Result Reported from initial analysis

Level M2 Review

000774

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Field Duplic of 9303966

Sample Location: AT13

9303967

Lab Name:DE DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE 023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P6567

Sample wt/vol: 30.00 (g/ml) G Lab File ID:

% Moisture: 39 decanted: (Y/N)N Date Received:12/01/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/07/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed: 1/15/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:7.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.8	U
319-85-7	beta-BHC	2.8	U
319-86-8	delta-BHC	2.8	U
58-89-9	gamma-BHC(Lindane)	2.8	U
76-44-8	Heptachlor	2.8	U
309-00-2	Aldrin	2.8	U
1024-57-3	Heptachlor epoxide	2.8	U
959-98-8	Endosulfan I	15.	~~P~~ J
60-57-1	Dieldrin	5.4	U
72-55-9	4,4'-DDE	13.	~~P~~ J
72-20-8	Endrin	5.4	U
33213-65-9	Endosulfan II	5.4	U
72-54-8	4,4'-DDD	5.4	U
1031-07-8	Endosulfan sulfate	79.	~~P~~ J
50-29-3	4,4'-DDT	5.4	U
72-43-5	Methoxychlor	28.	U
53494-70-5	Endrin ketone	5.4	U
7421-36-3	Endrin aldehyde	5.4	U
5103-71-9	alpha-Chlordane	2.8	U
5103-74-2	gamma-Chlordane	2.8	U
8001-35-2	Toxaphene	280.	U
12674-11-2	Aroclor-1016	54.	U
11104-28-2	Aroclor-1221	110.	U
11141-16-5	Aroclor-1232	54.	U
53469-21-9	Aroclor-1242	54.	U
12672-29-6	Aroclor-1248	54.	U
11097-69-1	Aroclor-1254	54.	U
11096-82-5	Aroclor-1260	54.	U

EL 5/24/94

Level M2 Review

000795

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Sample Location: AT14

EPA SAMPLE NO.

9303968DL

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P5976

Sample wt/vol: 1.10 (g/ml) G Lab File ID:

% Moisture: 41 decanted: (Y/N)N Date Received:12/01/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/02/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed:12/30/93

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:7.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	77.	U
319-85-7	beta-BHC	77.	U
319-86-8	delta-BHC	77.	U
58-89-9	gamma-BHC(Lindane)	77.	U
76-44-8	Heptachlor	77.	U
309-00-2	Aldrin	77.	U
1024-57-3	Heptachlor epoxide	77.	U
959-98-8	Endosulfan I	77.	U
60-57-1	Dieldrin	150.	U
72-55-9	4,4'-DDE	150.	U
72-20-8	Endrin	220.	DPJ
33213-65-9	Endosulfan II	150.	U
72-54-8	4,4'-DDD	150.	U
1031-07-8	Endosulfan sulfate	150.	U
50-29-3	4,4'-DDT	150.	U
72-43-5	Methoxychlor	770.	U
53494-70-5	Endrin ketone	150.	U
7421-36-3	Endrin aldehyde	210.	DPJ
5103-71-9	alpha-Chlordane	77.	U
5103-74-2	gamma-Chlordane	77.	U
8001-35-2	Toxaphene	7700.	U
12674-11-2	Aroclor-1016	1500.	U
11104-28-2	Aroclor-1221	3100.	U
11141-16-5	Aroclor-1232	1500.	U
53469-21-9	Aroclor-1242	1500.	U
12672-29-6	Aroclor-1248	1500.	U
11097-69-1	Aroclor-1254	1500.	U
11096-82-5	Aroclor-1260	7900.	DPJ

BC 5/28/94

Level M2 Review

000804

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Sample Location: AT/5

9303969

Lab Name:DE DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE 023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P6551

Sample wt/vol: 29.90 (g/ml) G Lab File ID:

% Moisture: 58 decanted: (Y/N)Y Date Received:12/01/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/07/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed: 1/14/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:8.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.1	U
319-85-7	beta-BHC	4.1	U
319-86-8	delta-BHC	4.1	U
58-89-9	gamma-BHC(Lindane)	4.1	U
76-44-8	Heptachlor	4.1	U
309-00-2	Aldrin	4.1	U
1024-57-3	Heptachlor epoxide	4.1	U
959-98-8	Endosulfan I	4.1	U
60-57-1	Dieldrin	27.	PJ
72-55-9	4,4'-DDE	7.9	U
72-20-8	Endrin	7.9	U
33213-65-9	Endosulfan II	7.9	U
72-54-8	4,4'-DDD	7.9	U
1031-07-8	Endosulfan sulfate	7.9	U
50-29-3	4,4'-DDT	7.9	U
72-43-5	Methoxychlor	41.	U
53494-70-5	Endrin ketone	7.9	U
7421-36-3	Endrin aldehyde	7.9	U
5103-71-9	alpha-Chlordane	60.	PJ
5103-74-2	gamma-Chlordane	51.	PJ
8001-35-2	Toxaphene	410.	U
12674-11-2	Aroclor-1016	79.	U
11104-28-2	Aroclor-1221	160.	U
11141-16-5	Aroclor-1232	79.	U
53469-21-9	Aroclor-1242	79.	U
12672-29-6	Aroclor-1248	79.	U
11097-69-1	Aroclor-1254	79.	U
11096-82-5	Aroclor-1260	1500.	

EL 5/24/94

Level M2 Review

000829

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Sample Location: AT/6

EPA SAMPLE NO.

9303970DL

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P5980

Sample wt/vol: 1.00 (g/ml) G Lab File ID:

% Moisture: 64 decanted: (Y/N)Y Date Received:12/01/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/02/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed:12/30/93

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:7.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	140.	U
319-85-7	beta-BHC	140.	U
319-86-8	delta-BHC	140.	U
58-89-9	gamma-BHC(Lindane)	140.	U
76-44-8	Heptachlor	140.	U
309-00-2	Aldrin	140.	U
1024-57-3	Heptachlor epoxide	140.	U
959-98-8	Endosulfan I	140.	U
60-57-1	Dieldrin	(68 *) ~~280.~~	~~U~~ J
72-55-9	4,4'-DDE	280.	U
72-20-8	Endrin	280.	U
33213-65-9	Endosulfan II	280.	U
72-54-8	4,4'-DDD	280.	U
1031-07-8	Endosulfan sulfate	280.	U
50-29-3	4,4'-DDT	280.	U
72-43-5	Methoxychlor	1400.	U
53494-70-5	Endrin ketone	280.	U
7421-36-3	Endrin aldehyde	280.	U
5103-71-9	alpha-Chlordane	(54 *) ~~140.~~	~~U~~ L
5103-74-2	gamma-Chlordane	140.	U
8001-35-2	Toxaphene	14000.	U
12674-11-2	Aroclor-1016	2800.	U
11104-28-2	Aroclor-1221	5600.	U
11141-16-5	Aroclor-1232	2800.	U
53469-21-9	Aroclor-1242	2800.	U
12672-29-6	Aroclor-1248	2800.	U
11097-69-1	Aroclor-1254	6600.	DPB J
11096-82-5	Aroclor-1260	30000.	D

EL 6/3/94

FORM I PEST 3/90

*= Result Reported from initial analysis

Level M2 Review

000846

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Sample Location: AT17

9303971DL

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P5981

Sample wt/vol: 1.10 (g/ml) G Lab File ID:

% Moisture: 39 decanted: (Y/N)N Date Received:12/01/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/02/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed:12/30/93

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:8.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	75.	U
319-85-7	beta-BHC	75.	U
319-86-8	delta-BHC	75.	U
58-89-9	gamma-BHC(Lindane)	75.	U
76-44-8	Heptachlor	75.	U
309-00-2	Aldrin	75.	U
1024-57-3	Heptachlor epoxide	75.	U
959-98-8	Endosulfan I	75.	U
60-57-1	Dieldrin	150.	U
72-55-9	4,4'-DDE	150.	U
72-20-8	Endrin	150.	U
33213-65-9	Endosulfan II	150.	U
72-54-8	4,4'-DDD	150.	U
1031-07-8	Endosulfan sulfate	260.	DP J
50-29-3	4,4'-DDT	150.	U
72-43-5	Methoxychlor	750.	U
53494-70-5	Endrin ketone	150.	U
7421-36-3	Endrin aldehyde	180.	DP J
5103-71-9	alpha-Chlordane	4.7 * ~~75.~~	~~U~~ J
5103-74-2	gamma-Chlordane	75.	U
8001-35-2	Toxaphene	7500.	U
12674-11-2	Aroclor-1016	1500.	U
11104-28-2	Aroclor-1221	3000.	U
11141-16-5	Aroclor-1232	1500.	U
53469-21-9	Aroclor-1242	1500.	U
12672-29-6	Aroclor-1248	1500.	U
11097-69-1	Aroclor-1254	1500.	U
11096-82-5	Aroclor-1260	3500	DP J

EL 5/24/94

FORM I PEST 3/90

* = Result Reported from initial analysis

Level M2 Review

000853

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Sample Location: AT18

9303972

Lab Name:DE DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE 023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P6557

Sample wt/vol: 30.10 (g/ml) G Lab File ID:

% Moisture: 68 decanted: (Y/N)Y Date Received:12/01/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/07/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed: 1/15/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:7.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	5.3	U
319-85-7	beta-BHC	5.3	U
319-86-8	delta-BHC	5.3	U
58-89-9	gamma-BHC(Lindane)	5.3	U
76-44-8	Heptachlor	5.3	U
309-00-2	Aldrin	5.3	U
1024-57-3	Heptachlor epoxide	5.3	U
959-98-8	Endosulfan I	5.3	U
60-57-1	Dieldrin	62.	P J
72-55-9	4,4'-DDE	10.	U
72-20-8	Endrin	10.	U
33213-65-9	Endosulfan II	10.	U
72-54-8	4,4'-DDD	10.	U
1031-07-8	Endosulfan sulfate	10.	U
50-29-3	4,4'-DDT	10.	U
72-43-5	Methoxychlor	53.	U
53494-70-5	Endrin ketone	10.	U
7421-36-3	Endrin aldehyde	10.	U
5103-71-9	alpha-Chlordane	5.3	U
5103-74-2	gamma-Chlordane	33.	P J
8001-35-2	Toxaphene	530.	U
12674-11-2	Aroclor-1016	100.	U
11104-28-2	Aroclor-1221	210.	U
11141-16-5	Aroclor-1232	100.	U
53469-21-9	Aroclor-1242	100.	U
12672-29-6	Aroclor-1248	100.	U
11097-69-1	Aroclor-1254	1900.	P J
11096-82-5	Aroclor-1260	8500.	

EL 5/24/94

Level M2 Review

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

000871

EPA SAMPLE NO.

Sample Location: AT19

9303973

Lab Name:DE DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE 023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P6548

Sample wt/vol: 29.90 (g/ml) G Lab File ID:

% Moisture: 41 decanted: (Y/N)Y Date Received:12/01/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/07/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed: 1/14/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:7.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.9	U
319-85-7	beta-BHC	2.9	U
319-86-8	delta-BHC	2.9	U
58-89-9	gamma-BHC(Lindane)	2.9	U
76-44-8	Heptachlor	2.9	U
309-00-2	Aldrin	2.9	U
1024-57-3	Heptachlor epoxide	2.9	U
959-98-8	Endosulfan I	2.9	U
60-57-1	Dieldrin	5.6	U
72-55-9	4,4'-DDE	5.6	U
72-20-8	Endrin	5.6	U
33213-65-9	Endosulfan II	5.6	U
72-54-8	4,4'-DDD	5.6	U
1031-07-8	Endosulfan sulfate	5.6	U
50-29-3	4,4'-DDT	5.6	U
72-43-5	Methoxychlor	29.	U
53494-70-5	Endrin ketone	12.	PJ
7421-36-3	Endrin aldehyde	5.6	U
5103-71-9	alpha-Chlordane	2.9	U
5103-74-2	gamma-Chlordane	2.9	U
8001-35-2	Toxaphene	290.	U
12674-11-2	Aroclor-1016	56.	U
11104-28-2	Aroclor-1221	110.	U
11141-16-5	Aroclor-1232	56.	U
53469-21-9	Aroclor-1242	56.	U
12672-29-6	Aroclor-1248	56.	U
11097-69-1	Aroclor-1254	56.	U
11096-82-5	Aroclor-1260	920.	

EL 6/3/94

Level M2 Review

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Sample Location: AT20

9303974DL

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P5960

Sample wt/vol: 1.10 (g/ml) G Lab File ID:

% Moisture: 84 decanted: (Y/N)Y Date Received:12/01/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/02/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed:12/29/93

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:7.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
319-84-6	alpha-BHC	280.	U	
319-85-7	beta-BHC	280.	U	
319-86-8	delta-BHC	280.	U	
58-89-9	gamma-BHC(Lindane)	280.	U	
76-44-8	Heptachlor	280.	U	
309-00-2	Aldrin	280.	U	
1024-57-3	Heptachlor epoxide	280.	U	
959-98-8	Endosulfan I	280.	U	
60-57-1	Dieldrin	570.	U	
72-55-9	4,4'-DDE	570.	U	
72-20-8	Endrin	(110*) ~~570.~~	~~U~~ J	EL 6/3/94
33213-65-9	Endosulfan II	570.	U	
72-54-8	4,4'-DDD	(22*) ~~570.~~	~~U~~ J	
1031-07-8	Endosulfan sulfate	570.	U	
50-29-3	4,4'-DDT	570.	U	
72-43-5	Methoxychlor	2800.	U	
53494-70-5	Endrin ketone	570.	U	
7421-36-3	Endrin aldehyde	570.	U	
5103-71-9	alpha-Chlordane	(11*) ~~280.~~	~~U~~ J	
5103-74-2	gamma-Chlordane	280.	U	
8001-35-2	Toxaphene	28000.	U	
12674-11-2	Aroclor-1016	5700.	U	
11104-28-2	Aroclor-1221	11000.	U	
11141-16-5	Aroclor-1232	5700.	U	
53469-21-9	Aroclor-1242	5700.	U	
12672-29-6	Aroclor-1248	5700.	U	
11097-69-1	Aroclor-1254	5700.	U	
11096-82-5	Aroclor-1260	(8000.)	DP J	EL 5/24/94

FORM I PEST 3/90

*= Result Reported from initial analysis

Level M2 Review

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Sample Location: AT21

9303975DL

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P5979

Sample wt/vol: 1.00 (g/ml) G Lab File ID:

% Moisture: 60 decanted: (Y/N)Y Date Received:12/01/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/02/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed:12/30/93

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:7.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	120.	U
319-85-7	beta-BHC	120.	U
319-86-8	delta-BHC	120.	U
58-89-9	gamma-BHC(Lindane)	120.	U
76-44-8	Heptachlor	120.	U
309-00-2	Aldrin	120.	U
1024-57-3	Heptachlor epoxide	120.	U
959-98-8	Endosulfan I	120.	U
60-57-1	Dieldrin	250.	U
72-55-9	4,4'-DDE	(10*) ~~250.~~	~~U~~ J
72-20-8	Endrin	(490.)	DPJ
33213-65-9	Endosulfan II	250.	U
72-54-8	4,4'-DDD	(28*) ~~250.~~	~~U~~ J
1031-07-8	Endosulfan sulfate	250.	U
50-29-3	4,4'-DDT	250.	U
72-43-5	Methoxychlor	1200.	U
53494-70-5	Endrin ketone	250.	U
7421-36-3	Endrin aldehyde	(600.)	DPJ
5103-71-9	alpha-Chlordane	(7.6*) ~~120.~~	~~U~~ J
5103-74-2	gamma-Chlordane	120.	U
8001-35-2	Toxaphene	12000.	U
12674-11-2	Aroclor-1016	2500.	U
11104-28-2	Aroclor-1221	5000.	U
11141-16-5	Aroclor-1232	2500.	U
53469-21-9	Aroclor-1242	2500.	U
12672-29-6	Aroclor-1248	2500.	U
11097-69-1	Aroclor-1254	2500.	U
11096-82-5	Aroclor-1260	(19000.)	DPJ

EL 6/3/94

FORM I PEST 3/90

* = Results Reported from initial analysis

Appendix C

Reviewed and Corrected
Tentatively Identified Compounds

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

9303965

ɔ Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

ɔ Code: DE023 Case No.: ------ SAS No.: ------ SDG No.: 9303965

:rix: (soil/water) SOIL Lab Sample ID: AT-11

mple wt/vol: 5.0 (g/mL) G Lab File ID: >V1404

vel: (low/med) LOW Date Received: 12/01/93

foisture: not dec. 17 Date Analyzed: 12/08/93

Column: PACK ID: 2 Dilution Factor: 1.0

.l Extract Vol: ------ (ul) Soil Aliquot Volume: ------ (ul)

umber TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
0.				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
0.				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
0.				

EPA SAMPLE NO.

9303969

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ------ SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT-15

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >V1419

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: not dec.58 Date Analyzed: 12/09/93

GC Column: PACK ID: 2 Dilution Factor: 1.0

Soil Extract Vol: ------ (ul) Soil Aliquot Volume: ------ (ul)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

EPA SAMPLE NO.

9303974

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ------ SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT-20

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >V1410

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: not dec. 86 Date Analyzed: 12/08/93

GC Column: PACK ID: 2 Dilution Factor: 1.0

Soil Extract Vol: ------ (ul) Soil Aliquot Volume: ------ (ul)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

9303965

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------- SDG NO.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT11

Sample wt/vol: 30.1 (g/mL) G Lab File ID: >A2021

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: 17 decanted: (Y/N) N Date Extracted: 12/03/93

Concentrated Extract Volume: 500 (UL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		~~Unknown~~	~~6.68~~	~~1100.~~	~~JB~~
2.		Unknown	7.83	150.	J
3.		Unknown	9.15	1200.	J
4.	~~74381401~~	~~Propanoic acid, 2-methyl-, 1~~	~~19.22~~	~~110.~~	~~JBN~~
5.		Unknown PAH	33.70	140.	J
6.		Unknown Alkane	35.75	170.	J
7.		Unknown Alkane	37.32	130.	J
8.	83476	.gamma.-Sitosterol	37.71	95.	J N
9.		Unknown	38.74	100.	J
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

EL 5/24/94

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

9303966

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG NO.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT12

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >A2083

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 41 decanted: (Y/N) N Date Extracted: 12/10/93

Concentrated Extract Volume: 500 (UL) Date Analyzed: 01/03/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	13.89	36000.	J
2.	Unknown Alkane	14.18	30000.	J
3.	Unknown Alkane	15.33	68000.	J
4.	Unknown Cycloalkane	16.63	51000.	J
5.	Unknown Alkane	17.23	150000.	J
6.	Unknown C2 Naphthalene	17.78	60000.	J
7.	Unknown	18.17	89000.	J
8.	Unknown Alkane	18.46	44000.	J
9.	Unknown Alkane	18.70	190000.	J
10.	Unknown	18.79	57000.	J
11.	Unknown	18.95	56000.	J
12.	Unknown Alkane	20.04	32000.	J
13.	Unknown C3 Naphthalene	20.18	86000.	J
14.	Unknown Alkane	20.35	48000.	J
15	Unknown	20.74	49000.	J
16.	Unknown Alkane	21.65	14000.	J
17. 529055	Azulene, 7-ethyl-1,4-dimethy	21.76	5800.	J N
18.	Unknown Alkane	22.52	47000.	J
19.	Unknown Alkane	23.14	6800.	J
20.	Unknown Alkane	23.97	34000.	J
21.	Unknown Alkane	25.05	13000.	J
22.	Unknown Alkane	27.35	8700.	J
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

EPA SAMPLE NO.

9303967

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG NO.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT13

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >A2026

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 39 decanted: (Y/N) N Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (UL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown Alkane	12.66	30000.	J
2.	Unknown Alkane	13.80	74000.	J
3.	Unknown	14.61	30000.	J
4.	Unknown	14.97	22000.	J
5.	Unknown	15.25	31000.	J
6.	Unknown PAH	15.56	35000.	J
7.	Unknown Alkane	15.67	75000.	J
8.	Unknown C2 Naphthalene	16.12	23000.	J
9.	Unknown	16.46	43000.	J
10.	Unknown Cycloalkane	16.83	22000.	J
11.	Unknown Alkane	17.12	130000.	J
12.	Unknown	17.65	31000.	J
13.	Unknown C3 Naphthalene	18.14	21000.	J
14.	Unknown C3 Naphthalene	18.21	38000.	J
15.	Unknown C3 Naphthalene	18.46	34000.	J
16.	Unknown Alkane	18.75	41000.	J
17.	Unknown Alkane	20.03	130000.	J
18.	Unknown Alkane	20.88	240000.	J
19.	Unknown Alkane	21.49	33000.	J
20.	Unknown Alkane	22.31	170000.	J
21.	Unknown Alkane	22.72	50000.	J
22.	Unknown Alkane	23.40	53000.	J
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

9303968

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG NO.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT14

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >A2027

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 41 decanted: (Y/N) N Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (UL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 18

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown Cycloalkane	13.47	6800.	J
2.		Unknown Alkane	13.77	4700.	J
3.		Unknown	13.83	6200.	J
4.		Unknown	14.44	5400.	J
5.		Unknown Cyclohexane	14.56	6700.	J
6.		Unknown	14.94	18000.	J
7.		Unknown	15.22	13000.	J
8.		Unknown	15.52	19000.	J
9.		Unknown Alkane	15.63	16000.	J
10.		Unknown Cycloalkane	15.77	8000.	J
11.		Unknown	15.84	6000.	J
12.		Unknown	16.43	42000.	J
13.		Unknown Alkane	17.07	52000.	J
14.		Unknown	17.41	13000.	J
15.		Unknown Alkane	18.73	28000.	J
16.		Unknown Alkane	19.99	41000.	J
17.		Unknown Alkane	20.83	110000.	J
18.		Unknown Alkane	22.27	110000.	J
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

9303969

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG NO.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT15

Sample wt/vol: 30.8 (g/mL) G Lab File ID: >A2036

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: 58 decanted: (Y/N) Y Date Extracted: 12/02/93

Concentrated Extract Volume: 500 (UL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

Number TICs found: 16

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	6.10	210.	J
~~2.~~		~~Unknown~~	~~6.69~~	~~2100.~~	~~JB~~
3.		Unknown	7.83	1400.	J
4.		Unknown	9.13	1500.	J
5.		Unknown	9.24	540.	J
6.		Unknown	19.22	170.	J
7.	84651	9,10-Anthracenedione	24.37	160.	J N
8.	243425	Benzo[b]naphtho[2,3-d]furan	26.22	220.	J N
~~9.~~		~~Unknown~~	~~30.22~~	~~510.~~	~~J~~
~~10.~~		~~Unknown Alkane~~	~~32.23~~	~~450.~~	~~J~~
11.		Unknown Alkane	35.74	670.	J
12.		Unknown	36.29	200.	J
13.		Unknown	37.34	210.	J
14.		Unknown	37.72	790.	J
15.		Unknown	38.76	460.	J
16.		Unknown	39.44	360.	J
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

EL 5/24/94

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

9303970

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG NO.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT16

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >A2031

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 64 decanted: (Y/N) Y Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (UL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown Alkane	13.77	32000.	J
2.		Unknown Alkane	15.63	42000.	J
3.		Unknown C2 Naphthalene	16.09	18000.	J
4.		Unknown	16.43	25000.	J
5.		Unknown Alkane	17.07	110000.	J
6.		Unknown	17.62	31000.	J
7.		Unknown C3 Naphthalene	18.10	19000.	J
8.		Unknown C3 Naphthalene	18.18	24000.	J
9.		Unknown C3 Naphthalene	18.43	27000.	J
10.		Unknown Cycloalkane	18.48	30000.	J
11.		Umknown Alkane	18.54	48000.	J
12.		Unknown Alkane	18.72	57000.	J
13.		Unknown Alkane	19.11	35000.	J
14.		Unknown	19.22	51000.	J
15.		Unknown Alkane	20.00	300000.	J
16.	529055	Azulene, 7-ethyl-1,4-dimethy	20.32	30000.	J N
17.		Unknown	20.72	42000.	J
18.		Unknown Alkane	20.85	590000.	J
19.		Unknown Alkane	21.47	65000.	J
20.		Unknown Alkane	22.28	420000.	J
21.		Unknown Alkane	22.37	120000.	J
22.		Unknown Alkane	25.65	74000.	J
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

9303971

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG NO.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT17

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >A2032

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 39 decanted: (Y/N) N Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (UL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

Number TICs found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown Alkane	13.77	6800.	J
2.	Unknown Cycloalkane	15.02	9200	J
3.	Unknown	15.23	13000.	J
4.	Unknown	15.52	14000.	J
5.	Unknown Alkane	15.63	33000.	J
6.	Unknown C2 Naphthalene	16.09	12000.	J
7.	Unknown	16.43	17000.	J
8.	Unknown Alkane	16.81	14000.	J
9.	Unknown Alkane	17.08	76000.	J
10.	Unknown	17.62	18000.	J
11.	Unknown C3 Naphthalene	18.12	14000.	J
12.	Unknown C3 Naphthalene	18.18	24000.	J
13.	Unknown C3 Naphthalene	18.43	26000.	J
14.	Unknown Alkane	18.72	36000.	J
15.	Unknown Alkane	19.12	17000.	J
16.	Unknown Cycloalkane	19.20	12000.	J
17.	Unknown Alkane	20.02	120000.	J
18.	Unknown Alkane	20.74	14000.	J
19.	Unknown Alkane	20.88	190000.	J
20.	Unknown Alkane	21.51	33000.	J
21.	Unknown Alkane	22.34	150000.	J
22.	Unknown Alkane	23.42	50000.	J
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

9303972

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG NO.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT18

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >A2024

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 68 decanted: (Y/N) Y Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (UL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown Alkane	15.61	17000.	J
2.		Unknown	16.42	18000.	J
3.		Unknown Alkane	16.59	6300.	J
4.		Unknown Alkane	17.05	38000.	J
5.		Unknown	17.61	11000.	J
6.		Unknown Alkane	18.70	12000.	J
7.		Unknown Alkane	19.96	41000.	J
8.		Unknown Alkane	20.79	99000.	J
9.		Unknown Alkane	22.22	60000.	J
10.		Unknown Alkane	23.33	18000.	J
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

9303973

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------- SDG NO.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT19

Sample wt/vol: 31.0 (g/mL) G Lab File ID: >A2033

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: 41 decanted: (Y/N) Y Date Extracted: 12/02/93

Concentrated Extract Volume: 500 (UL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 22 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~Unknown~~	~~6.69~~	~~1100.~~	~~JB~~
2.	Unknown	7.82	570.	J
3.	Unknown	9.13	450.	J
4.	Unknown Alkane	17.65	280.	J
5.	Unknown Alkane	19.21	470.	J
6.	Unknown Alkane	19.93	220.	J
7.	Unknown Alkane	20.68	330.	J
8.	Unknown Alkane	20.76	340.	J
9.	Unknown Alkane	22.21	250.	J
10.	Unknown	22.94	270.	J
11.	Unknown	23.18	450.	J
12.	Unknown Alkane	23.41	300.	J
13.	Unknown Alkane	24.68	270.	J
14.	Unknown Alkane	25.90	260.	J
15.	Unknown	29.25	340.	J
~~16.~~	~~Unknown~~	~~30.22~~	~~230.~~	~~J~~
~~17.~~	~~Unknown Alkane~~	~~32.23~~	~~240.~~	~~J~~
18.	Unknown	33.45	200.	J
19.	Unknown Alkane	35.75	470.	J
20.	Unknown	37.35	140.	J
21.	Unknown	37.73	1100.	J
22.	Unknown	38.77	180.	J
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

EL 5/24/94

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

9303974

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG NO.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT20

Sample wt/vol: 30.3 (g/mL) G Lab File ID: >A2039

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: 84 decanted: (Y/N) Y Date Extracted: 12/02/93

Concentrated Extract Volume: 500 (UL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 22 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown Alkane	15.63	4000.	J
2.	Unknown Alkane	17.08	8700.	J
3.	Unknown Cycloalkane	17.63	3400.	J
4.	Unknown Alkane	18.72	2700.	J
5.	Unknown Alkane	19.99	16000.	J
6.	Unknown Alkane	20.84	27000.	J
7.	Unknown Alkane	22.26	18000.	J
8.	Unknown Alkane	23.35	5000.	J
9.	Unknown	29.44	7300.	J
10.	Unknown	31.82	1900.	J
~~11.~~	~~Unknown Alkane~~	~~32.23~~	~~2100.~~	~~J~~
12.	Unknown Alkene	33.46	2100.	J
13.	Unknown	36.16	1700.	J
14.	Unknown	37.28	4800.	J
15.	Unknown	37.37	3500.	J
16.	Unknown	37.70	5100.	J
17.	Unknown	37.76	4100.	J
18.	Unknown	37.86	8200.	J
19.	Unknown	38.09	8400.	J
20.	Unknown	38.23	6200.	J
21.	Unknown	38.44	8900.	J
22.	Unknown	39.26	3900.	J
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

EL 5/23/94

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

9303975

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG NO.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT21

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >A2034

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 60 decanted: (Y/N) Y Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (UL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 24 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown Aromatic	11.29	47000.	J
2.		Unknown Aromatic	12.09	50000.	J
3.		Unknown Aromatic	12.29	40000.	J
4.		Unknown Alkane	12.65	44000.	J
5.		Unknown Aromatic	13.31	37000.	J
6.		Unknown Alkane	13.79	91000.	J
7.		Unknown Aromatic	13.91	31000.	J
8.	90120	Naphthalene, 1-methyl	14.46	210000.	J N
9.		Unknown Aromatic	14.60	53000.	J
10.		Unknown Alkane	15.04	81000.	J
11.		Unknown	15.24	73000.	J
12.		Unknown Alkane	15.68	260000.	J
13.	1127760	Naphthalene, 1-ethyl	15.93	100000.	J N
14.		Unknown C2 Naphthalene	16.14	240000.	J
15.		Unknown C2 Naphthalene	16.39	300000.	J
16.		Unknown C2 Naphthalene	16.46	210000.	J
17.		Unknown Cycloalkane	16.85	72000.	J
18.		Unknown Alkane	17.13	570000.	J
19.		Unknown	17.67	160000.	J
20.		Unknown C3 Naphthalene	18.16	87000.	J
21.		Unknown C3 Naphthalene	18.24	150000.	J
22.		Unknown Alkane	20.08	190000.	J
23.		Unknown Alkane	20.93	350000.	J
24.		Unknown Alkane	22.38	180000.	J
25.					
26.					
27.					
28.					
29.					
30.					

Level M2 Review

000838

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Sample Location: AT17

9303971

Lab Name:DE DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE 023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P6552

Sample wt/vol: 30.10 (g/ml) G Lab File ID:

% Moisture: 39 decanted: (Y/N)N Date Received:12/01/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/07/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed: 1/14/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:8.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.8	UL
319-85-7	beta-BHC	2.8	U
319-86-8	delta-BHC	2.8	U
58-89-9	gamma-BHC(Lindane)	2.8	U
76-44-8	Heptachlor	2.8	U
309-00-2	Aldrin	2.8	U
1024-57-3	Heptachlor epoxide	2.8	U
959-98-8	Endosulfan I	2.8	U
60-57-1	Dieldrin	5.4	U
72-55-9	4,4'-DDE	5.4	U
72-20-8	Endrin	5.4	U
33213-65-9	Endosulfan II	5.4	U
72-54-8	4,4'-DDD	5.4	U
1031-07-8	Endosulfan sulfate	5.4	U
50-29-3	4,4'-DDT	5.4	U
72-43-5	Methoxychlor	28.	U
53494-70-5	Endrin ketone	5.4	U↓
7421-36-3	Endrin aldehyde	5.4	UL
5103-71-9	alpha-Chlordane	4.7	~~P~~ J
5103-74-2	gamma-Chlordane	2.8	UL
8001-35-2	Toxaphene	280.	U
12674-11-2	Aroclor-1016	54.	U
11104-28-2	Aroclor-1221	110.	U
11141-16-5	Aroclor-1232	54.	U
53469-21-9	Aroclor-1242	54.	U
12672-29-6	Aroclor-1248	54.	U↓
11097-69-1	Aroclor-1254	54.	UL
11096-82-5	Aroclor-1260	680.	L

EL 6/3/94

Level M2 Review

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Sample Location: AT20

EPA SAMPLE NO.

000886

9303974

Lab Name:DE DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE 023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P6549

Sample wt/vol: 30.00 (g/ml) G Lab File ID:

% Moisture: 84 decanted: (Y/N)Y Date Received:12/01/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/07/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed: 1/14/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:7.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	11.	UJ
319-85-7	beta-BHC	11.	U
319-86-8	delta-BHC	11.	U
58-89-9	gamma-BHC(Lindane)	11.	U
76-44-8	Heptachlor	11.	U
309-00-2	Aldrin	11.	U
1024-57-3	Heptachlor epoxide	11.	U
959-98-8	Endosulfan I	11.	U
60-57-1	Dieldrin	21.	U↓
72-55-9	4,4'-DDE	21.	UJ
72-20-8	Endrin	110.	~~P~~ J
33213-65-9	Endosulfan II	21.	UJ
72-54-8	4,4'-DDD	22.	~~P~~ J
1031-07-8	Endosulfan sulfate	21.	UJ
50-29-3	4,4'-DDT	21.	U
72-43-5	Methoxychlor	110.	U
53494-70-5	Endrin ketone	21.	U↓
7421-36-3	Endrin aldehyde	21.	UJ
5103-71-9	alpha-Chlordane	11.	J
5103-74-2	gamma-Chlordane	11.	UJ
8001-35-2	Toxaphene	1100.	U
12674-11-2	Aroclor-1016	210.	U
11104-28-2	Aroclor-1221	420.	U
11141-16-5	Aroclor-1232	210.	U
53469-21-9	Aroclor-1242	210.	U
12672-29-6	Aroclor-1248	210.	U↓
11097-69-1	Aroclor-1254	210.	UJ
11096-82-5	Aroclor-1260	4100.	~~P~~ J

EC 6/8/94

Level M2 Review

000902

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Sample Location: AT21

EPA SAMPLE NO.

9303975

Lab Name:DE DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE 023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P6550

Sample wt/vol: 30.00 (g/ml) G Lab File ID:

% Moisture: 60 decanted: (Y/N)Y Date Received:12/01/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/07/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed: 1/14/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:7.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.2	U R
319-85-7	beta-BHC	4.2	U
319-86-8	delta-BHC	4.2	U
58-89-9	gamma-BHC(Lindane)	4.2	U
76-44-8	Heptachlor	4.2	U
309-00-2	Aldrin	4.2	U
1024-57-3	Heptachlor epoxide	4.2	U
959-98-8	Endosulfan I	4.2	U
60-57-1	Dieldrin	8.2	U R
72-55-9	4,4'-DDE	10.	P J
72-20-8	Endrin	8.2	U R
33213-65-9	Endosulfan II	8.2	U R
72-54-8	4,4'-DDD	28.	P J
1031-07-8	Endosulfan sulfate	8.2	U R
50-29-3	4,4'-DDT	8.2	U
72-43-5	Methoxychlor	42.	U
53494-70-5	Endrin ketone	8.2	U
7421-36-3	Endrin aldehyde	8.2	U R
5103-71-9	alpha-Chlordane	7.6	P J
5103-74-2	gamma-Chlordane	4.2	U R
8001-35-2	Toxaphene	420.	U
12674-11-2	Aroclor-1016	82.	U
11104-28-2	Aroclor-1221	170.	U
11141-16-5	Aroclor-1232	82.	U
53469-21-9	Aroclor-1242	82.	U
12672-29-6	Aroclor-1248	82.	U
11097-69-1	Aroclor-1254	82.	U R
11096-82-5	Aroclor-1260	3900.	P J

EC 6/3/94

2F

SOIL PESTICIDE SURROGATE RECOVERY

000744

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

GC Column (1): DB1701 ID: 0.53 (mm) GC Column (2): DB608 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	9303965	66	70	84	116			0
02	9303966	191 *	168 *	232 *	91			3
03	9303966DL	75	48 *	105	89			1
04	9303967	181 *	153 *	205 *	76			3
05	9303967DL	80	51 *	110	94			1
06	9303968	60	40 *	252 *	40 *			3
07	9303968DL	74	52 *	117	99			1
08	9303968MS	66	47 *	89	51 *			2
09	9303968DLMS	70	48 *	112	88			1
10	9303968MSD	74	54 *	98	53 *			2
11	9303968DLMSD	75	51 *	116	91			1
12	9303969	71	66	94	76			0
13	9303969DL	96	98	132	178 *			1
14	9303970	68	59 *	89	38 *			2
15	9303970DL	68	52 *	84	87			1
16	9303971	43 *	42 *	68	47 *			3
17	9303971DL	84	57 *	75	85			1
18	9303972	57	46 *	105	58			1
19	9303972DL	84	66	99	103			0
20	9303973	62	59 *	84	141			1
21	9303973DL	96	87	107	109			0
22	9303974	84	69	51 *	20 *			2
23	9303974DL	81	74	100	103			0
24	9303975	0 *	133	43 *	0 *			3
25	9303975DL	88	56 *	89	79			1
26	PBLK1	82	79	101	102			0
27	PBLK1MS	65	64	72	73			0
28	PBLK3	60	61	77	74			0
29	PBLK3MS	66	66	86	81			0
30	PBLK4	75	76	94	92			0

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

Column used to flag recovery values
* Values outside of QC limits
D Surrogates diluted out

FORM II PEST-2 3/90

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

000745

Lab Name:DE DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE 023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix Spike - EPA Sample No.: 9303968

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS RFC.
gamma-BHC(Lindane)	28.	0.0	0.0	0*	46-127
Heptachlor	28.	0.0	0.0	0*	35-130
Aldrin	28.	0.0	12.	43	34-132
Dieldrin	56.	0.0	41.	73	31-134
Endrin	56.	52.	32.	36*	42-139
4,4'-DDT	56.	0.0	0.0	0*	23-134

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC(Lindane)	28.	0.0	0*	0	50	46-127
Heptachlor	28.	0.0	0*	0	31	35-130
Aldrin	28.	13.	46	7	43	34-132
Dieldrin	57.	46.	81	12	38	31-134
Endrin	57.	38.	25*	33	45	42-139
4,4'-DDT	57.	0.0	0*	0	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 8 out of 12 outside limits

COMMENTS:

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY 000746

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix Spike - EPA Sample No.: 9303968DL

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
gamma-BHC(Lindane)	850.	0.0	310.	36*	46-127
Heptachlor	850.	0.0	410.	48	35-130
Aldrin	850.	0.0	360.	42	34-132
Dieldrin	1700.	0.0	990.	58	31-134
Endrin	1700.	220.	1200.	58	42-139
4,4'-DDT	1700.	0.0	1400.	82	23-134

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC(Lindane)	850.	330.	39*	6	50	46-127
Heptachlor	850.	440.	52	7	31	35-130
Aldrin	850.	390.	46	8	43	34-132
Dieldrin	1700.	1000.	59	1	38	31-134
Endrin	1700.	1300.	64	10	45	42-139
4,4'-DDT	1700.	1500.	88	7	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 2 out of 12 outside limits

COMMENTS:

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Instrument ID:GC01 Level (x low): low 1 mid 4 high 16

GC Column:DB1701 ID: 0.53 (mm) Date(s) Analyzed: 12/28/93 12/28/93

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	5275700	6507950	8479169	6754273	23.9
beta-BHC	3782700	3920300	3912794	3871931	2.0
delta-BHC	3649900	4102950	5164375	4305742	18.1
gamma-BHC(Lindane)	5563800	6679100	8159600	6800833	19.1
Heptachlor	8965500	9313925	9591494	9290306	3.4
Aldrin	6154700	6632300	7536375	6774458	10.4
Heptachlor epoxide	7573500	7914000	8101100	7862867	3.4
Endosulfan I	6767500	7054750	7550019	7124090	5.6
Dieldrin	6007150	6786763	7751200	6848371	12.8
4,4'-DDE	5511850	6271000	7079556	6287469	12.5
Endrin	5928650	6417963	7282388	6543000	10.5
Endosulfan II	6362800	5139463	4312931	5271731	19.6
4,4'-DDD	4123900	4753888	5571766	4816518	15.1
Endosulfan sulfate	5168100	5292138	5293003	5251080	1.4
4,4'-DDT	4929450	5265138	6042197	5412261	10.5
Methoxychlor	3494470	3579258	3211553	3428427	5.6
Endrin ketone	4717000	5115550	5404294	5078948	6.8
Endrin aldehyde	4499400	4344738	4259569	4367902	2.8
alpha-Chlordane	7765500	7938425	7925500	7876475	1.2
gamma-Chlordane	7538900	7844350	7723756	7702335	2.0
Tetrachloro-m-xylene	6513700	6754250	6703925	6657292	1.9
Decachlorobiphenyl	12412250	9804888	8179631	10132256	21.1

* Surrogate calibration factors are measured from Standard Mix A analyses.

%RSD must be less than or equal 20.0 % for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have % RSD greater than 20.0% but less than or equal to 30.0%.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Instrument ID:GC02 Level (x low): low 1 mid 4 high 16

GC Column:DB608 ID: 0.53 (mm) Date(s) Analyzed: 12/28/93 12/28/93

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	16973600	18286125	18086231	17781985	4.0
beta-BHC	8434400	8095800	7445056	7991752	6.3
delta-BHC	13075200	12859425	12992156	12975594	0.8
gamma-BHC(Lindane)	16354500	16894475	16332150	16527042	1.9
Heptachlor	16764800	16794775	15378700	16312758	5.0
Aldrin	13493000	14915350	13297619	13901990	6.4
Heptachlor epoxide	16077100	14084225	12633506	14264944	12.1
Endosulfan I	11485200	12219375	11414300	11706292	3.8
Dieldrin	12223250	11965525	11343078	11843951	3.8
4,4'-DDE	11071400	11121800	10635606	10942935	2.4
Endrin	10455700	10995875	10192325	10547967	3.9
Endosulfan II	9355150	7786488	6190056	7777231	20.3
4,4'-DDD	8441300	8664875	8499103	8535093	1.4
Endosulfan sulfate	7522700	7584325	7380500	7495842	1.4
4,4'-DDT	8407700	8906538	8652109	8655449	2.9
Methoxychlor	4225870	3948643	3387703	3854072	11.1
Endrin ketone	8020400	8373825	8143181	8179135	2.2
Endrin aldehyde	6264450	6799075	6452978	6505501	4.2
alpha-Chlordane	14343600	13381800	12359681	13361694	7.4
gamma-Chlordane	15704000	13070625	12097500	13624042	13.7
Tetrachloro-m-xylene	15878300	15095650	13343400	14772450	8.8
Decachlorobiphenyl	11618100	10977700	9245919	10613906	11.6

* Surrogate calibration factors are measured from Standard Mix A analyses.

%RSD must be less than or equal 20.0 % for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have % RSD greater than 20.0% but less than or equal to 30.0%.

8D
PESTICIDE ANALYTICAL SEQUENCE

000970

Lab Name:DE DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE 023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

GC Column:DB1701 ID: 0.5 (mm) Init. Calib. Date(s): 1/13/94 1/13/94

Instrument ID: GC01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.02 DCB: 37.71

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	PEM3D	P6639	1/14/94	1355	5.01	37.71
02	9303972DL2	P6640	1/14/94	1517	5.01	37.71
03	9303970DL2	P6641	1/14/94	1624	5.01	37.71
04	9303971DL2	P6642	1/14/94	1738	5.01	37.69
05	9303973DL2	P6643	1/14/94	1844	5.01	37.69
06	9303974DL2	P6644	1/14/94	1951	5.01	37.74
07	9303975DL2	P6645	1/14/94	2059	5.03	37.76
08	9303965	P6646	1/14/94	2207	5.01	37.69
09	9303966DL2	P6647	1/14/94	2314	5.03	37.76
10	PIBLK3D	P6648	1/15/94	0046	5.01	37.69
11	INDAM3C	P6649	1/15/94	0207	5.01	37.69
12	INDBM3C	P6650	1/15/94	0329	5.01	37.71
13	9303967DL2	P6651	1/15/94	0451	5.03	37.78
14	9303969DL2RI	P6652	1/15/94	0614	5.01	37.71
15	3968DL2MSRI	P6653	1/15/94	0735	5.03	37.76
16	3968DL2MSDRI	P6654	1/15/94	0858	5.03	37.74
17	PIBLK3E	P6655	1/15/94	1020	5.01	37.71
18	PIBLK3F	P6656	1/15/94	1114	5.01	37.71
19	PEM3E	P6658	1/15/94	1223	5.03	37.71
20	9303968DL2RI	P6659	1/15/94	1315	5.03	37.74
21	9303973	P6660	1/15/94	1447	5.01	37.71
22	9303974	P6661	1/15/94	1620	5.04	37.74
23	9303975	P6662	1/15/94	1753	0.00 *	37.71
24	9303969	P6663	1/15/94	1927	5.01	37.68
25	PIBLK3G	P6664	1/15/94	2100	5.01	37.68
26	PIBLK3H	P6665	1/15/94	2231	5.01	37.68
27	INDAM3D	P6666	1/16/94	0003	5.01	37.68
28	INDBM3D	P6667	1/16/94	0135	5.01	37.68
29	9303971	P6668	1/16/94	0307	5.01	37.68
30	9303970	P6669	1/16/94	0439	5.04	37.69
31	9303972	P6670	1/16/94	0612	5.03	37.69
32	9303968	P6671	1/16/94	0745	5.06	37.76

QC LIMITS
TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D

PESTICIDE ANALYTICAL SEQUENCE

000975

Lab Name:DE DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE 023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

GC Column:DB608 ID: 0.5 (mm) Init. Calib. Date(s): 1/12/94 1/13/94

Instrument ID: GC02

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 8.38 DCB: 38.86

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	9303972DL2	P6533	1/14/94	0128	8.38	38.84
02	PIBLK4C	P6534	1/14/94	0234	8.38	38.84
03	PIBLK4D	P6535	1/14/94	0339	8.36	38.84
04	PEM4D	P6536	1/14/94	0445	8.36	38.84
05	9303971DL2	P6537	1/14/94	0550	8.36	38.84
06	9303973DL2	P6538	1/14/94	0655	8.38	38.84
07	9303974DL2	P6539	1/14/94	0801	8.38	38.83
08	9303975DL2	P6540	1/14/94	0906	8.38	38.84
09	9303965	P6541	1/14/94	0956	8.36	38.84
10	9303966DL2	P6542	1/14/94	1118	8.38	38.91
11	9303967DL2	P6543	1/14/94	1224	8.38	38.89
12	9303968DL2RI	P6544	1/14/94	1335	8.38	0.00 *
13	PIBLK4E	P6545	1/14/94	1445	8.36	38.86
14	INDAM4C	P6546	1/14/94	1545	8.38	38.86
15	INDBM4C	P6547	1/14/94	1636	8.36	38.84
16	9303973	P6548	1/14/94	1723	8.36	38.84
17	9303974	P6549	1/14/94	1844	8.39	38.86
18	9303975	P6550	1/14/94	2005	8.42	0.00 *
19	9303969	P6551	1/14/94	2126	8.36	38.83
20	9303971	P6552	1/14/94	2247	8.34	38.81
21	PIBLK4F	P6553	1/15/94	0013	8.34	38.81
22	PIBLK4G	P6554	1/15/94	0103	8.34	38.81
23	PEM4E	P6555	1/15/94	0236	8.34	38.81
24	9303970	P6556	1/15/94	0409	8.39	38.81
25	9303972	P6557	1/15/94	0543	8.38	38.83
26	9303968	P6558	1/15/94	0717	8.41	38.83
27	9303968MS	P6559	1/15/94	0852	8.44 *	38.83
28	9303968MSD	P6560	1/15/94	1026	8.44 *	38.84
29	PIBLK4H	P6562	1/15/94	1223	8.39	38.83
30	PIBLK4I	P6563	1/15/94	1344	8.34	38.81
31	INDAM4D	P6564	1/15/94	1434	8.34	38.81
32	INDBM4D	P6565	1/15/94	1607	8.34	38.81

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

9B
PESTICIDE GPC CALIBRATION

000980

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

GPC Column: ENVIROGEL Calibration Date: 12/09/93

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
gamma-BHC (Lindane)	1000	860	86	80-110
Heptachlor	1000	800	80	80-110
Aldrin	1000	850	85	80-110
Dieldrin	2000	1700	85	80-110
Endrin	2000	1500	75 *	80-110
4,4'-DDT	2000	1600	80	80-110

Column to be used to flag recovery with an asterisk.
* Values outside of QC limits.

THIS GPC CALIBRATION APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	9303965	P6541	1/14/94	1/14/94
02	9303966	P6566	1/15/94	1/16/94
03	9303967	P6567	1/15/94	1/17/94
04	9303968	P6558	1/15/94	1/16/94
05	9303968MS	P6559	1/15/94	1/16/94
06	9303968MSD	P6560	1/15/94	1/16/94
07	9303969	P6551	1/14/94	1/15/94
08	9303969DL	P6531	1/13/94	1/14/94
09	9303970	P6556	1/14/94	1/16/94
10	9303971	P6552	1/14/94	1/16/94
11	9303972	P6557	1/15/94	1/16/94
12	9303973	P6548	1/14/94	1/15/94
13	9303974	P6549	1/14/94	1/15/94
14	9303975	P6550	1/14/94	1/15/94
15	PBLK3	P6525	1/13/94	1/14/94
16	PBLK3MS	P6527	1/13/94	1/14/94
17	PBLK4	P6526	1/13/94	1/14/94
18				
19				
20				
21				
22				
23				
24				
25				
26				

FORM IX PEST-2 3/90

000981

EPA SAMPLE NO.

9303965

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P6541 Date(s) Analyzed: 1/14/94 1/14/94

Instrument ID (1): GC02 Instrument ID (2): GC01

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDT	1	26.94	26.94	27.08	19.000	
	2	25.37	25.33	25.47	5.000	280.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1 3/90

000982
EPA SAMPLE NO.

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

9303966

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P6566 Date(s) Analyzed: 1/15/94 1/16/94

Instrument ID (1): GC02 Instrument ID (2): GC01

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Endosulfan I	1	21.39	21.39	21.53	16.000	
	2	17.79	17.65	17.79	28.000	75.0
4,4'-DDE	1	22.71	22.71	22.85	15.000	
	2	19.16	19.05	19.19	230.000	1433.3
Endosulfan sulfate	1	27.94	27.92	28.06	82.000	
	2	29.44	29.35	29.49	120.000	46.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1 3/90

000984

EPA SAMPLE NO.

9303967

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P6567 Date(s) Analyzed: 1/15/94 1/17/94

Instrument ID (1): GC02 Instrument ID (2): GC01

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Endosulfan I	1	21.39	21.39	21.53	15.000	
	2	17.79	17.65	17.79	26.000	73.3
4,4'-DDE	1	22.71	22.71	22.85	13.000	
	2	19.16	19.05	19.19	200.000	1438.5
Endosulfan sulfate	1	27.96	27.92	28.06	79.000	
	2	29.44	29.35	29.49	120.000	51.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1 3/90

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK04

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ------ SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: LAB BLANK

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >V1403

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: not dec. Date Analyzed: 12/08/93

GC Column: PACK ID: 2 Dilution Factor: 1.0

Soil Extract Vol: ------ (ul) Soil Aliquot Volume: ------ (ul)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK05

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ------ SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: LAB BLANK

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >V1418

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: not dec.------ Date Analyzed: 12/08/93

GC Column: PACK ID: 2 Dilution Factor: 1.0

Soil Extract Vol: ------ (ul) Soil Aliquot Volume: ------ (ul)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK05

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ------ SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: LAB BLANK

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >V1418

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: not dec.------ Date Analyzed: 12/08/93

GC Column: PACK ID: 2 (mm) Dilution Factor: 1.0

Soil Extract Volume: ------ (ul) Soil Aliquot Volume: ------ (ul)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	3.	J
67-64-1	Acetone	2.	JB
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U
67-66-3	Chloroform	10.	U
107-02-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
133-02-7	Xylene (total)	10.	U

EPA SAMPLE NO.

SBLK01

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------- SDG NO.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: LL BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >A2028

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: -- decanted: (Y/N) N Date Extracted: 12/02/93

Concentrated Extract Volume: 500 (UL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	5.70	84.	JB
2.		Unknown	6.69	160.	JB
3.		Unknown	6.94	600.	JB
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: LL BLK1

Sample wt/vol: 30.0 (g/ml) G Lab File ID: >A2028

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 12/02/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK05

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: LL BLK5

Sample wt/vol: 30.0 (g/ml) G Lab File ID: >A2017

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 12/03/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	86	BJ
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	48	BJ
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenz(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: LL BLK1

Sample wt/vol: 30.0 (g/ml) G Lab File ID: >A2028

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 12/02/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenz(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK05

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG NO.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: LL BLK5

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >A2017

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: -- decanted: (Y/N) N Date Extracted: 12/03/93

Concentrated Extract Volume: 500 (UL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	6.72	100.	J
2.		Unknown	6.97	740.	J
3.	74381401	Propanoic acid, 2-methyl-, 1	19.23	97.	J N
4.		Unknown	30.22	640.	J
5.		Unknown	32.23	74.	J
6.		Unknown	35.81	110.	J
7.		Unknown	36.90	74.	J
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

000685

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK05

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: LL BLK5

Sample wt/vol: 30.0 (g/ml) G Lab File ID: >A2017

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 12/03/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK07

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: ML BLK7

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2019

Level: (low/med) MED Date Received: 12/01/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	25000	U
100-02-7	4-Nitrophenol	25000	U
132-64-9	Dibenzofuran	10000	U
121-14-2	2,4-Dinitrotoluene	10000	U
84-66-2	Diethylphthalate	10000	U
7005-72-3	4-Chlorophenyl-phenylether	10000	U
86-73-7	Fluorene	10000	U
100-01-6	4-Nitroaniline	25000	U
534-52-1	4,6-Dinitro-2-methylphenol	25000	U
86-30-6	N-Nitrosodiphenylamine (1)	10000	U
101-55-3	4-Bromophenyl-phenylether	10000	U
118-74-1	Hexachlorobenzene	10000	U
87-86-5	Pentachlorophenol	25000	U
85-01-8	Phenanthrene	10000	U
120-12-7	Anthracene	10000	U
86-74-8	Carbazole	10000	U
84-74-2	Di-n-butylphthalate	10000	U
206-44-0	Fluoranthene	10000	U
129-00-0	Pyrene	10000	U
85-68-7	Butylbenzylphthalate	10000	U
91-94-1	3,3'-Dichlorobenzidine	10000	U
56-55-3	Benzo(a)anthracene	10000	U
218-01-9	Chrysene	10000	U
117-81-7	bis(2-Ethylhexyl)phthalate	10000	U
117-84-0	Di-n-octylphthalate	10000	U
205-99-2	Benzo(b)fluoranthene	10000	U
207-08-9	Benzo(k)fluoranthene	10000	U
50-32-8	Benzo(a)pyrene	10000	U
193-39-5	Indeno(1,2,3-cd)pyrene	10000	U
53-70-3	Dibenz(a,h)anthracene	10000	U
191-24-2	Benzo(g,h,i)perylene	10000	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK07

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: ML BLK7

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2019

Level: (low/med) MED Date Received: 12/01/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	10000	U
111-44-4	bis(2-Chloroethyl)ether	10000	U
95-57-8	2-Chlorophenol	10000	U
541-73-1	1,3-Dichlorobenzene	10000	U
106-46-7	1,4-Dichlorobenzene	10000	U
95-50-1	1,2-Dichlorobenzene	10000	U
95-48-7	2-Methylphenol	10000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10000	U
106-44-5	4-Methylphenol	10000	U
621-64-7	N-Nitroso-di-n-propylamine	10000	U
67-72-1	Hexachloroethane	10000	U
98-95-3	Nitrobenzene	10000	U
78-59-1	Isophorone	10000	U
88-75-5	2-Nitrophenol	10000	U
105-67-9	2,4-Dimethylphenol	10000	U
111-91-1	bis(2-Chloroethoxy)methane	10000	U
120-83-2	2,4-Dichlorophenol	10000	U
120-82-1	1,2,4-Trichlorobenzene	10000	U
91-20-3	Naphthalene	10000	U
106-47-8	4-Chloroaniline	10000	U
87-68-3	Hexachlorobutadiene	10000	U
59-50-7	4-Chloro-3-methylphenol	10000	U
91-57-6	2-Methylnaphthalene	10000	U
77-47-4	Hexachlorocyclopentadiene	10000	U
88-06-2	2,4,6-Trichlorophenol	10000	U
95-95-4	2,4,5-Trichlorophenol	25000	U
91-58-7	2-Chloronaphthalene	10000	U
88-74-4	2-Nitroaniline	25000	U
131-11-3	Dimethylphthalate	10000	U
208-96-8	Acenaphthylene	10000	U
606-20-2	2,6-Dinitrotoluene	10000	U
99-09-2	3-Nitroaniline	25000	U
83-32-9	Acenaphthene	10000	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK09

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: ML BLK9

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2073

Level: (low/med) MED Date Received: 12/01/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 12/10/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/21/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	10000	U
111-44-4	bis(2-Chloroethyl)ether	10000	U
95-57-8	2-Chlorophenol	10000	U
541-73-1	1,3-Dichlorobenzene	10000	U
106-46-7	1,4-Dichlorobenzene	10000	U
95-50-1	1,2-Dichlorobenzene	10000	U
95-48-7	2-Methylphenol	10000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10000	U
106-44-5	4-Methylphenol	10000	U
621-64-7	N-Nitroso-di-n-propylamine	10000	U
67-72-1	Hexachloroethane	10000	U
98-95-3	Nitrobenzene	10000	U
78-59-1	Isophorone	10000	U
88-75-5	2-Nitrophenol	10000	U
105-67-9	2,4-Dimethylphenol	10000	U
111-91-1	bis(2-Chloroethoxy)methane	10000	U
120-83-2	2,4-Dichlorophenol	10000	U
120-82-1	1,2,4-Trichlorobenzene	10000	U
91-20-3	Naphthalene	10000	U
106-47-8	4-Chloroaniline	10000	U
87-68-3	Hexachlorobutadiene	10000	U
59-50-7	4-Chloro-3-methylphenol	10000	U
91-57-6	2-Methylnaphthalene	10000	U
77-47-4	Hexachlorocyclopentadiene	10000	U
88-06-2	2,4,6-Trichlorophenol	10000	U
95-95-4	2,4,5-Trichlorophenol	25000	U
91-58-7	2-Chloronaphthalene	10000	U
88-74-4	2-Nitroaniline	25000	U
131-11-3	Dimethylphthalate	10000	U
208-96-8	Acenaphthylene	10000	U
606-20-2	2,6-Dinitrotoluene	10000	U
99-09-2	3-Nitroaniline	25000	U
83-32-9	Acenaphthene	10000	U

EPA SAMPLE NO.

SBLK07

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG NO.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: ML BLK7

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >A2019

Level: (low/med) MED Date Received: 12/01/93

% Moisture: -- decanted: (Y/N) N Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (UL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK09

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------- SDG NO.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: ML BLK9

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >A2073

Level: (low/med) MED Date Received: 12/01/93

% Moisture: -- decanted: (Y/N) N Date Extracted: 12/10/93

Concentrated Extract Volume: 500 (UL) Date Analyzed: 12/21/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK09

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: ML BLK9

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2073

Level: (low/med) MED Date Received: 12/01/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 12/10/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/21/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	25000	U
100-02-7	4-Nitrophenol	25000	U
132-64-9	Dibenzofuran	10000	U
121-14-2	2,4-Dinitrotoluene	10000	U
84-66-2	Diethylphthalate	10000	U
7005-72-3	4-Chlorophenyl-phenylether	10000	U
86-73-7	Fluorene	10000	U
100-01-6	4-Nitroaniline	25000	U
534-52-1	4,6-Dinitro-2-methylphenol	25000	U
86-30-6	N-Nitrosodiphenylamine (1)	10000	U
101-55-3	4-Bromophenyl-phenylether	10000	U
118-74-1	Hexachlorobenzene	10000	U
87-86-5	Pentachlorophenol	25000	U
85-01-8	Phenanthrene	10000	U
120-12-7	Anthracene	10000	U
86-74-8	Carbazole	10000	U
84-74-2	Di-n-butylphthalate	10000	U
206-44-0	Fluoranthene	10000	U
129-00-0	Pyrene	10000	U
85-68-7	Butylbenzylphthalate	10000	U
91-94-1	3,3'-Dichlorobenzidine	10000	U
56-55-3	Benzo(a)anthracene	10000	U
218-01-9	Chrysene	10000	U
117-81-7	bis(2-Ethylhexyl)phthalate	10000	U
117-84-0	Di-n-octylphthalate	10000	U
205-99-2	Benzo(b)fluoranthene	10000	U
207-08-9	Benzo(k)fluoranthene	10000	U
50-32-8	Benzo(a)pyrene	10000	U
193-39-5	Indeno(1,2,3-cd)pyrene	10000	U
53-70-3	Dibenz(a,h)anthracene	10000	U
191-24-2	Benzo(g,h,i)perylene	10000	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK3

Lab Name:DE DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE 023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P6525

Sample wt/vol: 30.00 (g/ml) G Lab File ID:

% Moisture: 0 decanted: (Y/N)N Date Received: / /

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/07/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed: 1/13/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:0.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC(Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4 4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	3.3	U
7421-36-3	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170.	U
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	67.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK1

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Medium Level

Matrix: (soil/water) SOIL Lab Sample ID:P5951

Sample wt/vol: 1.00 (g/ml) G Lab File ID:

% Moisture: 0 decanted: (Y/N) Date Received: / /

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/02/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed:12/29/93

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:7.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6--------	alpha-BHC	50.	U
319-85-7--------	beta-BHC	50.	U
319-86-8--------	delta-BHC	50.	U
58-89-9---------	gamma-BHC(Lindane)	50.	U
76-44-8---------	Heptachlor	50.	U
309-00-2--------	Aldrin	50.	U
1024-57-3-------	Heptachlor epoxide	50.	U
959-98-8--------	Endosulfan I	50.	U
60-57-1---------	Dieldrin	100.	U
72-55-9---------	4,4'-DDE	100.	U
72-20-8---------	Endrin	100.	U
33213-65-9------	Endosulfan II	100.	U
72-54-8---------	4,4'-DDD	100.	U
1031-07-8-------	Endosulfan sulfate	100.	U
50-29-3---------	4,4'-DDT	100.	U
72-43-5---------	Methoxychlor	500.	U
53494-70-5------	Endrin ketone	100.	U
7421-36-3-------	Endrin aldehyde	100.	U
5103-71-9-------	alpha-Chlordane	50.	U
5103-74-2-------	gamma-Chlordane	50.	U
8001-35-2-------	Toxaphene	5000.	U
12674-11-2------	Aroclor-1016	1000.	U
11104-28-2------	Aroclor-1221	2000.	U
11141-16-5------	Aroclor-1232	1000.	U
53469-21-9------	Aroclor-1242	1000.	U
12672-29-6------	Aroclor-1248	1000.	U
11097-69-1------	Aroclor-1254	490.	J
11096-82-5------	Aroclor-1260	1000.	U

001541

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK1MS

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P5954

Sample wt/vol: 1.00 (g/ml) G Lab File ID:

% Moisture: 0 decanted: (Y/N)N Date Received: / /

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/02/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed:12/29/93

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:7.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	50.	U
319-85-7	beta-BHC	50.	U
319-86-8	delta-BHC	50.	U
58-89-9	gamma-BHC(Lindane)	250.	P
76-44-8	Heptachlor	290.	P
309-00-2	Aldrin	270.	P
1024-57-3	Heptachlor epoxide	50.	U
959-98-8	Endosulfan I	50.	U
60-57-1	Dieldrin	600.	P
72-55-9	4,4'-DDE	100.	U
72-20-8	Endrin	580.	P
33213-65-9	Endosulfan II	100.	U
72-54-8	4,4'-DDD	100.	U
1031-07-8	Endosulfan sulfate	100.	U
50-29-3	4,4'-DDT	570.	P
72-43-5	Methoxychlor	500.	U
53494-70-5	Endrin ketone	100.	U
7421-36-3	Endrin aldehyde	100.	U
5103-71-9	alpha-Chlordane	50.	U
5103-74-2	gamma-Chlordane	50.	U
8001-35-2	Toxaphene	5000.	U
12674-11-2	Aroclor-1016	1000.	U
11104-28-2	Aroclor-1221	2000.	U
11141-16-5	Aroclor-1232	1000.	U
53469-21-9	Aroclor-1242	1000.	U
12672-29-6	Aroclor-1248	1000.	U
11097-69-1	Aroclor-1254	1000.	U
11096-82-5	Aroclor-1260	1000.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK4

Lab Name:DE DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE 023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P6526

Sample wt/vol: 30.00 (g/ml) G Lab File ID:

% Moisture: 0 decanted: (Y/N)N Date Received: / /

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/07/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed: 1/13/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:0.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC(Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	3.3	U
7421-36-3	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170.	U
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	67.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 001549

PBLK3MS

Lab Name:DE DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE 023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P6527

Sample wt/vol: 30.00 (g/ml) G Lab File ID:

% Moisture: 0 decanted: (Y/N)N Date Received: / /

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/07/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed: 1/13/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:0.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC(Lindane)	9.6	
76-44-8	Heptachlor	12.	
309-00-2	Aldrin	12.	
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	23.	
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	26.	
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	25.	
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	3.3	U
7421-36-3	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170.	U
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	67.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK04

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ------ SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: LAB BLANK

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >V1403

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: not dec.------ Date Analyzed: 12/08/93

GC Column: PACK ID: 2 (mm) Dilution Factor: 1.0

Soil Extract Volume: ------ (ul) Soil Aliquot Volume: ------ (ul)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	4.	JB
67-64-1	Acetone	9.	JB
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U
67-66-3	Chloroform	10.	U
107-02-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
133-02-7	Xylene (total)	10.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303968DLMS

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P5977

Sample wt/vol: 1.00 (g/ml) G Lab File ID:

% Moisture: 41 decanted: (Y/N)N Date Received:12/01/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/02/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed:12/30/93

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:7.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	85.	U
319-85-7	beta-BHC	85.	U
319-86-8	delta-BHC	85.	U
58-89-9	gamma-BHC(Lindane)	310.	DP
76-44-8	Heptachlor	410.	DP
309-00-2	Aldrin	360.	DP
1024-57-3	Heptachlor epoxide	85.	U
959-98-8	Endosulfan I	85.	U
60-57-1	Dieldrin	990.	DP
72-55-9	4,4'-DDE	170.	U
72-20-8	Endrin	1200.	DP
33213-65-9	Endosulfan II	170.	U
72-54-8	4,4'-DDD	170.	U
1031-07-8	Endosulfan sulfate	170.	U
50-29-3	4,4'-DDT	1400.	D
72-43-5	Methoxychlor	850.	U
53494-70-5	Endrin ketone	170.	U
7421-36-3	Endrin aldehyde	230.	DP
5103-71-9	alpha-Chlordane	85.	U
5103-74-2	gamma-Chlordane	85.	U
8001-35-2	Toxaphene	8500.	U
12674-11-2	Aroclor-1016	1700.	U
11104-28-2	Aroclor-1221	3400.	U
11141-16-5	Aroclor-1232	1700.	U
53469-21-9	Aroclor-1242	1700.	U
12672-29-6	Aroclor-1248	1700.	U
11097-69-1	Aroclor-1254	1700.	U
11096-82-5	Aroclor-1260	13000.	DP

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303968DLMSD

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P5978

Sample wt/vol: 1.00 (g/ml) G Lab File ID:

% Moisture: 41 decanted: (Y/N)N Date Received:12/01/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/02/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed:12/30/93

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:7.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	85.	U
319-85-7	beta-BHC	85.	U
319-86-8	delta-BHC	85.	U
58-89-9	gamma-BHC(Lindane)	330.	DP
76-44-8	Heptachlor	440.	DP
309-00-2	Aldrin	390.	DP
1024-57-3	Heptachlor epoxide	85.	U
959-98-8	Endosulfan I	85.	U
60-57-1	Dieldrin	1000.	DP
72-55-9	4,4'-DDE	170.	U
72-20-8	Endrin	1300.	DP
33213-65-9	Endosulfan II	170.	U
72-54-8	4,4'-DDD	170.	U
1031-07-8	Endosulfan sulfate	170.	U
50-29-3	4,4'-DDT	1500.	D
72-43-5	Methoxychlor	850.	U
53494-70-5	Endrin ketone	170.	U
7421-36-3	Endrin aldehyde	220.	DP
5103-71-9	alpha-Chlordane	85.	U
5103-74-2	gamma-Chlordane	85.	U
8001-35-2	Toxaphene	8500.	U
12674-11-2	Aroclor-1016	1700.	U
11104-28-2	Aroclor-1221	3400.	U
11141-16-5	Aroclor-1232	1700.	U
53469-21-9	Aroclor-1242	1700.	U
12672-29-6	Aroclor-1248	1700.	U
11097-69-1	Aroclor-1254	1700.	U
11096-82-5	Aroclor-1260	13000.	D

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303968MS

Lab Name:DE DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE 023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P6559

Sample wt/vol: 30.10 (g/ml) G Lab File ID:

% Moisture: 41 decanted: (Y/N)N Date Received:12/01/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/07/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed: 1/15/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:7.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.0	P
319-85-7	beta-BHC	2.9	U
319-86-8	delta-BHC	2.9	U
58-89-9	gamma-BHC(Lindane)	2.9	U
76-44-8	Heptachlor	2.9	U
309-00-2	Aldrin	12.	
1024-57-3	Heptachlor epoxide	2.9	U
959-98-8	Endosulfan I	2.9	U
60-57-1	Dieldrin	41.	P
72-55-9	4,4'-DDE	5.6	U
72-20-8	Endrin	32.	P
33213-65-9	Endosulfan II	5.6	U
72-54-8	4,4'-DDD	5.6	U
1031-07-8	Endosulfan sulfate	5.6	U
50-29-3	4 4'-DDT	5.6	U
72-43-5	Methoxychlor	29.	U
53494-70-5	Endrin ketone	5.6	U
7421-36-3	Endrin aldehyde	5.6	U
5103-71-9	alpha-Chlordane	2.9	U
5103-74-2	gamma-Chlordane	2.9	U
8001-35-2	Toxaphene	290.	U
12674-11-2	Aroclor-1016	56.	U
11104-28-2	Aroclor-1221	110.	U
11141-16-5	Aroclor-1232	56.	U
53469-21-9	Aroclor-1242	56.	U
12672-29-6	Aroclor-1248	56.	U
11097-69-1	Aroclor-1254	56.	U
11096-82-5	Aroclor-1260	2400.	

001572

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303968MSD

Lab Name:DE DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE 023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P6560

Sample wt/vol: 29.90 (g/ml) G Lab File ID:

% Moisture: 41 decanted: (Y/N)N Date Received:12/01/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/07/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed: 1/15/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:7.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.2	P
319-85-7	beta-BHC	2.9	U
319-86-8	delta-BHC	2.9	U
58-89-9	gamma-BHC(Lindane)	2.9	U
76-44-8	Heptachlor	2.9	U
309-00-2	Aldrin	13.	
1024-57-3	Heptachlor epoxide	2.9	U
959-98-8	Endosulfan I	2.9	U
60-57-1	Dieldrin	46.	P
72-55-9	4,4'-DDE	5.6	U
72-20-8	Endrin	38.	P
33213-65-9	Endosulfan II	5.6	U
72-54-8	4,4'-DDD	5.6	U
1031-07-8	Endosulfan sulfate	5.6	U
50-29-3	4,4'-DDT	5.6	U
72-43-5	Methoxychlor	29.	U
53494-70-5	Endrin ketone	5.6	U
7421-36-3	Endrin aldehyde	5.6	U
5103-71-9	alpha-Chlordane	2.9	U
5103-74-2	gamma-Chlordane	2.9	U
8001-35-2	Toxaphene	290.	U
12674-11-2	Aroclor-1016	56.	U
11104-28-2	Aroclor-1221	110.	U
11141-16-5	Aroclor-1232	56.	U
53469-21-9	Aroclor-1242	56.	U
12672-29-6	Aroclor-1248	56.	U
11097-69-1	Aroclor-1254	56.	U
11096-82-5	Aroclor-1260	2400.	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303968MSD

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT14MSD

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2030

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 41 decanted: (Y/N) N Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	37000	
111-44-4	bis(2-Chloroethyl)ether	17000	U
95-57-8	2-Chlorophenol	44000	
541-73-1	1,3-Dichlorobenzene	17000	U
106-46-7	1,4-Dichlorobenzene-	29000	
95-50-1	1,2-Dichlorobenzene	17000	U
95-48-7	2-Methylphenol	17000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	17000	U
106-44-5	4-Methylphenol	17000	U
621-64-7	N-Nitroso-di-n-propylamine	31000	
67-72-1	Hexachloroethane	17000	U
98-95-3	Nitrobenzene	17000	U
78-59-1	Isophorone	17000	U
88-75-5	2-Nitrophenol	17000	U
105-67-9	2,4-Dimethylphenol	17000	U
111-91-1	bis(2-Chloroethoxy)methane	17000	U
120-83-2	2,4-Dichlorophenol	17000	U
120-82-1	1,2,4-Trichlorobenzene	29000	
91-20-3	Naphthalene	17000	U
106-47-8	4-Chloroaniline	17000	U
87-68-3	Hexachlorobutadiene	17000	U
59-50-7	4-Chloro-3-methylphenol	32000	
91-57-6	2-Methylnaphthalene	17000	U
77-47-4	Hexachlorocyclopentadiene	17000	U
88-06-2	2,4,6-Trichlorophenol	17000	U
95-95-4	2,4,5-Trichlorophenol	42000	U
91-58-7	2-Chloronaphthalene	17000	U
88-74-4	2-Nitroaniline	42000	U
131-11-3	Dimethylphthalate	17000	U
208-96-8	Acenaphthylene	17000	U
606-20-2	2,6-Dinitrotoluene	17000	U
99-09-2	3-Nitroaniline	42000	U
83-32-9	Acenaphthene	29000	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303968MSD

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT14MSD

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2030

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 41 decanted: (Y/N) N Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	42000	U
100-02-7	4-Nitrophenol	22000	J
132-64-9	Dibenzofuran	17000	U
121-14-2	2,4-Dinitrotoluene	23000	
84-66-2	Diethylphthalate	17000	U
7005-72-3	4-Chlorophenyl-phenylether	17000	U
86-73-7	Fluorene	17000	U
100-01-6	4-Nitroaniline	42000	U
534-52-1	4,6-Dinitro-2-methylphenol	42000	U
86-30-6	N-Nitrosodiphenylamine (1)	17000	U
101-55-3	4-Bromophenyl-phenylether	17000	U
118-74-1	Hexachlorobenzene	17000	U
87-86-5	Pentachlorophenol	50000	
85-01-8	Phenanthrene	17000	U
120-12-7	Anthracene	17000	U
86-74-8	Carbazole	17000	U
84-74-2	Di-n-butylphthalate	17000	U
206-44-0	Fluoranthene	17000	U
129-00-0	Pyrene	26000	
85-68-7	Butylbenzylphthalate	17000	U
91-94-1	3,3'-Dichlorobenzidine	17000	U
56-55-3	Benzo(a)anthracene	17000	U
218-01-9	Chrysene	17000	U
117-81-7	bis(2-Ethylhexyl)phthalate	17000	U
117-84-0	Di-n-octylphthalate	17000	U
205-99-2	Benzo(b)fluoranthene	17000	U
207-08-9	Benzo(k)fluoranthene	17000	U
50-32-8	Benzo(a)pyrene	17000	U
193-39-5	Indeno(1,2,3-cd)pyrene	17000	U
53-70-3	Dibenz(a,h)anthracene	17000	U
191-24-2	Benzo(g,h,i)perylene	17000	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303968MS

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT14MS

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2029

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 41 decanted: (Y/N) N Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	32000	
111-44-4	bis(2-Chloroethyl)ether	17000	U
95-57-8	2-Chlorophenol	41000	
541-73-1	1,3-Dichlorobenzene	17000	U
106-46-7	1,4-Dichlorobenzene	28000	
95-50-1	1,2-Dichlorobenzene	17000	U
95-48-7	2-Methylphenol	17000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	17000	U
106-44-5	4-Methylphenol	17000	U
621-64-7	N-Nitroso-di-n-propylamine	30000	
67-72-1	Hexachloroethane	17000	U
98-95-3	Nitrobenzene	17000	U
78-59-1	Isophorone	17000	U
88-75-5	2-Nitrophenol	17000	U
105-67-9	2,4-Dimethylphenol	17000	U
111-91-1	bis(2-Chloroethoxy)methane	17000	U
120-83-2	2,4-Dichlorophenol	17000	U
120-82-1	1,2,4-Trichlorobenzene	28000	
91-20-3	Naphthalene	17000	U
106-47-8	4-Chloroaniline	17000	U
87-68-3	Hexachlorobutadiene	17000	U
59-50-7	4-Chloro-3-methylphenol	19000	
91-57-6	2-Methylnaphthalene	17000	U
77-47-4	Hexachlorocyclopentadiene	17000	U
88-06-2	2,4,6-Trichlorophenol	17000	U
95-95-4	2,4,5-Trichlorophenol	42000	U
91-58-7	2-Chloronaphthalene	17000	U
88-74-4	2-Nitroaniline	42000	U
131-11-3	Dimethylphthalate	17000	U
208-96-8	Acenaphthylene	17000	U
606-20-2	2,6-Dinitrotoluene	17000	U
99-09-2	3-Nitroaniline	42000	U
83-32-9	Acenaphthene	29000	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303968MS

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT14MS

Sample wt/vol: 1.0 (g/ml) G Lab File ID: >A2029

Level: (low/med) MED Date Received: 12/01/93

% Moisture: 41 decanted: (Y/N) N Date Extracted: 12/06/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	42000	U
100-02-7	4-Nitrophenol	27000	J
132-64-9	Dibenzofuran	17000	U
121-14-2	2,4-Dinitrotoluene	22000	
84-66-2	Diethylphthalate	17000	U
7005-72-3	4-Chlorophenyl-phenylether	17000	U
86-73-7	Fluorene	17000	U
100-01-6	4-Nitroaniline	42000	U
534-52-1	4,6-Dinitro-2-methylphenol	42000	U
86-30-6	N-Nitrosodiphenylamine (1)	17000	U
101-55-3	4-Bromophenyl-phenylether	17000	U
118-74-1	Hexachlorobenzene	17000	U
87-86-5	Pentachlorophenol	45000	
85-01-8	Phenanthrene	17000	U
120-12-7	Anthracene	17000	U
86-74-8	Carbazole	17000	U
84-74-2	Di-n-butylphthalate	17000	U
206-44-0	Fluoranthene	17000	U
129-00-0	Pyrene	25000	
85-68-7	Butylbenzylphthalate	17000	U
91-94-1	3,3'-Dichlorobenzidine	17000	U
56-55-3	Benzo(a)anthracene	17000	U
218-01-9	Chrysene	17000	U
117-81-7	bis(2-Ethylhexyl)phthalate	17000	U
117-84-0	Di-n-octylphthalate	17000	U
205-99-2	Benzo(b)fluoranthene	17000	U
207-08-9	Benzo(k)fluoranthene	17000	U
50-32-8	Benzo(a)pyrene	17000	U
193-39-5	Indeno(1,2,3-cd)pyrene	17000	U
53-70-3	Dibenz(a,h)anthracene	17000	U
191-24-2	Benzo(g,h,i)perylene	17000	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303965MSD

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT11MSD

Sample wt/vol: 30.1 (g/ml) G Lab File ID: >A2023

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: 17 decanted: (Y/N) N Date Extracted: 12/03/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1500	
111-44-4	bis(2-Chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	1600	
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	920	
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	1100	
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	1000	
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	1600	
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	1200	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303965MSD

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT11MSD

Sample wt/vol: 30.1 (g/ml) G Lab File ID: >A2023

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: 17 decanted: (Y/N) N Date Extracted: 12/03/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1900	
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	1200	
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	3000	
85-01-8	Phenanthrene	92	J
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	41	BJ
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	1600	
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	170	J
218-01-9	Chrysene	190	J
117-81-7	bis(2-Ethylhexyl)phthalate	56	BJ
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	200	J
207-08-9	Benzo(k)fluoranthene	150	J
50-32-8	Benzo(a)pyrene	160	J
193-39-5	Indeno(1,2,3-cd)pyrene	110	J
53-70-3	Dibenz(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303965MS

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT11MS

Sample wt/vol: 30.1 (g/ml) G Lab File ID: >A2022

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: 17 decanted: (Y/N) N Date Extracted: 12/03/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1200	
111-44-4	bis(2-Chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	1300	
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	840	
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	930	
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	880	
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	1300	
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	1000	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303965MS

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT11MS

Sample wt/vol: 30.1 (g/ml) G Lab File ID: >A2022

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: 17 decanted: (Y/N) N Date Extracted: 12/03/93

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1500	
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	950	
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2200	
85-01-8	Phenanthrene	180	J
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	42	BJ
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	1300	
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	180	J
218-01-9	Chrysene	220	J
117-81-7	bis(2-Ethylhexyl)phthalate	47	BJ
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	210	J
207-08-9	Benzo(k)fluoranthene	170	J
50-32-8	Benzo(a)pyrene	170	J
193-39-5	Indeno(1,2,3-cd)pyrene	110	J
53-70-3	Dibenz(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

(1) - Cannot be separated from Diphenylamine

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303965MS

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ------ SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT-11

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >V1405

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: not dec. 17 Date Analyzed: 12/08/93

GC Column: PACK ID: 2 (mm) Dilution Factor: 1.0

Soil Extract Volume: ------ (ul) Soil Aliquot Volume: ------ (ul)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	12.	U
74-83-9	Bromomethane	12.	U
75-01-4	Vinyl Chloride	12.	U
75-00-3	Chloroethane	12.	U
75-09-2	Methylene Chloride	5.	JB
67-64-1	Acetone	6.	JB
75-15-0	Carbon Disulfide	12.	U
75-35-4	1,1-Dichloroethene	55.	
75-34-3	1,1-Dichloroethane	12.	U
540-59-0	1,2-Dichloroethene (total)	12.	U
67-66-3	Chloroform	12.	U
107-02-2	1,2-Dichloroethane	12.	U
78-93-3	2-Butanone	12.	U
71-55-6	1,1,1-Trichloroethane	12.	U
56-23-5	Carbon Tetrachloride	12.	U
75-27-4	Bromodichloromethane	12.	U
78-87-5	1,2-Dichloropropane	12.	U
10061-01-5	cis-1,3-Dichloropropene	12.	U
79-01-6	Trichloroethene	51.	
124-48-1	Dibromochloromethane	12.	U
79-00-5	1,1,2-Trichloroethane	12.	U
71-43-2	Benzene	54.	
10061-02-6	trans-1,3-Dichloropropene	12.	U
75-25-2	Bromoform	12.	U
108-10-1	4-Methyl-2-pentanone	12.	U
591-78-6	2-Hexanone	12.	U
127-18-4	Tetrachloroethene	12.	U
79-34-5	1,1,2,2-Tetrachloroethane	12.	U
108-88-3	Toluene	61.	
108-90-7	Chlorobenzene	55.	
100-41-4	Ethylbenzene	12.	U
100-42-5	Styrene	12.	U
133-02-7	Xylene (total)	12.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9303965MSD

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ------ SAS No.: ------ SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID: AT-11

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >V1406

Level: (low/med) LOW Date Received: 12/01/93

% Moisture: not dec.17 Date Analyzed: 12/08/93

GC Column: PACK ID: 2 (mm) Dilution Factor: 1.0

Soil Extract Volume: ------ (ul) Soil Aliquot Volume: ------ (ul)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	12.	U
74-83-9	Bromomethane	12.	U
75-01-4	Vinyl Chloride	12.	U
75-00-3	Chloroethane	12.	U
75-09-2	Methylene Chloride	5.	JB
67-64-1	Acetone	12.	U
75-15-0	Carbon Disulfide	12.	U
75-35-4	1,1-Dichloroethene	55.	
75-34-3	1,1-Dichloroethane	12.	U
540-59-0	1,2-Dichloroethene (total)	12.	U
67-66-3	Chloroform	12.	U
107-02-2	1,2-Dichloroethane	12.	U
78-93-3	2-Butanone	12.	U
71-55-6	1,1,1-Trichloroethane	12.	U
56-23-5	Carbon Tetrachloride	12.	U
75-27-4	Bromodichloromethane	12.	U
78-87-5	1,2-Dichloropropane	12.	U
10061-01-5	cis-1,3-Dichloropropene	12.	U
79-01-6	Trichloroethene	50.	
124-48-1	Dibromochloromethane	12.	U
79-00-5	1,1,2-Trichloroethane	12.	U
71-43-2	Benzene	55.	
10061-02-6	trans-1,3-Dichloropropene	12.	U
75-25-2	Bromoform	12.	U
108-10-1	4-Methyl-2-pentanone	12.	U
591-78-6	2-Hexanone	12.	U
127-18-4	Tetrachloroethene	12.	U
79-34-5	1,1,2,2-Tetrachloroethane	12.	U
108-88-3	Toluene	64.	
108-90-7	Chlorobenzene	56.	
100-41-4	Ethylbenzene	12.	U
100-42-5	Styrene	12.	U
133-02-7	Xylene (total)	12.	U

STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES
& ENVIRONMENTAL CONTROL
DIVISION OF WATER RESOURCES
89 KINGS HIGHWAY, P.O. BOX 1401
DOVER, DELAWARE 19903

TECHNICAL SERVICES SECTION

TELEPHONE (302) 739-4771

EVIDENCE CONTROL LOG

Sample No 930 397

DATE COLLECTED: 11/30/93 TIME: [illegible] SIGNATURE: Carl P. [illegible]

LOCATION: AMTRAK WRF (AT20)

DESCRIPTION: VOA's, 1 jar to metals/cyanide, 1 jar to organics

INSTRUCTIONS: TRANSFERRED TO LAB FOR ANALYSIS / Carl P. L

Transferred to: Signature Julia M. Bocchino Date 12-1-93 Time 1133
Reason/Location of Sample Received samples for log in and distribution

Transferred to: Signature [illegible] Date 12/1/93 Time 1200
Reason/Location of Sample Sample prep and for HCl + Trap extract

Transferred to: Signature [illegible] Date 12-1-93 Time 12 19
Reason/Location of Sample [illegible] samples for VOA analysis

Transferred to: Signature Carol D Mitchell Date 12-1-93 Time 12 20
Reason/Location of Sample Received samples for Pesticide/PCB
Secured in lit-[illegible] Miller #1 General Lab

Transferred to: Signature [illegible] Date 12-2-93 Time 845
Reason/Location of Sample Received sample (30) ABN analysis

Transferred to: Signature Julia M. Bocchino Date 12-2-93 Time 1105
Reason/Location of Sample Received metals/CN- (10) % moisture from TDS.

Transferred to: Signature Carol D Mitchell Date 12-2-93 Time 1230
Reason/Location of Sample Received samples for Pesticide PCB analysis Organics

STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES
& ENVIRONMENTAL CONTROL
DIVISION OF WATER RESOURCES
89 KINGS HIGHWAY, P.O. BOX 1401
DOVER, DELAWARE 19903

TECHNICAL SERVICES SECTION

TELEPHONE (302) 739-4771

EVIDENCE CONTROL LOG

Sample No. 3975

DATE COLLECTED: 11/30/93 TIME: 1438 SIGNATURE: [illegible]

LOCATION: AMTRAK WRF (AT21)

DESCRIPTION: VOA's 1 jar to metals/cyanides, 1 jar to organics

INSTRUCTIONS: TRANSFERRED TO LAB FOR ANALYSIS/Cal [illegible]

Transferred to: Signature Julia M. Berchbord Date 12-1-93 Time 1133
Reason/Location of Sample Received samples for logging and distribution.

Transferred to: Signature [illegible] Date 12/1/93 Time 1200
Reason/Location of Sample Sample prepared for digestion & trace metals

Transferred to: Signature [illegible] Date 12-1-93 Time [illegible]
Reason/Location of Sample [illegible] 1200 [illegible]

Transferred to: Signature Carol M Mitchell Date 12-1-93 Time 1220
Reason/Location of Sample Received samples for Pesticides/PCB
Delivered in [illegible] to General Lab

Transferred to: Signature M A Zimmerman Date 12-2-93 Time 845
Reason/Location of Sample Received samples for ABN analysis

Transferred to: Signature Julia M. Berchbord Date 12-2-93 Time 1105
Reason/Location of Sample Received metals/CN- for analysis from TMS

Transferred to: Signature Carol M Mitchell 12-2-93 Time 1230
Reason/Location of Sample Received samples for Pesticide/PCB analysis Organics

STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES
& ENVIRONMENTAL CONTROL
DIVISION OF WATER RESOURCES
89 KINGS HIGHWAY, P.O. BOX 1401
DOVER, DELAWARE 19903

TECHNICAL SERVICES SECTION

TELEPHONE (302) 736-4771

EVIDENCE CONTROL LOG

Sample No. 930 397

DATE COLLECTED: 11/30/93 TIME: 1145 SIGNATURE: [illegible]

LOCATION: ATTEAK WLF (ATT19)

DESCRIPTION: VOA's 1 jar to metals / semi-vol. 1 jar to organics

INSTRUCTIONS: TRANSFERRED TO J.L.A.B. FOR ANALYSIS / CARL

Transferred to: Signature Julia M. Birchwood Date 12-1-93 Time 1131
Reason/Location of Sample Received samples for (gas in) and distribution

Transferred to: Signature [illegible] Date 12/1/93 Time 1200
Reason/Location of Sample Sample prep and [illegible] for [illegible] metal

Transferred to: Signature [illegible] Date 12-1-93 Time 12:18
Reason/Location of Sample [illegible] samples for VOA analysis

Transferred to: Signature Carol Mitchell Date 12-1-93 Time 1220
Reason/Location of Sample Received samples for Pesticides/PCB
Secured in lab-use cabinet #2 (General Lab)

Transferred to: Signature M. J. Zimmerman Date 12-2-93 Time 845
Reason/Location of Sample Received samples for ABN analysis

Transferred to: Signature Julia M. Birchwood Date 12-2-93 Time 1105
Reason/Location of Sample Received metals/CN-jar for % moisture
for TDS

Transferred to: Signature Carol Mitchell 12-2-93 Time 1230
Reason/Location of Sample Received samples for Pesticide
PCB analysis Organics

PAGE 1 OF 1 (1)

EPA SAMPLE SHIPPING LOG

DE/S1

(REQUIRED FOR ALL SAMPLES SENT THROUGH THE CONTRACT LAB PROGRAM)

PROJECT SITE NAME: AMTRAK WLF INSPECTION; EPA PROJ. OFFICER: Mike Giumanna
RAS NO. DE42 ; SAS NO. _____ ; TASK OR SET NO. _____
PROJECT SITE LEADER: _____ ; PHONE NO. ( )
PROJECT SAMPLE COORDINATOR: H. OTTO ; PHONE NO. ( )

SAS REQUEST (DETAILS REQUIRED) (10)

RECEIVED APR 25

QC SAMPLE INFORMATION AND/OR COMMENTS	CONC. (LOW/ MED./ HIGH)	SAMPLE PHASE (AQ/ SOL.)	TYPE OF REQUEST (ORG. DIO. OR INOR. SAS)	EPA SAMPLE NO.	ORGANICS OR INORGANICS: LAB NAME	DATE SHIPPED	DATA RECEIVED (XX-OUT ITEMS NOT REQUESTED): VOA	BNA	PEST	TCDD	METALS	CN	SAS REQUEST LAB NAME	SAS REQUEST (ITEMIZE)	DATE SHIPPED	DATA REC'D.
(2)	(3)	(4)	(5)	(6)	(7)	(8)	←			(9)		→	(11)	(12)	(13)	
	L	SOIL	ORG	9303965	DE023	12/1/93	✓	✓	✓							
				9303966			✓	✓	✓							
				9303924			✓	✓	✓							
				9303966				✓	✓							
				9303967				✓	✓							
LAB DUP				9303968				✓	✓							
				9303970				✓	✓							
				9303971				✓	✓							
				9303972				✓	✓							
				9303973				✓	✓							
				9303975				✓	✓							
								MC	IL	4/25/94		JJ				

FINAL SAMPLING: YES ☐ ; NO ☐ ; FINAL SHIPPING DATE: (14)

REVISION

STATE OF DELAW.
DEPARTMENT OF NATURAL
AND ENVIRONMENTAL C
DIVISION OF AIR AND WASTE
715 GRANTHAM LAN
NEW CASTLE, DELAWARE 19

WASTE MANAGEMENT SECTION

Janie –
When you're finished with these please place in RAS request file under site name AMTRAK-WRF or give them to Peggy to make a file for the RAS ~~file~~ request file. Thanks,
Judy

January 18, 1994

Ms. Judy Snyder - ESAT
c/o Ms. Annette Lage
U.S. EPA, Region III
QA Branch
201 Defense Highway
Annapolis, MD 21041

I don't think we've gotten the data on the samples that were re-sampled. The "R" means resampled.

Subject; Amtrak Wilmington Refueling Facility

Dear Ms. Snyder:

As we discussed on the telephone two weeks ago, enclosed are copies of the QA/QC information for the Amtrak Wilmington Refueling Facility sampling events. The trip and equipment blanks, and laboratory and field duplicates are indicated in red.

I apologize for the delay in getting these materials to you. Due to equipment problems in the lab, the holding time for Volatile Organic Analysis was exceeded on most of the soil and sediment samples; therefore, they were resampled. The Request for Laboratory Analysis dated November 30, 1993, was for the original sampling event. The sheet dated January 13, 1994, was for resampling of the majority of the soil and sediment VOA's. For the purpose of continuity the original Sample ID (AT-?) was used for each location, followed by the letter "R" (AT-?R).

I hope this is the material you require for data validation. If you need any additional information, please call me at (302) 323-4540.

Sincerely,

Lawrence J. Jones
Environmental Scientist
Superfund Branch

LJJ:dw
LJJ94002.wp

Enclosure

Technical Services Section — Division of Water Resources
Department of Natural Resources and Environmental Control
89 Kings Hwy. P.O. Box 1401 Dover DE 19903 (302) 736-4771

#3497
DEC 6 ----

STATE OF DELAWARE
DNREC SUPER FUND BRANCH

REQUEST FOR LABORATORY ANALYSIS

L / J / JOH
C / P / PAU
P / W / WILL
K / / OLIN
Z / E / HAWE

Date Sampled: 11/30/93

Sampled By:

Project Name: AMTRAK-WRF

Cost Center: CERCLA/DAW

Project Location: WILM, DE

Comments: ALL SAMPLES STORED/SHIPPED ON ICE

Log No.	Sample ID	Type	H/L	pH	spec cond	Other
9303965	AT11	SO				
3966	AT12	SO				
3967	AT13 FIELD DUPL. AT12	SO				
3968	AT14 LAB DUPLICATE	SO				
3969	AT15	SE				
3970	AT16	SE				
3971	AT17	SE				
3972	AT18	SE				
3973	AT19	SE				
3974	AT20	SE				
3975	AT21	SE				

Sample Type: Soil (SO) Sediment (SE) Water (WA) Drum (DM) Tank (TK) Air (A

Date & Time Accepted 12/1/93 11:25

Data Approved By: _____
Env. Program Mgr.

Accepted By: Julie M. Beachboard

Released By: _____
Env. Program Admin.

RCRAREQST.FRM:cls:07-25-90

Date: _____

SDG NARRATIVE
PESTICIDE/AROCLOR ANALYSIS
SDG No. 9303965

1. The soil samples for Pesticide/Aroclor analysis were prepared according to the methods described in the USEPA Contract Laboratory Program, Statement of Work for Organic Analysis, Multi-Media, Multi-Concentration, Document Number OLM01.0 including revision OLM01.8. The samples and related quality control samples (i.e. method blanks, matrix spike, matrix spike duplicate) were extracted using sonication extraction and K-D concentration followed by nitrogen evaporation. Two method blanks were prepared, PBLK3 and PBLK4. PBLK3MS is a reagent blank sample to which the matrix spike solution was added.

2. The soil samples were very oily and difficult to extract. In anticipation of analytical problems, the samples were also extracted using the medium level procedure outlined in the 2/88 SOW. A medium level extract is effectively a 30 fold dilution of the low level extract. The spiking solutions used in paragraph 1 were used for the medium level preparation. PBLK1 is the associated method blank. PBLK1MS is a reagent blank sample to which the matrix spike solution was added.

3. All sample extracts were carried through the specified GPC and Florisil cartridge cleanup procedures. The Waters GPC system employed consists of a pump, a detector with 254 nm UV source and semi-preparative cell, an autosampler, a Foxy fraction collector, and an HP3392A integrator. The column is Waters Envirogel packed in stainless steel. Two columns are connected in series in order to separate the calibration solution. The columns are 150 mm and 300 mm long with a 19 mm i.d. The system is calibrated using the solution and protocols outlined in the 3/90 SOW.

4. Prior to GPC cleanup, the methylene chloride sample extracts were concentrated to 4 mL. The maximum load volume of the autosampler is 2 mL, such that half of the total 4 mL extract was cleaned by GPC. Fractions were collected based on the calibration solution separation as per the 3/90 SOW. Post GPC cleanup, the collected fraction was exchanged with hexane and concentrated to a final volume of 5 mL. This is the final volume reported on the FORM 1Ds. The CRQLs are adjusted to reflect that only half the extract was cleaned by GPC.

5. The laboratory inadvertently used a GPC Pesticide Matrix Spike Check Solution which was two times stronger than that specified in the SOW. In addition, the laboratory concentrated the resulting eluate to 5 mL instead of the required 10 mL. Thus our resulting extract was four times more concentrated than specified by the SOW. Corrective action has been taken to ensure that this does not happen again. Please note that the results listed on the integration

report reflect the total "ug" in a 10 mL extract and should be half the value since the final concentrated volume was 5 mL. In general, the recoveries are within the acceptance limits. In GPC calibration check P6112, endrin recovery is 75% and outside the limit. This is most likely due to breakdown during GC Analysis and not to poor GPC recovery. If the breakdown products (endrin aldehyde and endrin ketone) are included, the recovery is 83%. The laboratory should have repeated the calibration check and made sure that all recoveries were within the acceptance ranges prior to sample cleanup.

6. The sample and quality control extracts were analyzed and reported according to the methods described in the USEPA Contract Laboratory Program, Statement of Work for Organic Analysis, Multi-Media, Multi-Concentration, Document Number OLM01.0 including revisions through OLM01.8. The medium and low level extracts were analyzed in two separate sequences. All injections were unique to a column, thus all standards and instrument blanks are given unique names and effectively there are four sequences, two for each column. In general the low level sample chromatograms are very active and concentrated. Dilutions of the low level extracts were also analyzed but not included in the data package because only one dilution may be reported per sample. The low level dilutions are shown on FORM 8Ds as "XXXXXDL2." With the exception of sample 9303969, the reported dilutions are the medium level analyses.

7. All samples and quality control extracts were analyzed on the DB608 column to confirm target compounds tentatively identified on the DB1701 column. On the integration report, a line drawn through a compound indicates the compound was not within the retention time window or confirmed. Integration report values reflect total ug in the 10 mL extract. In general the chromatograms are very active and difficult to interpret especially since the samples contain PCBs. Thus no estimated ("J") values are reported. If the calculated result was less than than CRQL, the result reported is the CRQL qualified with a "U."

8. Lindane, heptachlor and 4,4'-DDT were not detected in the low level matrix spike extracts. This is attributed to matrix interference and not to laboratory performance since the non-spiked sample was very active and the blank spike recoveries are all within the QC advisory limits. Matrix spikes were also performed for the medium level extraction. With the exception of lindane, all values are within the advisory limits. Again the blank spike recoveries are within the advisory limits.

9. Many surrogate recoveries are outside the advisory limits. The recoveries of both surrogates in all blanks are well within the advisory limits therefore the poor recovery of decachlorobiphenyl in certain samples is attributed to matrix effects.

SDG Narrative
Volatiles Analysis
SDG No 9303965

1. Followed analytical protocol from USEPA CLP SOW Document number OLM01.8 for low level soils.

2. Acetone and 2-Butanone are contaminant analytes appearing at low levels in the samples. As a result, the abundance of the base peak ion in the mass spectrum is low and thus the normalized spectrum often displays background ions with significant relative abundances. This is especially true for acetone.

3. The surrogate 1,2 Dichloroethane-d_4 and the TCL compound 2-Butanone co-elute and as a consequence the reported spectrum of one compound usually contains some of the more intense ions from the other. Specifically, 1,2-Dichloroethane-d_4 spectrum may contain ion 43 from 2-Butanone and 2-Butanone spectrum (and the spectrum of the undeuterated 1,2-Dichloroethane when present) will usually contain the ions 51, 65, 67 and 102 from 1,2-Dichloroethane-d_4.

4. Calibration standards used in these analyses were purchased as mixed solutions in methanol. The concentrations used for initial and continuing calibrations are as specified in the above-mentioned SOW except for the isomeric pairs cis- and trans-1,3-Dichloropropene. These compounds are usually supplied in a known ratio which can vary with each lot. In this SDG the cis/trans ratio was 53:47 for all VOA standards used. Therefore the concentration of the cis- and trans-isomers in the 100 ug/L standard was 106 ug/L and 94 ug/L, respectively; in the 50 ug/L daily calibration standard it was 53 ug/L and 47 ug/L, respectively, and so on.

5. The nature of the Amtrak-WRF soil/samples made it very difficult to perform volatiles analyses. The samples contained a large amount of purgeable petroleum hydrocarbons which contaminated the purge and trap instrument and GC column requiring time consuming cleanup efforts.

   Upon receipt of the Amtrak-WRF water and soil/sediment samples, the water samples were analyzed first. (The water samples were reported separately.) Analysis of the soil/sediment samples was then attempted at low level. The cleanest samples, as judged from the semivolatiles

extraction screening results, were analyzed first and are reported here. However, analysis of the dirtier samples contaminated the purge and trap and GC column.

Mr. Robert Schulte, Superfund Branch of Delaware's Division of Air and Waste Management (DAWM) was consulted and he recommended that the samples be analyzed by medium level. The samples were extracted and analyzed but the initial analyses did not satisfy QC requirements and showed signs of further contaminating the analytical system. By this time the 14 day sample holding time had expired. Also, another project comprised of soil and water samples had been received from DAWM and was awaiting analysis. Rather than risk damaging the analytical system again it was decided to suspend analyses on the remaining samples. The samples not reported here will be re-sampled, analyzed and reported in another SDG as per instructions from Karl Kalbacher, DAWM Project Director.

6. A problem with the volatiles analytical data system occurred on December 7, 1993 which necessitated rebooting the computer. When this was done the time was incorrectly entered as AM rather than PM. This problem was discovered on December 13, 1993 at approximately 9 AM and corrected. However, during this period from December 7, 1993 to December 13, 1993 the data system clock was incorrectly reporting time as 12 hours earlier than the actual time. The volatiles data system is separate from the one used for semivolatiles and pesticides/PCBs and consequently only the volatiles were affected.

7. The soil samples reported in this SDG were sampled and delivered to the laboratory along with water samples. Only one trip blank was submitted. It was analyzed and reported along with the water samples in SDG No. 9303976.

resolution. Both peaks have essentially identical mass spectra and they are most likely chemical isomers. When the vendor was consulted he admitted being aware of the problem and said he was trying to find an alternative supplier for this compound. Our approach to handling this dilemma was to manually integrate both peaks since the purchased solution concentration was originally calculated on the combined weight of both compounds. Consequently this compound was manually integrated in the initial and continuing calibration standards. Manual integration hardcopy have been supplied with each quantitation report. In addition, this compound was subjected to closer scrutiny whenever it was detected. It did not require manual integration in any sample.

4-Chloro-3-methylphenol - Routine, automated peak identification criteria using ion ratios failed to identify this analyte in the 120ng initial calibration standard (SSTD120). The ±20% target ion ratio range for peak identification was 76% - 116% for m/z 107 relative to m/z 142. The ion ratio determined in the peak apex scan was 75.72% - just outside the arbitrarily assigned range. Consequently, the peak was manually integrated. Other peak identification criteria (e.g., additional ion ratios and retention time) were satisfied.

4. Manual integrations in samples:

4-Nitrophenol - This matrix spike compound eluted in the midst of heavy hydrocarbon sample background noise in sample 9303968MS. The closely eluting compounds in the sample contained m/z 109 (4-Nitrophenol quant ion) at higher absolute abundance than 4-Nitrophenol. This adversely affected the ability of the data system to use ion ratios to identify the compound and made manual integration necessary.

Benzo(b and k)fluoranthene - These closely eluting isomers required manual integration in sample 9303975 because one was merely a peak shoulder of the other and the automated integration routine could not distinguish them as separate compounds at the low concentrations seen in this sample.

5. All samples were originally extracted at low level and screened by GC/FID. Screening results indicated the following samples should be extracted at medium level: 9303966, 9303967, 9303968, 9303968MS, 9303968MSD, 9303970, 9303971, 9303972 and 9303975. Since the sample used for MS and MSD required a medium level extraction, another sample, MS and MSD was extracted at low level.

6. Poor surrogate recoveries of sample 9303966 made a re-extraction necessary. Surrogate recoveries were within limits for the re-extraction and thus the re-extraction analysis is being reported as the original. This sample was black in color.

7. Several samples emitted a strong oily smell reminiscent of diesel fuel. This was especially apparent in samples 9303966, 9303967 and 9303970-9303975. Most of these samples contained large amounts of hydrocarbons which when chromatographed appeared as a large, broad hump in the middle of the chromatogram. TCL analyte spectra often exhibited evidence of alkanes.

8. Sample 9303975: Many of the TIC library search results identified the top hit as a substituted Indene. The TIC spectra were not unique enough to make definitive identifications and consequently the TICs were reported as unknown aromatic.

9. A new Heat Systems Model XL2020 sonicator was recently installed. The Laboratory requested and received approval from Robert Schulte, DAWM, Superfund Branch to use this sonicator for soil extractions. It was used for the low level extractions in this SDG.

10. Sample pH was measured with wide range pH paper rather than an electrode and pH meter. All samples were found to be either pH 7 or pH 8.

11. The percent recovery of MS/MSD compounds was poor in the medium level extraction of sample 9303968MS and 9303968MSD. Eleven of the twenty-two compounds were outside percent recovery advisory limits. In contrast, the low level extraction percent recovery was much better with none outside the limits. The medium level extraction and analysis displayed good precision however, with relative percent difference (RPD) values within limits for all but one compound. This sample contained a large amount of hydrocarbon material as evidenced by the TICs and the unresolved complex mixture of compounds in the chromatogram.

SDG NARRATIVE

Laboratory Name: State of Delaware, Department of Natural Resources and Environmental Control, Division of Water Resources, Technical Services Section

Case Number: NONE

Sample Numbers

Initial Analyses:

9303965	VOA, SV, PEST	9303971	SV, PEST
9303966	SV, PEST	9303972	SV, PEST
9303967	SV, PEST	9303973	SV, PEST
9303968	SV, PEST	9303974	VOA, SV, PEST
9303969	VOA, SV, PEST	9303975	SV, PEST
9303970	SV, PEST		

Reanalyses: NONE

Sample Delivery Group Number: 9303965

Contract Number: DNREC:DAWM

I certify that this data package is in compliance with the terms and conditions of the Statement of Work, both technically and for completeness, for other than the conditions detailed below. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager, as verified by the following signature.

Harry W. Otto, Ph.D.
Env. Program Administrator

APR 15 1994
Date

SDG Narrative
Semivolatiles Analysis
SDG No 9303965

1. Followed analytical protocol from USEPA CLP SOW Document Number OLM01.8 for low level and medium level soils.

2. The soil extracts were subjected to GPC cleanup as follows:

WATERS GPC SYSTEM

Column:	Waters Envirogel packed in stainless steel and methylene chloride. In order to resolve the calibration solution, two columns are connected in series, a 150 mm x 19 mm i.d. and a 300 mm x 19 mm i.d.
Pump:	Model 510 HPLC pump. Flowrate is set at 5.5 mL/min.
Detector:	Model 440 absorbance detector with a 254 nm UV source and an 8 uL semi-preparative flowcell.
Injector:	WISP model 712 autosampler with 2 mL load volume.
Fraction Collector:	ISCO Foxy.
Integrator:	HP3392A

The system was calibrated as specified in the CLP protocol using a 2 mL injection. Since the maximum load volume of our GPC system is 2 mL the soil extracts were brought to a total volume of 4 mL prior to GPC cleanup. In this manner, 50% of the total extract was subjected to GPC cleanup as required in the CLP protocol. The GPC-cleaned extract was brought to a final volume of 0.5 mL for GC/MS analysis unless stated otherwise below.

3. Manual integrations in Standards:

2,2'-oxybis(1-Chloropropane) - The vendor from which we purchase the mixed standard solution containing this compound refers to it by the nomenclature used in the 2/88 CLP Statement of Work, namely bis(2-Chloroisopropyl)ether. When chromatographed on a capillary column two peaks for this compound are discernible with approximately 50%

EPA SAMPLE NO.

9303975

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P6550 Date(s) Analyzed: 1/14/94 1/15/94

Instrument ID (1): GC02 Instrument ID (2): GC01

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	24.86	24.75	24.89	2800.000		
Aroclor-1260	2	28.87	28.79	28.93	3400.000		
	3	29.54	29.45	29.59	4300.000		
COLUMN 1	4	31.74	31.67	31.81	4700.000		
	5	34.23	34.16	34.30	4300.000	3900.000	
	1	22.04	21.90	22.04	4400.000		
	2	26.56	26.47	26.61	4900.000		
	3	28.52	28.44	28.58	5400.000		
COLUMN 2	4	30.87	30.80	30.94	6000.000		
	5	35.03	34.96	35.10	4500.000	5000.000	28.2
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

FORM X PEST-2 3/90

001019

EPA SAMPLE NO.

9303975DL

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P5979 Date(s) Analyzed:12/30/93 12/31/93

Instrument ID (1): GC01 Instrument ID (2): GC02

GC Column (1): DB1701 ID: 0.53 (mm) GC Column (2): DB608 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1260 COLUMN 1	1	25.06	25.02	25.16	46000.000		
	2	27.17	27.14	27.28	28000.000		
	3	28.82	28.77	28.91	18000.000		
	4	31.19	31.14	31.28	22000.000		
	5	35.36	35.31	35.45	15000.000	26000.000	
COLUMN 2	1	26.69	26.65	26.79	16000.000		
	2	27.19	27.14	27.28	22000.000		
	3	28.62	28.57	28.71	14000.000		
	4	31.51	31.45	31.59	26000.000		
	5	33.94	33.89	34.03	15000.000	19000.000	36.8
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

FORM X PEST-2 3/90

EPA SAMPLE NO.

9303972

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P6557 Date(s) Analyzed: 1/15/94 1/16/94

Instrument ID (1): GC02 Instrument ID (2): GC01

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254 COLUMN 1	1	17.02	16.95	17.09	840.000		
	2	19.91	19.87	20.01	5400.000		
	3	22.64	22.60	22.74	2100.000		
	4	23.49	23.45	23.59	7000.000		
	5	24.09	24.04	24.18	6700.000	4400.000	
COLUMN 2	1	0.00	12.09	12.23	0.000		
	2	13.54	13.42	13.56	2200.000		
	3	18.89	18.82	18.96	1800.000		
	4	21.12	21.07	21.21	1900.000		
	5	23.31	23.25	23.39	1600.000	1900.000	131.6
Aroclor-1260 COLUMN 1	1	24.81	24.75	24.89	5800.000		
	2	28.84	28.79	28.93	8800.000		
	3	29.51	29.45	29.59	8700.000		
	4	31.72	31.67	31.81	9900.000		
	5	34.21	34.16	34.30	9400.000	8500.000	
COLUMN 2	1	21.97	21.90	22.04	7400.000		
	2	26.52	26.47	26.61	10000.000		
	3	28.49	28.44	28.58	11000.000		
	4	30.84	30.80	30.94	12000.000		
	5	35.01	34.96	35.10	9000.000	9900.000	16.5
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

FORM X PEST-2 3/90

EPA SAMPLE NO.

9303974

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P6549 Date(s) Analyzed: 1/14/94 1/15/94

Instrument ID (1): GC02 Instrument ID (2): GC01

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1260 COLUMN 1	1	24.82	24.75	24.89	2800.000		
	2	28.86	28.79	28.93	3900.000		
	3	29.52	29.45	29.59	4400.000		
	4	31.72	31.67	31.81	4600.000		
	5	34.21	34.16	34.30	4600.000	4100.000	
COLUMN 2	1	21.99	21.90	22.04	5300.000		
	2	26.54	26.47	26.61	7000.000		
	3	28.51	28.44	28.58	5600.000		
	4	30.86	30.80	30.94	6200.000		
	5	34.99	34.96	35.10	5900.000	6000.000	46.3
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

FORM X PEST-2 3/90

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

9303970

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P6556 Date(s) Analyzed: 1/15/94 1/16/94

Instrument ID (1): GC02 Instrument ID (2): GC01

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254 COLUMN 1	1	17.06	16.95	17.09	710.000		
	2	19.94	19.87	20.01	1600.000		
	3	22.67	22.60	22.74	2800.000		
	4	23.51	23.45	23.59	4100.000		
	5	24.11	24.04	24.18	3200.000	2500.000	
COLUMN 2	1	0.00	12.09	12.23	0.000		
	2	13.54	13.42	13.56	830.000		
	3	18.92	18.82	18.96	6700.000		
	4	21.16	21.07	21.21	5400.000		
	5	23.32	23.25	23.39	2200.000	3800.000	52.0
Aroclor-1260 COLUMN 1	1	24.81	24.75	24.89	7000.000		
	2	28.84	28.79	28.93	9000.000		
	3	29.51	29.45	29.59	9600.000		
	4	31.72	31.67	31.81	11000.000		
	5	34.21	34.16	34.30	10000.000	9300.000	
COLUMN 2	1	21.99	21.90	22.04	9100.000		
	2	26.52	26.47	26.61	11000.000		
	3	28.49	28.44	28.58	12000.000		
	4	30.86	30.80	30.94	13000.000		
	5	35.01	34.96	35.10	10000.000	11000.000	18.3
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

FORM X PEST-2 3/90

001011

EPA SAMPLE NO.

9303971DL

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P5981 Date(s) Analyzed:12/30/93 12/31/93

Instrument ID (1): GC01 Instrument ID (2): GC02

GC Column (1): DB1701 ID: 0.53 (mm) GC Column (2): DB608 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1260 COLUMN 1	1	25.04	25.02	25.16	22000.000		
	2	27.17	27.14	27.28	6900.000		
	3	28.84	28.77	28.91	2900.000		
	4	31.19	31.14	31.28	5600.000		
	5	35.34	35.31	35.45	4200.000	8300.000	
COLUMN 2	1	0.00	26.65	26.79	0.000		
	2	27.16	27.14	27.28	5000.000		
	3	28.62	28.57	28.71	1600.000		
	4	31.47	31.45	31.59	5800.000		
	5	33.94	33.89	34.03	1600.000	3500.000	137.1
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

FORM X PEST-2 3/90

001004
EPA SAMPLE NO.

9303968

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P6558 Date(s) Analyzed: 1/15/94 1/16/94

Instrument ID (1): GC02 Instrument ID (2): GC01

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1260 COLUMN 1	1	24.81	24.75	24.89	1100.000		
	2	28.84	28.79	28.93	1000.000		
	3	29.51	29.45	29.59	2000.000		
	4	31.71	31.67	31.81	2800.000		
	5	34.21	34.16	34.30	2300.000	1800.000	
COLUMN 2	1	21.99	21.90	22.04	1800.000		
	2	26.52	26.47	26.61	4400.000		
	3	28.49	28.44	28.58	2100.000		
	4	30.84	30.80	30.94	2500.000		
	5	34.99	34.96	35.10	2800.000	2700.000	50.0
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

FORM X PEST-2 3/90

001005

EPA SAMPLE NO.

9303968DL

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P5976 Date(s) Analyzed:12/30/93 12/30/93

Instrument ID (1): GC01 Instrument ID (2): GC02

GC Column (1): DB1701 ID: 0.53 (mm) GC Column (2): DB608 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1260 COLUMN 1	1	25.06	25.02	25.16	18000.000		
	2	27.16	27.14	27.28	17000.000		
	3	28.82	28.77	28.91	7600.000		
	4	31.19	31.14	31.28	9100.000		
	5	35.33	35.31	35.45	8800.000	12000.000	
COLUMN 2	1	26.71	26.65	26.79	4700.000		
	2	27.17	27.14	27.28	5800.000		
	3	28.62	28.57	28.71	3800.000		
	4	31.49	31.45	31.59	15000.000		
	5	33.94	33.89	34.03	10000.000	7900.000	51.9
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

FORM X PEST-2 3/90

EPA SAMPLE NO.

9303975

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P6550 Date(s) Analyzed: 1/14/94 1/15/94

Instrument ID (1): GC02 Instrument ID (2): GC01

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDE	1	22.84	22.71	22.85	10.000	
	2	19.17	19.05	19.19	260.000	2500.0
4,4'-DDD	1	25.57	25.49	25.63	28.000	
	2	24.27	24.23	24.37	540.000	1828.6
alpha-Chlordane	1	21.39	21.30	21.44	21.000	
	2	18.49	18.37	18.51	7.600	176.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1 3/90

000996

EPA SAMPLE NO.

9303975DL

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P5979 Date(s) Analyzed:12/30/93 12/31/93

Instrument ID (1): GC01 Instrument ID (2): GC02

GC Column (1): DB1701 ID: 0.53 (mm) GC Column (2): DB608 ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Endrin	1	21.67	21.55	21.69	490.000	
	2	24.59	24.52	24.66	770.000	57.1
Endrin aldehyde	1	27.72	27.59	27.73	600.000	
	2	27.19	27.10	27.24	810.000	35.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1 3/90

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

9303973

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P6548 Date(s) Analyzed: 1/15/94 1/14/94

Instrument ID (1): GC02 Instrument ID (2): GC01

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Endrin ketone	1	31.74	31.64	31.78	65.000	
	2	32.16	32.02	32.16	12.000	441.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1 3/90

EPA SAMPLE NO.

9303974

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P6549 Date(s) Analyzed: 1/14/94 1/15/94

Instrument ID (1): GC02 Instrument ID (2): GC01

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Endrin	1	24.82	24.74	24.88	230.000	
	2	21.36	21.22	21.36	110.000	109.1
4,4'-DDD	1	25.52	25.49	25.63	22.000	
	2	24.24	24.23	24.37	430.000	1854.5
alpha-Chlordane	1	21.34	21.30	21.44	12.000	
	2	18.42	18.37	18.51	11.000	9.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

000991

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

9303971DL

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P5981 Date(s) Analyzed:12/30/93 12/31/93

Instrument ID (1): GC01 Instrument ID (2): GC02

GC Column (1): DB1701 ID: 0.53 (mm) GC Column (2): DB608 ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Endosulfan sulfate	1	29.82	29.74	29.88	570.000	
	2	27.72	27.71	27.85	260.000	119.2
Endrin aldehyde	1	27.72	27.59	27.73	560.000	
	2	27.16	27.10	27.24	180.000	211.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1 3/90

EPA SAMPLE NO.

9303972

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P6557 Date(s) Analyzed: 1/15/94 1/16/94

Instrument ID (1): GC02 Instrument ID (2): GC01

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Dieldrin	1	22.97	22.92	23.06	62.000	
	2	19.96	19.95	20.09	120.000	93.5
gamma-Chlordane	1	20.61	20.47	20.61	140.000	
	2	18.06	18.04	18.18	33.000	324.2
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1 3/90

000989

EPA SAMPLE NO.

9303970

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P6556 Date(s) Analyzed: 1/15/94 1/16/94

Instrument ID (1): GC02 Instrument ID (2): GC01

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Dieldrin	1	22.99	22.92	23.06	68.000	
	2	19.97	19.95	20.09	100.000	47.1
alpha-Chlordane	1	21.32	21.30	21.44	54.000	
	2	18.37	18.37	18.51	55.000	1.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1 3/90

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

9303971

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P6552 Date(s) Analyzed: 1/14/94 1/16/94

Instrument ID (1): GC02 Instrument ID (2): GC01

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
alpha-Chlordane	1	21.31	21.30	21.44	4.700	
	2	18.41	18.37	18.51	7.800	66.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1 3/90

000987

EPA SAMPLE NO.

9303969

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P6551 Date(s) Analyzed: 1/14/94 1/15/94

Instrument ID (1): GC02 Instrument ID (2): GC01

GC Column (1): DB1701 ID: 0.53 (mm) GC Column (2): DB608 ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Dieldrin	1	22.97	22.92	23.06	27.000	
	2	19.96	19.95	20.09	64.000	137.0
alpha-Chlordane	1	21.34	21.30	21.44	60.000	
	2	18.42	18.37	18.51	96.000	60.0
gamma-Chlordane	1	20.54	20.47	20.61	92.000	
	2	18.06	18.04	18.18	51.000	80.4
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1 3/90

000986

EPA SAMPLE NO.

9303968DL

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P5976 Date(s) Analyzed:12/30/93 12/30/93

Instrument ID (1): GC01 Instrument ID (2): GC02

GC Column (1): DB1701 ID: 0.53 (mm) GC Column (2): DB608 ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Endrin	1	21.69	21.55	21.69	220.000	
	2	24.59	24.52	24.66	330.000	50.0
Endrin aldehyde	1	27.72	27.59	27.73	290.000	
	2	27.17	27.10	27.24	210.000	38.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1 3/90

000985

EPA SAMPLE NO.

9303968

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Lab Name:DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Lab Sample ID: P6558 Date(s) Analyzed: 1/15/94 1/16/94

Instrument ID (1): GC02 Instrument ID (2): GC01

GC Column (1): DB1701 ID: 0.53 (mm) GC Column (2): DB608 ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Endrin	1	24.81	24.74	24.88	87.000	
	2	21.36	21.22	21.36	52.000	67.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

3/90

Appendix D

Support Documentation

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ------ SAS No.: ------ SDG No.: 9303965

Instrument ID: 70 3 Calibration Date(s): 12/03/93 --/--/--

Heated Purge: (Y/N) Y Calibration Times: 12:41 15:47

GC Column: PACK ID: 2 (mm)

LAB FILE ID: RRF10 =>J0175 RRF20 =>J0176
RRF50 =>J0181 RRF100=>J0177 RRF200=>J0178

COMPOUND		RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Chloromethane		.796	.848	1.017	.799	.811	.854	10.9
Bromomethane	*	1.315	1.520	1.545	1.155	1.053	1.318	16.5*
Vinyl Chloride	*	1.107	1.323	1.315	1.239	1.175	1.232	7.5*
Chloroethane		.729	.879	.912	.831	.894	.849	8.7
Methylene Chloride		1.950	1.927	1.799	1.670	1.800	1.829	6.2
Acetone		.601	.415	.323	.342	.360	.408	27.7
Carbon Disulfide		4.255	4.938	4.924	4.848	5.334	4.860	8.0
1,1-Dichloroethene	*	1.340	1.532	1.547	1.528	1.672	1.524	7.8*
1,1-Dichloroethane	*	3.259	3.726	3.712	3.556	3.878	3.626	6.5*
1,2-Dichloroethene (total)		1.566	1.759	1.764	1.657	1.785	1.706	5.4
Chloroform	*	4.050	4.467	4.405	4.241	4.485	4.330	4.2*
1,2-Dichloroethane	*	2.963	3.212	3.117	3.174	3.290	3.151	3.9*
2-Butanone		.609	.605	.480	.537	.586	.563	9.7
1,1,1-Trichloroethane	*	3.245	3.532	3.715	3.555	3.840	3.577	6.3*
Carbon Tetrachloride	*	2.685	3.138	3.238	3.108	3.350	3.104	8.1*
Bromodichloromethane	*	3.946	4.324	4.414	4.324	4.536	4.309	5.1*
1,2-Dichloropropane		.517	.557	.529	.551	.587	.548	4.9
cis-1,3-Dichloropropene	*	.830	.846	.816	.875	.941	.862	5.8*
Trichloroethene	*	.499	.534	.509	.541	.550	.526	4.2*
Dibromochloromethane	*	.844	.888	.789	.887	.925	.867	6.0*
1,1,2-Trichloroethane	*	.479	.461	.398	.446	.455	.448	6.8*
Benzene	*	1.039	1.122	1.080	1.119	1.186	1.109	4.9*
trans-1,3-Dichloropropene	*	.770	.784	.715	.786	.812	.773	4.6*
Bromoform	*	.568	.545	.468	.584	.606	.554	9.6*
4-Methyl-2-pentanone		.572	.512	.385	.505	.516	.498	13.8
2-Hexanone		.401	.350	.266	.339	.356	.342	14.2
Tetrachloroethene	*	.517	.567	.544	.531	.558	.543	3.7*
1,1,2,2-Tetrachloroethane	*	.943	.867	.759	.824	.861	.851	7.9*
Toluene	*	1.397	1.503	1.507	1.436	1.516	1.472	3.6*
Chlorobenzene	*	1.117	1.169	1.136	1.110	1.177	1.142	2.6*
Ethylbenzene	*	.498	.536	.522	.506	.557	.524	4.5*
Styrene	*	1.122	1.166	1.136	1.117	1.201	1.148	3.1*
Xylene (total)	*	.607	.659	.639	.632	.668	.641	3.8*
Toluene d-8		.612	.616	.618	.607	.614	.613	.7
Bromofluorobenzene	*	1.033	1.012	1.027	1.011	1.038	1.024	1.2*
1,2-Dichloroethane-d4		1.154	1.197	1.196	1.230	1.222	1.200	2.5

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ------ SAS No.: ------ SDG No.: 9303965

Instrument ID: 70 3 Calibration Date: 12/07/93 Time: 22:21

Lab File ID: >J0184 Init. Calib. Date(s): 12/03/93 --/--/--

Heated Purge: (Y/N) Y Init. Calib. Times: 12:41 15:47

GC Column: PACK ID: 2 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	.854	.881		3.1	
Bromomethane	1.318	1.421	0.100	7.9	25.0
Vinyl Chloride	1.232	1.179	0.100	4.3	25.0
Chloroethane	.849	.818		3.6	
Methylene Chloride	1.829	1.621		11.4	
Acetone	.408	.306		25.0	
Carbon Disulfide	4.860	4.565		6.1	
1,1-Dichloroethene	1.524	1.479	0.100	3.0	25.0
1,1-Dichloroethane	3.626	3.458	0.200	4.6	25.0
1,2-Dichloroethene (total)	1.706	1.615		5.4	
Chloroform	4.330	3.944	0.200	8.9	25.0
1,2-Dichloroethane	3.151	2.740	0.100	13.1	25.0
2-Butanone	.563	.428		24.0	
1,1,1-Trichloroethane	3.577	3.284	0.100	8.2	25.0
Carbon Tetrachloride	3.104	2.883	0.100	7.1	25.0
Bromodichloromethane	4.309	4.007	0.200	7.0	25.0
1,2-Dichloropropane	.548	.531		3.1	
cis-1,3-Dichloropropene	.862	.833	0.200	3.3	25.0
Trichloroethene	.526	.529	0.300	.4	25.0
Dibromochloromethane	.867	.837	0.100	3.5	25.0
1,1,2-Trichloroethane	.448	.415	0.100	7.4	25.0
Benzene	1.109	1.069	0.500	3.6	25.0
trans-1,3-Dichloropropene	.773	.723	0.100	6.5	25.0
Bromoform	.554	.503	0.100	9.2	25.0
4-Methyl-2-pentanone	.498	.395		20.7	
2-Hexanone	.342	.260		23.9	
Tetrachloroethene	.543	.540	0.200	.5	25.0
1,1,2,2-Tetrachloroethane	.851	.744	0.500	12.5	25.0
Toluene	1.472	1.364	0.400	7.3	25.0
Chlorobenzene	1.142	1.079	0.500	5.5	25.0
Ethylbenzene	.524	.474	0.100	9.5	25.0
Styrene	1.148	1.048	0.300	8.8	25.0
Xylene (total)	.641	.595	0.300	7.1	25.0
Toluene d-8	.613	.568		7.4	
Bromofluorobenzene	1.024	.957	0.200	6.5	25.0
1,2-Dichloroethane-d4	1.200	1.043		13.1	

Associated Samples
VBLK04
9303965
9303965MS
9303965MSD
9303974

All other compounds must meet a minimum RRF of 0.010.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: DE DNREC: DIV OF WATER RES Contract: DNREC: DAWM

Lab Code: DE023 Case No.: ------ SAS No.: ------ SDG No.: 9303965

Instrument ID: 70 3 Calibration Date: 12/08/93 Time: 22:43

Lab File ID: >J0187 Init. Calib. Date(s): 12/03/93 --/--/--

Heated Purge: (Y/N) Y Init. Calib. Times: 12:41 15:47

GC Column: PACK ID: 2 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	Associated Samples
Chloromethane	.854	.725		15.1		
Bromomethane	1.318	1.310	0.100	.6	25.0	VBLK05
Vinyl Chloride	1.232	.991	0.100	20.0	25.0	9303969
Chloroethane	.849	.689		19.0		
Methylene Chloride	1.829	1.433		21.7		
Acetone	.408	.311		24.0		
Carbon Disulfide	4.860	3.999		18.0		
1,1-Dichloroethene	1.524	1.341	0.100	12.0	25.0	
1,1-Dichloroethane	3.626	3.059	0.200	16.0	25.0	
1,2-Dichloroethene (total)	1.706	1.445		15.3		
Chloroform	4.330	3.774	0.200	12.8	25.0	
1,2-Dichloroethane	3.151	2.618	0.100	16.9	25.0	
2-Butanone	.563	.347		38.4		
1,1,1-Trichloroethane	3.577	3.187	0.100	10.9	25.0	
Carbon Tetrachloride	3.104	2.916	0.100	6.1	25.0	
Bromodichloromethane	4.309	3.753	0.200	12.9	25.0	
1,2-Dichloropropane	.548	.451		17.8		
cis-1,3-Dichloropropene	.862	.728	0.200	15.5	25.0	
Trichloroethene	.526	.479	0.300	9.0	25.0	
Dibromochloromethane	.867	.801	0.100	7.6	25.0	
1,1,2-Trichloroethane	.447	.364	0.100	18.7	25.0	
Benzene	1.109	.928	0.500	16.4	25.0	
trans-1,3-Dichloropropene	.773	.661	0.100	14.5	25.0	
Bromoform	.554	.483	0.100	12.9	25.0	
4-Methyl-2-pentanone	.498	.336		32.6		
2-Hexanone	.342	.225		34.2		
Tetrachloroethene	.543	.506	0.200	6.8	25.0	
1,1,2,2-Tetrachloroethane	.851	.667	0.500	21.6	25.0	
Toluene	1.472	1.260	0.400	14.4	25.0	
Chlorobenzene	1.142	1.039	0.500	9.0	25.0	
Ethylbenzene	.524	.451	0.100	13.9	25.0	
Styrene	1.148	.978	0.300	14.9	25.0	
Xylene (total)	.641	.552	0.300	13.9	25.0	
Toluene d-8	.613	.591		3.7		
Bromofluorobenzene	1.024	.994	0.200	2.9	25.0	
1,2-Dichloroethane-d4	1.200	1.064		11.3		

All other compounds must meet a minimum RRF of 0.010.

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Instrument ID: 70 2 Calibration Date(s): 11/12/93 11/12/93

Calibration Times: 09:52 13:11

LAB FILE ID: RRF020= >S5329 RRF050= >S5330
RRF080= >S5331 RRF120= >S5332 RRF160= >S5333

COMPOUND		RRF020	RRF050	RRF080	RRF120	RRF160	$\overline{RRF}$	RSD
Phenol	*	1.300	1.196	1.171	1.186	1.132	1.197	5.2*
bis(2-Chloroethyl)ether	*	1.041	1.069	1.075	1.072	1.065	1.065	1.3*
2-Chlorophenol	*	1.063	1.058	.986	.975	.909	.998	6.4*
1,3-Dichlorobenzene	*	1.196	1.170	1.113	1.134	1.095	1.142	3.6*
1,4-Dichlorobenzene	*	1.263	1.221	1.181	1.163	1.132	1.192	4.3*
1,2-Dichlorobenzene	*	1.138	1.142	1.102	1.095	1.067	1.109	2.8*
2-Methylphenol	*	.881	.913	.896	.897	.870	.891	1.8*
2,2'-oxybis(1-Chloropropane		2.136	2.174	2.244	2.323	2.316	2.239	3.7
4-Methylphenol	*	.970	.989	1.002	1.003	.990	.991	1.3*
N-Nitroso-di-n-propylamine	*	.843	.889	.920	.951	.840	.889	5.4*
Hexachloroethane	*	.517	.527	.517	.525	.500	.517	2.1*
Nitrobenzene	*	.299	.302	.309	.314	.307	.306	2.0*
Isophorone	*	.596	.599	.610	.612	.528	.589	5.9*
2-Nitrophenol	*	.142	.153	.158	.165	.167	.157	6.6*
2,4-Dimethylphenol	*	.277	.282	.275	.275	.275	.277	1.1*
bis(2-Chloroethoxy)methane	*	.384	.377	.374	.354	.329	.364	6.2*
2,4-Dichlorophenol	*	.267	.261	.258	.253	.256	.259	2.0*
1,2,4-Trichlorobenzene	*	.329	.295	.284	.284	.280	.294	6.9*
Naphthalene	*	.857	.839	.794	.784	.778	.810	4.4*
4-Chloroaniline		.356	.362	.359	.351	.349	.355	1.5
Hexachlorobutadiene		.204	.185	.175	.176	.172	.182	7.2
4-Chloro-3-methylphenol	*	.266	.277	.275	.274	.274	.273	1.5*
2-Methylnaphthalene	*	.793	.755	.723	.699	.694	.733	5.6*
Hexachlorocyclopentadiene		.298	.331	.335	.351	.353	.334	6.6
2,4,6-Trichlorophenol	*	.350	.339	.338	.336	.344	.341	1.6*
2,4,5-Trichlorophenol	*	.366	.365	.365	.370	.366	.366	.6*
2-Chloronaphthalene	*	.976	.915	.898	.886	.900	.915	3.9*
2-Nitroaniline		.263	.318	.345	.354	.366	.329	12.4
Dimethylphthalate		1.224	1.188	1.173	1.164	1.186	1.187	2.0
Acenaphthylene	*	1.530	1.516	1.477	1.459	1.485	1.493	2.0*
2,6-Dinitrotoluene	*	.235	.262	.275	.282	.242	.259	7.7*
3-Nitroaniline		.261	.289	.304	.297	.260	.282	7.3
Acenaphthene	*	1.001	.945	.898	.876	.882	.920	5.7*
2,4-Dinitrophenol		.070	.123	.159	.177	.185	.143	32.9
4-Nitrophenol		.105	.123	.140	.143	.150	.132	13.7
Dibenzofuran	*	1.473	1.383	1.345	1.324	1.318	1.368	4.6*
2,4-Dinitrotoluene	*	.354	.383	.410	.412	.348	.381	7.9*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Instrument ID: 70 2 Calibration Date(s): 11/12/93 11/12/93

Calibration Times: 09:52 13:11

LAB FILE ID: RRF020= >S5329 RRF050= >S5330
RRF080= >S5331 RRF120= >S5332 RRF160= >S5333

COMPOUND		RRF020	RRF050	RRF080	RRF120	RRF160	$\overline{RRF}$	RSD
Diethylphthalate		1.313	1.276	1.296	1.296	1.113	1.259	6.6
4-Chlorophenyl-phenylether	*	.572	.550	.524	.512	.528	.537	4.5*
Fluorene	*	1.123	1.049	1.034	1.014	1.023	1.049	4.2*
4-Nitroaniline		.110	.135	.138	.132	.118	.126	9.3
4,6-Dinitro-2-methylphenol		.083	.110	.126	.133	.110	.113	17.0
N-Nitrosodiphenylamine (1)		.416	.390	.364	.387	.393	.390	4.8
4-Bromophenyl-phenylether	*	.193	.182	.176	.179	.186	.183	3.6*
Hexachlorobenzene	*	.258	.226	.221	.222	.228	.231	6.6*
Pentachlorophenol	*	.082	.104	.118	.128	.121	.111	16.3*
Phenanthrene	*	.924	.848	.821	.851	.847	.858	4.5*
Anthracene	*	.905	.836	.820	.841	.841	.849	3.8*
Carbazole		.852	.791	.776	.793	.787	.800	3.7
Di-n-butylphthalate		1.212	1.228	1.246	1.260	1.262	1.241	1.7
Fluoranthene	*	.980	.927	.915	.948	.964	.947	2.8*
Pyrene	*	1.016	.997	.975	1.038	1.097	1.025	4.6*
Butylbenzylphthalate		.514	.550	.565	.594	.632	.571	7.8
3,3'-Dichlorobenzidine		.277	.273	.267	.280	.302	.280	4.7
Benzo(a)anthracene	*	.872	.888	.882	.938	1.005	.917	6.0*
Chrysene	*	.888	.882	.816	.832	.871	.858	3.7*
bis(2-Ethylhexyl)phthalate		.738	.801	.806	.855	.895	.819	7.2
Di-n-octylphthalate		1.251	1.415	1.501	1.465	1.368	1.400	7.0
Benzo(b)fluoranthene	*	.946	.955	.930	.964	1.070	.973	5.7*
Benzo(k)fluoranthene	*	1.003	.926	.913	.891	.790	.905	8.5*
Benzo(a)pyrene	*	.881	.880	.855	.894	.889	.880	1.7*
Indeno(1,2,3-cd)pyrene	*	.778	.801	.818	.878	.913	.838	6.7*
Dibenz(a,h)anthracene	*	.753	.739	.781	.822	.832	.786	5.2*
Benzo(g,h,i)perylene	*	.845	.842	.847	.870	.881	.857	2.0*
Nitrobenzene-d5	*	.268	.291	.295	.302	.303	.292	4.9*
2-Fluorobiphenyl	*	1.108	1.058	.979	.969	.970	1.017	6.2*
Terphenyl-d14	*	.707	.684	.660	.687	.724	.692	3.5*
Phenol-d5	*	1.107	1.169	1.165	1.189	1.160	1.158	2.6*
2-Fluorophenol	*	.762	.790	.803	.825	.828	.802	3.4*
2,4,6-Tribromophenol		.203	.192	.190	.190	.201	.195	3.2
2-Chlorophenol-d4	*	.982	.950	.945	.954	.943	.955	1.7*
1,2-Dichlorobenzene-d4	*	.783	.762	.726	.725	.710	.741	4.0*

(1) Cannot be separated from Diphenylamine
* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Instrument ID: 70 2 Calibration Date: 12/08/93 Time: 09:50

Lab File ID: >S5342 Init. Calib. Date(s): 11/12/93

Init. Calib. Times: 09:52 13:11

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX %D	Associated Samples
Phenol	1.197	1.256	.800	4.9	25.0	
bis(2-Chloroethyl)ether	1.065	1.056	.700	.8	25.0	SBLK05
2-Chlorophenol	.998	1.070	.800	7.3	25.0	
1,3-Dichlorobenzene	1.142	1.223	.600	7.1	25.0	SBLK07
1,4-Dichlorobenzene	1.192	1.261	.500	5.8	25.0	
1,2-Dichlorobenzene	1.109	1.190	.400	7.3	25.0	SBLK01
2-Methylphenol	.891	.957	.700	7.3	25.0	
2,2'-oxybis(1-Chloropropane)	2.239	2.145		4.2		
4-Methylphenol	.991	1.024	.600	3.3	25.0	
N-Nitroso-di-n-propylamine	.889	.914	.500	2.8	25.0	
Hexachloroethane	.517	.533	.300	3.0	25.0	
Nitrobenzene	.306	.302	.200	1.4	25.0	
Isophorone	.589	.593	.400	.7	25.0	
2-Nitrophenol	.157	.170	.100	8.1	25.0	
2,4-Dimethylphenol	.277	.271	.200	2.1	25.0	
bis(2-Chloroethoxy)methane	.364	.386	.300	6.0	25.0	
2,4-Dichlorophenol	.259	.274	.200	5.9	25.0	
1,2,4-Trichlorobenzene	.294	.305	.200	3.8	25.0	
Naphthalene	.810	.847	.700	4.6	25.0	
4-Chloroaniline	.355	.384		8.0		
Hexachlorobutadiene	.182	.191		4.9		
4-Chloro-3-methylphenol	.273	.277	.200	1.2	25.0	
2-Methylnaphthalene	.733	.780	.400	6.5	25.0	
Hexachlorocyclopentadiene	.334	.359		7.6		
2,4,6-Trichlorophenol	.341	.361	.200	5.8	25.0	
2,4,5-Trichlorophenol	.366	.390	.200	6.5	25.0	
2-Chloronaphthalene	.915	.980	.800	7.1	25.0	
2-Nitroaniline	.329	.326		.9		
Dimethylphthalate	1.187	1.248		5.1		
Acenaphthylene	1.493	1.592	1.300	6.6	25.0	
2,6-Dinitrotoluene	.259	.274	.200	5.9	25.0	
3-Nitroaniline	.282	.315		11.7		
Acenaphthene	.920	.999	.800	8.5	25.0	
2,4-Dinitrophenol	.143	.148		3.9		
4-Nitrophenol	.132	.139		5.3		
Dibenzofuran	1.368	1.483	.800	8.4	25.0	
2,4-Dinitrotoluene	.381	.414	.200	8.6	25.0	

All other compounds must meet a minimum RRF of 0.010.

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Instrument ID: 70 2 Calibration Date: 12/08/93 Time: 09:50

Lab File ID: >S5342 Init. Calib. Date(s): 11/12/93

Init. Calib. Times: 09:52 13:11

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX %D
Diethylphthalate	1.259	1.348		7.1	
4-Chlorophenyl-phenylether	.537	.602	.400	12.0	25.0
Fluorene	1.049	1.161	.900	10.7	25.0
4-Nitroaniline	.126	.132		4.2	
4,6-Dinitro-2-methylphenol	.113	.120		6.4	
N-Nitrosodiphenylamine	.390	.419		7.4	
4-Bromophenyl-phenylether	.183	.201	.100	9.5	25.0
Hexachlorobenzene	.231	.250	.100	8.3	25.0
Pentachlorophenol	.111	.098	.050	10.9	25.0
Phenanthrene	.858	.916	.700	6.7	25.0
Anthracene	.849	.903	.700	6.4	25.0
Carbazole	.800	.862		7.8	
Di-n-butylphthalate	1.241	1.301		4.8	
Fluoranthene	.947	1.035	.600	9.3	25.0
Pyrene	1.025	1.009	.600	1.5	25.0
Butylbenzylphthalate	.571	.550		3.7	
3,3'-Dichlorobenzidine	.280	.329		17.8	
Benzo(a)anthracene	.917	.926	.800	1.0	25.0
Chrysene	.858	.886	.700	3.2	25.0
bis(2-Ethylhexyl)phthalate	.819	.816		.4	
Di-n-octylphthalate	1.400	1.376		1.7	
Benzo(b)fluoranthene	.973	.976	.700	.3	25.0
Benzo(k)fluoranthene	.905	.965	.700	6.6	25.0
Benzo(a)pyrene	.880	.917	.700	4.2	25.0
Indeno(1,2,3-cd)pyrene	.838	.882	.500	5.3	25.0
Dibenz(a,h)anthracene	.786	.853	.400	8.6	25.0
Benzo(g,h,i)perylene	.857	.903	.500	5.4	25.0
Nitrobenzene-d5	.292	.288	.200	1.4	25.0
2-Fluorobiphenyl	1.017	1.116	.700	9.7	25.0
Terphenyl-d14	.692	.715	.500	3.3	25.0
Phenol-d5	1.158	1.260	.800	8.8	25.0
2-Fluorophenol	.802	.847	.600	5.7	25.0
2,4,6-Tribromophenol	.195	.243		24.5	
2-Chlorophenol-d4	.955	1.065	.800	11.6	25.0
1,2-Dichlorobenzene-d4	.741	.792	.400	6.9	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Instrument ID: 70 2 Calibration Date: 12/08/93 Time: 18:11

Lab File ID: >S5343 Init. Calib. Date(s): 11/12/93

Init. Calib. Times: 09:52 13:11

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX %D	Associated Samples
Phenol	1.197	1.265	.800	5.7	25.0	9303965
bis(2-Chloroethyl)ether	1.065	1.081	.700	1.5	25.0	
2-Chlorophenol	.998	1.053	.800	5.5	25.0	9303965MS
1,3-Dichlorobenzene	1.142	1.184	.600	3.7	25.0	
1,4-Dichlorobenzene	1.192	1.235	.500	3.6	25.0	9303965MSD
1,2-Dichlorobenzene	1.109	1.180	.400	6.4	25.0	
2-Methylphenol	.891	.953	.700	6.9	25.0	9303972
2,2'-oxybis(1-Chloropropane)	2.239	2.103		6.1		
4-Methylphenol	.991	1.049	.600	5.9	25.0	9303967
N-Nitroso-di-n-propylamine	.889	.904	.500	1.7	25.0	
Hexachloroethane	.517	.523	.300	1.2	25.0	9303968
Nitrobenzene	.306	.306	.200	.2	25.0	
Isophorone	.589	.589	.400	.0	25.0	
2-Nitrophenol	.157	.170	.100	8.1	25.0	9303968MS
2,4-Dimethylphenol	.277	.265	.200	4.1	25.0	
bis(2-Chloroethoxy)methane	.364	.387	.300	6.4	25.0	9303968MSD
2,4-Dichlorophenol	.259	.268	.200	3.8	25.0	
1,2,4-Trichlorobenzene	.294	.299	.200	1.5	25.0	9303970
Naphthalene	.810	.855	.700	5.5	25.0	
4-Chloroaniline	.355	.383		7.7		9303971
Hexachlorobutadiene	.182	.180		1.3		
4-Chloro-3-methylphenol	.273	.283	.200	3.5	25.0	9303973
2-Methylnaphthalene	.733	.781	.400	6.6	25.0	
Hexachlorocyclopentadiene	.334	.338		1.2		9303975
2,4,6-Trichlorophenol	.341	.346	.200	1.4	25.0	
2,4,5-Trichlorophenol	.366	.376	.200	2.8	25.0	
2-Chloronaphthalene	.915	.962	.800	5.2	25.0	
2-Nitroaniline	.329	.335		1.7		
Dimethylphthalate	1.187	1.251		5.4		
Acenaphthylene	1.493	1.599	1.300	7.0	25.0	
2,6-Dinitrotoluene	.259	.284	.200	9.6	25.0	
3-Nitroaniline	.282	.319		13.0		
Acenaphthene	.920	.987	.800	7.2	25.0	
2,4-Dinitrophenol	.143	.153		7.0		
4-Nitrophenol	.132	.140		5.9		
Dibenzofuran	1.368	1.477	.800	7.9	25.0	
2,4-Dinitrotoluene	.381	.421	.200	10.4	25.0	

All other compounds must meet a minimum RRF of 0.010.

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Instrument ID: 70 2 Calibration Date: 12/08/93 Time: 18:11

Lab File ID: >S5343 Init. Calib. Date(s): 11/12/93

Init. Calib. Times: 09:52 13:11

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX %D
Diethylphthalate	1.259	1.341		6.5	
4-Chlorophenyl-phenylether	.537	.578	.400	7.5	25.0
Fluorene	1.049	1.154	.900	10.0	25.0
4-Nitroaniline	.126	.141		11.4	
4,6-Dinitro-2-methylphenol	.113	.129		14.6	
N-Nitrosodiphenylamine	.390	.434		11.2	
4-Bromophenyl-phenylether	.183	.193	.100	5.1	25.0
Hexachlorobenzene	.231	.242	.100	4.8	25.0
Pentachlorophenol	.111	.099	.050	10.9	25.0
Phenanthrene	.858	.931	.700	8.4	25.0
Anthracene	.849	.920	.700	8.4	25.0
Carbazole	.800	.892		11.5	
Di-n-butylphthalate	1.241	1.337		7.7	
Fluoranthene	.947	1.046	.600	10.4	25.0
Pyrene	1.025	1.009	.600	1.5	25.0
Butylbenzylphthalate	.571	.572		.2	
3,3'-Dichlorobenzidine	.280	.330		17.9	
Benzo(a)anthracene	.917	.925	.800	.9	25.0
Chrysene	.858	.891	.700	3.8	25.0
bis(2-Ethylhexyl)phthalate	.819	.837		2.2	
Di-n-octylphthalate	1.400	1.407		.5	
Benzo(b)fluoranthene	.973	.973	.700	.0	25.0
Benzo(k)fluoranthene	.905	.959	.700	6.0	25.0
Benzo(a)pyrene	.880	.913	.700	3.8	25.0
Indeno(1,2,3-cd)pyrene	.838	.886	.500	5.8	25.0
Dibenz(a,h)anthracene	.786	.831	.400	5.8	25.0
Benzo(g,h,i)perylene	.857	.898	.500	4.8	25.0
Nitrobenzene-d5	.292	.298	.200	2.0	25.0
2-Fluorobiphenyl	1.017	1.099	.700	8.0	25.0
Terphenyl-d14	.692	.680	.500	1.8	25.0
Phenol-d5	1.158	1.254	.800	8.3	25.0
2-Fluorophenol	.802	.841	.600	4.9	25.0
2,4,6-Tribromophenol	.195	.220		13.0	
2-Chlorophenol-d4	.955	1.045	.800	9.5	25.0
1,2-Dichlorobenzene-d4	.741	.765	.400	3.2	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Instrument ID: 70 2 Calibration Date: 12/09/93 Time: 15:22

Lab File ID: >S5345 Init. Calib. Date(s): 11/12/93

Init. Calib. Times: 09:52 13:11

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX %D	Associated Samples
Phenol	1.197	1.208	.800	.9	25.0	
bis(2-Chloroethyl)ether	1.065	1.006	.700	5.5	25.0	9303969
2-Chlorophenol	.998	1.002	.800	.4	25.0	
1,3-Dichlorobenzene	1.142	1.117	.600	2.2	25.0	9303974
1,4-Dichlorobenzene	1.192	1.158	.500	2.9	25.0	
1,2-Dichlorobenzene	1.109	1.094	.400	1.4	25.0	
2-Methylphenol	.891	.873	.700	2.1	25.0	
2,2'-oxybis(1-Chloropropane)	2.239	2.035		9.1		
4-Methylphenol	.991	.972	.600	1.9	25.0	
N-Nitroso-di-n-propylamine	.889	.854	.500	3.8	25.0	
Hexachloroethane	.517	.480	.300	7.3	25.0	
Nitrobenzene	.306	.284	.200	7.2	25.0	
Isophorone	.589	.551	.400	6.6	25.0	
2-Nitrophenol	.157	.158	.100	.6	25.0	
2,4-Dimethylphenol	.277	.251	.200	9.2	25.0	
bis(2-Chloroethoxy)methane	.364	.364	.300	.1	25.0	
2,4-Dichlorophenol	.259	.249	.200	3.8	25.0	
1,2,4-Trichlorobenzene	.294	.276	.200	6.1	25.0	
Naphthalene	.810	.775	.700	4.4	25.0	
4-Chloroaniline	.355	.359		1.1		
Hexachlorobutadiene	.182	.169		7.2		
4-Chloro-3-methylphenol	.273	.258	.200	5.7	25.0	
2-Methylnaphthalene	.733	.716	.400	2.3	25.0	
Hexachlorocyclopentadiene	.334	.223		33.0		
2,4,6-Trichlorophenol	.341	.334	.200	2.3	25.0	
2,4,5-Trichlorophenol	.366	.360	.200	1.8	25.0	
2-Chloronaphthalene	.915	.915	.800	.0	25.0	
2-Nitroaniline	.329	.333		1.2		
Dimethylphthalate	1.187	1.192		.5		
Acenaphthylene	1.493	1.492	1.300	.1	25.0	
2,6-Dinitrotoluene	.259	.267	.200	2.9	25.0	
3-Nitroaniline	.282	.304		7.7		
Acenaphthene	.920	.937	.800	1.8	25.0	
2,4-Dinitrophenol	.143	.085		40.8		
4-Nitrophenol	.132	.123		6.7		
Dibenzofuran	1.368	1.379	.800	.7	25.0	
2,4-Dinitrotoluene	.381	.390	.200	2.2	25.0	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

000633

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Instrument ID: 70 2 Calibration Date: 12/09/93 Time: 15:22

Lab File ID: >S5345 Init. Calib. Date(s): 11/12/93

Init. Calib. Times: 09:52 13:11

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX %D
Diethylphthalate	1.259	1.263		.3	
4-Chlorophenyl-phenylether	.537	.548	.400	2.0	25.0
Fluorene	1.049	1.089	.900	3.8	25.0
4-Nitroaniline	.126	.132		4.7	
4,6-Dinitro-2-methylphenol	.113	.086		23.7	
N-Nitrosodiphenylamine	.390	.401		2.9	
4-Bromophenyl-phenylether	.183	.182	.100	.5	25.0
Hexachlorobenzene	.231	.226	.100	2.2	25.0
Pentachlorophenol	.111	.094	.050	14.8	25.0
Phenanthrene	.858	.862	.700	.5	25.0
Anthracene	.849	.857	.700	1.0	25.0
Carbazole	.800	.822		2.7	
Di-n-butylphthalate	1.241	1.154		7.0	
Fluoranthene	.947	.944	.600	.3	25.0
Pyrene	1.025	.942	.600	8.0	25.0
Butylbenzylphthalate	.571	.528		7.5	
3,3'-Dichlorobenzidine	.280	.313		11.7	
Benzo(a)anthracene	.917	.832	.800	9.3	25.0
Chrysene	.858	.806	.700	6.1	25.0
bis(2-Ethylhexyl)phthalate	.819	.780		4.8	
Di-n-octylphthalate	1.400	1.291		7.8	
Benzo(b)fluoranthene	.973	.883	.700	9.3	25.0
Benzo(k)fluoranthene	.905	.859	.700	5.0	25.0
Benzo(a)pyrene	.880	.803	.700	8.7	25.0
Indeno(1,2,3-cd)pyrene	.838	.710	.500	15.3	25.0
Dibenz(a,h)anthracene	.786	.674	.400	14.2	25.0
Benzo(g,h,i)perylene	.857	.709	.500	17.2	25.0
Nitrobenzene-d5	.292	.272	.200	6.9	25.0
2-Fluorobiphenyl	1.017	1.044	.700	2.6	25.0
Terphenyl-d14	.692	.653	.500	5.8	25.0
Phenol-d5	1.158	1.175	.800	1.5	25.0
2-Fluorophenol	.802	.786	.600	1.9	25.0
2,4,6-Tribromophenol	.195	.224		15.1	
2-Chlorophenol-d4	.955	.983	.800	2.9	25.0
1,2-Dichlorobenzene-d4	.741	.727	.400	1.9	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

C00605

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Instrument ID: 70 2 Calibration Date(s): 12/21/93 12/21/93

Calibration Times: 17:20 20:37

LAB FILE ID: RRF020= >S5363 RRF050= >S5364
RRF080= >S5365 RRF120= >S5366 RRF160= >S5367

All Associated Samples Includi SBLK09

COMPOUND		RRF020	RRF050	RRF080	RRF120	RRF160	$\overline{RRF}$	RSD
Phenol	*	1.436	1.410	1.380	1.379	1.334	1.387	2.8*
bis(2-Chloroethyl)ether	*	1.240	1.192	1.143	1.126	1.065	1.153	5.8*
2-Chlorophenol	*	1.362	1.299	1.258	1.247	1.209	1.275	4.6*
1,3-Dichlorobenzene	*	1.612	1.536	1.484	1.470	1.421	1.505	4.8*
1,4-Dichlorobenzene	*	1.660	1.608	1.534	1.519	1.476	1.559	4.7*
1,2-Dichlorobenzene	*	1.550	1.465	1.396	1.361	1.318	1.418	6.4*
2-Methylphenol	*	1.067	1.043	1.024	1.005	.977	1.023	3.4*
2,2'-oxybis(1-Chloropropane		2.097	2.093	2.022	2.032	1.973	2.043	2.6
4-Methylphenol	*	1.152	1.123	1.076	1.057	1.012	1.084	5.1*
N-Nitroso-di-n-propylamine	*	.788	.838	.812	.811	.772	.804	3.2*
Hexachloroethane	*	.603	.607	.594	.600	.567	.594	2.6*
Nitrobenzene	*	.316	.321	.320	.325	.318	.320	1.1*
Isophorone	*	.615	.637	.635	.649	.627	.633	2.0*
2-Nitrophenol	*	.182	.202	.208	.215	.209	.203	6.3*
2,4-Dimethylphenol	*	.336	.324	.316	.324	.310	.322	3.1*
bis(2-Chloroethoxy)methane	*	.455	.440	.423	.437	.417	.434	3.4*
2,4-Dichlorophenol	*	.345	.332	.327	.336	.328	.334	2.2*
1,2,4-Trichlorobenzene	*	.429	.402	.391	.394	.374	.398	5.0*
Naphthalene	*	1.114	1.053	1.025	1.026	.984	1.041	4.6*
4-Chloroaniline		.476	.470	.474	.472	.425	.463	4.7
Hexachlorobutadiene		.243	.234	.230	.229	.225	.232	2.8
4-Chloro-3-methylphenol	*	.313	.312	.315	.315	.307	.312	1.0*
2-Methylnaphthalene	*	.758	.731	.717	.706	.690	.720	3.6*
Hexachlorocyclopentadiene		.384	.444	.451	.470	.469	.443	8.0
2,4,6-Trichlorophenol	*	.435	.436	.417	.429	.421	.428	2.0*
2,4,5-Trichlorophenol	*	.468	.466	.444	.462	.451	.458	2.2*
2-Chloronaphthalene	*	1.281	1.233	1.191	1.192	1.142	1.208	4.3*
2-Nitroaniline		.258	.320	.332	.346	.320	.315	10.7
Dimethylphthalate		1.503	1.485	1.427	1.472	1.446	1.467	2.1
Acenaphthylene	*	1.932	1.986	1.921	1.939	1.895	1.935	1.7*
2,6-Dinitrotoluene	*	.291	.333	.342	.356	.350	.335	7.7*
3-Nitroaniline		.357	.386	.391	.398	.363	.379	4.7
Acenaphthene	*	1.297	1.260	1.216	1.218	1.169	1.232	3.9*
2,4-Dinitrophenol		.145	.218	.230	.264	.265	.224	21.9
4-Nitrophenol		.140	.156	.155	.164	.160	.155	5.7
Dibenzofuran	*	1.940	1.849	1.774	1.811	1.748	1.825	4.1*
2,4-Dinitrotoluene	*	.456	.503	.498	.515	.513	.497	4.8*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Instrument ID: 70 2 Calibration Date(s): 12/21/93 12/21/93

Calibration Times: 17:20 20:37

LAB FILE ID: RRF020= >S5363 RRF050= >S5364
RRF080= >S5365 RRF120= >S5366 RRF160= >S5367

COMPOUND	RRF020	RRF050	RRF080	RRF120	RRF160	$\overline{RRF}$	RSD
Diethylphthalate	1.607	1.540	1.465	1.512	1.462	1.517	4.0
4-Chlorophenyl-phenylether *	.743	.703	.648	.658	.647	.680	6.2*
Fluorene *	1.393	1.401	1.347	1.361	1.324	1.365	2.3*
4-Nitroaniline	.138	.157	.157	.161	.148	.152	6.0
4,6-Dinitro-2-methylphenol	.122	.154	.158	.172	.169	.155	12.7
N-Nitrosodiphenylamine (1)	.505	.504	.478	.490	.459	.487	3.9
4-Bromophenyl-phenylether *	.221	.215	.206	.212	.206	.212	3.0*
Hexachlorobenzene *	.288	.271	.262	.267	.256	.269	4.5*
Pentachlorophenol *	.161	.172	.171	.181	.177	.172	4.3*
Phenanthrene *	1.146	1.107	1.045	1.055	1.008	1.072	5.1*
Anthracene *	1.095	1.080	1.041	1.059	.990	1.053	3.9*
Carbazole	1.042	1.042	1.014	1.027	.966	1.018	3.1
Di-n-butylphthalate	1.338	1.417	1.385	1.379	1.248	1.353	4.8
Fluoranthene *	1.180	1.167	1.119	1.156	1.104	1.145	2.8*
Pyrene *	1.308	1.291	1.251	1.261	1.218	1.266	2.8*
Butylbenzylphthalate	.587	.648	.653	.663	.641	.639	4.7
3,3'-Dichlorobenzidine	.365	.379	.369	.377	.336	.365	4.8
Benzo(a)anthracene *	1.176	1.158	1.127	1.165	1.119	1.149	2.2*
Chrysene *	1.166	1.127	1.089	1.098	1.069	1.109	3.4*
bis(2-Ethylhexyl)phthalate	.896	.971	.957	.973	.928	.945	3.5
Di-n-octylphthalate	1.353	1.549	1.534	1.455	1.298	1.438	7.7
Benzo(b)fluoranthene *	1.134	1.133	1.129	1.210	1.116	1.144	3.3*
Benzo(k)fluoranthene *	1.173	1.165	1.095	1.063	1.065	1.112	4.8*
Benzo(a)pyrene *	1.068	1.070	1.051	1.071	1.048	1.061	1.0*
Indeno(1,2,3-cd)pyrene *	1.065	1.108	1.110	1.138	1.096	1.104	2.4*
Dibenz(a,h)anthracene *	.980	1.037	1.031	1.058	1.005	1.022	3.0*
Benzo(g,h,i)perylene *	1.095	1.096	1.101	1.113	1.053	1.092	2.1*
Nitrobenzene-d5 *	.264	.291	.290	.306	.297	.290	5.4*
2-Fluorobiphenyl *	1.446	1.373	1.321	1.342	1.303	1.357	4.1*
Terphenyl-d14 *	.905	.871	.837	.845	.827	.857	3.7*
Phenol-d5 *	1.338	1.376	1.353	1.353	1.309	1.346	1.8*
2-Fluorophenol *	1.055	1.046	1.012	1.020	.990	1.025	2.6*
2,4,6-Tribromophenol	.256	.263	.252	.257	.267	.259	2.3
2-Chlorophenol-d4 *	1.310	1.306	1.266	1.271	1.237	1.278	2.4*
1,2-Dichlorobenzene-d4 *	1.008	.992	.955	.932	.901	.958	4.5*

(1) Cannot be separated from Diphenylamine
* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Instrument ID: 70 2 Calibration Date: 12/21/93 Time: 18:09

Lab File ID: >S5364 Init. Calib. Date(s): 12/21/93

Init. Calib. Times: 17:20 20:37

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D	Associated Samples
Phenol	1.387	1.410	.800	1.6	25.0	SBLK09
bis(2-Chloroethyl)ether	1.153	1.192	.700	3.3	25.0	
2-Chlorophenol	1.275	1.299	.800	1.9	25.0	
1,3-Dichlorobenzene	1.505	1.536	.600	2.1	25.0	
1,4-Dichlorobenzene	1.559	1.608	.500	3.1	25.0	
1,2-Dichlorobenzene	1.418	1.465	.400	3.3	25.0	
2-Methylphenol	1.023	1.043	.700	2.0	25.0	
2,2'-oxybis(1-Chloropropane)	2.043	2.093		2.4		
4-Methylphenol	1.084	1.123	.600	3.6	25.0	
N-Nitroso-di-n-propylamine	.804	.838	.500	4.2	25.0	
Hexachloroethane	.594	.607	.300	2.2	25.0	
Nitrobenzene	.320	.321	.200	.3	25.0	
Isophorone	.633	.637	.400	.7	25.0	
2-Nitrophenol	.203	.202	.100	.5	25.0	
2,4-Dimethylphenol	.322	.324	.200	.7	25.0	
bis(2-Chloroethoxy)methane	.434	.440	.300	1.3	25.0	
2,4-Dichlorophenol	.334	.332	.200	.6	25.0	
1,2,4-Trichlorobenzene	.398	.402	.200	1.1	25.0	
Naphthalene	1.041	1.053	.700	1.2	25.0	
4-Chloroaniline	.463	.470		1.4		
Hexachlorobutadiene	.232	.234		.6		
4-Chloro-3-methylphenol	.312	.312	.200	.2	25.0	
2-Methylnaphthalene	.720	.731	.400	1.5	25.0	
Hexachlorocyclopentadiene	.443	.444		.1		
2,4,6-Trichlorophenol	.428	.436	.200	2.0	25.0	
2,4,5-Trichlorophenol	.458	.466	.200	1.6	25.0	
2-Chloronaphthalene	1.208	1.233	.800	2.1	25.0	
2-Nitroaniline	.315	.320		1.6		
Dimethylphthalate	1.467	1.485		1.2		
Acenaphthylene	1.935	1.986	1.300	2.7	25.0	
2,6-Dinitrotoluene	.335	.333	.200	.5	25.0	
3-Nitroaniline	.379	.386		1.9		
Acenaphthene	1.232	1.260	.800	2.3	25.0	
2,4-Dinitrophenol	.224	.218		2.9		
4-Nitrophenol	.155	.156		.5		
Dibenzofuran	1.825	1.849	.800	1.3	25.0	
2,4-Dinitrotoluene	.497	.503	.200	1.2	25.0	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Instrument ID: 70 2 Calibration Date: 12/21/93 Time: 18:09

Lab File ID: >S5364 Init. Calib. Date(s): 12/21/93

Init. Calib. Times: 17:20 20:37

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Diethylphthalate	1.517	1.540		1.5	
4-Chlorophenyl-phenylether	.680	.703	.400	3.4	25.0
Fluorene	1.365	1.401	.900	2.6	25.0
4-Nitroaniline	.152	.157		3.3	
4,6-Dinitro-2-methylphenol	.155	.154		.5	
N-Nitrosodiphenylamine	.487	.504		3.4	
4-Bromophenyl-phenylether	.212	.215	.100	1.5	25.0
Hexachlorobenzene	.269	.271	.100	.9	25.0
Pentachlorophenol	.172	.172	.050	.4	25.0
Phenanthrene	1.072	1.107	.700	3.2	25.0
Anthracene	1.053	1.080	.700	2.5	25.0
Carbazole	1.018	1.042		2.3	
Di-n-butylphthalate	1.353	1.417		4.7	
Fluoranthene	1.145	1.167	.600	1.9	25.0
Pyrene	1.266	1.291	.600	2.0	25.0
Butylbenzylphthalate	.639	.648		1.5	
3,3'-Dichlorobenzidine	.365	.379		3.8	
Benzo(a)anthracene	1.149	1.158	.800	.8	25.0
Chrysene	1.109	1.127	.700	1.6	25.0
bis(2-Ethylhexyl)phthalate	.945	.971		2.8	
Di-n-octylphthalate	1.438	1.549		7.7	
Benzo(b)fluoranthene	1.144	1.133	.700	1.0	25.0
Benzo(k)fluoranthene	1.112	1.165	.700	4.8	25.0
Benzo(a)pyrene	1.061	1.070	.700	.8	25.0
Indeno(1,2,3-cd)pyrene	1.104	1.108	.500	.4	25.0
Dibenz(a,h)anthracene	1.022	1.037	.400	1.4	25.0
Benzo(g,h,i)perylene	1.092	1.096	.500	.4	25.0
Nitrobenzene-d5	.290	.291	.200	.5	25.0
2-Fluorobiphenyl	1.357	1.373	.700	1.2	25.0
Terphenyl-d14	.857	.871	.500	1.7	25.0
Phenol-d5	1.346	1.376	.800	2.2	25.0
2-Fluorophenol	1.025	1.046	.600	2.1	25.0
2,4,6-Tribromophenol	.259	.263		1.5	
2-Chlorophenol-d4	1.278	1.306	.800	2.2	25.0
1,2-Dichlorobenzene-d4	.958	.992	.400	3.6	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Instrument ID: 70 2 Calibration Date: 01/03/94 Time: 15:56

Lab File ID: >S5369 Init. Calib. Date(s): 12/21/93

Init. Calib. Times: 17:20 20:37

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX %D	Associated Samples
Phenol	1.387	1.595	.800	14.9	25.0	9303966
bis(2-Chloroethyl)ether	1.153	1.383	.700	19.9	25.0	
2-Chlorophenol	1.275	1.339	.800	5.0	25.0	
1,3-Dichlorobenzene	1.505	1.505	.600	.0	25.0	
1,4-Dichlorobenzene	1.559	1.551	.500	.6	25.0	
1,2-Dichlorobenzene	1.418	1.426	.400	.5	25.0	
2-Methylphenol	1.023	1.148	.700	12.2	25.0	
2,2'-oxybis(1-Chloropropane)	2.043	2.182		6.8		
4-Methylphenol	1.084	1.222	.600	12.7	25.0	
N-Nitroso-di-n-propylamine	.804	.912	.500	13.4	25.0	
Hexachloroethane	.594	.656	.300	10.5	25.0	
Nitrobenzene	.320	.350	.200	9.4	25.0	
Isophorone	.633	.689	.400	8.8	25.0	
2-Nitrophenol	.203	.192	.100	5.7	25.0	
2,4-Dimethylphenol	.322	.323	.200	.4	25.0	
bis(2-Chloroethoxy)methane	.434	.463	.300	6.5	25.0	
2,4-Dichlorophenol	.334	.285	.200	14.6	25.0	
1,2,4-Trichlorobenzene	.398	.329	.200	17.3	25.0	
Naphthalene	1.041	1.007	.700	3.2	25.0	
4-Chloroaniline	.463	.518		11.7		
Hexachlorobutadiene	.232	.172		26.0		
4-Chloro-3-methylphenol	.312	.299	.200	4.4	25.0	
2-Methylnaphthalene	.720	.667	.400	7.4	25.0	
Hexachlorocyclopentadiene	.443	.376		15.3		
2,4,6-Trichlorophenol	.428	.370	.200	13.6	25.0	
2,4,5-Trichlorophenol	.458	.398	.200	13.2	25.0	
2-Chloronaphthalene	1.208	1.161	.800	3.9	25.0	
2-Nitroaniline	.315	.420		33.1		
Dimethylphthalate	1.467	1.373		6.4		
Acenaphthylene	1.935	1.872	1.300	3.3	25.0	
2,6-Dinitrotoluene	.335	.315	.200	5.9	25.0	
3-Nitroaniline	.379	.455		20.0		
Acenaphthene	1.232	1.177	.800	4.5	25.0	
2,4-Dinitrophenol	.224	.207		7.9		
4-Nitrophenol	.155	.170		10.0		
Dibenzofuran	1.825	1.717	.800	5.9	25.0	
2,4-Dinitrotoluene	.497	.473	.200	4.8	25.0	

All other compounds must meet a minimum RRF of 0.010.

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab Code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Instrument ID: 70 2 Calibration Date: 01/03/94 Time: 15:56

Lab File ID: >S5369 Init. Calib. Date(s): 12/21/93

Init. Calib. Times: 17:20 20:37

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX %D
Diethylphthalate	1.517	1.482		2.3	
4-Chlorophenyl-phenylether	.680	.590	.400	13.2	25.0
Fluorene	1.365	1.283	.900	6.0	25.0
4-Nitroaniline	.152	.194		27.6	
4,6-Dinitro-2-methylphenol	.155	.151		2.5	
N-Nitrosodiphenylamine	.487	.496		1.8	
4-Bromophenyl-phenylether	.212	.197	.100	7.2	25.0
Hexachlorobenzene	.269	.226	.100	15.7	25.0
Pentachlorophenol	.172	.150	.050	12.9	25.0
Phenanthrene	1.072	1.065	.700	.7	25.0
Anthracene	1.053	1.050	.700	.3	25.0
Carbazole	1.018	1.037		1.8	
Di-n-butylphthalate	1.353	1.465		8.3	
Fluoranthene	1.145	1.082	.600	5.5	25.0
Pyrene	1.266	1.265	.600	.1	25.0
Butylbenzylphthalate	.639	.703		10.0	
3,3'-Dichlorobenzidine	.365	.365		.1	
Benzo(a)anthracene	1.149	1.083	.800	5.8	25.0
Chrysene	1.109	1.060	.700	4.5	25.0
bis(2-Ethylhexyl)phthalate	.945	1.059		12.1	
Di-n-octylphthalate	1.438	1.637		13.9	
Benzo(b)fluoranthene	1.144	1.086	.700	5.1	25.0
Benzo(k)fluoranthene	1.112	1.039	.700	6.6	25.0
Benzo(a)pyrene	1.061	.999	.700	5.9	25.0
Indeno(1,2,3-cd)pyrene	1.104	.999	.500	9.5	25.0
Dibenz(a,h)anthracene	1.022	.948	.400	7.3	25.0
Benzo(g,h,i)perylene	1.092	1.032	.500	5.4	25.0
Nitrobenzene-d5	.290	.316	.200	9.1	25.0
2-Fluorobiphenyl	1.357	1.288	.700	5.1	25.0
Terphenyl-d14	.857	.801	.500	6.6	25.0
Phenol-d5	1.346	1.538	.800	14.3	25.0
2-Fluorophenol	1.025	1.116	.600	8.9	25.0
2,4,6-Tribromophenol	.259	.204		21.4	
2-Chlorophenol-d4	1.278	1.325	.800	3.7	25.0
1,2-Dichlorobenzene-d4	.958	.909	.400	5.0	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Level:(low/med) MED

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLK07	42	38	39	29	38	32	40	40	0
02	9303972	29	35	38	22 *	28	37	31	32	1
03	9303967	30	34	32	20 *	28	35	30	31	1
04	9303968	28	31	32	23 *	26	33	29	29	1
05	9303968MS	32	37	36	27	31	37	32	33	0
06	9303968MSD	34	37	37	31	32	39	34	35	0
07	9303970	32	35	35	26	32	37	33	35	0
08	9303971	40	45	43	30	38	46	41	42	0
09	9303975	29	36	33	24	27	35	31	30	0
10	SBLK09	49	49	56	50	48	54	50	51	0
11	9303966	44	47	47	39	37	46	40	44	0
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

FORM II SV-2

3/90 Rev

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix Spike - EPA Sample No.: 9303965 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	3000	0	1200	41	26- 90
2-Chlorophenol	3000	0	1300	44	25-102
1,4-Dichlorobenzene	2000	0	840	42	28-104
N-Nitroso-di-n-prop.(1)	2000	0	930	47	41-126
1,2,4-Trichlorobenzene	2000	0	880	44	38-107
4-Chloro-3-methylphenol	3000	0	1300	44	26-103
Acenaphthene	2000	0	1000	50	31-137
4-Nitrophenol	3000	0	1500	51	11-114
2,4-Dinitrotoluene	2000	0	950	48	28- 89
Pentachlorophenol	3000	0	2200	74	17-109
Pyrene	2000	380	1300	48	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3000	1500	50	19	35	26- 90
2-Chlorophenol	3000	1600	52	17	50	25-102
1,4-Dichlorobenzene	2000	920	46	9	27	28-104
N-Nitroso-di-n-prop.(1)	2000	1100	56	19	38	41-126
1,2,4-Trichlorobenzene	2000	1000	51	15	23	38-107
4-Chloro-3-methylphenol	3000	1600	54	21	33	26-103
Acenaphthene	2000	1200	61	20 *	19	31-137
4-Nitrophenol	3000	1900	63	20	50	11-114
2,4-Dinitrotoluene	2000	1200	62	26	47	28- 89
Pentachlorophenol	3000	3000	99	29	47	17-109
Pyrene	2000	1600	59	21	36	35-142

(1) N-Nitroso-di-n-propylamine

column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

3D
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: DE DNREC:DIV OF WATER RES Contract: DNREC:DAWM

Lab code: DE023 Case No.: ----- SAS No.: ------ SDG No.: 9303965

Matrix Spike - EPA Sample No.: 9303968 Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	130000	0	32000	26 *	26- 90
2-Chlorophenol	130000	0	41000	33	25-102
1,4-Dichlorobenzene	85000	0	28000	33	28-104
N-Nitroso-di-n-prop.(1)	85000	0	30000	35 *	41-126
1,2,4-Trichlorobenzene	85000	0	28000	33 *	38-107
4-Chloro-3-methylphenol	130000	0	19000	15 *	26-103
Acenaphthene	85000	0	29000	35	31-137
4-Nitrophenol	130000	0	27000	21	11-114
2,4-Dinitrotoluene	85000	0	22000	26 *	28- 89
Pentachlorophenol	130000	0	45000	36	17-109
Pyrene	85000	0	25000	30 *	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	130000	37000	29	13	35	26- 90
2-Chlorophenol	130000	44000	35	6	50	25-102
1,4-Dichlorobenzene	85000	29000	34	5	27	28-104
N-Nitroso-di-n-prop.(1)	85000	31000	36 *	4	38	41-126
1,2,4-Trichlorobenzene	85000	29000	34 *	4	23	38-107
4-Chloro-3-methylphenol	130000	32000	25 *	51 *	33	26-103
Acenaphthene	85000	29000	35	0	19	31-137
4-Nitrophenol	130000	22000	17	21	50	11-114
2,4-Dinitrotoluene	85000	23000	27 *	2	47	28- 89
Pentachlorophenol	130000	50000	39	9	47	17-109
Pyrene	85000	26000	31 *	5	36	35-142

(1) N-Nitroso-di-n-propylamine

column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 11 outside limits
Spike Recovery: 11 out of 22 outside limits

COMMENTS: _____

Level MZ Review

000760

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Sample Location: AT12

9303966

Lab Name:DE DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE 023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P6566

Sample wt/vol: 30.10 (g/ml) G Lab File ID:

% Moisture: 41 decanted: (Y/N)N Date Received:12/01/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/07/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed: 1/15/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:7.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.9	U
319-85-7	beta-BHC	2.9	U
319-86-8	delta-BHC	2.9	U
58-89-9	gamma-BHC(Lindane)	2.9	U
76-44-8	Heptachlor	2.9	U
309-00-2	Aldrin	2.9	U
1024-57-3	Heptachlor epoxide	2.9	U
959-98-8	Endosulfan I	16.	~~P~~ J
60-57-1	Dieldrin	5.6	U
72-55-9	4,4'-DDE	15.	~~P~~ J
72-20-8	Endrin	5.6	U
33213-65-9	Endosulfan II	5.6	U
72-54-8	4,4'-DDD	5.6	U
1031-07-8	Endosulfan sulfate	82.	~~P~~ J
50-29-3	4,4'-DDT	5.6	U
72-43-5	Methoxychlor	29.	U
53494-70-5	Endrin ketone	5.6	U
7421-36-3	Endrin aldehyde	5.6	U
5103-71-9	alpha-Chlordane	2.9	U
5103-74-2	gamma-Chlordane	2.9	U
8001-35-2	Toxaphene	290.	U
12674-11-2	Aroclor-1016	56.	U
11104-28-2	Aroclor-1221	110.	U
11141-16-5	Aroclor-1232	56.	U
53469-21-9	Aroclor-1242	56.	U
12672-29-6	Aroclor-1248	56.	U
11097-69-1	Aroclor-1254	56.	U
11096-82-5	Aroclor-1260	56.	U

EL 6/3/94

Level M2 Review

000788

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Sample Location: AT14

9303968

Lab Name:DE DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE 023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P6558

Sample wt/vol: 30.00 (g/ml) G Lab File ID:

% Moisture: 41 decanted: (Y/N)N Date Received:12/01/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/07/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed: 1/15/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:7.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.9	UJ
319-85-7	beta-BHC	2.9	U
319-86-8	delta-BHC	2.9	U
58-89-9	gamma-BHC(Lindane)	2.9	U
76-44-8	Heptachlor	2.9	U
309-00-2	Aldrin	2.9	U
1024-57-3	Heptachlor epoxide	2.9	U
959-98-8	Endosulfan I	2.9	U
60-57-1	Dieldrin	5.6	U
72-55-9	4,4'-DDE	5.6	UJ
72-20-8	Endrin	52.	P J
33213-65-9	Endosulfan II	5.6	UJ
72-54-8	4,4'-DDD	5.6	U
1031-07-8	Endosulfan sulfate	5.6	U
50-29-3	4,4'-DDT	5.6	U
72-43-5	Methoxychlor	29.	U
53494-70-5	Endrin ketone	5.6	U
7421-36-3	Endrin aldehyde	5.6	U
5103-71-9	alpha-Chlordane	2.9	U
5103-74-2	gamma-Chlordane	2.9	U
8001-35-2	Toxaphene	290.	U
12674-11-2	Aroclor-1016	56.	U
11104-28-2	Aroclor-1221	110.	U
11141-16-5	Aroclor-1232	56.	U
53469-21-9	Aroclor-1242	56.	U
12672-29-6	Aroclor-1248	56.	U
11097-69-1	Aroclor-1254	56.	UJ
11096-82-5	Aroclor-1260	1800.	P J

EL 4/3/94

Level M2 Review

000820

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Sample Location: AT16

9303970

Lab Name:DE DNREC:Div of Water Res Contract:DNREC:DAWM

Lab Code:DE 023 Case No.:NONE SAS No.:NONE SDG No.: 9303965

Matrix: (soil/water) SOIL Lab Sample ID:P6556

Sample wt/vol: 30.10 (g/ml) G Lab File ID:

% Moisture: 64 decanted: (Y/N)Y Date Received:12/01/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/07/93

Concentrated Extract Volume: 5000.00 (uL) Date Analyzed: 1/15/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:7.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.7	UL
319-85-7	beta-BHC	4.7	U
319-86-8	delta-BHC	4.7	U
58-89-9	gamma-BHC(Lindane)	4.7	U
76-44-8	Heptachlor	4.7	U
309-00-2	Aldrin	4.7	U
1024-57-3	Heptachlor epoxide	4.7	U
959-98-8	Endosulfan I	4.7	U
60-57-1	Dieldrin	4.7	UL
72-55-9	4,4'-DDE	68.	~~P~~ J
72-20-8	Endrin	9.1	UL
33213-65-9	Endosulfan II	9.1	U
72-54-8	4,4'-DDD	9.1	U
1031-07-8	Endosulfan sulfate	9.1	U
50-29-3	4,4'-DDT	9.1	U
72-43-5	Methoxychlor	9.1	U
53494-70-5	Endrin ketone	47.	U
7421-36-3	Endrin aldehyde	9.1	U
5103-71-9	alpha-Chlordane	9.1	UL
5103-74-2	gamma-Chlordane	54.	L
8001-35-2	Toxaphene	4.7	UL
12674-11-2	Aroclor-1016	470.	U
11104-28-2	Aroclor-1221	91.	U
11141-16-5	Aroclor-1232	190.	U
53469-21-9	Aroclor-1242	91.	U
12672-29-6	Aroclor-1248	91.	U
11097-69-1	Aroclor-1254	91.	UL
11096-82-5	Aroclor-1260	2500.	~~P~~ J
		9300.	L

EL 4/3/94

Analytical Summary Report

PCB Soil/Ballast Excavation Project
Amtrak Maintenance Shops
Wilmington, DE

May 1996

Prepared By:

Clean Harbors Environmental Services Inc.
2301 Pennsylvania Ave
Deptford, NJ 08096

The following sections summarize the analytical results from each of the five sampling events.

Sampling Event No. 1 included 52 initial samples taken from various areas:

- near northeast corner of Bldg 7 (Grids 1B, 1C)
- along excavated portions of Track 1 (Grids 3A thru 3E, 4F, 4G, 5G)
- along excavated portions of Track 2 (Grids 4E thru 4G, 5G)
- north end of Bldg 10 along Track 4 (Grid 6D)
- east side of cylinder storage shed (Grid 7C and 7D)

ytheon Engineers & Constructors, Inc.
vironmental Services Laboratory Data Summary
mmary # 26628

ıg	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
4634	1AC	756PO	EXT PCB only SO			COMPLETE		04/18/1996	04/18/1996	JMR
4634	1AC	G14	Aroclor 1016	ND	4600	ug/kg		04/22/1996	04/22/1996	JNK
4634	1AC	G14	Aroclor 1221	ND	4600	ug/kg		04/22/1996	04/22/1996	JNK
4634	1AC	G14	Aroclor 1232	ND	4600	ug/kg		04/22/1996	04/22/1996	JNK
4634	1AC	G14	Aroclor 1242	ND	4600	ug/kg		04/22/1996	04/22/1996	JNK
04634	1AC	G14	Aroclor 1248	ND	4600	ug/kg		04/22/1996	04/22/1996	JNK
04634	1AC	G14	Aroclor 1254	ND	4600	ug/kg		04/22/1996	04/22/1996	JNK
04634	1AC	G14	Aroclor 1260	360000	4600	ug/kg		04/22/1996	04/22/1996	JNK
04634	1AC	S06	WATER BY EVAP	12.3		% as received		04/19/1996	04/19/1996	MCH
04635	1BC	756PO	EXT PCB only SO			COMPLETE		04/18/1996	04/18/1996	JMR
04635	1BC	G14	Aroclor 1016	ND	230	ug/kg		04/20/1996	04/20/1996	JNK
104635	1BC	G14	Aroclor 1221	ND	230	ug/kg		04/20/1996	04/20/1996	JNK
104635	1BC	G14	Aroclor 1232	ND	230	ug/kg		04/20/1996	04/20/1996	JNK
104635	1BC	G14	Aroclor 1242	ND	230	ug/kg		04/20/1996	04/20/1996	JNK
104635	1BC	G14	Aroclor 1248	ND	230	ug/kg		04/20/1996	04/20/1996	JNK
104635	1BC	G14	Aroclor 1254	ND	230	ug/kg		04/20/1996	04/20/1996	JNK
104635	1BC	G14	Aroclor 1260	11000	230	ug/kg		04/20/1996	04/20/1996	JNK
104635	1BC	S06	WATER BY EVAP	11.8		% as received		04/19/1996	04/19/1996	MCH
104636	1CC	756PO	EXT PCB only SO			COMPLETE		04/18/1996	04/18/1996	JMR
104636	1CC	G14	Aroclor 1016	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
104636	1CC	G14	Aroclor 1221	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
104636	1CC	G14	Aroclor 1232	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
104636	1CC	G14	Aroclor 1242	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
104636	1CC	G14	Aroclor 1248	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
104636	1CC	G14	Aroclor 1254	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
104636	1CC	G14	Aroclor 1260	55000	2300	ug/kg		04/22/1996	04/22/1996	JNK
104636	1CC	S06	WATER BY EVAP	11.9		% as received		04/19/1996	04/19/1996	MCH
104637	1DC	756PO	EXT PCB only SO			COMPLETE		04/18/1996	04/18/1996	JMR
104637	1DC	G14	Aroclor 1016	ND	250	ug/kg		04/20/1996	04/20/1996	JNK
104637	1DC	G14	Aroclor 1221	ND	250	ug/kg		04/20/1996	04/20/1996	JNK
104637	1DC	G14	Aroclor 1232	ND	250	ug/kg		04/20/1996	04/20/1996	JNK
104637	1DC	G14	Aroclor 1242	ND	250	ug/kg		04/20/1996	04/20/1996	JNK
104637	1DC	G14	Aroclor 1248	ND	250	ug/kg		04/20/1996	04/20/1996	JNK
104637	1DC	G14	Aroclor 1254	ND	250	ug/kg		04/20/1996	04/20/1996	JNK

ıytheon Engineers & Constructors, Inc.
ıvironmental Services Laboratory Data Summary
ımmary # 26628

ɔg	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
ı4637	1DC	G14	Aroclor 1260	20000	250	ug/kg		04/20/1996	04/20/1996	JNK
ı4637	1DC	S06	WATER BY EVAP	18.7		% as received		04/19/1996	04/19/1996	MCH
04638	1EC	756PO	EXT PCB only SO			COMPLETE		04/18/1996	04/18/1996	JMR
04638	1EC	G14	Aroclor 1016	ND	240	ug/kg		04/20/1996	04/20/1996	JNK
04638	1EC	G14	Aroclor 1221	ND	240	ug/kg		04/20/1996	04/20/1996	JNK
04638	1EC	G14	Aroclor 1232	ND	240	ug/kg		04/20/1996	04/20/1996	JNK
04638	1EC	G14	Aroclor 1242	ND	240	ug/kg		04/20/1996	04/20/1996	JNK
04638	1EC	G14	Aroclor 1248	ND	240	ug/kg		04/20/1996	04/20/1996	JNK
04638	1EC	G14	Aroclor 1254	ND	240	ug/kg		04/20/1996	04/20/1996	JNK
04638	1EC	G14	Aroclor 1260	21000	240	ug/kg		04/20/1996	04/20/1996	JNK
04638	1EC	S06	WATER BY EVAP	17.0		% as received		04/19/1996	04/19/1996	MCH
ı04639	1FC	756PO	EXT PCB only SO			COMPLETE		04/18/1996	04/18/1996	JMR
ı04639	1FC	G14	Aroclor 1016	ND	230	ug/kg		04/20/1996	04/20/1996	JNK
ı04639	1FC	G14	Aroclor 1221	ND	230	ug/kg		04/20/1996	04/20/1996	JNK
ı04639	1FC	G14	Aroclor 1232	ND	230	ug/kg		04/20/1996	04/20/1996	JNK
ı04639	1FC	G14	Aroclor 1242	ND	230	ug/kg		04/20/1996	04/20/1996	JNK
ı04639	1FC	G14	Aroclor 1248	ND	230	ug/kg		04/20/1996	04/20/1996	JNK
ı04639	1FC	G14	Aroclor 1254	ND	230	ug/kg		04/20/1996	04/20/1996	JNK
ı04639	1FC	G14	Aroclor 1260	25000	230	ug/kg		04/20/1996	04/20/1996	JNK
ı04639	1FC	S06	WATER BY EVAP	14.4		% as received		04/19/1996	04/19/1996	MCH
104640	1GC	756PO	EXT PCB only SO			COMPLETE		04/18/1996	04/18/1996	JMR
104640	1GC	G14	Aroclor 1016	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
104640	1GC	G14	Aroclor 1221	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
104640	1GC	G14	Aroclor 1232	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
104640	1GC	G14	Aroclor 1242	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
104640	1GC	G14	Aroclor 1248	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
104640	1GC	G14	Aroclor 1254	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
104640	1GC	G14	Aroclor 1260	86000	2400	ug/kg		04/22/1996	04/22/1996	JNK
104640	1GC	S06	WATER BY EVAP	15.1		% as received		04/19/1996	04/19/1996	MCH
104641	1HC	756PO	EXT PCB only SO			COMPLETE		04/18/1996	04/18/1996	JMR
104641	1HC	G14	Aroclor 1016	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
104641	1HC	G14	Aroclor 1221	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
104641	1HC	G14	Aroclor 1232	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
104641	1HC	G14	Aroclor 1242	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
104641	1HC	G14	Aroclor 1248	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK

theon Engineers & Constructors, Inc.
ironmental Services Laboratory Data Summary
mary # 26628

g	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
641	1HC	G14	Aroclor 1254	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
641	1HC	G14	Aroclor 1260	55000	2300	ug/kg		04/22/1996	04/22/1996	JNK
641	1HC	S06	WATER BY EVAP	14.7		% as received		04/19/1996	04/19/1996	MCH
642	1IC	756PO	EXT PCB only SO			COMPLETE		04/18/1996	04/18/1996	JMR
642	1IC	G14	Aroclor 1016	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
642	1IC	G14	Aroclor 1221	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
642	1IC	G14	Aroclor 1232	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
642	1IC	G14	Aroclor 1242	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
642	1IC	G14	Aroclor 1248	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
642	1IC	G14	Aroclor 1254	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
642	1IC	G14	Aroclor 1260	55000	2400	ug/kg		04/22/1996	04/22/1996	JNK
642	1IC	S06	WATER BY EVAP	15.7		% as received		04/19/1996	04/19/1996	MCH
643	1JC	756PO	EXT PCB only SO			COMPLETE		04/18/1996	04/18/1996	JMR
643	1JC	G14	Aroclor 1016	ND	4800	ug/kg		04/22/1996	04/22/1996	JNK
643	1JC	G14	Aroclor 1221	ND	4800	ug/kg		04/22/1996	04/22/1996	JNK
643	1JC	G14	Aroclor 1232	ND	4800	ug/kg		04/22/1996	04/22/1996	JNK
643	1JC	G14	Aroclor 1242	ND	4800	ug/kg		04/22/1996	04/22/1996	JNK
643	1JC	G14	Aroclor 1248	ND	4800	ug/kg		04/22/1996	04/22/1996	JNK
643	1JC	G14	Aroclor 1254	ND	4800	ug/kg		04/22/1996	04/22/1996	JNK
643	1JC	G14	Aroclor 1260	140000	4800	ug/kg		04/22/1996	04/22/1996	JNK
643	1JC	S06	WATER BY EVAP	16.1		% as received		04/19/1996	04/19/1996	MCH
644	1KC	756PO	EXT PCB only SO			COMPLETE		04/18/1996	04/18/1996	JMR
644	1KC	G14	Aroclor 1016	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
644	1KC	G14	Aroclor 1221	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
644	1KC	G14	Aroclor 1232	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
644	1KC	G14	Aroclor 1242	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
644	1KC	G14	Aroclor 1248	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
644	1KC	G14	Aroclor 1254	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
644	1KC	G14	Aroclor 1260	56000	2400	ug/kg		04/22/1996	04/22/1996	JNK
644	1KC	S06	WATER BY EVAP	15.1		% as received		04/19/1996	04/19/1996	MCH
645	1LC	756PO	EXT PCB only SO			COMPLETE		04/18/1996	04/18/1996	JMR
645	1LC	G14	Aroclor 1016	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
645	1LC	G14	Aroclor 1221	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
645	1LC	G14	Aroclor 1232	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
645	1LC	G14	Aroclor 1242	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK

'theon Engineers & Constructors, Inc.
'ironmental Services Laboratory Data Summary
amary # 26628

g	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
645	1LC	G14	Aroclor 1248	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
645	1LC	G14	Aroclor 1254	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
645	1LC	G14	Aroclor 1260	78000	2300	ug/kg		04/22/1996	04/22/1996	JNK
645	1LC	S06	WATER BY EVAP	14.3		% as received		04/19/1996	04/19/1996	MCH
4646	1MC	756PO	EXT PCB only SO			COMPLETE		04/18/1996	04/18/1996	JMR
4646	1MC	G14	Aroclor 1016	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
4646	1MC	G14	Aroclor 1221	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
4646	1MC	G14	Aroclor 1232	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
4646	1MC	G14	Aroclor 1242	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
4646	1MC	G14	Aroclor 1248	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
4646	1MC	G14	Aroclor 1254	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
4646	1MC	G14	Aroclor 1260	70000	2300	ug/kg		04/22/1996	04/22/1996	JNK
4646	1MC	S06	WATER BY EVAP	11.7		% as received		04/19/1996	04/19/1996	MCH
04647	1NC	756PO	EXT PCB only SO			COMPLETE		04/18/1996	04/18/1996	JMR
04647	1NC	G14	Aroclor 1016	ND	4600	ug/kg		04/22/1996	04/22/1996	JNK
04647	1NC	G14	Aroclor 1221	ND	4600	ug/kg		04/22/1996	04/22/1996	JNK
04647	1NC	G14	Aroclor 1232	ND	4600	ug/kg		04/22/1996	04/22/1996	JNK
04647	1NC	G14	Aroclor 1242	ND	4600	ug/kg		04/22/1996	04/22/1996	JNK
04647	1NC	G14	Aroclor 1248	ND	4600	ug/kg		04/22/1996	04/22/1996	JNK
04647	1NC	G14	Aroclor 1254	ND	4600	ug/kg		04/22/1996	04/22/1996	JNK
04647	1NC	G14	Aroclor 1260	130000	4600	ug/kg		04/22/1996	04/22/1996	JNK
04647	1NC	S06	WATER BY EVAP	13.8		% as received		04/19/1996	04/19/1996	MCH
04648	1OC	756PO	EXT PCB only SO			COMPLETE		04/18/1996	04/18/1996	JMR
04648	1OC	G14	Aroclor 1016	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
04648	1OC	G14	Aroclor 1221	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
104648	1OC	G14	Aroclor 1232	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
104648	1OC	G14	Aroclor 1242	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
104648	1OC	G14	Aroclor 1248	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
104648	1OC	G14	Aroclor 1254	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
104648	1OC	G14	Aroclor 1260	96000	2400	ug/kg		04/22/1996	04/22/1996	JNK
104648	1OC	S06	WATER BY EVAP	17.8		% as received		04/19/1996	04/19/1996	MCH
104649	1PC	756PO	EXT PCB only SO			COMPLETE		04/18/1996	04/18/1996	JMR
104649	1PC	G14	Aroclor 1016	ND	4800	ug/kg		04/22/1996	04/22/1996	JNK
104649	1PC	G14	Aroclor 1221	ND	4800	ug/kg		04/22/1996	04/22/1996	JNK
104649	1PC	G14	Aroclor 1232	ND	4800	ug/kg		04/22/1996	04/22/1996	JNK

ytheon Engineers & Constructors, Inc.
ıvironmental Services Laboratory Data Summary
ımmary # 26628

ɔg	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
ı4649	1PC	G14	Aroclor 1242	ND	4800	ug/kg		04/22/1996	04/22/1996	JNK
ı4649	1PC	G14	Aroclor 1248	ND	4800	ug/kg		04/22/1996	04/22/1996	JNK
ı4649	1PC	G14	Aroclor 1254	ND	4800	ug/kg		04/22/1996	04/22/1996	JNK
ı4649	1PC	G14	Aroclor 1260	360000	4800	ug/kg		04/22/1996	04/22/1996	JNK
ɔ4649	1PC	S06	WATER BY EVAP	16.5		% as received		04/19/1996	04/19/1996	MCH
04650	1QC	756PO	EXT PCB only SO			COMPLETE		04/18/1996	04/18/1996	JMR
04650	1QC	G14	Aroclor 1016	ND	4500	ug/kg		04/22/1996	04/22/1996	JNK
04650	1QC	G14	Aroclor 1221	ND	4500	ug/kg		04/22/1996	04/22/1996	JNK
04650	1QC	G14	Aroclor 1232	ND	4500	ug/kg		04/22/1996	04/22/1996	JNK
04650	1QC	G14	Aroclor 1242	ND	4500	ug/kg		04/22/1996	04/22/1996	JNK
04650	1QC	G14	Aroclor 1248	ND	4500	ug/kg		04/22/1996	04/22/1996	JNK
.04650	1QC	G14	Aroclor 1254	ND	4500	ug/kg		04/22/1996	04/22/1996	JNK
104650	1QC	G14	Aroclor 1260	120000	4500	ug/kg		04/22/1996	04/22/1996	JNK
104650	1QC	S06	WATER BY EVAP	12.0		% as received		04/19/1996	04/19/1996	MCH
104651	1AG	756PO	EXT PCB only SO			COMPLETE		04/18/1996	04/18/1996	JMR
104651	1AG	G14	Aroclor 1016	ND	220	ug/kg		04/20/1996	04/20/1996	JNK
104651	1AG	G14	Aroclor 1221	ND	220	ug/kg		04/20/1996	04/20/1996	JNK
104651	1AG	G14	Aroclor 1232	ND	220	ug/kg		04/20/1996	04/20/1996	JNK
104651	1AG	G14	Aroclor 1242	ND	220	ug/kg		04/20/1996	04/20/1996	JNK
104651	1AG	G14	Aroclor 1248	ND	220	ug/kg		04/20/1996	04/20/1996	JNK
104651	1AG	G14	Aroclor 1254	ND	220	ug/kg		04/20/1996	04/20/1996	JNK
104651	1AG	G14	Aroclor 1260	12000	220	ug/kg		04/20/1996	04/20/1996	JNK
104651	1AG	S06	WATER BY EVAP	10.0		% as received		04/19/1996	04/19/1996	MCH
104652	1BG	756PO	EXT PCB only SO			COMPLETE		04/18/1996	04/18/1996	JMR
104652	1BG	G14	Aroclor 1016	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
104652	1BG	G14	Aroclor 1221	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
104652	1BG	G14	Aroclor 1232	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
104652	1BG	G14	Aroclor 1242	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
104652	1BG	G14	Aroclor 1248	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
104652	1BG	G14	Aroclor 1254	ND	2400	ug/kg		04/22/1996	04/22/1996	JNK
104652	1BG	G14	Aroclor 1260	46000	2400	ug/kg		04/22/1996	04/22/1996	JNK
104652	1BG	S06	WATER BY EVAP	16.3		% as received		04/19/1996	04/19/1996	MCH
104653	1CG	756PO	EXT PCB only SO			COMPLETE		04/18/1996	04/18/1996	JMR
104653	1CG	G14	Aroclor 1016	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
104653	1CG	G14	Aroclor 1221	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK

:heon Engineers & Constructors, Inc.
lronmental Services Laboratory Data Summary
nary # 26628

Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
53 1CG	G14	Aroclor 1232	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
53 1CG	G14	Aroclor 1242	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
53 1CG	G14	Aroclor 1248	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
53 1CG	G14	Aroclor 1254	ND	2300	ug/kg		04/22/1996	04/22/1996	JNK
653 1CG	G14	Aroclor 1260	100000	2300	ug/kg		04/22/1996	04/22/1996	JNK
653 1CG	S06	WATER BY EVAP	11.8		% as received		04/19/1996	04/19/1996	MCH
654 2AC	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
654 2AC	G14	Aroclor 1016	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
654 2AC	G14	Aroclor 1221	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
654 2AC	G14	Aroclor 1232	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
654 2AC	G14	Aroclor 1242	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
654 2AC	G14	Aroclor 1248	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
4654 2AC	G14	Aroclor 1254	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
4654 2AC	G14	Aroclor 1260	1200	200	ug/kg		04/20/1996	04/20/1996	JNK
4654 2AC	S06	WATER BY EVAP	2.0		% as received		04/19/1996	04/19/1996	MCH
4655 2BC	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
4655 2BC	G14	Aroclor 1016	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
4655 2BC	G14	Aroclor 1221	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
4655 2BC	G14	Aroclor 1232	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
4655 2BC	G14	Aroclor 1242	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
4655 2BC	G14	Aroclor 1248	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
04655 2BC	G14	Aroclor 1254	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
04655 2BC	G14	Aroclor 1260	2800	200	ug/kg		04/20/1996	04/20/1996	JNK
04655 2BC	S06	WATER BY EVAP	2.3		% as received		04/19/1996	04/19/1996	MCH
04656 2CC	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
04656 2CC	G14	Aroclor 1016	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
104656 2CC	G14	Aroclor 1221	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
104656 2CC	G14	Aroclor 1232	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
104656 2CC	G14	Aroclor 1242	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
104656 2CC	G14	Aroclor 1248	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
104656 2CC	G14	Aroclor 1254	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
104656 2CC	G14	Aroclor 1260	2000	200	ug/kg		04/20/1996	04/20/1996	JNK
104656 2CC	S06	WATER BY EVAP	1.3		% as received		04/19/1996	04/19/1996	MCH
104657 2DC	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
104657 2DC	G14	Aroclor 1016	ND	200	ug/kg		04/20/1996	04/20/1996	JNK

ytheon Engineers & Constructors, Inc.
vironmental Services Laboratory Data Summary
mmary # 26628

ıg	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
4657	2DC	G14	Aroclor 1221	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
4657	2DC	G14	Aroclor 1232	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
4657	2DC	G14	Aroclor 1242	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
4657	2DC	G14	Aroclor 1248	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
4657	2DC	G14	Aroclor 1254	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
4657	2DC	G14	Aroclor 1260	6400	200	ug/kg		04/20/1996	04/20/1996	JNK
4657	2DC	S06	WATER BY EVAP	2.2		% as received		04/19/1996	04/19/1996	MCH
04658	2EC	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
04658	2EC	G14	Aroclor 1016	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
04658	2EC	G14	Aroclor 1221	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
04658	2EC	G14	Aroclor 1232	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
04658	2EC	G14	Aroclor 1242	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
04658	2EC	G14	Aroclor 1248	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
04658	2EC	G14	Aroclor 1254	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
04658	2EC	G14	Aroclor 1260	10000	200	ug/kg		04/20/1996	04/20/1996	JNK
04658	2EC	S06	WATER BY EVAP	1.6		% as received		04/19/1996	04/19/1996	MCH
04659	2FC	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
104659	2FC	G14	Aroclor 1016	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
104659	2FC	G14	Aroclor 1221	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
104659	2FC	G14	Aroclor 1232	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
104659	2FC	G14	Aroclor 1242	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
104659	2FC	G14	Aroclor 1248	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
104659	2FC	G14	Aroclor 1254	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
104659	2FC	G14	Aroclor 1260	3400	200	ug/kg		04/20/1996	04/20/1996	JNK
104659	2FC	S06	WATER BY EVAP	2.0		% as received		04/19/1996	04/19/1996	MCH
104660	2GC	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
104660	2GC	G14	Aroclor 1016	ND	210	ug/kg		04/20/1996	04/20/1996	JNK
104660	2GC	G14	Aroclor 1221	ND	210	ug/kg		04/20/1996	04/20/1996	JNK
104660	2GC	G14	Aroclor 1232	ND	210	ug/kg		04/20/1996	04/20/1996	JNK
104660	2GC	G14	Aroclor 1242	ND	210	ug/kg		04/20/1996	04/20/1996	JNK
104660	2GC	G14	Aroclor 1248	ND	210	ug/kg		04/20/1996	04/20/1996	JNK
104660	2GC	G14	Aroclor 1254	ND	210	ug/kg		04/20/1996	04/20/1996	JNK
104660	2GC	G14	Aroclor 1260	15000	210	ug/kg		04/20/1996	04/20/1996	JNK
104660	2GC	S06	WATER BY EVAP	5.6		% as received		04/19/1996	04/19/1996	MCH
104661	2HC	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK

:heon Engineers & Constructors, Inc.
.ronmental Services Laboratory Data Summary
ıary # 26628

Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
51 2HC	G14	Aroclor 1016	ND	210	ug/kg		04/20/1996	04/20/1996	JNK
61 2HC	G14	Aroclor 1221	ND	210	ug/kg		04/20/1996	04/20/1996	JNK
61 2HC	G14	Aroclor 1232	ND	210	ug/kg		04/20/1996	04/20/1996	JNK
61 2HC	G14	Aroclor 1242	ND	210	ug/kg		04/20/1996	04/20/1996	JNK
61 2HC	G14	Aroclor 1248	ND	210	ug/kg		04/20/1996	04/20/1996	JNK
561 2HC	G14	Aroclor 1254	ND	210	ug/kg		04/20/1996	04/20/1996	JNK
561 2HC	G14	Aroclor 1260	12000	210	ug/kg		04/20/1996	04/20/1996	JNK
661 2HC	S06	WATER BY EVAP	3.8		% as received		04/19/1996	04/19/1996	MCH
662 2AG	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
662 2AG	G14	Aroclor 1016	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
662 2AG	G14	Aroclor 1221	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
662 2AG	G14	Aroclor 1232	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
662 2AG	G14	Aroclor 1242	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
662 2AG	G14	Aroclor 1248	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
662 2AG	G14	Aroclor 1254	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
662 2AG	G14	Aroclor 1260	1000	200	ug/kg		04/20/1996	04/20/1996	JNK
662 2AG	S06	WATER BY EVAP	1.9		% as received		04/19/1996	04/19/1996	MCH
4663 2BG	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
4663 2BG	G14	Aroclor 1016	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
4663 2BG	G14	Aroclor 1221	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
4663 2BG	G14	Aroclor 1232	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
4663 2BG	G14	Aroclor 1242	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
4663 2BG	G14	Aroclor 1248	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
4663 2BG	G14	Aroclor 1254	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
4663 2BG	G14	Aroclor 1260	1900	200	ug/kg		04/20/1996	04/20/1996	JNK
4663 2BG	S06	WATER BY EVAP	2.4		% as received		04/19/1996	04/19/1996	MCH
04664 2CG	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
04664 2CG	G14	Aroclor 1016	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
04664 2CG	G14	Aroclor 1221	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
04664 2CG	G14	Aroclor 1232	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
04664 2CG	G14	Aroclor 1242	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
04664 2CG	G14	Aroclor 1248	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
04664 2CG	G14	Aroclor 1254	ND	200	ug/kg		04/20/1996	04/20/1996	JNK
04664 2CG	G14	Aroclor 1260	1800	200	ug/kg		04/20/1996	04/20/1996	JNK
04664 2CG	S06	WATER BY EVAP	1.3		% as received		04/19/1996	04/19/1996	MCH

theon Engineers & Constructors, Inc.
ironmental Services Laboratory Data Summary
mary # 26628

Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
565 2DG	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
565 2DG	G14	Aroclor 1016	ND	210	ug/kg		04/20/1996	04/20/1996	JNK
565 2DG	G14	Aroclor 1221	ND	210	ug/kg		04/20/1996	04/20/1996	JNK
565 2DG	G14	Aroclor 1232	ND	210	ug/kg		04/20/1996	04/20/1996	JNK
665 2DG	G14	Aroclor 1242	ND	210	ug/kg		04/20/1996	04/20/1996	JNK
665 2DG	G14	Aroclor 1248	ND	210	ug/kg		04/20/1996	04/20/1996	JNK
665 2DG	G14	Aroclor 1254	ND	210	ug/kg		04/20/1996	04/20/1996	JNK
665 2DG	G14	Aroclor 1260	29000	210	ug/kg		04/20/1996	04/20/1996	JNK
665 2DG	S06	WATER BY EVAP	3.0		% as received		04/20/1996	04/20/1996	JNK
666 2EG	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	MCH
666 2EG	G14	Aroclor 1016	ND	200	ug/kg		04/19/1996	04/19/1996	JNK
666 2EG	G14	Aroclor 1221	ND	200	ug/kg		04/21/1996	04/21/1996	JNK
666 2EG	G14	Aroclor 1232	ND	200	ug/kg		04/21/1996	04/21/1996	JNK
666 2EG	G14	Aroclor 1242	ND	200	ug/kg		04/21/1996	04/21/1996	JNK
666 2EG	G14	Aroclor 1248	ND	200	ug/kg		04/21/1996	04/21/1996	JNK
666 2EG	G14	Aroclor 1254	ND	200	ug/kg		04/21/1996	04/21/1996	JNK
666 2EG	G14	Aroclor 1260	2800	200	ug/kg		04/21/1996	04/21/1996	JNK
666 2EG	S06	WATER BY EVAP	2.0		% as received		04/21/1996	04/21/1996	JNK
667 2FG	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	MCH
667 2FG	G14	Aroclor 1016	ND	200	ug/kg		04/19/1996	04/19/1996	JNK
667 2FG	G14	Aroclor 1221	ND	200	ug/kg		04/21/1996	04/21/1996	JNK
667 2FG	G14	Aroclor 1232	ND	200	ug/kg		04/21/1996	04/21/1996	JNK
667 2FG	G14	Aroclor 1242	ND	200	ug/kg		04/21/1996	04/21/1996	JNK
667 2FG	G14	Aroclor 1248	ND	200	ug/kg		04/21/1996	04/21/1996	JNK
667 2FG	G14	Aroclor 1254	ND	200	ug/kg		04/21/1996	04/21/1996	JNK
667 2FG	G14	Aroclor 1260	7400	200	ug/kg		04/21/1996	04/21/1996	JNK
667 2FG	S06	WATER BY EVAP	1.2		% as received		04/21/1996	04/21/1996	JNK
668 3AC	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	MCH
668 3AC	G14	Aroclor 1016	ND	240	ug/kg		04/19/1996	04/19/1996	JNK
668 3AC	G14	Aroclor 1221	ND	240	ug/kg		04/21/1996	04/21/1996	JNK
668 3AC	G14	Aroclor 1232	ND	240	ug/kg		04/21/1996	04/21/1996	JNK
668 3AC	G14	Aroclor 1242	ND	240	ug/kg		04/21/1996	04/21/1996	JNK
668 3AC	G14	Aroclor 1248	ND	240	ug/kg		04/21/1996	04/21/1996	JNK
668 3AC	G14	Aroclor 1254	ND	240	ug/kg		04/21/1996	04/21/1996	JNK
668 3AC	G14	Aroclor 1260	4200	240	ug/kg		04/21/1996	04/21/1996	JNK
668 3AC	S06	WATER BY EVAP	17.4		% as received		04/19/1996	04/19/1996	MCH

theon Engineers & Constructors, Inc.
ironmental Services Laboratory Data Summary
mary # 26628

Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
569 3BC	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
569 3BC	G14	Aroclor 1016	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
669 3BC	G14	Aroclor 1221	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
669 3BC	G14	Aroclor 1232	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
669 3BC	G14	Aroclor 1242	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
.669 3BC	G14	Aroclor 1248	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
669 3BC	G14	Aroclor 1254	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
669 3BC	G14	Aroclor 1260	11000	220	ug/kg		04/21/1996	04/21/1996	JNK
669 3BC	S06	WATER BY EVAP	8.1		% as received		04/19/1996	04/19/1996	MCH
4670 3CC	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
4670 3CC	G14	Aroclor 1016	ND	11	ug/kg		04/21/1996	04/21/1996	JNK
4670 3CC	G14	Aroclor 1221	ND	11	ug/kg		04/21/1996	04/21/1996	JNK
4670 3CC	G14	Aroclor 1232	ND	11	ug/kg		04/21/1996	04/21/1996	JNK
4670 3CC	G14	Aroclor 1242	ND	11	ug/kg		04/21/1996	04/21/1996	JNK
4670 3CC	G14	Aroclor 1248	ND	11	ug/kg		04/21/1996	04/21/1996	JNK
4670 3CC	G14	Aroclor 1254	ND	11	ug/kg		04/21/1996	04/21/1996	JNK
4670 3CC	G14	Aroclor 1260	6600	11	ug/kg		04/21/1996	04/21/1996	JNK
4670 3CC	S06	WATER BY EVAP	12.8		% as received		04/19/1996	04/19/1996	MCH
04671 3DC	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
04671 3DC	G14	Aroclor 1016	ND	250	ug/kg		04/21/1996	04/21/1996	JNK
04671 3DC	G14	Aroclor 1221	ND	250	ug/kg		04/21/1996	04/21/1996	JNK
04671 3DC	G14	Aroclor 1232	ND	250	ug/kg		04/21/1996	04/21/1996	JNK
04671 3DC	G14	Aroclor 1242	ND	250	ug/kg		04/21/1996	04/21/1996	JNK
04671 3DC	G14	Aroclor 1248	ND	250	ug/kg		04/21/1996	04/21/1996	JNK
04671 3DC	G14	Aroclor 1254	ND	250	ug/kg		04/21/1996	04/21/1996	JNK
04671 3DC	G14	Aroclor 1260	1100	250	ug/kg		04/21/1996	04/21/1996	JNK
04671 3DC	S06	WATER BY EVAP	20.4		% as received		04/19/1996	04/19/1996	MCH
04672 3EC	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
104672 3EC	G14	Aroclor 1016	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
104672 3EC	G14	Aroclor 1221	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
104672 3EC	G14	Aroclor 1232	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
104672 3EC	G14	Aroclor 1242	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
104672 3EC	G14	Aroclor 1248	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
104672 3EC	G14	Aroclor 1254	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
104672 3EC	G14	Aroclor 1260	900	220	ug/kg		04/21/1996	04/21/1996	JNK
104672 3EC	S06	WATER BY EVAP	10.9		% as received		04/19/1996	04/19/1996	MCH

rtheon Engineers & Constructors, Inc.
vironmental Services Laboratory Data Summary
mmary # 26628

g	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
673	3FC	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
673	3FC	G14	Aroclor 1016	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
673	3FC	G14	Aroclor 1221	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
673	3FC	G14	Aroclor 1232	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
673	3FC	G14	Aroclor 1242	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
673	3FC	G14	Aroclor 1248	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
673	3FC	G14	Aroclor 1254	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
673	3FC	G14	Aroclor 1260	1200	230	ug/kg		04/21/1996	04/21/1996	JNK
673	3FC	S06	WATER BY EVAP	11.8		% as received		04/19/1996	04/19/1996	MCH
4674	3AG	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
4674	3AG	G14	Aroclor 1016	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
4674	3AG	G14	Aroclor 1221	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
4674	3AG	G14	Aroclor 1232	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
4674	3AG	G14	Aroclor 1242	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
4674	3AG	G14	Aroclor 1248	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
4674	3AG	G14	Aroclor 1254	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
4674	3AG	G14	Aroclor 1260	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
4674	3AG	S06	WATER BY EVAP	13.4		% as received		04/19/1996	04/19/1996	MCH
04675	3BG	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
04675	3BG	G14	Aroclor 1016	ND	250	ug/kg		04/21/1996	04/21/1996	JNK
04675	3BG	G14	Aroclor 1221	ND	250	ug/kg		04/21/1996	04/21/1996	JNK
04675	3BG	G14	Aroclor 1232	ND	250	ug/kg		04/21/1996	04/21/1996	JNK
04675	3BG	G14	Aroclor 1242	ND	250	ug/kg		04/21/1996	04/21/1996	JNK
04675	3BG	G14	Aroclor 1248	ND	250	ug/kg		04/21/1996	04/21/1996	JNK
04675	3BG	G14	Aroclor 1254	ND	250	ug/kg		04/21/1996	04/21/1996	JNK
04675	3BG	G14	Aroclor 1260	2300	250	ug/kg		04/21/1996	04/21/1996	JNK
04675	3BG	S06	WATER BY EVAP	19.1		% as received		04/19/1996	04/19/1996	MCH
04676	3CG	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
04676	3CG	G14	Aroclor 1016	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
04676	3CG	G14	Aroclor 1221	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
04676	3CG	G14	Aroclor 1232	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
04676	3CG	G14	Aroclor 1242	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
04676	3CG	G14	Aroclor 1248	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
04676	3CG	G14	Aroclor 1254	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
104676	3CG	G14	Aroclor 1260	1100	220	ug/kg		04/21/1996	04/21/1996	JNK
104676	3CG	S06	WATER BY EVAP	9.8		% as received		04/19/1996	04/19/1996	MCH

'theon Engineers & Constructors, Inc.
'ironmental Services Laboratory Data Summary
mary # 26628

g	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
677	4BC	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
677	4BC	G14	Aroclor 1016	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
677	4BC	G14	Aroclor 1221	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
677	4BC	G14	Aroclor 1232	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
677	4BC	G14	Aroclor 1242	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
677	4BC	G14	Aroclor 1248	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
677	4BC	G14	Aroclor 1254	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
677	4BC	G14	Aroclor 1260	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
677	4BC	S06	WATER BY EVAP	11.8		% as received		04/19/1996	04/19/1996	MCH
4678	4CC	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
4678	4CC	G14	Aroclor 1016	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
4678	4CC	G14	Aroclor 1221	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
4678	4CC	G14	Aroclor 1232	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
4678	4CC	G14	Aroclor 1242	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
4678	4CC	G14	Aroclor 1248	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
4678	4CC	G14	Aroclor 1254	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
4678	4CC	G14	Aroclor 1260	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
4678	4CC	S06	WATER BY EVAP	10.0		% as received		04/19/1996	04/19/1996	MCH
04679	4DC	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
04679	4DC	G14	Aroclor 1016	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
04679	4DC	G14	Aroclor 1221	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
04679	4DC	G14	Aroclor 1232	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
04679	4DC	G14	Aroclor 1242	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
04679	4DC	G14	Aroclor 1248	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
04679	4DC	G14	Aroclor 1254	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
04679	4DC	G14	Aroclor 1260	13000	230	ug/kg		04/21/1996	04/21/1996	JNK
04679	4DC	S06	WATER BY EVAP	12.3		% as received		04/19/1996	04/19/1996	MCH
104680	4EC	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
104680	4EC	G14	Aroclor 1016	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
104680	4EC	G14	Aroclor 1221	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
104680	4EC	G14	Aroclor 1232	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
104680	4EC	G14	Aroclor 1242	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
104680	4EC	G14	Aroclor 1248	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
104680	4EC	G14	Aroclor 1254	ND	230	ug/kg		04/21/1996	04/21/1996	JNK
104680	4EC	G14	Aroclor 1260	14000	230	ug/kg		04/21/1996	04/21/1996	JNK
104680	4EC	S06	WATER BY EVAP	11.3		% as received		04/19/1996	04/19/1996	MCH

rtheon Engineers & Constructors, Inc.
vironmental Services Laboratory Data Summary
mmary # 26628

g	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
681	4FC	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
681	4FC	G14	Aroclor 1016	ND	240	ug/kg		04/21/1996	04/21/1996	JNK
681	4FC	G14	Aroclor 1221	ND	240	ug/kg		04/21/1996	04/21/1996	JNK
681	4FC	G14	Aroclor 1232	ND	240	ug/kg		04/21/1996	04/21/1996	JNK
681	4FC	G14	Aroclor 1242	ND	240	ug/kg		04/21/1996	04/21/1996	JNK
681	4FC	G14	Aroclor 1248	ND	240	ug/kg		04/21/1996	04/21/1996	JNK
681	4FC	G14	Aroclor 1254	ND	240	ug/kg		04/21/1996	04/21/1996	JNK
681	4FC	G14	Aroclor 1260	19000	240	ug/kg		04/21/1996	04/21/1996	JNK
681	4FC	S06	WATER BY EVAP	15.8		% as received		04/19/1996	04/19/1996	MCH
4682	4AG	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
4682	4AG	G14	Aroclor 1016	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
4682	4AG	G14	Aroclor 1221	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
4682	4AG	G14	Aroclor 1232	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
4682	4AG	G14	Aroclor 1242	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
4682	4AG	G14	Aroclor 1248	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
4682	4AG	G14	Aroclor 1254	ND	220	ug/kg		04/21/1996	04/21/1996	JNK
4682	4AG	G14	Aroclor 1260	1900	220	ug/kg		04/21/1996	04/21/1996	JNK
4682	4AG	S06	WATER BY EVAP	8.4		% as received		04/19/1996	04/19/1996	MCH
04683	4BG	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
04683	4BG	G14	Aroclor 1016	ND	230	ug/kg		04/23/1996	04/23/1996	JNK
04683	4BG	G14	Aroclor 1221	ND	230	ug/kg		04/23/1996	04/23/1996	JNK
04683	4BG	G14	Aroclor 1232	ND	230	ug/kg		04/23/1996	04/23/1996	JNK
04683	4BG	G14	Aroclor 1242	ND	230	ug/kg		04/23/1996	04/23/1996	JNK
04683	4BG	G14	Aroclor 1248	ND	230	ug/kg		04/23/1996	04/23/1996	JNK
04683	4BG	G14	Aroclor 1254	ND	230	ug/kg		04/23/1996	04/23/1996	JNK
04683	4BG	G14	Aroclor 1260	ND	230	ug/kg		04/23/1996	04/23/1996	JNK
04683	4BG	S06	WATER BY EVAP	12.1		% as received		04/19/1996	04/19/1996	MCH
04684	4CG	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
04684	4CG	G14	Aroclor 1016	ND	4600	ug/kg		04/23/1996	04/23/1996	JNK
04684	4CG	G14	Aroclor 1221	ND	4600	ug/kg		04/23/1996	04/23/1996	JNK
04684	4CG	G14	Aroclor 1232	ND	4600	ug/kg		04/23/1996	04/23/1996	JNK
04684	4CG	G14	Aroclor 1242	ND	4600	ug/kg		04/23/1996	04/23/1996	JNK
04684	4CG	G14	Aroclor 1248	ND	4600	ug/kg		04/23/1996	04/23/1996	JNK
04684	4CG	G14	Aroclor 1254	ND	4600	ug/kg		04/23/1996	04/23/1996	JNK
04684	4CG	G14	Aroclor 1260	80000	4600	ug/kg		04/23/1996	04/23/1996	JNK
04684	4CG	S06	WATER BY EVAP	13.8		% as received		04/19/1996	04/19/1996	MCH

:heon Engineers & Constructors, Inc.
ıronmental Services Laboratory Data Summary
ıary # 26628

Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
29 4AC	756PO	EXT PCB only SO			COMPLETE		04/19/1996	04/19/1996	JNK
29 4AC	G14	Aroclor 1016	ND	220	ug/kg		04/22/1996	04/22/1996	JNK
29 4AC	G14	Aroclor 1221	ND	220	ug/kg		04/22/1996	04/22/1996	JNK
'29 4AC	G14	Aroclor 1232	ND	220	ug/kg		04/22/1996	04/22/1996	JNK
'29 4AC	G14	Aroclor 1242	ND	220	ug/kg		04/22/1996	04/22/1996	JNK
729 4AC	G14	Aroclor 1248	ND	220	ug/kg		04/22/1996	04/22/1996	JNK
729 4AC	G14	Aroclor 1254	ND	220	ug/kg		04/22/1996	04/22/1996	JNK
729 4AC	G14	Aroclor 1260	420	220	ug/kg		04/22/1996	04/22/1996	JNK
729 4AC	S06	WATER BY EVAP	7.7		% as received		04/22/1996	04/22/1996	MCH

Approved by: Michael Mah

Report Prep: K. E. Wolfe

Sampling Event No. 2 included 29 initial samples taken from various areas:

- northeast corner of Bldg 10 - A1/A2 (Grid 0A)
- west of Track 4 - Area C2 (Grid 7D and 6D)
- along Track No. 1 (near Bldg 35; 4G, 4F, 5G)

theon Engineers & Constructors, Inc.
ironmental Services Laboratory Data Summary
mary # 26678

Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
948 5AC	756PO	EXT PCB only SO			COMPLETE		04/24/1996	04/24/1996	JMR
948 5AC	G14	Aroclor 1016	ND	12000	ug/kg		04/26/1996	04/26/1996	JNK
948 5AC	G14	Aroclor 1221	ND	12000	ug/kg		04/26/1996	04/26/1996	JNK
948 5AC	G14	Aroclor 1232	ND	12000	ug/kg		04/26/1996	04/26/1996	JNK
948 5AC	G14	Aroclor 1242	ND	12000	ug/kg		04/26/1996	04/26/1996	JNK
948 5AC	G14	Aroclor 1248	ND	12000	ug/kg		04/26/1996	04/26/1996	JNK
4948 5AC	G14	Aroclor 1254	ND	12000	ug/kg		04/26/1996	04/26/1996	JNK
4948 5AC	G14	Aroclor 1260	330000	12000	ug/kg		04/26/1996	04/26/1996	JNK
4948 5AC	S06	WATER BY EVAP	14.4		% as received		04/24/1996	04/25/1996	MCH
4949 5BC	G14	Aroclor 1016	ND	220	ug/kg		04/25/1996	04/25/1996	JNK
4949 5BC	G14	Aroclor 1232	ND	220	ug/kg		04/25/1996	04/25/1996	JNK
4949 5BC	G14	Aroclor 1242	ND	220	ug/kg		04/25/1996	04/25/1996	JNK
4949 5BC	G14	Aroclor 1248	ND	220	ug/kg		04/25/1996	04/25/1996	JNK
4949 5BC	G14	Aroclor 1254	ND	220	ug/kg		04/25/1996	04/25/1996	JNK
4949 5BC	G14	Aroclor 1260	26000	220	ug/kg		04/25/1996	04/25/1996	JNK
4949 5BC	G14	Aroclor 1221	ND	220	ug/kg		04/25/1996	04/25/1996	JNK
4949 5BC	S06	WATER BY EVAP	7.9		% as received		04/24/1996	04/25/1996	MCH
04950 5CC	756PO	EXT PCB only SO			COMPLETE		04/24/1996	04/24/1996	JMR
04950 5CC	G14	Aroclor 1016	ND	220	ug/kg		04/25/1996	04/25/1996	JNK
04950 5CC	G14	Aroclor 1221	ND	220	ug/kg		04/25/1996	04/25/1996	JNK
04950 5CC	G14	Aroclor 1242	ND	220	ug/kg		04/25/1996	04/25/1996	JNK
04950 5CC	G14	Aroclor 1248	ND	220	ug/kg		04/25/1996	04/25/1996	JNK
04950 5CC	G14	Aroclor 1254	ND	220	ug/kg		04/25/1996	04/25/1996	JNK
04950 5CC	G14	Aroclor 1260	33000	220	ug/kg		04/25/1996	04/25/1996	JNK
04950 5CC	G14	Aroclor 1232	ND	220	ug/kg		04/25/1996	04/25/1996	JNK
04950 5CC	S06	WATER BY EVAP	10.8		% as received		04/24/1996	04/25/1996	MCH
104951 5DC	756PO	EXT PCB only SO			COMPLETE		04/24/1996	04/24/1996	JMR
104951 5DC	G14	Aroclor 1016	ND	1100	ug/kg		04/26/1996	04/26/1996	JNK
104951 5DC	G14	Aroclor 1221	ND	1100	ug/kg		04/26/1996	04/26/1996	JNK
104951 5DC	G14	Aroclor 1242	ND	1100	ug/kg		04/26/1996	04/26/1996	JNK
104951 5DC	G14	Aroclor 1248	ND	1100	ug/kg		04/26/1996	04/26/1996	JNK
104951 5DC	G14	Aroclor 1254	ND	1100	ug/kg		04/26/1996	04/26/1996	JNK
104951 5DC	G14	Aroclor 1260	74000	1100	ug/kg		04/26/1996	04/26/1996	JNK
104951 5DC	G14	Aroclor 1232	ND	1100	ug/kg		04/26/1996	04/26/1996	JNK

ytheon Engineers & Constructors, Inc.
vironmental Services Laboratory Data Summary
mmary # 26678

g	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
4951	5DC	S06	WATER BY EVAP	9.9		% as received		04/24/1996	04/25/1996	MCH
4952	5EC	756PO	EXT PCB only SO			COMPLETE		04/24/1996	04/24/1996	JMR
4952	5EC	G14	Aroclor 1016	ND	2200	ug/kg		04/26/1996	04/26/1996	JNK
4952	5EC	G14	Aroclor 1221	ND	2200	ug/kg		04/26/1996	04/26/1996	JNK
4952	5EC	G14	Aroclor 1232	ND	2200	ug/kg		04/26/1996	04/26/1996	JNK
4952	5EC	G14	Aroclor 1242	ND	2200	ug/kg		04/26/1996	04/26/1996	JNK
4952	5EC	G14	Aroclor 1248	ND	2200	ug/kg		04/26/1996	04/26/1996	JNK
4952	5EC	G14	Aroclor 1260	96000	2200	ug/kg		04/26/1996	04/26/1996	JNK
4952	5EC	G14	Aroclor 1254	ND	2200	ug/kg		04/26/1996	04/26/1996	JNK
4952	5EC	S06	WATER BY EVAP	9.7		% as received		04/24/1996	04/25/1996	MCH
04953	5FC	756PO	EXT PCB only SO			COMPLETE		04/24/1996	04/24/1996	JMR
04953	5FC	G14	Aroclor 1016	ND	2300	ug/kg		04/26/1996	04/26/1996	JNK
04953	5FC	G14	Aroclor 1221	ND	2300	ug/kg		04/26/1996	04/26/1996	JNK
04953	5FC	G14	Aroclor 1232	ND	2300	ug/kg		04/26/1996	04/26/1996	JNK
04953	5FC	G14	Aroclor 1242	ND	2300	ug/kg		04/26/1996	04/26/1996	JNK
04953	5FC	G14	Aroclor 1248	ND	2300	ug/kg		04/26/1996	04/26/1996	JNK
04953	5FC	G14	Aroclor 1254	ND	2300	ug/kg		04/26/1996	04/26/1996	JNK
04953	5FC	G14	Aroclor 1260	89000	2300	ug/kg		04/26/1996	04/26/1996	JNK
04953	5FC	S06	WATER BY EVAP	11.5		% as received		04/24/1996	04/25/1996	MCH
104954	5GC	756PO	EXT PCB only SO			COMPLETE		04/24/1996	04/24/1996	JMR
104954	5GC	G14	Aroclor 1016	ND	11000	ug/kg		04/26/1996	04/26/1996	JNK
104954	5GC	G14	Aroclor 1221	ND	11000	ug/kg		04/26/1996	04/26/1996	JNK
104954	5GC	G14	Aroclor 1232	ND	11000	ug/kg		04/26/1996	04/26/1996	JNK
104954	5GC	G14	Aroclor 1242	ND	11000	ug/kg		04/26/1996	04/26/1996	JNK
104954	5GC	G14	Aroclor 1254	ND	11000	ug/kg		04/26/1996	04/26/1996	JNK
104954	5GC	G14	Aroclor 1260	480000	11000	ug/kg		04/26/1996	04/26/1996	JNK
104954	5GC	G14	Aroclor 1248	ND	11000	ug/kg		04/26/1996	04/26/1996	JNK
104954	5GC	S06	WATER BY EVAP	11.5		% as received		04/24/1996	04/25/1996	MCH
104955	5HC	756PO	EXT PCB only SO			COMPLETE		04/24/1996	04/24/1996	JMR
104955	5HC	G14	Aroclor 1016	ND	2400	ug/kg		04/26/1996	04/26/1996	JNK
104955	5HC	G14	Aroclor 1221	ND	2400	ug/kg		04/26/1996	04/26/1996	JNK
104955	5HC	G14	Aroclor 1232	ND	2400	ug/kg		04/26/1996	04/26/1996	JNK
104955	5HC	G14	Aroclor 1242	ND	2400	ug/kg		04/26/1996	04/26/1996	JNK
104955	5HC	G14	Aroclor 1248	ND	2400	ug/kg		04/26/1996	04/26/1996	JNK
104955	5HC	G14	Aroclor 1254	ND	2400	ug/kg		04/26/1996	04/26/1996	JNK

:heon Engineers & Constructors, Inc.
lronmental Services Laboratory Data Summary
nary # 26678

Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
55 5HC	G14	Aroclor 1260	140000	2400	ug/kg		04/26/1996	04/26/1996	JNK
55 5HC	S06	WATER BY EVAP	17.1		% as received		04/24/1996	04/25/1996	MCH
956 51C	756PO	EXT PCB only SO			COMPLETE		04/24/1996	04/24/1996	JHR
956 51C	G14	Aroclor 1016	ND	1200	ug/kg		04/26/1996	04/26/1996	JNK
956 51C	G14	Aroclor 1221	ND	1200	ug/kg		04/26/1996	04/26/1996	JNK
956 51C	G14	Aroclor 1232	ND	1200	ug/kg		04/26/1996	04/26/1996	JNK
956 51C	G14	Aroclor 1242	ND	1200	ug/kg		04/26/1996	04/26/1996	JNK
956 51C	G14	Aroclor 1248	ND	1200	ug/kg		04/26/1996	04/26/1996	JNK
956 51C	G14	Aroclor 1254	ND	1200	ug/kg		04/26/1996	04/26/1996	JNK
4956 51C	G14	Aroclor 1260	66000	1200	ug/kg		04/26/1996	04/26/1996	JNK
4956 51C	S06	WATER BY EVAP	16.7		% as received		04/24/1996	04/25/1996	MCH
4957 5JC	756PO	EXT PCB only SO			COMPLETE		04/24/1996	04/24/1996	JHR
4957 5JC	G14	Aroclor 1016	ND	4700	ug/kg		04/26/1996	04/26/1996	JNK
4957 5JC	G14	Aroclor 1221	ND	4700	ug/kg		04/26/1996	04/26/1996	JNK
4957 5JC	G14	Aroclor 1232	ND	4700	ug/kg		04/26/1996	04/26/1996	JNK
4957 5JC	G14	Aroclor 1242	ND	4700	ug/kg		04/26/1996	04/26/1996	JNK
4957 5JC	G14	Aroclor 1248	ND	4700	ug/kg		04/26/1996	04/26/1996	JNK
04957 5JC	G14	Aroclor 1254	ND	4700	ug/kg		04/26/1996	04/26/1996	JNK
04957 5JC	G14	Aroclor 1260	160000	4700	ug/kg		04/26/1996	04/26/1996	JNK
04957 5JC	S06	WATER BY EVAP	14.9		% as received		04/24/1996	04/25/1996	MCH
04958 5KC	756PO	EXT PCB only SO			COMPLETE		04/24/1996	04/24/1996	JHR
04958 5KC	G14	Aroclor 1016	ND	230	ug/kg		04/25/1996	04/25/1996	JNK
04958 5KC	G14	Aroclor 1221	ND	230	ug/kg		04/25/1996	04/25/1996	JNK
04958 5KC	G14	Aroclor 1232	ND	230	ug/kg		04/25/1996	04/25/1996	JNK
04958 5KC	G14	Aroclor 1242	ND	230	ug/kg		04/25/1996	04/25/1996	JNK
04958 5KC	G14	Aroclor 1248	ND	230	ug/kg		04/25/1996	04/25/1996	JNK
04958 5KC	G14	Aroclor 1254	ND	230	ug/kg		04/25/1996	04/25/1996	JNK
04958 5KC	G14	Aroclor 1260	15000	230	ug/kg		04/25/1996	04/25/1996	JNK
04958 5KC	S06	WATER BY EVAP	11.3		% as received		04/24/1996	04/25/1996	MCH
04959 5LC	756PO	EXT PCB only SO			COMPLETE		04/24/1996	04/24/1996	JHR
04959 5LC	G14	Aroclor 1016	ND	1200	ug/kg		04/26/1996	04/26/1996	JNK
04959 5LC	G14	Aroclor 1221	ND	1200	ug/kg		04/26/1996	04/26/1996	JNK
04959 5LC	G14	Aroclor 1232	ND	1200	ug/kg		04/26/1996	04/26/1996	JNK
04959 5LC	G14	Aroclor 1242	ND	1200	ug/kg		04/26/1996	04/26/1996	JNK
04959 5LC	G14	Aroclor 1248	ND	1200	ug/kg		04/26/1996	04/26/1996	JNK

ytheon Engineers & Constructors, Inc.
vironmental Services Laboratory Data Summary
mmary # 26678

g	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
4959	5LC	G14	Aroclor 1254	ND	1200	ug/kg		04/26/1996	04/26/1996	JNK
4959	5LC	G14	Aroclor 1260	77000	1200	ug/kg		04/26/1996	04/26/1996	JNK
4959	5LC	S06	WATER BY EVAP	16.3		% as received		04/24/1996	04/25/1996	MCH
4960	5MC	756PO	EXT PCB only SO			COMPLETE		04/24/1996	04/24/1996	JMR
4960	5MC	G14	Aroclor 1016	ND	240	ug/kg		04/25/1996	04/25/1996	JNK
4960	5MC	G14	Aroclor 1221	ND	240	ug/kg		04/25/1996	04/25/1996	JNK
4960	5MC	G14	Aroclor 1232	ND	240	ug/kg		04/25/1996	04/25/1996	JNK
4960	5MC	G14	Aroclor 1242	ND	240	ug/kg		04/25/1996	04/25/1996	JNK
4960	5MC	G14	Aroclor 1248	ND	240	ug/kg		04/25/1996	04/25/1996	JNK
4960	5MC	G14	Aroclor 1254	ND	240	ug/kg		04/25/1996	04/25/1996	JNK
04960	5MC	G14	Aroclor 1260	32000	240	ug/kg		04/25/1996	04/25/1996	JNK
04960	5MC	S06	WATER BY EVAP	17.1		% as received		04/24/1996	04/25/1996	MCH
04961	6A	756PO	EXT PCB only SO			COMPLETE		04/24/1996	04/24/1996	JMR
04961	6A	G14	Aroclor 1016	ND	1100	ug/kg		04/26/1996	04/26/1996	JNK
04961	6A	G14	Aroclor 1221	ND	1100	ug/kg		04/26/1996	04/26/1996	JNK
04961	6A	G14	Aroclor 1232	ND	1100	ug/kg		04/26/1996	04/26/1996	JNK
04961	6A	G14	Aroclor 1242	ND	1100	ug/kg		04/26/1996	04/26/1996	JNK
04961	6A	G14	Aroclor 1248	ND	1100	ug/kg		04/26/1996	04/26/1996	JNK
104961	6A	G14	Aroclor 1254	ND	1100	ug/kg		04/26/1996	04/26/1996	JNK
104961	6A	G14	Aroclor 1260	66000	1100	ug/kg		04/26/1996	04/26/1996	JNK
104961	6A	S06	WATER BY EVAP	10.8		% as received		04/24/1996	04/25/1996	MCH
104962	6B	756PO	EXT PCB only SO			COMPLETE		04/24/1996	04/24/1996	JMR
104962	6B	G14	Aroclor 1221	ND	4700	ug/kg		04/26/1996	04/26/1996	JNK
104962	6B	G14	Aroclor 1232	ND	4700	ug/kg		04/26/1996	04/26/1996	JNK
104962	6B	G14	Aroclor 1242	ND	4700	ug/kg		04/26/1996	04/26/1996	JNK
104962	6B	G14	Aroclor 1248	ND	4700	ug/kg		04/26/1996	04/26/1996	JNK
104962	6B	G14	Aroclor 1254	ND	4700	ug/kg		04/26/1996	04/26/1996	JNK
104962	6B	G14	Aroclor 1260	220000	4700	ug/kg		04/26/1996	04/26/1996	JNK
104962	6B	G14	Aroclor 1016	ND	4700	ug/kg		04/26/1996	04/26/1996	JNK
104962	6B	S06	WATER BY EVAP	15.1		% as received		04/24/1996	04/25/1996	MCH
104963	6C	756PO	EXT PCB only SO			COMPLETE		04/24/1996	04/24/1996	JMR
104963	6C	G14	Aroclor 1016	ND	230	ug/kg		04/25/1996	04/25/1996	JNK
104963	6C	G14	Aroclor 1221	ND	230	ug/kg		04/25/1996	04/25/1996	JNK
104963	6C	G14	Aroclor 1232	ND	230	ug/kg		04/25/1996	04/25/1996	JNK
104963	6C	G14	Aroclor 1242	ND	230	ug/kg		04/25/1996	04/25/1996	JNK

ytheon Engineers & Constructors, Inc.
vironmental Services Laboratory Data Summary
mmary # 26678

›g	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
4967	7A	G14	Aroclor 1242	ND	5500	ug/kg		04/26/1996	04/26/1996	JNK
4967	7A	G14	Aroclor 1248	ND	5500	ug/kg		04/26/1996	04/26/1996	JNK
4967	7A	G14	Aroclor 1254	ND	5500	ug/kg		04/26/1996	04/26/1996	JNK
4967	7A	G14	Aroclor 1260	420000	5500	ug/kg		04/26/1996	04/26/1996	JNK
4967	7A	S06	WATER BY EVAP	27.4		% as received		04/24/1996	04/25/1996	MCH
04968	7B	756PO	EXT PCB only SO			COMPLETE		04/25/1996	04/25/1996	JMR
04968	7B	G14	Aroclor 1016	ND	4700	ug/kg		04/26/1996	04/26/1996	JNK
04968	7B	G14	Aroclor 1221	ND	4700	ug/kg		04/26/1996	04/26/1996	JNK
04968	7B	G14	Aroclor 1232	ND	4700	ug/kg		04/26/1996	04/26/1996	JNK
04968	7B	G14	Aroclor 1248	ND	4700	ug/kg		04/26/1996	04/26/1996	JNK
04968	7B	G14	Aroclor 1254	ND	4700	ug/kg		04/26/1996	04/26/1996	JNK
04968	7B	G14	Aroclor 1260	360000	4700	ug/kg		04/26/1996	04/26/1996	JNK
04968	7B	G14	Aroclor 1242	ND	4700	ug/kg		04/26/1996	04/26/1996	JNK
04968	7B	S06	WATER BY EVAP	14.4		% as received		04/24/1996	04/25/1996	MCH
104969	7C	756PO	EXT PCB only SO			COMPLETE		04/25/1996	04/25/1996	JMR
104969	7C	G14	Aroclor 1016	ND	24000	ug/kg		04/26/1996	04/26/1996	JNK
104969	7C	G14	Aroclor 1221	ND	24000	ug/kg		04/26/1996	04/26/1996	JNK
104969	7C	G14	Aroclor 1232	ND	24000	ug/kg		04/26/1996	04/26/1996	JNK
104969	7C	G14	Aroclor 1242	ND	24000	ug/kg		04/26/1996	04/26/1996	JNK
104969	7C	G14	Aroclor 1248	ND	24000	ug/kg		04/26/1996	04/26/1996	JNK
104969	7C	G14	Aroclor 1254	ND	24000	ug/kg		04/26/1996	04/26/1996	JNK
104969	7C	G14	Aroclor 1260	1300000	24000	ug/kg		04/26/1996	04/26/1996	JNK
104969	7C	S06	WATER BY EVAP	18.2		% as received		04/24/1996	04/25/1996	MCH
104970	7D	756PO	EXT PCB only SO			COMPLETE		04/25/1996	04/25/1996	JMR
104970	7D	G14	Aroclor 1016	ND	23000	ug/kg		04/26/1996	04/26/1996	JNK
104970	7D	G14	Aroclor 1221	ND	23000	ug/kg		04/26/1996	04/26/1996	JNK
104970	7D	G14	Aroclor 1232	ND	23000	ug/kg		04/26/1996	04/26/1996	JNK
104970	7D	G14	Aroclor 1242	ND	23000	ug/kg		04/26/1996	04/26/1996	JNK
104970	7D	G14	Aroclor 1248	ND	23000	ug/kg		04/26/1996	04/26/1996	JNK
104970	7D	G14	Aroclor 1254	ND	23000	ug/kg		04/26/1996	04/26/1996	JNK
104970	7D	G14	Aroclor 1260	1100000	23000	ug/kg		04/26/1996	04/26/1996	JNK
104970	7D	S06	WATER BY EVAP	11.5		% as received		04/24/1996	04/25/1996	MCH
104971	7E	756PO	EXT PCB only SO			COMPLETE		04/25/1996	04/25/1996	JMR
104971	7E	G14	Aroclor 1221	ND	230	ug/kg		04/25/1996	04/25/1996	JNK
104971	7E	G14	Aroclor 1232	ND	230	ug/kg		04/25/1996	04/25/1996	JNK

theon Engineers & Constructors, Inc.
ironmental Services Laboratory Data Summary
mary # 26678

Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
)71 7E	G14	Aroclor 1242	ND	230	ug/kg		04/25/1996	04/25/1996	JNK
)71 7E	G14	Aroclor 1248	ND	230	ug/kg		04/25/1996	04/25/1996	JNK
971 7E	G14	Aroclor 1254	ND	230	ug/kg		04/25/1996	04/25/1996	JNK
971 7E	G14	Aroclor 1260	28000	230	ug/kg		04/25/1996	04/25/1996	JNK
971 7E	G14	Aroclor 1016	ND	230	ug/kg		04/25/1996	04/25/1996	JNK
971 7E	S06	WATER BY EVAP	11.8		% as received		04/24/1996	04/25/1996	MCH
972 7F	756PO	EXT PCB only SO			COMPLETE		04/25/1996	04/25/1996	JMR
972 7F	S06	WATER BY EVAP	7.3		% as received		04/24/1996	04/25/1996	MCH
4973 8A	756PO	EXT PCB only SO			COMPLETE		04/25/1996	04/25/1996	JMR
4973 8A	G14	Aroclor 1221	ND	11000	ug/kg		04/26/1996	04/26/1996	JNK
4973 8A	G14	Aroclor 1232	ND	11000	ug/kg		04/26/1996	04/26/1996	JNK
4973 8A	G14	Aroclor 1242	ND	11000	ug/kg		04/26/1996	04/26/1996	JNK
4973 8A	G14	Aroclor 1248	ND	11000	ug/kg		04/26/1996	04/26/1996	JNK
4973 8A	G14	Aroclor 1254	ND	11000	ug/kg		04/26/1996	04/26/1996	JNK
4973 8A	G14	Aroclor 1260	500000	11000	ug/kg		04/26/1996	04/26/1996	JNK
4973 8A	G14	Aroclor 1016	ND	11000	ug/kg		04/26/1996	04/26/1996	JNK
4973 8A	S06	WATER BY EVAP	11.0		% as received		04/24/1996	04/25/1996	MCH
)4974 8B	756PO	EXT PCB only SO			COMPLETE		04/25/1996	04/25/1996	JMR
)4974 8B	G14	Aroclor 1016	ND	11000	ug/kg		04/26/1996	04/26/1996	JNK
)4974 8B	G14	Aroclor 1232	ND	11000	ug/kg		04/26/1996	04/26/1996	JNK
04974 8B	G14	Aroclor 1242	ND	11000	ug/kg		04/26/1996	04/26/1996	JNK
04974 8B	G14	Aroclor 1248	ND	11000	ug/kg		04/26/1996	04/26/1996	JNK
04974 8B	G14	Aroclor 1254	ND	11000	ug/kg		04/26/1996	04/26/1996	JNK
04974 8B	G14	Aroclor 1260	310000	11000	ug/kg		04/26/1996	04/26/1996	JNK
04974 8B	G14	Aroclor 1221	ND	11000	ug/kg		04/26/1996	04/26/1996	JNK
04974 8B	S06	WATER BY EVAP	10.6		% as received		04/24/1996	04/25/1996	MCH
04975 8C	756PO	EXT PCB only SO			COMPLETE		04/25/1996	04/25/1996	JMR
04975 8C	G14	Aroclor 1016	ND	4500	ug/kg		04/26/1996	04/26/1996	JNK
104975 8C	G14	Aroclor 1221	ND	4500	ug/kg		04/26/1996	04/26/1996	JNK
104975 8C	G14	Aroclor 1232	ND	4500	ug/kg		04/26/1996	04/26/1996	JNK
104975 8C	G14	Aroclor 1242	ND	4500	ug/kg		04/26/1996	04/26/1996	JNK
104975 8C	G14	Aroclor 1248	ND	4500	ug/kg		04/26/1996	04/26/1996	JNK
104975 8C	G14	Aroclor 1254	ND	4500	ug/kg		04/26/1996	04/26/1996	JNK
104975 8C	G14	Aroclor 1260	230000	4500	ug/kg		04/26/1996	04/26/1996	JNK
104975 8C	S06	WATER BY EVAP	10.8		% as received		04/24/1996	04/25/1996	MCH

theon Engineers & Constructors, Inc.
ironmental Services Laboratory Data Summary
mary # 26678

Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
76 8D	756PO	EXT PCB only SO			COMPLETE		04/25/1996	04/25/1996	JMR
76 8D	G14	Aroclor 1221	ND	1200	ug/kg		04/26/1996	04/26/1996	JNK
76 8D	G14	Aroclor 1232	ND	1200	ug/kg		04/26/1996	04/26/1996	JNK
76 8D	G14	Aroclor 1242	ND	1200	ug/kg		04/26/1996	04/26/1996	JNK
976 8D	G14	Aroclor 1248	ND	1200	ug/kg		04/26/1996	04/26/1996	JNK
976 8D	G14	Aroclor 1254	ND	1200	ug/kg		04/26/1996	04/26/1996	JNK
976 8D	G14	Aroclor 1260	110000	1200	ug/kg		04/26/1996	04/26/1996	JNK
976 8D	G14	Aroclor 1016	ND	1200	ug/kg		04/26/1996	04/26/1996	JNK
976 8D	S06	WATER BY EVAP	14.4		% as received		04/24/1996	04/25/1996	MCH

Approved by: [signature]

Report Prep: [signature]

Sampling Event No. 3 included 23 initial samples taken from Area C4 and northern portion of Tracks 3 and 4:

- concrete pad in 8H, 8J, 7J,
- along Tracks 3/4 in Grids 7H-K, and 8L

ytheon Engineers & Constructors, Inc.
vironmental Services Laboratory Data Summary
mmary # 26770

›g	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
5360	Area 3-1	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
5360	Area 3-1	G14	Aroclor 1016	ND	340	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5360	Area 3-1	G14	Aroclor 1221	ND	340	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5360	Area 3-1	G14	Aroclor 1232	ND	340	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5360	Area 3-1	G14	Aroclor 1242	ND	340	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05360	Area 3-1	G14	Aroclor 1248	ND	340	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05360	Area 3-1	G14	Aroclor 1254	ND	340	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05360	Area 3-1	G14	Aroclor 1260	1500	340	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05360	Area 3-1	S06	WATER BY EVAP	11.7		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
05361	Area 3-2	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
05361	Area 3-2	G14	Aroclor 1016	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05361	Area 3-2	G14	Aroclor 1221	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05361	Area 3-2	G14	Aroclor 1232	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05361	Area 3-2	G14	Aroclor 1242	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05361	Area 3-2	G14	Aroclor 1248	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105361	Area 3-2	G14	Aroclor 1254	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105361	Area 3-2	G14	Aroclor 1260	570	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105361	Area 3-2	S06	WATER BY EVAP	9.2		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
105362	Area 3-3	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
105362	Area 3-3	G14	Aroclor 1016	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105362	Area 3-3	G14	Aroclor 1221	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105362	Area 3-3	G14	Aroclor 1232	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105362	Area 3-3	G14	Aroclor 1242	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105362	Area 3-3	G14	Aroclor 1248	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105362	Area 3-3	G14	Aroclor 1254	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105362	Area 3-3	G14	Aroclor 1260	11000	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105362	Area 3-3	S06	WATER BY EVAP	10.4		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
105363	Area 3-4	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
105363	Area 3-4	G14	Aroclor 1016	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105363	Area 3-4	G14	Aroclor 1221	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105363	Area 3-4	G14	Aroclor 1232	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105363	Area 3-4	G14	Aroclor 1242	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105363	Area 3-4	G14	Aroclor 1248	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105363	Area 3-4	G14	Aroclor 1254	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH

ayytheon Engineers & Constructors, Inc.
avironmental Services Laboratory Data Summary
ummary # 26770

og	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
05363	Area 3-4	G14	Aroclor 1260	2000	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05363	Area 3-4	S06	WATER BY EVAP	7.5		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
05364	Area 3-5	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
105364	Area 3-5	G14	Aroclor 1016	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105364	Area 3-5	G14	Aroclor 1221	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105364	Area 3-5	G14	Aroclor 1232	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105364	Area 3-5	G14	Aroclor 1242	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105364	Area 3-5	G14	Aroclor 1248	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105364	Area 3-5	G14	Aroclor 1254	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105364	Area 3-5	G14	Aroclor 1260	1500	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105364	Area 3-5	S06	WATER BY EVAP	10.3		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
105365	Area 3-6	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
105365	Area 3-6	G14	Aroclor 1016	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105365	Area 3-6	G14	Aroclor 1221	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105365	Area 3-6	G14	Aroclor 1232	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105365	Area 3-6	G14	Aroclor 1242	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105365	Area 3-6	G14	Aroclor 1248	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105365	Area 3-6	G14	Aroclor 1254	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105365	Area 3-6	G14	Aroclor 1260	1100	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105365	Area 3-6	S06	WATER BY EVAP	7.0		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
105366	Area 3-7	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
105366	Area 3-7	G14	Aroclor 1016	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105366	Area 3-7	G14	Aroclor 1221	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105366	Area 3-7	G14	Aroclor 1232	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105366	Area 3-7	G14	Aroclor 1242	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105366	Area 3-7	G14	Aroclor 1248	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105366	Area 3-7	G14	Aroclor 1254	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105366	Area 3-7	G14	Aroclor 1260	680	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105366	Area 3-7	S06	WATER BY EVAP	7.4		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
105367	Area 3-8	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
105367	Area 3-8	G14	Aroclor 1016	ND	340	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105367	Area 3-8	G14	Aroclor 1221	ND	340	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105367	Area 3-8	G14	Aroclor 1232	ND	340	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105367	Area 3-8	G14	Aroclor 1242	ND	340	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105367	Area 3-8	G14	Aroclor 1248	ND	340	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH

'theon Engineers & Constructors, Inc.
'ironmental Services Laboratory Data Summary
ımary # 26770

ɜ	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
367	Area 3-8	G14	Aroclor 1254	ND	340	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
367	Area 3-8	G14	Aroclor 1260	13000	340	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
367	Area 3-8	S06	WATER BY EVAP	12.0		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
5368	Area 3-9	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
5368	Area 3-9	G14	Aroclor 1016	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5368	Area 3-9	G14	Aroclor 1221	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5368	Area 3-9	G14	Aroclor 1232	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5368	Area 3-9	G14	Aroclor 1242	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5368	Area 3-9	G14	Aroclor 1248	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5368	Area 3-9	G14	Aroclor 1254	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5368	Area 3-9	G14	Aroclor 1260	4100	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5368	Area 3-9	S06	WATER BY EVAP	7.2		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
05369	Area 3-10	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
05369	Area 3-10	G14	Aroclor 1016	ND	6500	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05369	Area 3-10	G14	Aroclor 1221	ND	6500	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05369	Area 3-10	G14	Aroclor 1232	ND	6500	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05369	Area 3-10	G14	Aroclor 1242	ND	6500	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05369	Area 3-10	G14	Aroclor 1248	ND	6500	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05369	Area 3-10	G14	Aroclor 1254	ND	6500	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05369	Area 3-10	G14	Aroclor 1260	120000	6500	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05369	Area 3-10	S06	WATER BY EVAP	8.0		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
05370	Area 3-11	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
05370	Area 3-11	G14	Aroclor 1016	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105370	Area 3-11	G14	Aroclor 1221	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105370	Area 3-11	G14	Aroclor 1232	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105370	Area 3-11	G14	Aroclor 1242	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105370	Area 3-11	G14	Aroclor 1248	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105370	Area 3-11	G14	Aroclor 1254	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105370	Area 3-11	G14	Aroclor 1260	19000	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105370	Area 3-11	S06	WATER BY EVAP	8.4		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
105371	Area 3-12	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
105371	Area 3-12	G14	Aroclor 1016	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105371	Area 3-12	G14	Aroclor 1221	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105371	Area 3-12	G14	Aroclor 1232	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105371	Area 3-12	G14	Aroclor 1242	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH

ytheon Engineers & Constructors, Inc.
vironmental Services Laboratory Data Summary
mmary # 26770

›g	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
5371	Area 3-12	G14	Aroclor 1248	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5371	Area 3-12	G14	Aroclor 1254	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5371	Area 3-12	G14	Aroclor 1260	13000	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5371	Area 3-12	S06	WATER BY EVAP	7.0		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
05372	Area 3-13	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
05372	Area 3-13	G14	Aroclor 1016	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05372	Area 3-13	G14	Aroclor 1221	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05372	Area 3-13	G14	Aroclor 1232	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05372	Area 3-13	G14	Aroclor 1242	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05372	Area 3-13	G14	Aroclor 1248	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05372	Area 3-13	G14	Aroclor 1254	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05372	Area 3-13	G14	Aroclor 1260	25000	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05372	Area 3-13	S06	WATER BY EVAP	8.9		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
105373	Area 3-14	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
105373	Area 3-14	G14	Aroclor 1016	ND	6800	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105373	Area 3-14	G14	Aroclor 1221	ND	6800	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105373	Area 3-14	G14	Aroclor 1232	ND	6800	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105373	Area 3-14	G14	Aroclor 1242	ND	6800	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105373	Area 3-14	G14	Aroclor 1248	ND	6800	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105373	Area 3-14	G14	Aroclor 1254	ND	6800	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105373	Area 3-14	G14	Aroclor 1260	360000	6800	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105373	Area 3-14	S06	WATER BY EVAP	11.4		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
105374	Area 3-15	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
105374	Area 3-15	G14	Aroclor 1016	ND	6700	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105374	Area 3-15	G14	Aroclor 1221	ND	6700	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105374	Area 3-15	G14	Aroclor 1232	ND	6700	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105374	Area 3-15	G14	Aroclor 1242	ND	6700	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105374	Area 3-15	G14	Aroclor 1248	ND	6700	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105374	Area 3-15	G14	Aroclor 1254	ND	6700	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105374	Area 3-15	G14	Aroclor 1260	140000	6700	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105374	Area 3-15	S06	WATER BY EVAP	9.9		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
105375	Area 3-16	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
105375	Area 3-16	G14	Aroclor 1016	ND	1700	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105375	Area 3-16	G14	Aroclor 1221	ND	1700	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105375	Area 3-16	G14	Aroclor 1232	ND	1700	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH

'theon Engineers & Constructors, Inc.
'ironmental Services Laboratory Data Summary
mary # 26770

g	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
375	Area 3-16	G14	Aroclor 1242	ND	1700	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
375	Area 3-16	G14	Aroclor 1248	ND	1700	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
375	Area 3-16	G14	Aroclor 1254	ND	1700	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
375	Area 3-16	G14	Aroclor 1260	27000	1700	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
375	Area 3-16	S06	WATER BY EVAP	13.4		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
5376	Area 3-17	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
5376	Area 3-17	G14	Aroclor 1016	ND	340	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5376	Area 3-17	G14	Aroclor 1221	ND	340	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5376	Area 3-17	G14	Aroclor 1232	ND	340	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5376	Area 3-17	G14	Aroclor 1242	ND	340	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5376	Area 3-17	G14	Aroclor 1248	ND	340	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5376	Area 3-17	G14	Aroclor 1254	ND	340	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5376	Area 3-17	G14	Aroclor 1260	5800	340	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5376	Area 3-17	S06	WATER BY EVAP	11.8		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
5377	Area 3-18	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
5377	Area 3-18	G14	Aroclor 1016	ND	350	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5377	Area 3-18	G14	Aroclor 1221	ND	350	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5377	Area 3-18	G14	Aroclor 1232	ND	350	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5377	Area 3-18	G14	Aroclor 1242	ND	350	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5377	Area 3-18	G14	Aroclor 1248	ND	350	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5377	Area 3-18	G14	Aroclor 1254	ND	350	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5377	Area 3-18	G14	Aroclor 1260	3900	350	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5377	Area 3-18	S06	WATER BY EVAP	13.5		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
105378	Area 3-19	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
105378	Area 3-19	G14	Aroclor 1016	ND	1700	ug/kg	05/02/1996	05/04/1996	05/04/1996	MXH
105378	Area 3-19	G14	Aroclor 1221	ND	1700	ug/kg	05/02/1996	05/04/1996	05/04/1996	MXH
105378	Area 3-19	G14	Aroclor 1232	ND	1700	ug/kg	05/02/1996	05/04/1996	05/04/1996	MXH
105378	Area 3-19	G14	Aroclor 1242	ND	1700	ug/kg	05/02/1996	05/04/1996	05/04/1996	MXH
105378	Area 3-19	G14	Aroclor 1248	ND	1700	ug/kg	05/02/1996	05/04/1996	05/04/1996	MXH
105378	Area 3-19	G14	Aroclor 1254	ND	1700	ug/kg	05/02/1996	05/04/1996	05/04/1996	MXH
105378	Area 3-19	G14	Aroclor 1260	24000	1700	ug/kg	05/02/1996	05/04/1996	05/04/1996	MXH
105378	Area 3-19	S06	WATER BY EVAP	12.1		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
105379	Area 6-1	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
105379	Area 6-1	G14	Aroclor 1016	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105379	Area 6-1	G14	Aroclor 1221	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH

ytheon Engineers & Constructors, Inc.
vironmental Services Laboratory Data Summary
mmary # 26770

g	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
5379	Area 6-1	G14	Aroclor 1232	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5379	Area 6-1	G14	Aroclor 1242	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5379	Area 6-1	G14	Aroclor 1248	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5379	Area 6-1	G14	Aroclor 1254	ND	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5379	Area 6-1	G14	Aroclor 1260	690	320	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
5379	Area 6-1	S06	WATER BY EVAP	6.4		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
05389	Area 6-2	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
05389	Area 6-2	G14	Aroclor 1016	ND	1700	ug/kg	05/02/1996	05/04/1996	05/04/1996	MXH
05389	Area 6-2	G14	Aroclor 1221	ND	1700	ug/kg	05/02/1996	05/04/1996	05/04/1996	MXH
05389	Area 6-2	G14	Aroclor 1232	ND	1700	ug/kg	05/02/1996	05/04/1996	05/04/1996	MXH
05389	Area 6-2	G14	Aroclor 1242	ND	1700	ug/kg	05/02/1996	05/04/1996	05/04/1996	MXH
05389	Area 6-2	G14	Aroclor 1248	ND	1700	ug/kg	05/02/1996	05/04/1996	05/04/1996	MXH
05389	Area 6-2	G14	Aroclor 1254	ND	1700	ug/kg	05/02/1996	05/04/1996	05/04/1996	MXH
05389	Area 6-2	G14	Aroclor 1260	24000	1700	ug/kg	05/02/1996	05/04/1996	05/04/1996	MXH
05389	Area 6-2	S06	WATER BY EVAP	9.4		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
05390	Area 6-3	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
05390	Area 6-3	G14	Aroclor 1016	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05390	Area 6-3	G14	Aroclor 1221	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05390	Area 6-3	G14	Aroclor 1232	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05390	Area 6-3	G14	Aroclor 1242	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
05390	Area 6-3	G14	Aroclor 1248	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105390	Area 6-3	G14	Aroclor 1254	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105390	Area 6-3	G14	Aroclor 1260	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105390	Area 6-3	S06	WATER BY EVAP	7.7		% as received	05/02/1996	05/03/1996	05/03/1996	MCH
105391	Area 6-4	756PO	EXT PCB only SO			COMPLETE	05/02/1996	05/02/1996	05/02/1996	JMR
105391	Area 6-4	G14	Aroclor 1016	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105391	Area 6-4	G14	Aroclor 1221	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105391	Area 6-4	G14	Aroclor 1232	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105391	Area 6-4	G14	Aroclor 1242	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105391	Area 6-4	G14	Aroclor 1248	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105391	Area 6-4	G14	Aroclor 1254	ND	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105391	Area 6-4	G14	Aroclor 1260	1100	330	ug/kg	05/02/1996	05/03/1996	05/03/1996	MXH
105391	Area 6-4	S06	WATER BY EVAP	8.0		% as received	05/02/1996	05/03/1996	05/03/1996	MCH

Approved by: [signature]

Report Prep: [signature]

008

Sampling Event No. 4 included 31 samples taken from various areas after they were re-excavated following initial results above 25 ppm:

- concrete pad in Grid 8J
- concrete pad near cylinder storage shed (Grids 6D, 7D-E, 8D-E)
- Track 3 (Grids 6F-G)
- Track 4 (Grids 6F-G, 7G)
- Track 3/4 (Grid 7H-K)

rth--- Eng---ers - Constructors, Inc.
vironmental Services Laboratory Data Summary
mmary # 26807

g	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
5533	Amtrak C2-01	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
5533	Amtrak C2-01	G14	Aroclor 1016	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5533	Amtrak C2-01	G14	Aroclor 1221	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5533	Amtrak C2-01	G14	Aroclor 1232	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5533	Amtrak C2-01	G14	Aroclor 1242	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5533	Amtrak C2-01	G14	Aroclor 1248	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5533	Amtrak C2-01	G14	Aroclor 1254	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5533	Amtrak C2-01	G14	Aroclor 1260	1700	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5533	Amtrak C2-01	S06	WATER BY EVAP	11.5		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
5534	Amtrak C2-02	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
5534	Amtrak C2-02	G14	Aroclor 1016	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5534	Amtrak C2-02	G14	Aroclor 1221	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5534	Amtrak C2-02	G14	Aroclor 1232	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5534	Amtrak C2-02	G14	Aroclor 1242	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5534	Amtrak C2-02	G14	Aroclor 1248	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5534	Amtrak C2-02	G14	Aroclor 1254	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5534	Amtrak C2-02	G14	Aroclor 1260	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5534	Amtrak C2-02	S06	WATER BY EVAP	10.3		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
5535	Amtrak C2-03	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
5535	Amtrak C2-03	G14	Aroclor 1016	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5535	Amtrak C2-03	G14	Aroclor 1221	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5535	Amtrak C2-03	G14	Aroclor 1232	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5535	Amtrak C2-03	G14	Aroclor 1242	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5535	Amtrak C2-03	G14	Aroclor 1248	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5535	Amtrak C2-03	G14	Aroclor 1254	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5535	Amtrak C2-03	G14	Aroclor 1260	2200	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5535	Amtrak C2-03	S06	WATER BY EVAP	12.6		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
5536	Amtrak C2-04	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
5536	Amtrak C2-04	G14	Aroclor 1016	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5536	Amtrak C2-04	G14	Aroclor 1221	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5536	Amtrak C2-04	G14	Aroclor 1232	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5536	Amtrak C2-04	G14	Aroclor 1242	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5536	Amtrak C2-04	G14	Aroclor 1248	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5536	Amtrak C2-04	G14	Aroclor 1254	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK

theon Engineers & Constructors, Inc.
ironmental Services Laboratory Data Summary
mary # 26807

	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
536	Amtrak C2-04	G14	Aroclor 1260	1700	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
536	Amtrak C2-04	S06	WATER BY EVAP	16.1		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
537	Amtrak C2-05	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
537	Amtrak C2-05	G14	Aroclor 1016	ND	380	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
537	Amtrak C2-05	G14	Aroclor 1221	ND	380	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
537	Amtrak C2-05	G14	Aroclor 1232	ND	380	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
537	Amtrak C2-05	G14	Aroclor 1242	ND	380	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
537	Amtrak C2-05	G14	Aroclor 1248	ND	380	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
537	Amtrak C2-05	G14	Aroclor 1254	ND	380	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
537	Amtrak C2-05	G14	Aroclor 1260	13000	380	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
537	Amtrak C2-05	S06	WATER BY EVAP	20.4		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
538	Amtrak C2-06	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
538	Amtrak C2-06	G14	Aroclor 1016	ND	350	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
538	Amtrak C2-06	G14	Aroclor 1221	ND	350	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
538	Amtrak C2-06	G14	Aroclor 1232	ND	350	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
538	Amtrak C2-06	G14	Aroclor 1242	ND	350	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
538	Amtrak C2-06	G14	Aroclor 1248	ND	350	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
538	Amtrak C2-06	G14	Aroclor 1254	ND	350	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
538	Amtrak C2-06	G14	Aroclor 1260	14000	350	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
538	Amtrak C2-06	S06	WATER BY EVAP	14.3		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
539	Amtrak C2-07	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
539	Amtrak C2-07	G14	Aroclor 1016	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
539	Amtrak C2-07	G14	Aroclor 1221	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
539	Amtrak C2-07	G14	Aroclor 1232	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
539	Amtrak C2-07	G14	Aroclor 1242	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
539	Amtrak C2-07	G14	Aroclor 1248	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
539	Amtrak C2-07	G14	Aroclor 1254	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
539	Amtrak C2-07	G14	Aroclor 1260	2600	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
539	Amtrak C2-07	S06	WATER BY EVAP	12.5		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
540	Amtrak C2-08	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
540	Amtrak C2-08	G14	Aroclor 1016	ND	350	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
540	Amtrak C2-08	G14	Aroclor 1221	ND	350	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
540	Amtrak C2-08	G14	Aroclor 1232	ND	350	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
540	Amtrak C2-08	G14	Aroclor 1242	ND	350	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
540	Amtrak C2-08	G14	Aroclor 1248	ND	350	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK

4

ytheon Engineers & Constructors, Inc.
vironmental Services Laboratory Data Summary
mmary # 26807

g	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
5540	Amtrak C2-08	G14	Aroclor 1254	ND	350	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5540	Amtrak C2-08	G14	Aroclor 1260	10000	350	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5540	Amtrak C2-08	S06	WATER BY EVAP	13.4		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
5541	Amtrak C2-09	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
5541	Amtrak C2-09	G14	Aroclor 1016	ND	380	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5541	Amtrak C2-09	G14	Aroclor 1221	ND	380	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
05541	Amtrak C2-09	G14	Aroclor 1232	ND	380	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
05541	Amtrak C2-09	G14	Aroclor 1242	ND	380	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
05541	Amtrak C2-09	G14	Aroclor 1248	ND	380	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
05541	Amtrak C2-09	G14	Aroclor 1254	ND	380	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
05541	Amtrak C2-09	G14	Aroclor 1260	13000	380	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
05541	Amtrak C2-09	S06	WATER BY EVAP	21.1		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
05542	Amtrak C2-10	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
05542	Amtrak C2-10	G14	Aroclor 1016	ND	1800	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
105542	Amtrak C2-10	G14	Aroclor 1221	ND	1800	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
105542	Amtrak C2-10	G14	Aroclor 1232	ND	1800	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
105542	Amtrak C2-10	G14	Aroclor 1242	ND	1800	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
105542	Amtrak C2-10	G14	Aroclor 1248	ND	1800	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
105542	Amtrak C2-10	G14	Aroclor 1254	ND	1800	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
105542	Amtrak C2-10	G14	Aroclor 1260	91000	1800	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
105542	Amtrak C2-10	S06	WATER BY EVAP	18.4		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
105543	Amtrak C2-11	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
105543	Amtrak C2-11	G14	Aroclor 1016	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
105543	Amtrak C2-11	G14	Aroclor 1221	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
105543	Amtrak C2-11	G14	Aroclor 1232	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
105543	Amtrak C2-11	G14	Aroclor 1242	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
105543	Amtrak C2-11	G14	Aroclor 1248	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
105543	Amtrak C2-11	G14	Aroclor 1254	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
105543	Amtrak C2-11	G14	Aroclor 1260	4200	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
105543	Amtrak C2-11	S06	WATER BY EVAP	10.1		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
105544	Amtrak C2-12	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
105544	Amtrak C2-12	G14	Aroclor 1016	ND	1900	ug/kg	05/06/1996	05/09/1996	05/09/1996	MXH
105544	Amtrak C2-12	G14	Aroclor 1221	ND	1900	ug/kg	05/06/1996	05/09/1996	05/09/1996	MXH
105544	Amtrak C2-12	G14	Aroclor 1232	ND	1900	ug/kg	05/06/1996	05/09/1996	05/09/1996	MXH
105544	Amtrak C2-12	G14	Aroclor 1242	ND	1900	ug/kg	05/06/1996	05/09/1996	05/09/1996	MXH

theon Engineers & Constructors, Inc.
ironmental Services Laboratory Data Summary
mary # 26807

Description		Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
544	Amtrak C2-12	G14	Aroclor 1248	ND	1900	ug/kg	05/06/1996	05/09/1996	05/09/1996	MXH
544	Amtrak C2-12	G14	Aroclor 1254	ND	1900	ug/kg	05/06/1996	05/09/1996	05/09/1996	MXH
544	Amtrak C2-12	G14	Aroclor 1260	64000	1900	ug/kg	05/06/1996	05/09/1996	05/09/1996	MXH
544	Amtrak C2-12	S06	WATER BY EVAP	19.3		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
545	Amtrak C2-12A	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
545	Amtrak C2-12A	G14	Aroclor 1016	ND	1900	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
5545	Amtrak C2-12A	G14	Aroclor 1221	ND	1900	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
5545	Amtrak C2-12A	G14	Aroclor 1232	ND	1900	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
5545	Amtrak C2-12A	G14	Aroclor 1242	ND	1900	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
5545	Amtrak C2-12A	G14	Aroclor 1248	ND	1900	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
5545	Amtrak C2-12A	G14	Aroclor 1254	ND	1900	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
5545	Amtrak C2-12A	G14	Aroclor 1260	51000	1900	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
5545	Amtrak C2-12A	S06	WATER BY EVAP	21.9		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
5546	Amtrak C2-13	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
5546	Amtrak C2-13	G14	Aroclor 1016	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5546	Amtrak C2-13	G14	Aroclor 1221	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5546	Amtrak C2-13	G14	Aroclor 1232	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5546	Amtrak C2-13	G14	Aroclor 1242	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5546	Amtrak C2-13	G14	Aroclor 1248	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5546	Amtrak C2-13	G14	Aroclor 1254	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5546	Amtrak C2-13	G14	Aroclor 1260	9800	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5546	Amtrak C2-13	S06	WATER BY EVAP	17.6		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
5547	Amtrak C2-14	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
5547	Amtrak C2-14	G14	Aroclor 1016	ND	380	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5547	Amtrak C2-14	G14	Aroclor 1221	ND	380	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5547	Amtrak C2-14	G14	Aroclor 1232	ND	380	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5547	Amtrak C2-14	G14	Aroclor 1242	ND	380	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5547	Amtrak C2-14	G14	Aroclor 1248	ND	380	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5547	Amtrak C2-14	G14	Aroclor 1254	ND	380	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5547	Amtrak C2-14	G14	Aroclor 1260	4300	380	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5547	Amtrak C2-14	S06	WATER BY EVAP	21.5		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
5548	Amtrak 15	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
5548	Amtrak 15	G14	Aroclor 1016	ND	350	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5548	Amtrak 15	G14	Aroclor 1221	ND	350	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5548	Amtrak 15	G14	Aroclor 1232	ND	350	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK

theon Engineers & Constructors, Inc.
ironmental Services Laboratory Data Summary
mary # 26807

Description		Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
548	Amtrak 15	G14	Aroclor 1242	ND	350	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
548	Amtrak 15	G14	Aroclor 1248	ND	350	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
548	Amtrak 15	G14	Aroclor 1254	ND	350	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
548	Amtrak 15	G14	Aroclor 1260	17000	350	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
548	Amtrak 15	S06	WATER BY EVAP	14.4		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
549	Amtrak 16	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
549	Amtrak 16	G14	Aroclor 1016	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
549	Amtrak 16	G14	Aroclor 1221	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
549	Amtrak 16	G14	Aroclor 1232	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
549	Amtrak 16	G14	Aroclor 1242	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
549	Amtrak 16	G14	Aroclor 1248	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
549	Amtrak 16	G14	Aroclor 1254	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
549	Amtrak 16	G14	Aroclor 1260	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
549	Amtrak 16	S06	WATER BY EVAP	8.2		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
550	Amtrak 16D	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
550	Amtrak 16D	G14	Aroclor 1016	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
550	Amtrak 16D	G14	Aroclor 1221	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
550	Amtrak 16D	G14	Aroclor 1232	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
550	Amtrak 16D	G14	Aroclor 1242	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
550	Amtrak 16D	G14	Aroclor 1248	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
550	Amtrak 16D	G14	Aroclor 1254	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
550	Amtrak 16D	G14	Aroclor 1260	790	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
550	Amtrak 16D	S06	WATER BY EVAP	10.6		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
551	Amtrak 17	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
551	Amtrak 17	G14	Aroclor 1016	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
551	Amtrak 17	G14	Aroclor 1221	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
551	Amtrak 17	G14	Aroclor 1232	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
551	Amtrak 17	G14	Aroclor 1242	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
551	Amtrak 17	G14	Aroclor 1248	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
551	Amtrak 17	G14	Aroclor 1254	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
551	Amtrak 17	G14	Aroclor 1260	35000	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
551	Amtrak 17	S06	WATER BY EVAP	13.2		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
552	Amtrak 18	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
552	Amtrak 18	G14	Aroclor 1016	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
552	Amtrak 18	G14	Aroclor 1221	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK

the Engineers Contractor, Inc.
Environmental Services Laboratory Data Summary
mary # 26807

Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
52 Amtrak 18	G14	Aroclor 1232	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
52 Amtrak 18	G14	Aroclor 1242	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
52 Amtrak 18	G14	Aroclor 1248	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
52 Amtrak 18	G14	Aroclor 1254	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
552 Amtrak 18	G14	Aroclor 1260	13000	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
552 Amtrak 18	S06	WATER BY EVAP	9.7		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
553 Amtrak 19	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
553 Amtrak 19	G14	Aroclor 1016	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
553 Amtrak 19	G14	Aroclor 1221	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
553 Amtrak 19	G14	Aroclor 1232	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
553 Amtrak 19	G14	Aroclor 1242	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
553 Amtrak 19	G14	Aroclor 1248	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
553 Amtrak 19	G14	Aroclor 1254	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
553 Amtrak 19	G14	Aroclor 1260	15000	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
553 Amtrak 19	S06	WATER BY EVAP	12.0		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
554 Amtrak 20	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
554 Amtrak 20	G14	Aroclor 1016	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
554 Amtrak 20	G14	Aroclor 1221	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
554 Amtrak 20	G14	Aroclor 1232	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
554 Amtrak 20	G14	Aroclor 1242	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
554 Amtrak 20	G14	Aroclor 1248	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
554 Amtrak 20	G14	Aroclor 1254	72000	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
554 Amtrak 20	G14	Aroclor 1260	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
554 Amtrak 20	S06	WATER BY EVAP	10.2		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
555 Amtrak 21	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
555 Amtrak 21	G14	Aroclor 1016	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
555 Amtrak 21	G14	Aroclor 1221	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
555 Amtrak 21	G14	Aroclor 1232	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
555 Amtrak 21	G14	Aroclor 1242	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
555 Amtrak 21	G14	Aroclor 1248	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
555 Amtrak 21	G14	Aroclor 1254	ND	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
555 Amtrak 21	G14	Aroclor 1260	2200	340	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
555 Amtrak 21	S06	WATER BY EVAP	11.2		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
556 Amtrak 22	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
556 Amtrak 22	G14	Aroclor 1016	ND	3300	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK

theon Engineers & Constructors, Inc.
ironmental Services Laboratory Data Summary
mary # 26807

Description		Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
556	Amtrak 22	G14	Aroclor 1221	ND	3300	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
556	Amtrak 22	G14	Aroclor 1232	ND	3300	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
556	Amtrak 22	G14	Aroclor 1242	ND	3300	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
556	Amtrak 22	G14	Aroclor 1248	ND	3300	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
556	Amtrak 22	G14	Aroclor 1254	63000	3300	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
556	Amtrak 22	G14	Aroclor 1260	ND	3300	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
556	Amtrak 22	S06	WATER BY EVAP	10.3		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
557	Amtrak 23	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
557	Amtrak 23	G14	Aroclor 1016	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
557	Amtrak 23	G14	Aroclor 1221	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
557	Amtrak 23	G14	Aroclor 1232	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
557	Amtrak 23	G14	Aroclor 1242	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
557	Amtrak 23	G14	Aroclor 1248	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
557	Amtrak 23	G14	Aroclor 1254	36000	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
557	Amtrak 23	G14	Aroclor 1260	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
557	Amtrak 23	S06	WATER BY EVAP	10.5		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
558	Amtrak 24	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
558	Amtrak 24	G14	Aroclor 1016	ND	390	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
558	Amtrak 24	G14	Aroclor 1221	ND	390	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
558	Amtrak 24	G14	Aroclor 1232	ND	390	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
558	Amtrak 24	G14	Aroclor 1242	ND	390	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
558	Amtrak 24	G14	Aroclor 1248	ND	390	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
558	Amtrak 24	G14	Aroclor 1254	ND	390	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
558	Amtrak 24	G14	Aroclor 1260	4700	390	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
558	Amtrak 24	S06	WATER BY EVAP	22.3		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
559	Amtrak 25	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
559	Amtrak 25	G14	Aroclor 1016	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
559	Amtrak 25	G14	Aroclor 1221	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
559	Amtrak 25	G14	Aroclor 1232	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
559	Amtrak 25	G14	Aroclor 1242	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
559	Amtrak 25	G14	Aroclor 1248	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
559	Amtrak 25	G14	Aroclor 1254	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
559	Amtrak 25	G14	Aroclor 1260	23000	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
559	Amtrak 25	S06	WATER BY EVAP	17.4		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
560	Amtrak 26	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR

theon Engineers & Constructors, Inc.
ironmental Services Laboratory Data Summary
mary # 26807

Description		Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
560	Amtrak 26	G14	Aroclor 1016	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
560	Amtrak 26	G14	Aroclor 1221	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
560	Amtrak 26	G14	Aroclor 1232	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
560	Amtrak 26	G14	Aroclor 1242	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
560	Amtrak 26	G14	Aroclor 1248	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
560	Amtrak 26	G14	Aroclor 1254	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
560	Amtrak 26	G14	Aroclor 1260	2600	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
560	Amtrak 26	S06	WATER BY EVAP	9.3		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
5561	Amtrak 27	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
5561	Amtrak 27	G14	Aroclor 1016	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5561	Amtrak 27	G14	Aroclor 1221	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5561	Amtrak 27	G14	Aroclor 1232	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5561	Amtrak 27	G14	Aroclor 1242	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5561	Amtrak 27	G14	Aroclor 1248	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5561	Amtrak 27	G14	Aroclor 1254	ND	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5561	Amtrak 27	G14	Aroclor 1260	30000	360	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
5561	Amtrak 27	S06	WATER BY EVAP	17.0		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
05562	Amtrak 28	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
05562	Amtrak 28	G14	Aroclor 1016	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
05562	Amtrak 28	G14	Aroclor 1221	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
05562	Amtrak 28	G14	Aroclor 1232	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
05562	Amtrak 28	G14	Aroclor 1242	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
05562	Amtrak 28	G14	Aroclor 1248	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
105562	Amtrak 28	G14	Aroclor 1254	ND	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
105562	Amtrak 28	G14	Aroclor 1260	9300	330	ug/kg	05/06/1996	05/08/1996	05/08/1996	JNK
105562	Amtrak 28	S06	WATER BY EVAP	9.6		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
105563	Amtrak 29	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/07/1996	05/07/1996	JMR
105563	Amtrak 29	G14	Aroclor 1016	ND	1600	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
105563	Amtrak 29	G14	Aroclor 1221	ND	1600	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
105563	Amtrak 29	G14	Aroclor 1232	ND	1600	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
105563	Amtrak 29	G14	Aroclor 1242	ND	1600	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
105563	Amtrak 29	G14	Aroclor 1248	ND	1600	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
105563	Amtrak 29	G14	Aroclor 1254	ND	1600	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
105563	Amtrak 29	G14	Aroclor 1260	51000	1600	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
105563	Amtrak 29	S06	WATER BY EVAP	8.9		% as received	05/06/1996	05/07/1996	05/07/1996	MCH

:heon Engineers & Constructors, Inc.
ironmental Services Laboratory Data Summary
nary # 26807

Description		Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
72	Amtrak TR37	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/08/1996	05/08/1996	JMR
72	Amtrak TR37	G14	Aroclor 1016	ND	3500	ug/kg	05/06/1996	05/09/1996	05/09/1996	MXH
72	Amtrak TR37	G14	Aroclor 1221	ND	3500	ug/kg	05/06/1996	05/09/1996	05/09/1996	MXH
72	Amtrak TR37	G14	Aroclor 1232	ND	3500	ug/kg	05/06/1996	05/09/1996	05/09/1996	MXH
572	Amtrak TR37	G14	Aroclor 1242	ND	3500	ug/kg	05/06/1996	05/09/1996	05/09/1996	MXH
572	Amtrak TR37	G14	Aroclor 1248	ND	3500	ug/kg	05/06/1996	05/09/1996	05/09/1996	MXH
572	Amtrak TR37	G14	Aroclor 1254	84000	3500	ug/kg	05/06/1996	05/09/1996	05/09/1996	MXH
572	Amtrak TR37	G14	Aroclor 1260	ND	3500	ug/kg	05/06/1996	05/09/1996	05/09/1996	MXH
572	Amtrak TR37	S06	WATER BY EVAP	15.0		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
573	Amtrak TR38	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/08/1996	05/08/1996	JMR
573	Amtrak TR38	G14	Aroclor 1016	ND	34000	ug/kg	05/06/1996	05/09/1996	05/09/1996	MXH
573	Amtrak TR38	G14	Aroclor 1221	ND	34000	ug/kg	05/06/1996	05/09/1996	05/09/1996	MXH
573	Amtrak TR38	G14	Aroclor 1232	ND	34000	ug/kg	05/06/1996	05/09/1996	05/09/1996	MXH
573	Amtrak TR38	G14	Aroclor 1242	ND	34000	ug/kg	05/06/1996	05/09/1996	05/09/1996	MXH
573	Amtrak TR38	G14	Aroclor 1248	ND	34000	ug/kg	05/06/1996	05/09/1996	05/09/1996	MXH
573	Amtrak TR38	G14	Aroclor 1254	670000	34000	ug/kg	05/06/1996	05/09/1996	05/09/1996	MXH
573	Amtrak TR38	G14	Aroclor 1260	ND	34000	ug/kg	05/06/1996	05/09/1996	05/09/1996	MXH
573	Amtrak TR38	S06	WATER BY EVAP	12.4		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
574	Amtrak TR39	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/08/1996	05/08/1996	JMR
574	Amtrak TR39	G14	Aroclor 1016	ND	350	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
574	Amtrak TR39	G14	Aroclor 1221	ND	350	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
574	Amtrak TR39	G14	Aroclor 1232	ND	350	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
574	Amtrak TR39	G14	Aroclor 1242	ND	350	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
574	Amtrak TR39	G14	Aroclor 1248	ND	350	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
574	Amtrak TR39	G14	Aroclor 1254	ND	350	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
574	Amtrak TR39	G14	Aroclor 1260	6100	350	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
574	Amtrak TR39	S06	WATER BY EVAP	14.4		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
575	Amtrak TR40	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/08/1996	05/08/1996	JMR
575	Amtrak TR40	G14	Aroclor 1016	ND	340	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
575	Amtrak TR40	G14	Aroclor 1221	ND	340	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
575	Amtrak TR40	G14	Aroclor 1232	ND	340	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
575	Amtrak TR40	G14	Aroclor 1242	ND	340	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
575	Amtrak TR40	G14	Aroclor 1248	ND	340	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
575	Amtrak TR40	G14	Aroclor 1254	14000	340	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
575	Amtrak TR40	G14	Aroclor 1260	11.9		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
575	Amtrak TR40	S06	WATER BY EVAP							

3

ıeon Engineers & Constructors, Inc.
ronmental Services Laboratory Data Summary
ary # 26807

Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
6 Amtrak TR41	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/08/1996	05/08/1996	JMR
6 Amtrak TR41	G14	Aroclor 1016	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
'6 Amtrak TR41	G14	Aroclor 1221	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
'6 Amtrak TR41	G14	Aroclor 1232	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
'6 Amtrak TR41	G14	Aroclor 1242	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
76 Amtrak TR41	G14	Aroclor 1248	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
76 Amtrak TR41	G14	Aroclor 1254	ND	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
'76 Amtrak TR41	G14	Aroclor 1260	43000	1700	ug/kg	05/06/1996	05/09/1996	05/09/1996	JNK
;76 Amtrak TR41	S06	WATER BY EVAP	12.7		% as received	05/06/1996	05/07/1996	05/07/1996	MCH
;77 Amtrak TR42	756PO	EXT PCB only SO			COMPLETE	05/06/1996	05/08/1996	05/08/1996	JMR
577 Amtrak TR42	G14	Aroclor 1016	ND	1700	ug/kg	05/06/1996	05/10/1996	05/10/1996	JNK
577 Amtrak TR42	G14	Aroclor 1221	ND	1700	ug/kg	05/06/1996	05/10/1996	05/10/1996	JNK
577 Amtrak TR42	G14	Aroclor 1232	ND	1700	ug/kg	05/06/1996	05/10/1996	05/10/1996	JNK
577 Amtrak TR42	G14	Aroclor 1242	ND	1700	ug/kg	05/06/1996	05/10/1996	05/10/1996	JNK
577 Amtrak TR42	G14	Aroclor 1248	ND	1700	ug/kg	05/06/1996	05/10/1996	05/10/1996	JNK
577 Amtrak TR42	G14	Aroclor 1254	ND	1700	ug/kg	05/06/1996	05/10/1996	05/10/1996	JNK
577 Amtrak TR42	G14	Aroclor 1260	48000	1700	ug/kg	05/06/1996	05/10/1996	05/10/1996	JNK
;577 Amtrak TR42	S06	WATER BY EVAP	13.0		% as received	05/06/1996	05/07/1996	05/07/1996	MCH

Approved by: [signature]

Report Prep: R. E. Wade

14

Sampling Event No. 5 included 10 samples taken after Areas A1/A2 was re-excavated:

- Grids 0A - 0C
- Grids 1A - 1C

ion Engineers & Contractors, Inc.
onmental Services Laboratory Data Summary
ary # 26834

Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
) Amtrak KA01	756PO	EXT PCB only SO			COMPLETE	05/08/1996	05/08/1996	05/08/1996	JMR
) Amtrak KA01	G14	Aroclor 1016	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
0 Amtrak KA01	G14	Aroclor 1221	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
0 Amtrak KA01	G14	Aroclor 1232	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
0 Amtrak KA01	G14	Aroclor 1242	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
0 Amtrak KA01	G14	Aroclor 1248	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
40 Amtrak KA01	G14	Aroclor 1254	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
40 Amtrak KA01	G14	Aroclor 1260	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
40 Amtrak KA01	S06	WATER BY EVAP	9.1		% as received	05/08/1996	05/08/1996	05/08/1996	MCH
41 Amtrak KA02	756PO	EXT PCB only SO			COMPLETE	05/08/1996	05/08/1996	05/08/1996	JMR
41 Amtrak KA02	G14	Aroclor 1016	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
41 Amtrak KA02	G14	Aroclor 1221	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
41 Amtrak KA02	G14	Aroclor 1232	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
41 Amtrak KA02	G14	Aroclor 1242	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
41 Amtrak KA02	G14	Aroclor 1248	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
41 Amtrak KA02	G14	Aroclor 1254	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
41 Amtrak KA02	G14	Aroclor 1260	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
41 Amtrak KA02	S06	WATER BY EVAP	9.9		% as received	05/08/1996	05/08/1996	05/08/1996	MCH
642 Amtrak KA03	756PO	EXT PCB only SO			COMPLETE	05/08/1996	05/08/1996	05/08/1996	JMR
642 Amtrak KA03	G14	Aroclor 1016	ND	350	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
642 Amtrak KA03	G14	Aroclor 1221	ND	350	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
642 Amtrak KA03	G14	Aroclor 1232	ND	350	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
642 Amtrak KA03	G14	Aroclor 1242	ND	350	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
642 Amtrak KA03	G14	Aroclor 1248	ND	350	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
642 Amtrak KA03	G14	Aroclor 1254	ND	350	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
642 Amtrak KA03	G14	Aroclor 1260	2500	350	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
642 Amtrak KA03	S06	WATER BY EVAP	13.8		% as received	05/08/1996	05/08/1996	05/08/1996	MCH
5643 Amtrak KA04	756PO	EXT PCB only SO			COMPLETE	05/08/1996	05/08/1996	05/08/1996	JMR
5643 Amtrak KA04	G14	Aroclor 1016	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
5643 Amtrak KA04	G14	Aroclor 1221	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
5643 Amtrak KA04	G14	Aroclor 1232	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
5643 Amtrak KA04	G14	Aroclor 1242	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
5643 Amtrak KA04	G14	Aroclor 1248	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
5643 Amtrak KA04	G14	Aroclor 1254	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK

003

hec. Engineers & Consultants, Inc.
ronmental Services Laboratory Data Summary
ary # 26834

Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
3 Amtrak KA04	G14	Aroclor 1260	2300	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
3 Amtrak KA04	S06	WATER BY EVAP	10.3		% as received	05/08/1996	05/08/1996	05/08/1996	MCH
44 Amtrak KA05	756PO	EXT PCB only SO			COMPLETE	05/08/1996	05/08/1996	05/08/1996	JMR
44 Amtrak KA05	G14	Aroclor 1016	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
44 Amtrak KA05	G14	Aroclor 1221	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
44 Amtrak KA05	G14	Aroclor 1232	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
44 Amtrak KA05	G14	Aroclor 1242	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
544 Amtrak KA05	G14	Aroclor 1248	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
544 Amtrak KA05	G14	Aroclor 1254	ND	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
544 Amtrak KA05	G14	Aroclor 1260	20000	330	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
644 Amtrak KA05	S06	WATER BY EVAP	10.2		% as received	05/08/1996	05/08/1996	05/08/1996	MCH
645 Amtrak KA06	756PO	EXT PCB only SO			COMPLETE	05/08/1996	05/08/1996	05/08/1996	JMR
645 Amtrak KA06	G14	Aroclor 1016	ND	1700	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
645 Amtrak KA06	G14	Aroclor 1221	ND	1700	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
645 Amtrak KA06	G14	Aroclor 1232	ND	1700	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
645 Amtrak KA06	G14	Aroclor 1242	ND	1700	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
645 Amtrak KA06	G14	Aroclor 1248	ND	1700	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
645 Amtrak KA06	G14	Aroclor 1254	ND	1700	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
645 Amtrak KA06	G14	Aroclor 1260	55000	1700	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
645 Amtrak KA06	S06	WATER BY EVAP	12.7		% as received	05/08/1996	05/08/1996	05/08/1996	MCH
5646 Amtrak KA07	756PO	EXT PCB only SO			COMPLETE	05/08/1996	05/08/1996	05/08/1996	JMR
5646 Amtrak KA07	G14	Aroclor 1016	ND	1600	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
5646 Amtrak KA07	G14	Aroclor 1221	ND	1600	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
5646 Amtrak KA07	G14	Aroclor 1232	ND	1600	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
5646 Amtrak KA07	G14	Aroclor 1242	ND	1600	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
5646 Amtrak KA07	G14	Aroclor 1248	ND	1600	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
5646 Amtrak KA07	G14	Aroclor 1254	ND	1600	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
5646 Amtrak KA07	G14	Aroclor 1260	70000	1600	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
5646 Amtrak KA07	S06	WATER BY EVAP	8.7		% as received	05/08/1996	05/08/1996	05/08/1996	MCH
5647 Amtrak KA08	756PO	EXT PCB only SO			COMPLETE	05/08/1996	05/08/1996	05/08/1996	JMR
5647 Amtrak KA08	G14	Aroclor 1016	ND	6900	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
5647 Amtrak KA08	G14	Aroclor 1221	ND	6900	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
5647 Amtrak KA08	G14	Aroclor 1232	ND	6900	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
5647 Amtrak KA08	G14	Aroclor 1242	ND	6900	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
5647 Amtrak KA08	G14	Aroclor 1248	ND	6900	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK

014

ieon Engineers & Constructors, Inc.
ronmental Services Laboratory Data Summary
ary # 26834

Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
7 Amtrak KA08	G14	Aroclor 1254	ND	6900	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
7 Amtrak KA08	G14	Aroclor 1260	140000	6900	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
7 Amtrak KA08	S06	WATER BY EVAP	13.2		% as received	05/08/1996	05/08/1996	05/08/1996	MCH
8 Amtrak KA09	756PO	EXT PCB only SO			COMPLETE	05/08/1996	05/08/1996	05/08/1996	JMR
8 Amtrak KA09	G14	Aroclor 1016	ND	3600	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
8 Amtrak KA09	G14	Aroclor 1221	ND	3600	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
48 Amtrak KA09	G14	Aroclor 1232	ND	3600	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
48 Amtrak KA09	G14	Aroclor 1242	ND	3600	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
48 Amtrak KA09	G14	Aroclor 1248	ND	3600	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
48 Amtrak KA09	G14	Aroclor 1254	ND	3600	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
48 Amtrak KA09	G14	Aroclor 1260	120000	3600	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
48 Amtrak KA09	S06	WATER BY EVAP	16.2		% as received	05/08/1996	05/08/1996	05/08/1996	MCH
649 Amtrak KA10	756PO	EXT PCB only SO			COMPLETE	05/08/1996	05/08/1996	05/08/1996	JMR
649 Amtrak KA10	G14	Aroclor 1016	ND	1800	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
649 Amtrak KA10	G14	Aroclor 1221	ND	1800	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
649 Amtrak KA10	G14	Aroclor 1232	ND	1800	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
649 Amtrak KA10	G14	Aroclor 1242	ND	1800	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
649 Amtrak KA10	G14	Aroclor 1248	ND	1800	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
649 Amtrak KA10	G14	Aroclor 1254	ND	1800	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
649 Amtrak KA10	G14	Aroclor 1260	95000	1800	ug/kg	05/08/1996	05/10/1996	05/10/1996	JNK
649 Amtrak KA10	S06	WATER BY EVAP	14.3		% as received	05/08/1996	05/08/1996	05/08/1996	MCH

Approved by: [signature]

Report Prep: R. E. Weeks

025

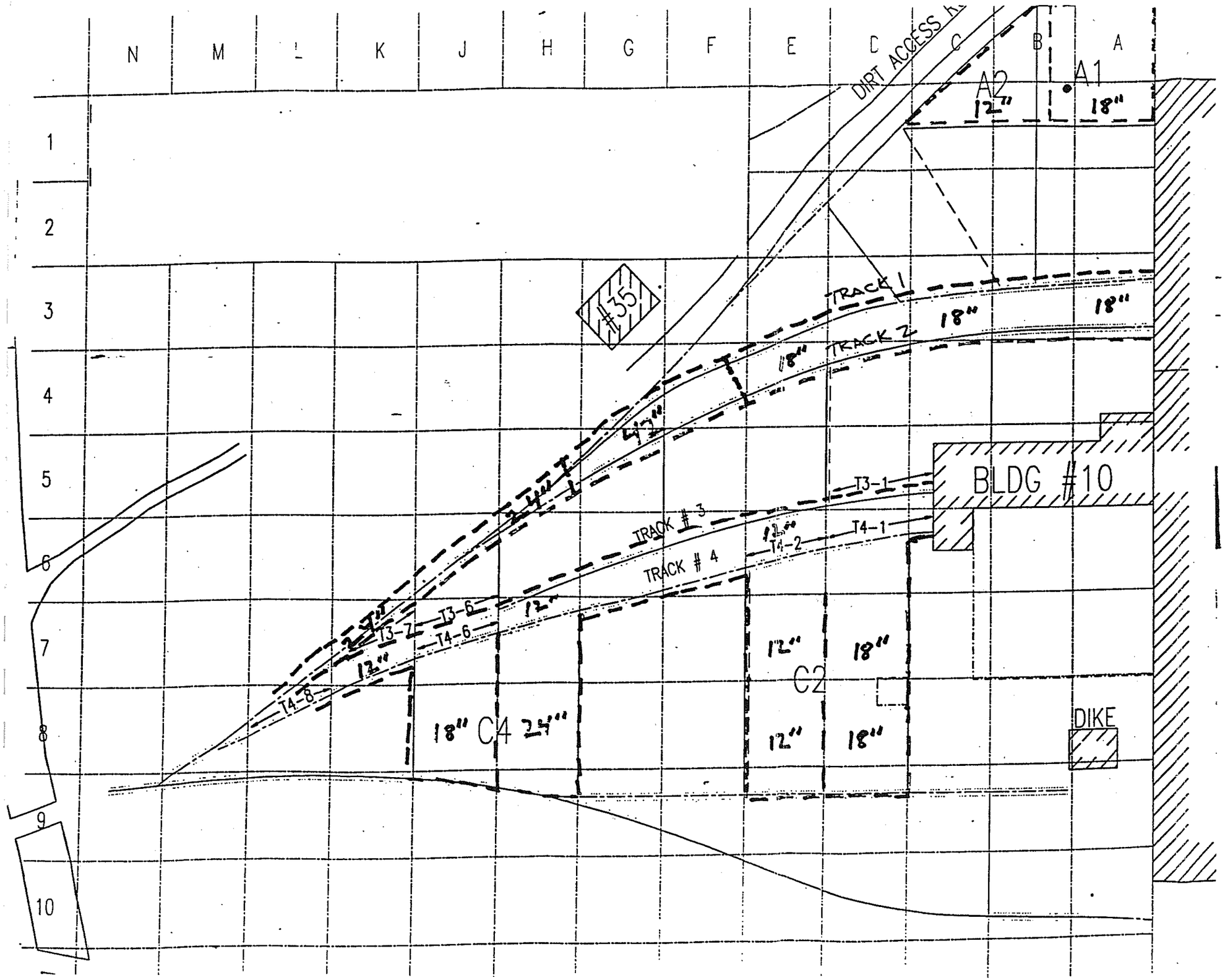


FIGURE 1 - Excavation Depths and Limits
AMTRAK MAINTENANCE SHOPS

WILMINGTON, DE

PCB Soil/Ballast Removal Project - May 1996

/--------- North

Approx Scale - 50 ft grids

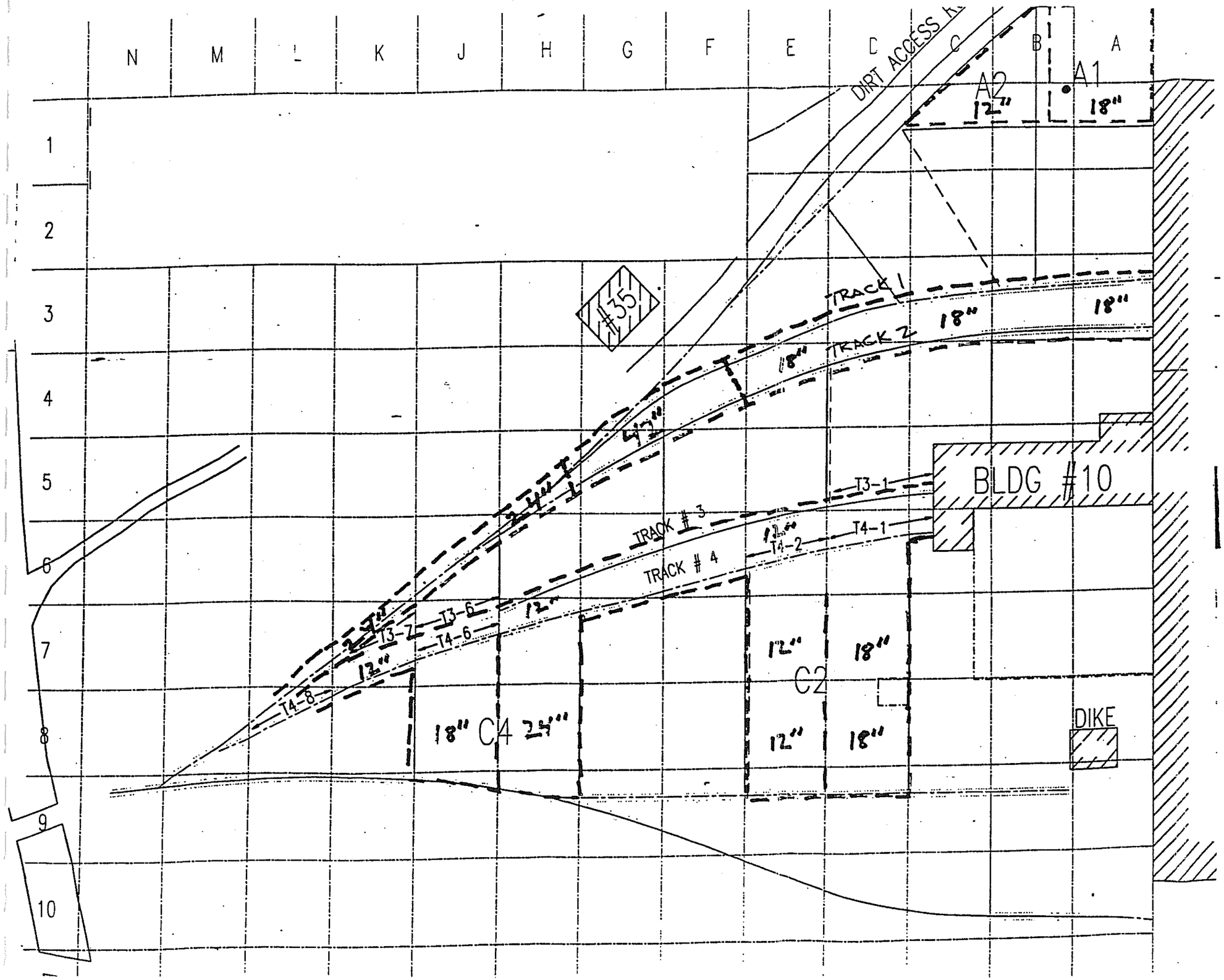


FIGURE 1 - Excavation Depths and Limits
AMTRAK MAINTENANCE SHOPS

WILMINGTON, DE

PCB Soil/Ballast Removal Project - May 1996

/--------- North

Approx Scale - 50 ft grids

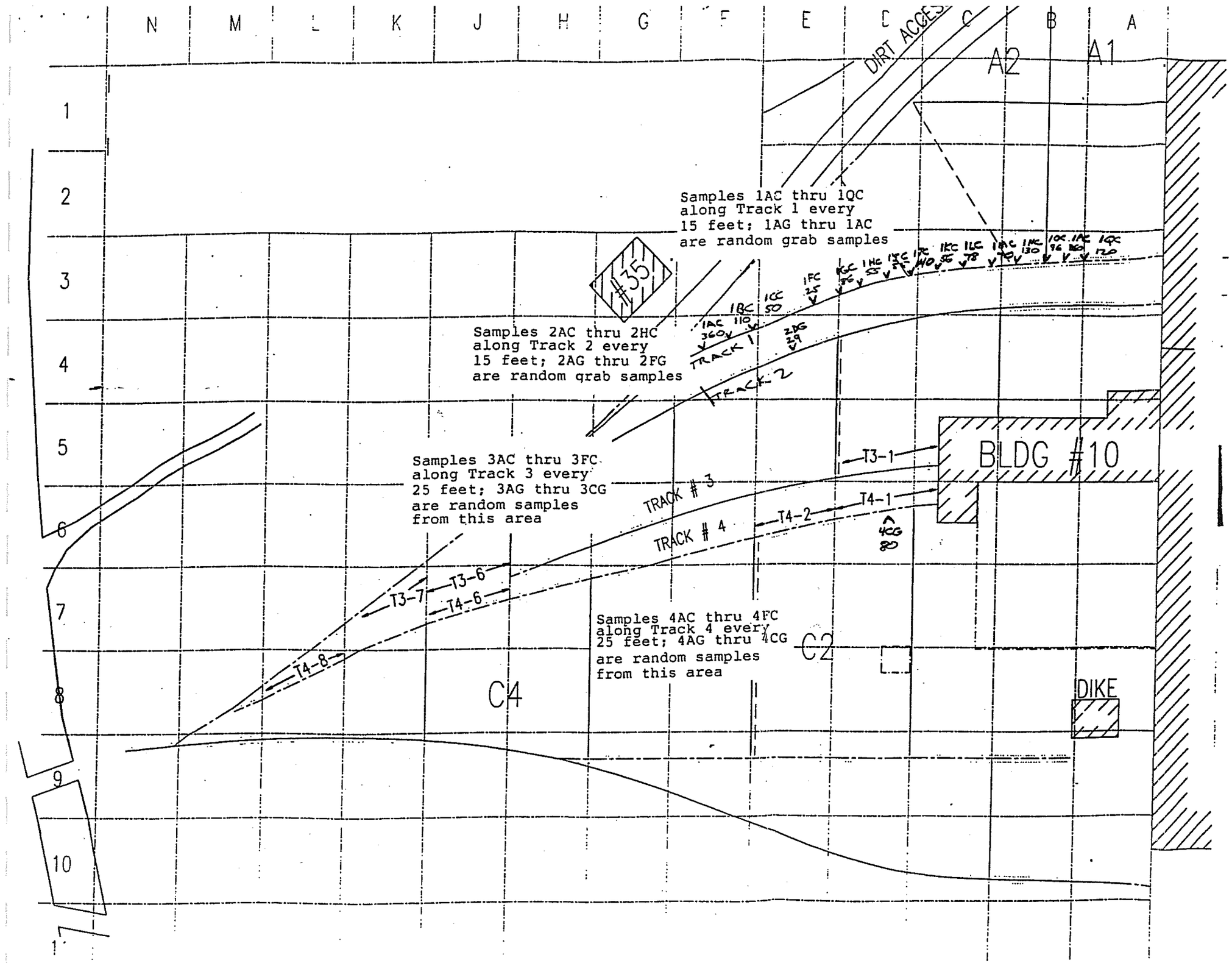


Figure 2 - Sampling Event 1
April 18, 1996

AMTRAK MAINTENANCE SHOPS
WILMINGTON, DE

North

50 foot grids

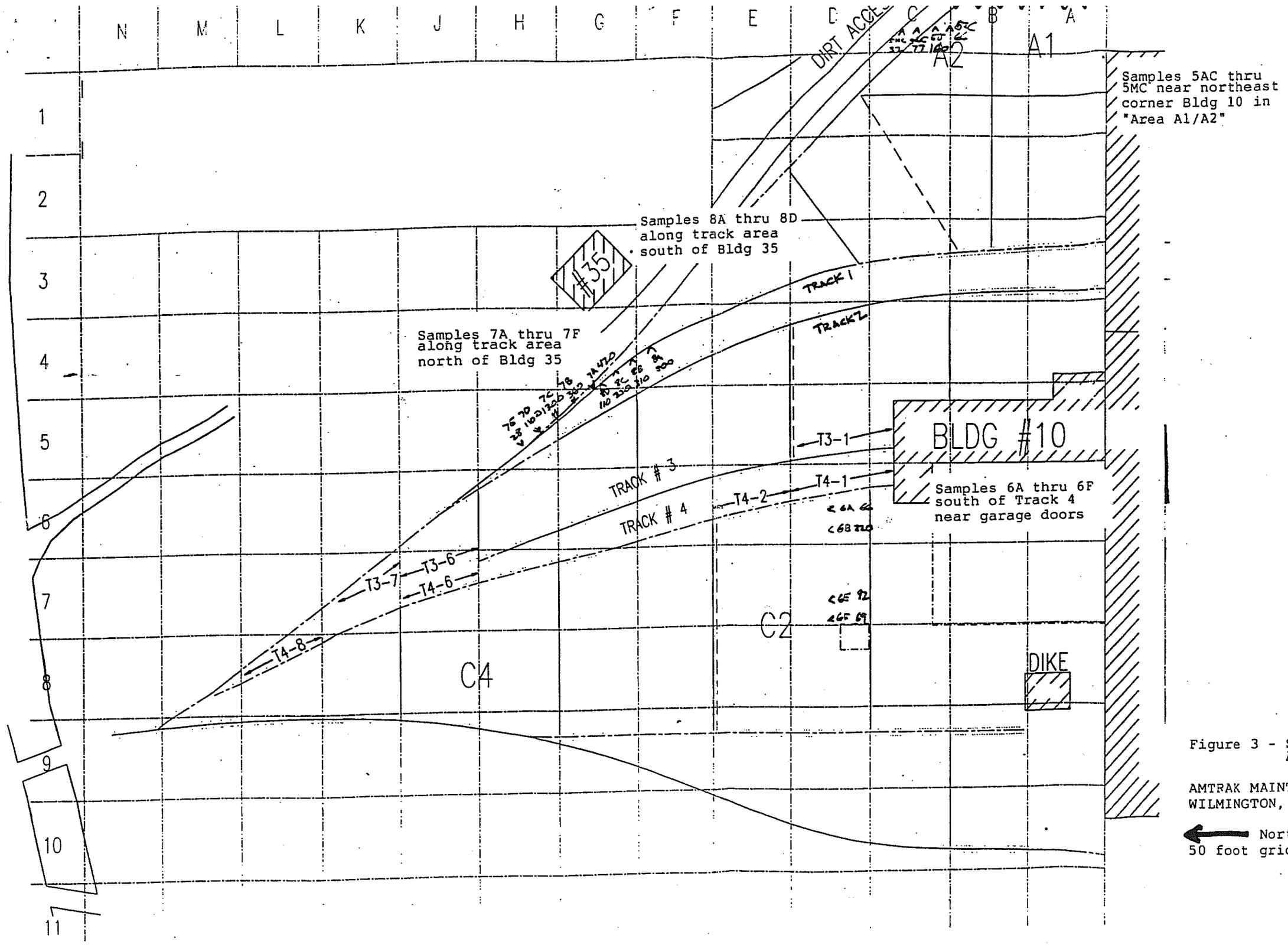


Figure 3 - Sampling Event 2
April 24, 1996

AMTRAK MAINTENANCE SHOPS
WILMINGTON, DE

North
50 foot grids

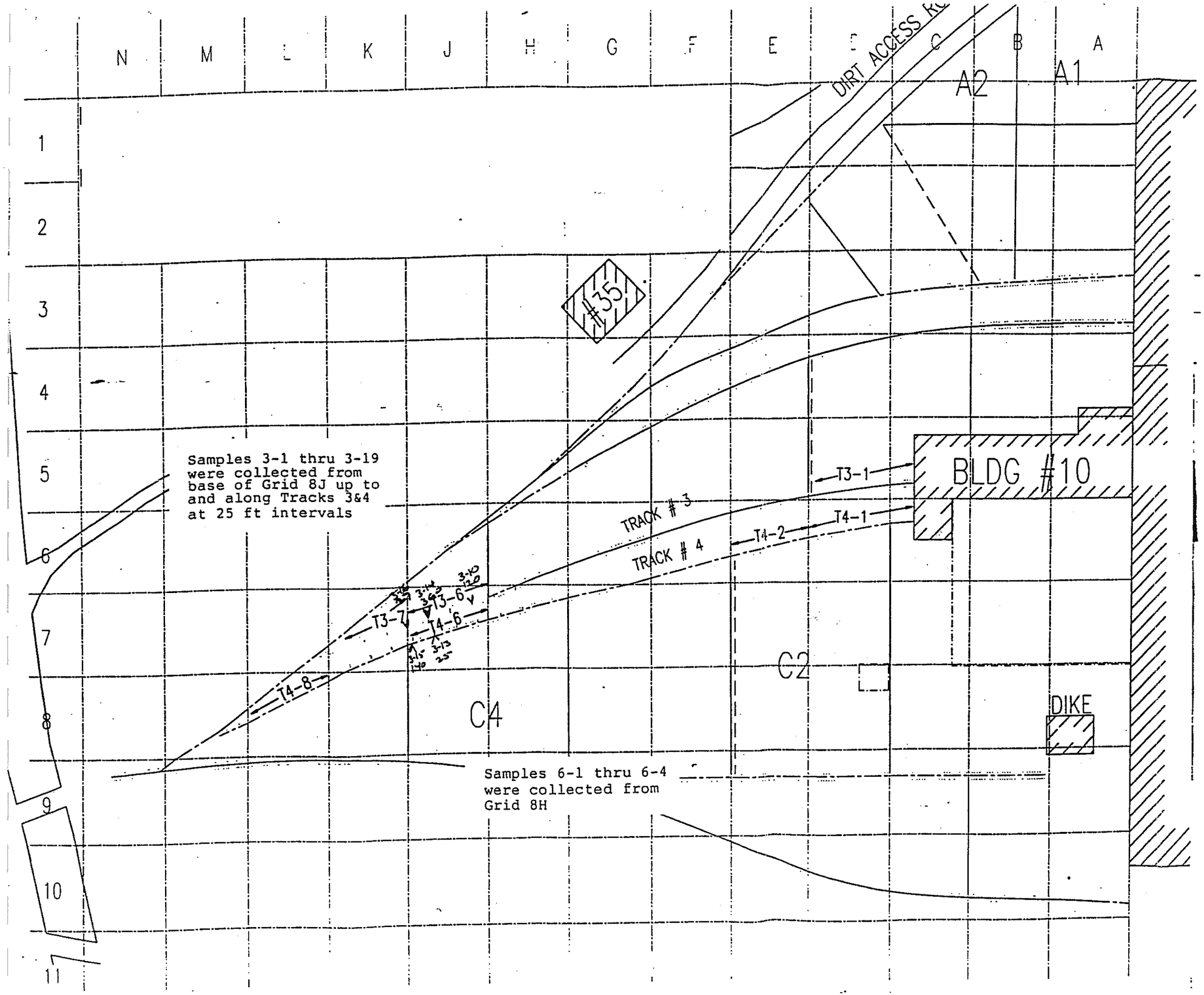


Figure 4 - Sampling Event 3
May 2, 1996

AMTRAK MAINTENANCE SHOPS
WILMINGTON, DE

North - 50 foot grids

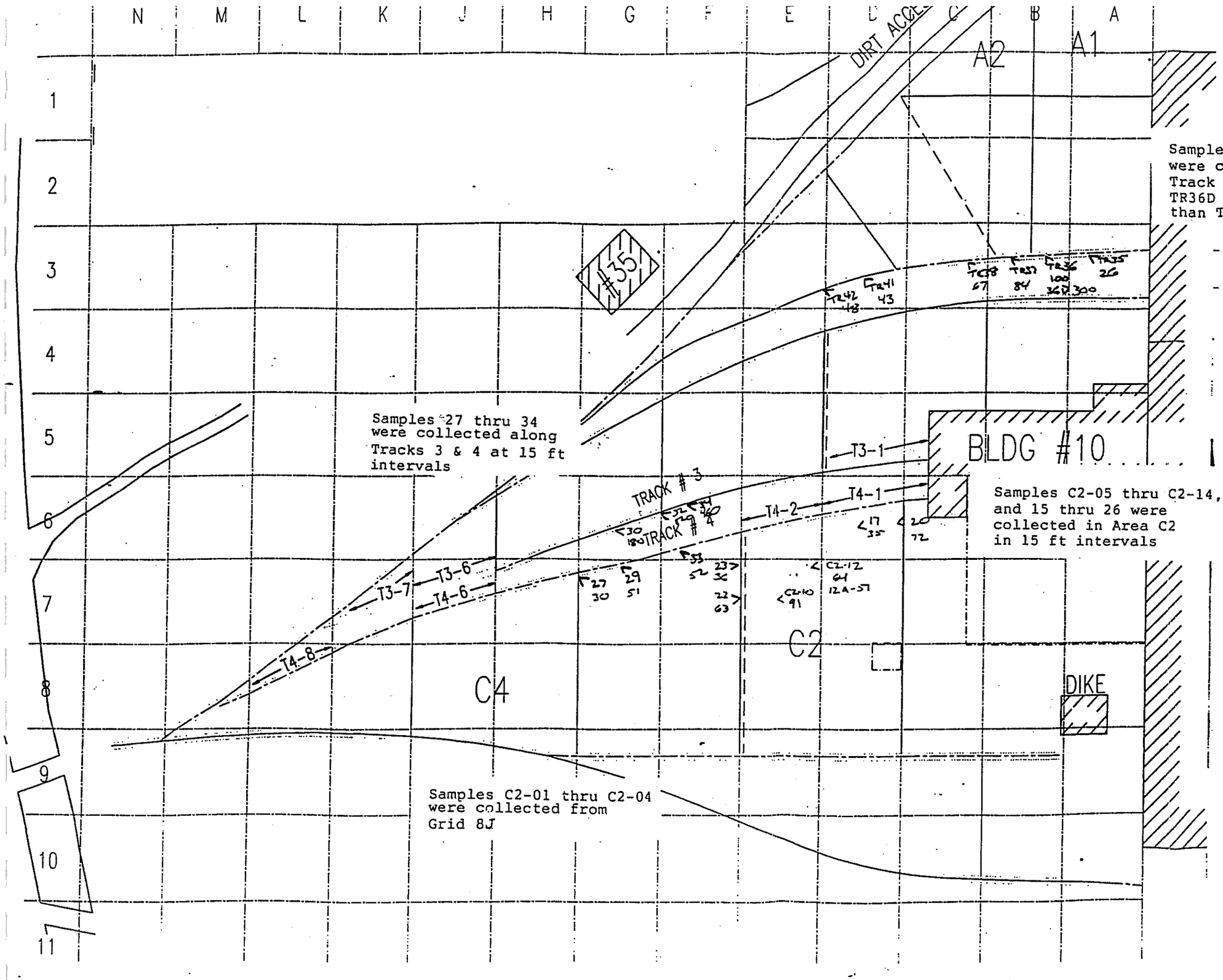


Figure 5 - Sampling Event 4
May 6, 1996

AMTRAK MAINTENANCE SHOPS
WILMINGTON, DE

North

50 ft grids

were collected in "Areas A1/A2" at 25 ft intervals

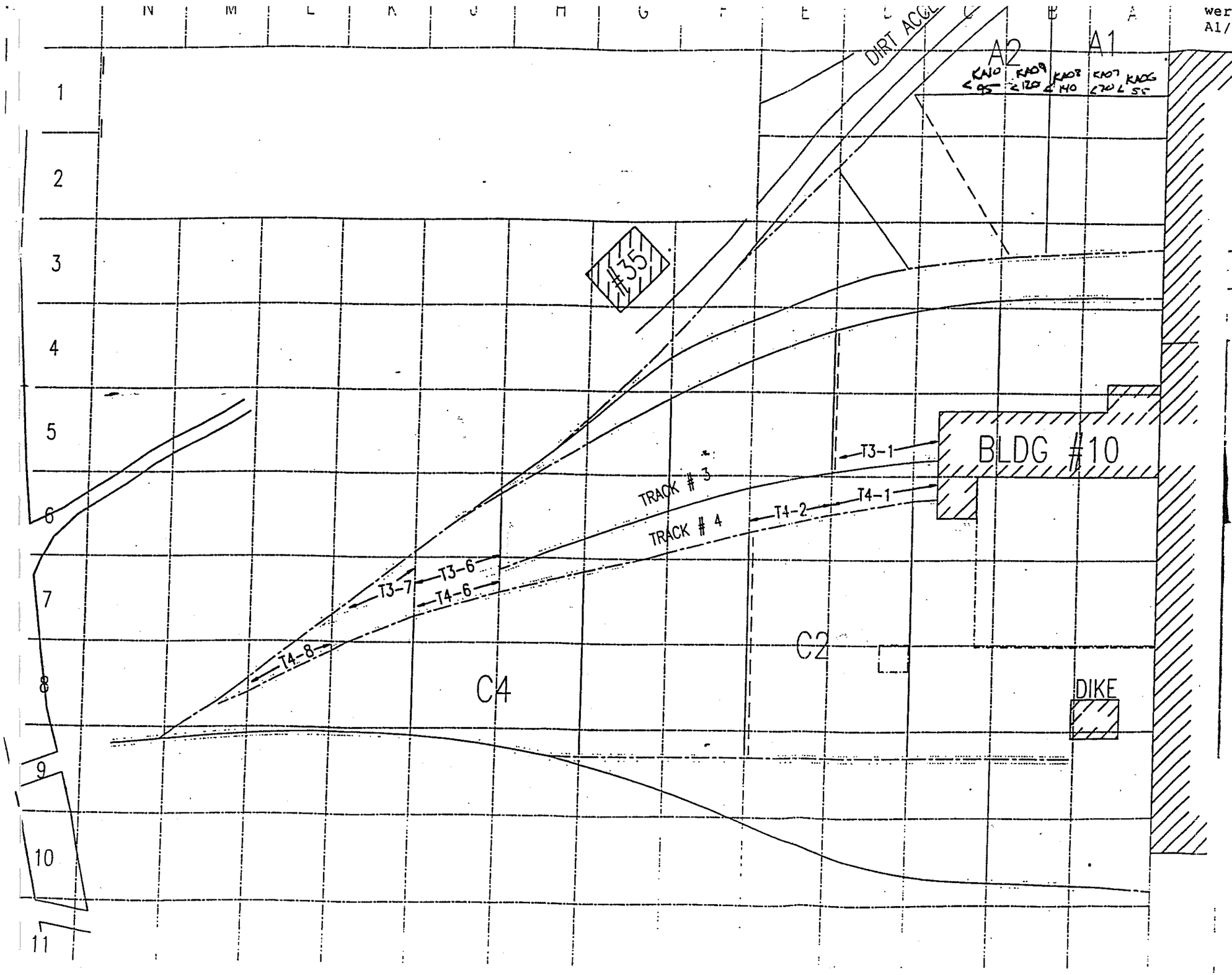


Figure 6 - Sampling Event 5
May 8, 1996

AMTRAK MAINTENANCE SHOPS
WILMINGTON, DE

North

50 foot grids

SECOR

SECOR
INTERNATIONAL
INCORPORATED

www.secor.com

December 20, 2005

Charles Lin
National Railroad Passenger Corporation
60 Massachusetts Avenue, NE
Washington, DC 20002

RE: Summary Report of Soil Removal Activities,
Proposed Warehouse Building Area,
Amtrak Wilmington Maintenance Facility
Wilmington, Delaware

Dear Charles:

SECOR is pleased to provide you with this summary report documenting soil removal activities at the proposed warehouse location at the Amtrak Maintenance Facility in Wilmington, Delaware. SECOR provided oversight or soil removal and backfilling activities and collected post-excavation soil samples. A summary of the soil removal activities is provided below and supporting documentation is attached.

1.0 Background

Soil samples were collected to characterize shallow soil chemistry beneath the proposed warehouse building and related structures located at the Amtrak Maintenance Facility located in Wilmington, Delaware. Amtrak and their design consultants will use the results of the pre-construction soil investigation in planning subsequent steps in the building design/construction process, including development of health and safety considerations, special construction measures and/or preliminary soil handling and disposal considerations.

Soil boring locations R-101 through R-118 (and additional delineation soil borings R-105A though R-105D) were installed under the direction of Roux Associates during August and September 2004. After the soil characterization activities described above were completed, Amtrak considered expanding the footprint of the proposed building. As a result, four additional soil borings were installed. Soil borings SB-101 through SB-104 were advanced to a depth of 3 feet bgs under the direction of SECOR. SECOR soil characterization results were documented in *Soil Quality Investigations – Report of Findings Proposed Building Warehouse Area* prepared by SECOR and dated May 3, 2005.

Based on the results of the pre-construction soil investigation, Amtrak determined that soils should be excavated from two areas; the area of boring R-105 and the area of boring SB-104. All soil boring locations and PCB soil sample results are presented on **Figure 1**. The proposed excavation limits and depths are also presented on **Figure 1**.

As requested by Amtrak, SECOR prepared a Request for Proposal/Scope of Work document for the soil removal activities. SECOR provided this document to Amtrak during July 2005. The proposed scope of work described in the document included:

1) In-place soil characterization for disposal (as determined to be needed);
2) Removal, loading, transportation and disposal of concrete and bituminous paving (as TSCA material);
3) Excavation, loading, transportation and disposal of Toxic Substances Control Act (TSCA) soil; and
4) Import, place and compact dense graded aggregate (DGA).

Amtrak used the Request for Proposal/Scope of Work document to solicit bids from Amtrak-approved vendors. Additional items were added to scope of work in response to questions raised by the vendors at the August 31, 2005 bid meeting. These additional items included asphalt paving in the SB-104 area, fence removal, mandatory attendance at a pre-construction meeting, the saw cutting of asphalt or concrete surfaces, and a response to questions regarding the maintenance of excavation access controls. Through their bidding process, Amtrak selected Fleet Environmental Services, LLC (Fleet) of West Chester, PA to perform the soil excavation activities.

As described in the Scope of Work document and mentioned above, Amtrak identified two areas of excavation (the soil boring R-105 area and the soil boring SB-104 area) based on the results of the soil borings installed by Roux and SECOR. These areas are depicted on **Figure 1**. In the R-105 area, the excavation was to extend five feet beyond each of the four additional delineation borings R-105A through R-105D for a total dimension of 60 feet by 60 feet (with R-105 located in the center of the excavation). Target excavation depths are shown on **Figure 1**, and vary from 2 feet below ground surface (bgs) at R-105A, to 3 feet bgs at R-105B, and R-105D to 4 feet bgs at R-105C and R-105. Based on review of the data and discussion with Amtrak, the target excavation extent in the SB-104 area was 20 feet by 20 feet (with the location of SB-104 in the center of the excavation) and to a depth of 2 feet bgs.

A pre-construction meeting was held on September 15, 2005 to discuss site logistics for the excavation of the scope of work. Representatives from Amtrak, SECOR, and Fleet attended the meeting. During that meeting, Fleet informed Amtrak and SECOR that in order to meet the timeline to complete the scope of work, it would be necessary to stockpile excavated material on the ground surface prior to transporting the material off-site (the Scope of Work document specified the direct loading of excavated material and stockpiling). Amtrak authorized the temporary staging of the material on the ground providing necessary controls were maintained to prevent runoff from the piles from entering the storm water sewer system. It was also mentioned that the extension of the concrete loading pad (approximate two feet above ground surface) did not have to be managed as a TSCA material.

Fleet was responsible for the pre-characterization of soils to be excavated and coordination with the disposal facility. Soil boring data collected by Roux and SECOR was provided to Fleet. Fleet coordinated the TSCA disposal of soil as well as the concrete and asphalt paving to be removed with Environmental Quality Company's (EQ) Bellville, Michigan landfill.

2.0 Soil and Concrete/ Asphalt Paving Excavation

Site activities began on September 21, 2005. Prior to any excavation activities, Amtrak personnel marked the location of an underground electric line in the vicinity of the S-104 excavation area (Fleet performed the utility notification for excavation activities as required by the State of Delaware).

The initial activities included the removal of the extension of the loading dock in the eastern portion of the R-105 excavation area. Work then began on saw cutting and removing the concrete and asphalt paving. This material was stockpiled near the excavation area. Fleet experienced difficulties in contracting with a transporter for the excavated material due to the lack of available trucks. As a result, the material was stockpiled longer than desired and project delays were experienced.

On Saturday, September 24, 2005, Amtrak facility maintenance personnel assisted Fleet in securing the utility pole on the western edge of the R-105 area excavation. Soil excavation continued through September 25, 2005. On September 25, 2005, the excavation of the R-105 Area and SB-105 areas was completed to the dimensions depicted on **Figure 1**. All excavated soils were stockpiled at the site. Plastic sheeting was maintained over the stockpiles and the paved areas were continually swept to remove soils which may have been inadvertently been tracked outside of the excavation areas. In addition, protections were placed around vicinity storm water drains to prevent excavated soils from washing into the storm water sewer system.

3.0 Post Excavation Soil Sampling – September 25, 2005

Following the completion of the excavation of soils in the R-105 and SB-104 areas to the targeted dimensions (refer to **Figure 1**), post-excavation soil samples were collected by SECOR on September 25, 2005.

Nine soil samples were collected from the R-105 excavation as depicted on **Figure 2**. Soil samples PE-1 though PE-8 are sidewall samples. These samples were collected at a depth of ½ of the excavation depth adjacent to each sampling location. Soil sample PE-9 was collected at the base of the excavation (4 feet below ground surface) at the center of the excavation.

Soil samples PE-10 through PE-15 were collected from the SB-104 area (refer to **Figure 2**). Soil

samples PE-10 through PE-14 were sidewall samples collected at ½ of the excavation depth adjacent to each sampling location (one foot below ground surface). Soil sample PE-11 is a duplicate sample of soil sample PE-10. PE-15 was an excavation bottom sample collected at the center of the excavation. One field blank and one MS/MSD were also submitted for laboratory analyses.

Soil samples were submitted to STL located in Edison, New Jersey. All samples were analyzed for PCB aroclors using Method 8082.

Soil sample analytical results are summarized on **Table 1** and laboratory data sheets are included in **Appendix A** (the complete laboratory data deliverable is available upon request). Amtrak directed that additional excavation was required at any location reporting a PCB concentration greater than 500 mg/kg. As indicated on **Table 1**, in the R-105 area samples exceeding 500 mg/kg PCBs were sidewall samples PE-3 (610 mg/kg), PE-4 (7,700 mg/kg), and PE-7 (2,400 mg/kg) as well as excavation bottom sample PE-9 (1,000 mg/kg). In the SB-104 area, the only sample exceeding 500 mg/kg PCBs was bottom sample PE-15 (540 mg/kg).

4.0 Supplemental Soil Excavation

As directed by Amtrak, additional excavation was performed at the locations of the samples reporting PCB concentrations greater than 500 mg/kg. In the area of sidewall sample PE-3, the sidewall was extended generally between 4 and 8 feet except in the immediate location of a utility pole (refer to **Figure 2**). The excavation did not come within a distance of approximately 5 feet from the utility pole due to pole stability concerns. At the location of sidewall sample PE-4, the excavation was extended laterally a distance of 8 to 12 feet. The excavation was extended laterally approximately 10 feet in the vicinity of sidewall sample PE-7. At these sidewall sample locations, the excavation was extended laterally at the original target depth. At the location of excavation bottom sample PE-9, the excavation over the center 25 foot by 25 foot area was excavated to the water table surface as directed by Amtrak. A brick structure (which had been previously broken up) was encountered at a depth of approximately five feet near the center of the excavation. Soils in the vicinity of this structure reported an odor, although there was evidence of separate phase liquids on the water surface. The entire brick structure was removed. The final excavation depths and limits are depicted on **Figure 2**.

In the SB-104 excavation area, the depth of the excavation was extended from 2 feet to approximately 3.5 feet bgs. During the supplemental excavation of this area, Fleet damaged the underground electric line on the western perimeter of the excavation that feeds the loading dock area (this line was beyond the 20 foot by 20 foot excavation limit and was inadvertently contacted). Fleet coordinated the repair of the line by an electrical subcontractor and Amtrak facility maintenance personnel.

All soils excavated during the initial and supplemental excavation activities were stockpiled. The loading of transport trucks for off-site disposal of stockpiled material began on September 28, 2005 and continued through October 20, 2005. The material was transported to EQ's Bellville, Michigan landfill for TSCA disposal. A total of 50 trucks were used to haul the excavated TSCA material. Copies of manifests are included in **Appendix B**. **Appendix C** provides a summary of the truck loads and weights accepted into the landfill. As indicated, a total of 1,137 tons of material was shipped to the landfill.

5.0 Post Excavation Soil Sampling – October 5, 2005

Following the completion of the supplemental soil removal activities, additional post-excavation samples were collected on October 5, 2005. Sidewall samples (PE-16, PE-17, and PE-18) were collected from the R-105 area at locations adjacent to the previous sidewall sampling locations which reported PCB concentrations greater than 500 mg/kg (refer to **Figure 2**). As indicated, on **Figure 2**, soil sample PE-16 was off-set slightly as a result of limitations with working around the utility pole. No excavation bottom sample was collected from the R-105 area since the excavation was extended to the water table.

An excavation bottom sample (PE-19) was collected from the center of the SB-104 excavation area. This sample location is displayed on **Figure 3**. One field blank was also submitted for analyses.

Soil samples were submitted to STL located in Edison, New Jersey (a DNREC-approved laboratory). All samples were analyzed for PCB aroclors using Method 8082.

Soil sample analytical results are summarized on **Table 2** and laboratory data sheets are included in **Appendix A** (the complete laboratory data deliverable is available upon request). As indicated on **Table 2**, all samples reported PCB concentrations less than 500 mg/kg. The highest concentration reported was 40 mg/kg at sample location PE-17. Based on these analytical results, Amtrak authorized the initiation of backfilling activities.

6.0 Excavation Backfilling Activities

The backfilling of the excavations initiated on October 10, 2005 and was completed on October 24, 2005. As indicated in the excavation backfill compaction testing report (**Appendix D**), the backfill material consisted of coarse aggregate meeting the gradation requirements of DelDOT Type "B" (Crusher Run). The backfill material particle size distribution is included in **Appendix D**. Backfill truck weight tickets supplied by Fleet are included as **Appendix E**.

The Scope of Work document specified placement and compaction of ¾-inch dense graded aggregate (DGA), completed in continuous layers not exceeding twelve (12) inches compacted

depth to 95% modified Procter density. Compaction testing was to consist of performing nuclear gauge density testing at two select locations per each continuous layer as determined by Amtrak. However, for the SB-104 area, Amtrak waived the requirement for compaction testing each 12 inches in order to get the loading dock back in operation as soon as was possible. Compaction testing in this area was performed only at the surface in this area.

The compaction testing was performed by Advanced Geosciences of West Chester, Pennsylvania. The compaction testing report is included **Appendix D**. As indicated in the report, the three tests performed at the ground surface in the SB-104 area reported 92.2% to 94.0% maximum dry density compaction. Asphalt was subsequently placed over this area by Fleet. Cracks were subsequently observed in the asphalt paving. The repair of the asphalt paving is being coordinated directly between Fleet and Amtrak.

In the R-105 area, due to water in the excavation (likely ground water and from recent rain events), compaction testing was initiated a depth of four feet below ground surface. Testing was performed at 12-inch intervals. As indicated in **Appendix D**, the results of the testing ranged from 91.1% to 97.2% of maximum dry density, with an average of approximately 93%. In their report, Advanced Geosciences noted that although 93% compaction was below the target of 95%, it was their experience that "a density of 93% is suitable for support of asphalt/concrete pavements, floor slabs, and sidewalks. It is our (Advanced Geosciences') engineering opinion that the backfill was placed and compacted in accordance with good earthwork practices and is stable and unyielding".

As described in Section 4.0, soil exaction adjacent to post excavation sidewall sample PE-3 was limited by the existing utility pole, therefore it is possible that there is a small quantity of soil above Amtrak target excavation PCB concentrations in the immediate vicinity of the pole. This should be considered in future site renovation activities

SECOR appreciates the opportunity to provide continued service to Amtrak. If you have any questions regarding this report or require any additional information, please contact me in (484) 875-3075.

Sincerely,
SECOR International, Inc.

Steve Baggett

Steve Baggett, PG
Principal Hydrogeologist

Attachments

cc: Project File

TABLE 1
Post Excavation Soil Sampling Results
September 25, 2005
Porposed Warehouse Area
Amtrak Wilmington Shops
Wilmington Delaware

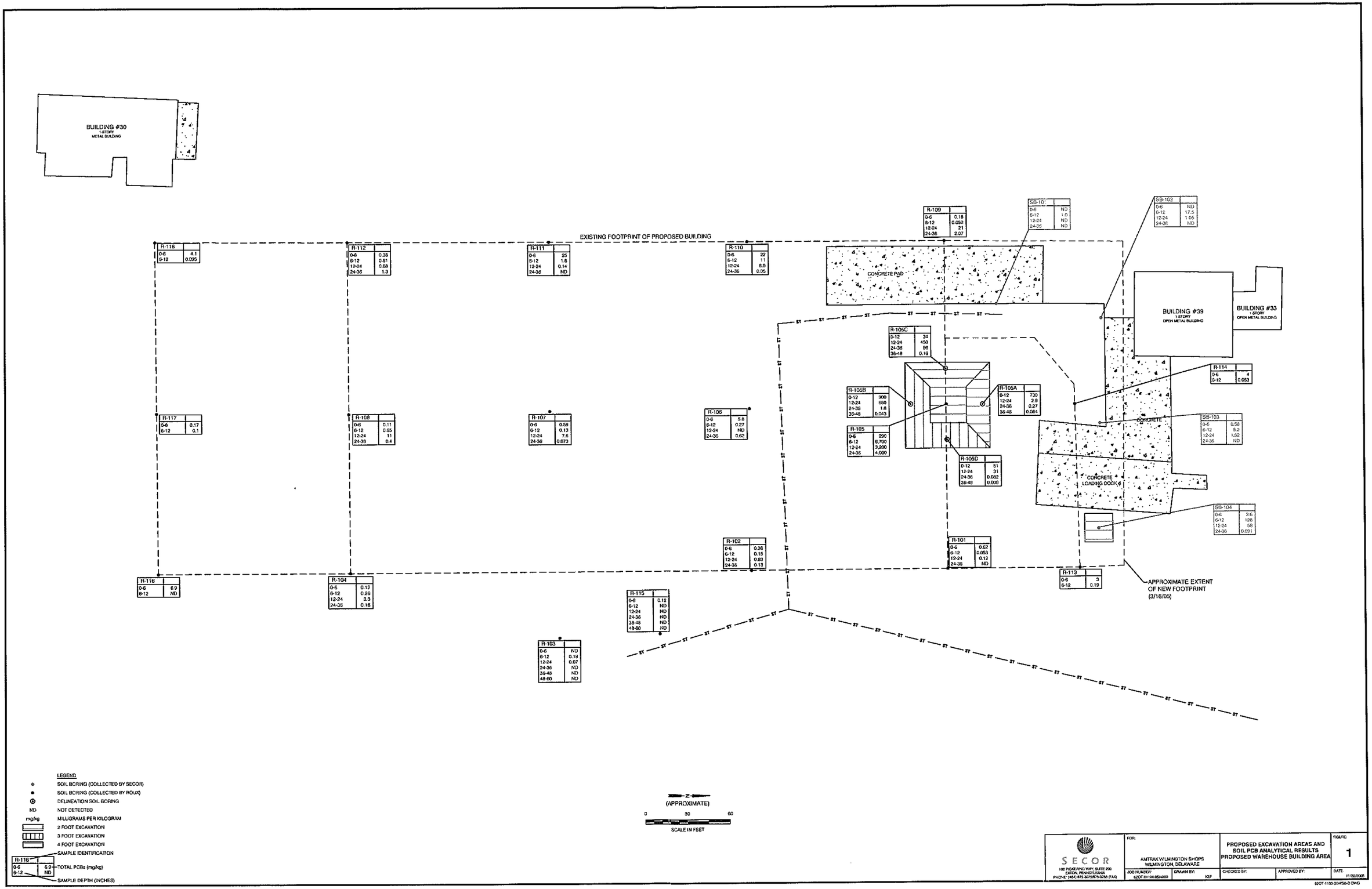
Sample ID	PE-1		PE-2		PE-3		PE-4		PE-5		PE-6		PE-7		PE-8		PE-9		PE-10		PE-11		PE-12		PE-13		PE-14		PE-15	
Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
PCB Aroclor																														
Aroclor-1016	1.4	U	1.4	U	36	U	430	U	21	U	0.41	U	150	U	14	U	71	U	0.37	U	0.074	U	1.9	U	14	U	0.081	U	37	U
Aroclor-1221	1.4	U	1.4	U	36	U	430	U	21	U	0.41	U	150	U	14	U	71	U	0.37	U	0.074	U	1.9	U	14	U	0.081	U	37	U
Aroclor-1232	1.4	U	1.4	U	36	U	430	U	21	U	0.41	U	150	U	14	U	71	U	0.37	U	0.074	U	1.9	U	14	U	0.081	U	37	U
Aroclor-1242	1.4	U	1.4	U	36	U	430	U	21	U	0.41	U	150	U	14	U	71	U	0.37	U	0.074	U	1.9	U	14	U	0.081	U	37	U
Aroclor-1248	1.4	U	1.4	U	36	U	430	U	21	U	0.41	U	150	U	14	U	71	U	0.37	U	0.074	U	1.9	U	14	U	0.081	U	37	U
Aroclor-1254	1.4	U	1.4	U	36	U	430	U	21	U	0.41	U	150	U	14	U	71	U	0.37	U	0.074	U	1.9	U	14	U	0.081	U	37	U
Aroclor-1260	16		15		610		7700		220		5.7		2400		180		1000		3.4		0.28		23		160		0.12		540	
Aroclor-1262	1.4	U	1.4	U	36	U	430	U	21	U	0.41	U	150	U	14	U	71	U	0.37	U	0.074	U	1.9	U	14	U	0.081	U	37	U
Aroclor-1268	1.4	U	1.4	U	36	U	430	U	21	U	0.41	U	150	U	14	U	71	U	0.37	U	0.074	U	1.9	U	14	U	0.081	U	37	U

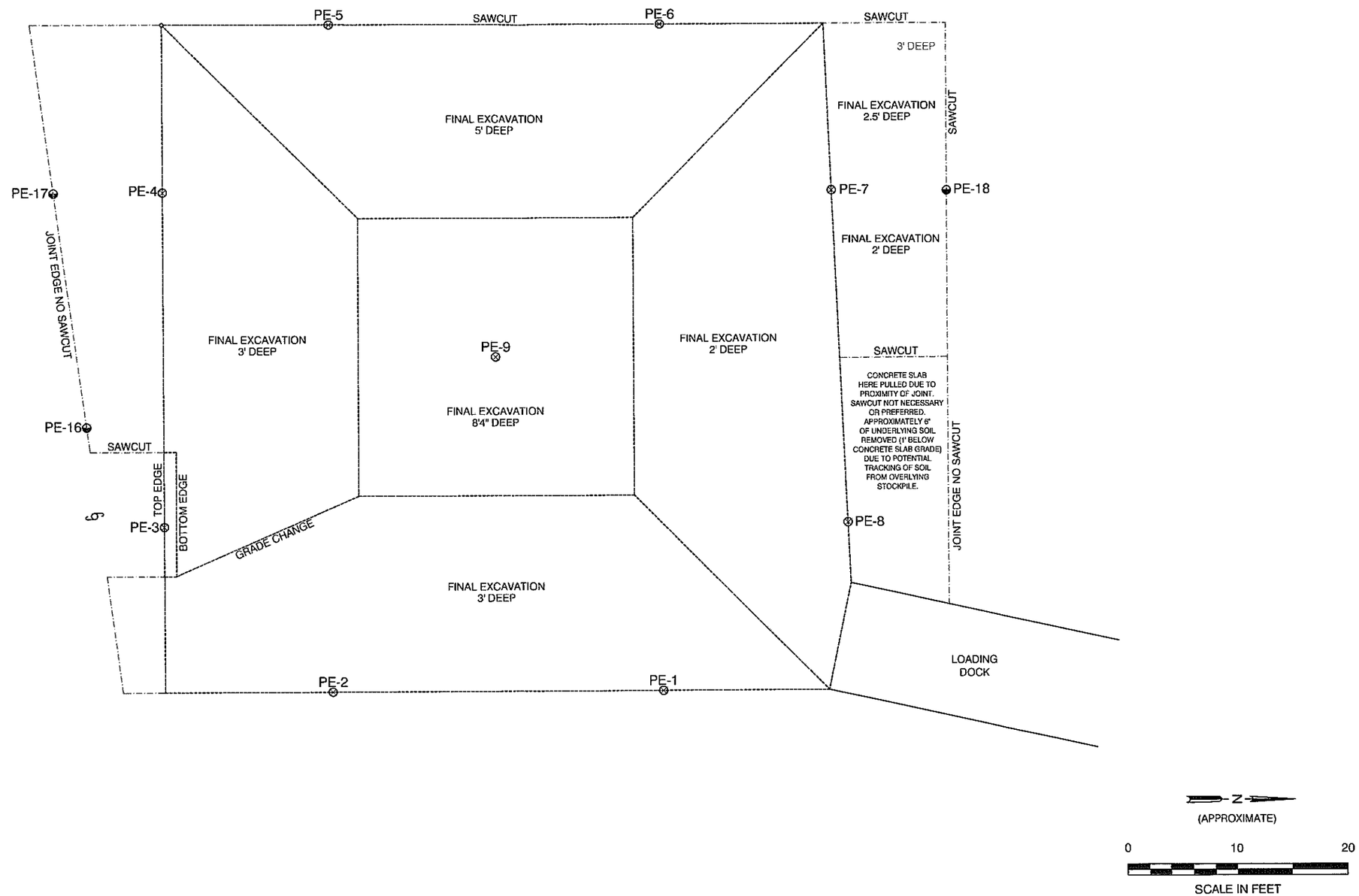
U - The compound was not detected at the indicated concentration.

TABLE 2
Post Excavation Soil Sampling Results
October 5, 2005
Porposed Warehouse Area
Amtrak Wilmington Shops
Wilmington Delaware

Sample ID	PE-16		PE-17		PE-18		PE-19	
Units	mg/kg		mg/kg		mg/kg		mg/kg	
PCB Aroclor								
Aroclor-1016	1.6	U	4.3	U	0.08	U	2.1	U
Aroclor-1221	1.6	U	4.3	U	0.08	U	2.1	U
Aroclor-1232	1.6	U	4.3	U	0.08	U	2.1	U
Aroclor-1242	1.6	U	4.3	U	0.08	U	2.1	U
Aroclor-1248	1.6	U	4.3	U	0.08	U	2.1	U
Aroclor-1254	1.6	U	4.3	U	0.08	U	2.1	U
Aroclor-1260	18		40		0.43		29	
Aroclor-1262	1.6	U	4.3	U	0.08	U	2.1	U
Aroclor-1268	1.6	U	4.3	U	0.08	U	2.1	U

U - The compound was not detected at the indicated concentration.


BUILDING #30
1-STORY
METAL BUILDING
EXISTING FOOTPRINT OF PROPOSED BUILDING
R-118
0-6 4.1
6-12 0.095
R-112
0-6 0.38
6-12 0.51
12-24 0.68
24-36 1.3
R-111
0-6 25
6-12 1.6
12-24 0.14
24-36 ND
R-110
0-6 22
6-12 11
12-24 6.9
24-36 0.05
R-109
0-6 0.18
6-12 0.052
12-24 21
24-36 2.07
SB-101
0-6 ND
6-12 1.6
12-24 ND
24-36 ND
SB-102
0-6 ND
6-12 17.5
12-24 1.05
24-36 ND
CONCRETE PAD
BUILDING #39
1-STORY
OPEN METAL BUILDING
BUILDING #33
1-STORY
OPEN METAL BUILDING
R-105C
0-12 34
12-24 450
24-36 96
36-48 0.19
R-105B
0-12 900
12-24 650
24-36 1.6
36-48 0.043
R-105A
0-12 730
12-24 2.9
24-36 0.27
36-48 0.064
R-105
0-6 290
6-12 6,700
12-24 3,200
24-36 4,000
R-105D
0-12 51
12-24 31
24-36 0.082
36-48 0.000
R-114
0-6 4
6-12 0.053
CONCRETE
SB-103
0-6 0.58
6-12 5.2
12-24 1.02
24-36 ND
CONCRETE
LOADING DOCK
SB-104
0-6 3.6
6-12 126
12-24 58
24-36 0.091
R-117
0-6 0.17
6-12 0.1
R-108
0-6 0.11
6-12 0.55
12-24 11
24-36 0.4
R-107
0-6 0.59
6-12 0.13
12-24 7.6
24-36 0.073
R-106
0-6 5.8
6-12 0.27
12-24 ND
24-36 0.62
R-102
0-6 0.38
6-12 0.15
12-24 0.83
24-36 0.13
R-101
0-6 0.62
6-12 0.059
12-24 0.12
24-36 ND
R-113
0-6 3
6-12 0.19
APPROXIMATE EXTENT
OF NEW FOOTPRINT
(3/16/05)
R-116
0-6 6.9
6-12 ND
R-104
0-6 0.12
6-12 0.26
12-24 3.3
24-36 0.16
R-115
0-6 0.12
6-12 ND
12-24 ND
24-36 ND
36-48 ND
48-60 ND
R-103
0-6 ND
6-12 0.19
12-24 0.07
24-36 ND
36-48 ND
48-60 ND
N
(APPROXIMATE)
0 30 60
SCALE IN FEET
LEGEND
SOIL BORING (COLLECTED BY SECOR)
SOIL BORING (COLLECTED BY ROUX)
DELINEATION SOIL BORING
ND NOT DETECTED
mg/kg MILLIGRAMS PER KILOGRAM
2 FOOT EXCAVATION
3 FOOT EXCAVATION
4 FOOT EXCAVATION
R-116 0-6 6.9 6-12 ND
SAMPLE IDENTIFICATION
TOTAL PCBs (mg/kg)
SAMPLE DEPTH (INCHES)
SECOR
100 PICKERING WAY, SUITE 200
EXTON, PENNSYLVANIA
PHONE: (484) 875-3075/875-2816 (FAX)
FOR:
AMTRAK WILMINGTON SHOPS
WILMINGTON, DELAWARE
PROPOSED EXCAVATION AREAS AND
SOIL PCB ANALYTICAL RESULTS
PROPOSED WAREHOUSE BUILDING AREA
FIGURE: 1
JOB NUMBER: 62OT.01100.05/4000
DRAWN BY: KSF
CHECKED BY:
APPROVED BY:
DATE: 11/22/2005
62OT-1100-29-P56-D.DWG



N
(APPROXIMATE)

0 10 20
SCALE IN FEET

LEGEND

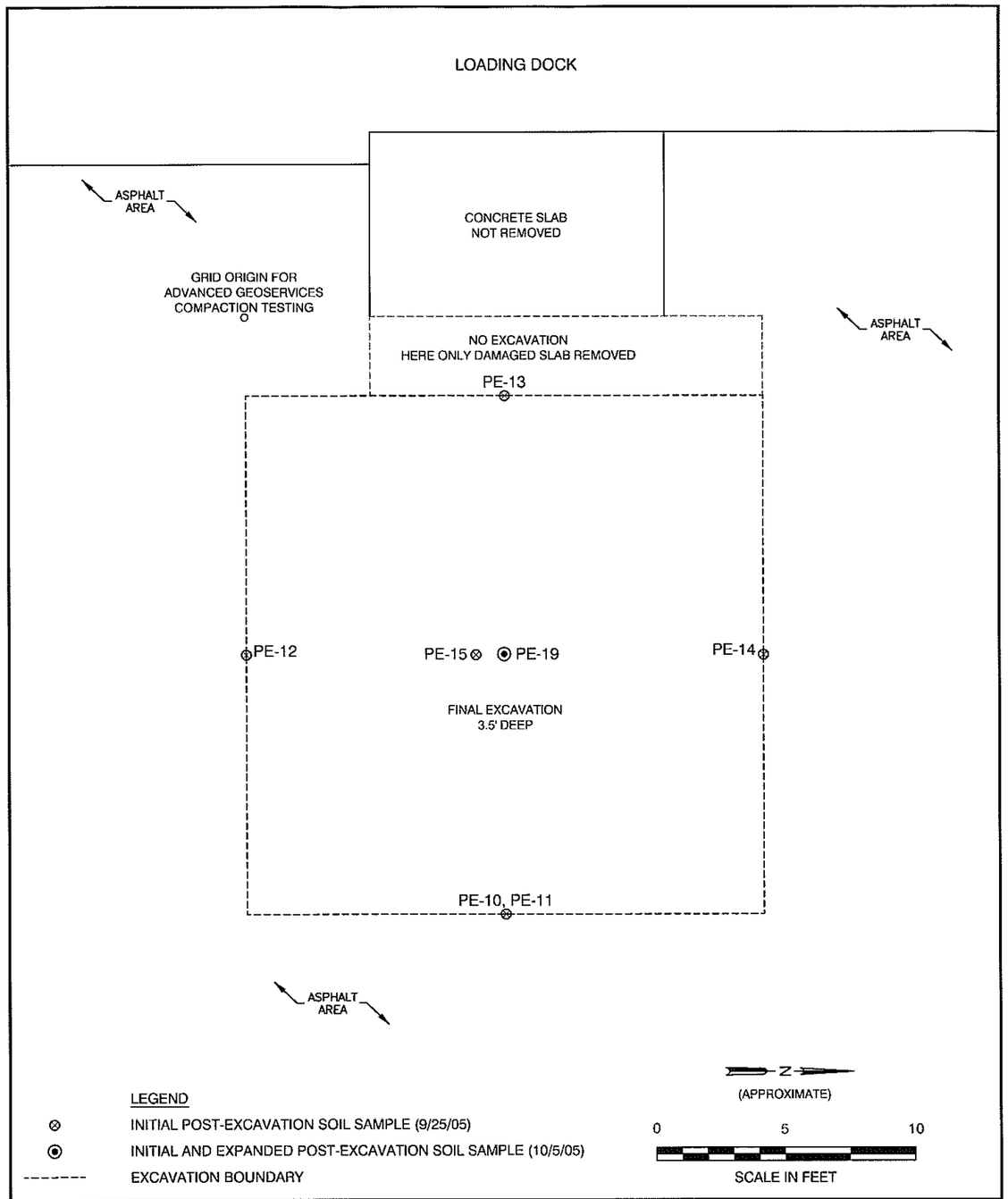
- ⊗ INITIAL POST-EXCAVATION SOIL SAMPLE (9/25/05)
- ◒ EXPANDED POST-EXCAVATION SOIL SAMPLE (10/5/05)
- INITIAL EXCAVATION BOUNDARY
- SUPPLEMENTAL EXCAVATION BOUNDARY
- UTILITY POLE

SECOR
102 PICKERING WAY, SUITE 200
EXTON, PENNSYLVANIA
PHONE: (484) 875-3075/875-9286 (FAX)

FOR:		SOIL BORING R-105 AREA EXCAVATION MAP AND POST-EXCAVATION SAMPLE LOCATIONS		FIGURE:
AMTRAK WILMINGTON SHOPS WILMINGTON, DELAWARE				2
JOB NUMBER: 62OT.01100.05/4000	DRAWN BY: KEF	CHECKED BY: SB	APPROVED BY:	DATE: 12/15/2005

FILEPATH: 62OT-0100

62OT-1100-SB-105.DWG



LEGEND

⊗ INITIAL POST-EXCAVATION SOIL SAMPLE (9/25/05)

⊙ INITIAL AND EXPANDED POST-EXCAVATION SOIL SAMPLE (10/5/05)

------- EXCAVATION BOUNDARY

SECOR
102 PICKERING WAY, SUITE 200
EXTON, PENNSYLVANIA
PHONE: (484) 875-3075/875-9286 (FAX)

FOR:
AMTRAK WILMINGTON SHOPS
WILMINGTON, DELAWARE

SOIL BORING SB-104 AREA
EXCAVATION MAP AND
POST-EXCAVATION SAMPLE LOCATIONS

FIGURE: 3

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
62OT.01100.05/4000	KEF	SB		12/15/2005

FILEPATH: 62OT-0100

62OT-1100-SB-104.DWG

APPENDIX A

LABORATORY DATA SHEETS

SEVERN TRENT STL

STL Edison
777 New Durham Road
Edison, NJ 08817

Tel: 732 549 3900 Fax: 732 549 3679
www.stl-inc.com

10/24/2005

Secor International, Inc.
102 Pickering Way
Suite 200
Exton, PA 19341

Attention: Mr. Steve Baggett

Laboratory Results
Job No. G158 - Amtrack Proposed

Dear Mr. Baggett:

Enclosed are the results you requested for the following sample(s) received at our laboratory on September 26, 2005.

Lab No.	Client ID	Analysis Required
672613	PE-1	PCBs
672614	PE-2	PCBs
672615	PE-3	PCBs
672616	PE-4	PCBs
672617	PE-5	PCBs
672618	PE-6	PCBs
672619	PE-7	PCBs
672620	PE-8	PCBs
672621	PE-9	PCBs
672622	PE-10	PCBs
672623	PE-11	PCBs
672624	PE-12	PCBs
672625	PE-13	PCBs
672626	PE-14	PCBs
672627	PE-15	PCBs

SEVERN TRENT STL

STL Edison
777 New Durham Road
Edison, NJ 08817

Tel: 732 549 3900 Fax: 732 549 3679
www.stl-inc.com

Laboratory Results
Job No. G158 - Amtrack Proposed (cont'd)

Lab No.	Client ID	Analysis Required
672628	FB-1	PCBs

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Maria Bliem, at (732) 549-3900.

Very Truly Yours,

Michael J. Urban

Michael J. Urban
Laboratory Manager

Analytical Results Summary

Client ID: **PE-1**
Site: Amtrack Proposed

Lab Sample ID: **672613**
Lab Job No: G158

Date Sampled: 09/25/05
Date Received: 09/26/05
Date Extracted: 09/26/05
Date Analyzed: 09/27/05
GC Front Column: StxCLP2
GC Rear Column: StxCLP1
Instrument ID: PESTGC9.i
Front File ID: vf400292.d
Rear File ID: vr400292.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 20.0
% Moisture: 5

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	1400	R
Aroclor-1221	ND	1400	R
Aroclor-1232	ND	1400	R
Aroclor-1242	ND	1400	R
Aroclor-1248	ND	1400	R
Aroclor-1254	ND	1400	R
Aroclor-1260	16000	1400	R
Aroclor-1262	ND	1400	R
Aroclor-1268	ND	1400	R

Client ID: **PE-2**
Site: Amtrack Proposed

Lab Sample ID: **672614**
Lab Job No: G158

Date Sampled: 09/25/05
Date Received: 09/26/05
Date Extracted: 09/26/05
Date Analyzed: 09/27/05
GC Front Column: StxCLP2
GC Rear Column: StxCLP1
Instrument ID: PESTGC9.i
Front File ID: vf400293.d
Rear File ID: vr400293.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 20.0
% Moisture: 4

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	1400	R
Aroclor-1221	ND	1400	R
Aroclor-1232	ND	1400	R
Aroclor-1242	ND	1400	R
Aroclor-1248	ND	1400	R
Aroclor-1254	ND	1400	R
Aroclor-1260	15000	1400	R
Aroclor-1262	ND	1400	R
Aroclor-1268	ND	1400	R

Client ID: **PE-3**
Site: Amtrack Proposed

Lab Sample ID: **672615**
Lab Job No: G158

Date Sampled: 09/25/05
Date Received: 09/26/05
Date Extracted: 09/26/05
Date Analyzed: 09/27/05
GC Front Column: StxCLP2
GC Rear Column: StxCLP1
Instrument ID: PESTGC9.i
Front File ID: vf400294.d
Rear File ID: vr400294.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 500.0
% Moisture: 8

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	36000	R
Aroclor-1221	ND	36000	R
Aroclor-1232	ND	36000	R
Aroclor-1242	ND	36000	R
Aroclor-1248	ND	36000	R
Aroclor-1254	ND	36000	R
Aroclor-1260	610000	36000	F
Aroclor-1262	ND	36000	R
Aroclor-1268	ND	36000	R

Client ID: **PE-4**
Site: Amtrack Proposed

Lab Sample ID: **672616**
Lab Job No: G158

Date Sampled: 09/25/05
Date Received: 09/26/05
Date Extracted: 09/26/05
Date Analyzed: 09/27/05
GC Front Column: StxCLP2
GC Rear Column: StxCLP1
Instrument ID: PESTGC9.i
Front File ID: vf400295.d
Rear File ID: vr400295.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 5000.0
% Moisture: 22

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	430000	R
Aroclor-1221	ND	430000	R
Aroclor-1232	ND	430000	R
Aroclor-1242	ND	430000	R
Aroclor-1248	ND	430000	R
Aroclor-1254	ND	430000	R
Aroclor-1260	7700000	430000	F
Aroclor-1262	ND	430000	R
Aroclor-1268	ND	430000	R

Client ID: **PE-5**
Site: Amtrack Proposed

Lab Sample ID: **672617**
Lab Job No: G158

Date Sampled: 09/25/05
Date Received: 09/26/05
Date Extracted: 09/26/05
Date Analyzed: 09/28/05
GC Front Column: StxCLP2
GC Rear Column: StxCLP1
Instrument ID: PESTGC9.i
Front File ID: vf400329.d
Rear File ID: vr400329.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 250.0
% Moisture: 20

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	21000	R
Aroclor-1221	ND	21000	R
Aroclor-1232	ND	21000	R
Aroclor-1242	ND	21000	R
Aroclor-1248	ND	21000	R
Aroclor-1254	ND	21000	R
Aroclor-1260	220000	21000	R
Aroclor-1262	ND	21000	R
Aroclor-1268	ND	21000	R

Client ID: **PE-6**
Site: Amtrack Proposed

Lab Sample ID: **672618**
Lab Job No: G158

Date Sampled: 09/25/05
Date Received: 09/26/05
Date Extracted: 09/26/05
Date Analyzed: 09/27/05
GC Front Column: StxCLP2
GC Rear Column: StxCLP1
Instrument ID: PESTGC9.i
Front File ID: vf400297.d
Rear File ID: vr400297.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 5.0
% Moisture: 19

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	410	R
Aroclor-1221	ND	410	R
Aroclor-1232	ND	410	R
Aroclor-1242	ND	410	R
Aroclor-1248	ND	410	R
Aroclor-1254	ND	410	R
Aroclor-1260	5700	410	F
Aroclor-1262	ND	410	R
Aroclor-1268	ND	410	R

Client ID: **PE-7**
Site: Amtrack Proposed

Lab Sample ID: **672619**
Lab Job No: G158

Date Sampled: 09/25/05
Date Received: 09/26/05
Date Extracted: 09/26/05
Date Analyzed: 09/27/05
GC Front Column: StxCLP2
GC Rear Column: StxCLP1
Instrument ID: PESTGC9.i
Front File ID: vf400298.d
Rear File ID: vr400298.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 2000.0
% Moisture: 11

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	150000	R
Aroclor-1221	ND	150000	R
Aroclor-1232	ND	150000	R
Aroclor-1242	ND	150000	R
Aroclor-1248	ND	150000	R
Aroclor-1254	ND	150000	R
Aroclor-1260	2400000	150000	F
Aroclor-1262	ND	150000	R
Aroclor-1268	ND	150000	R

Client ID: **PE-8**
Site: Amtrack Proposed

Lab Sample ID: **672620**
Lab Job No: G158

Date Sampled: 09/25/05
Date Received: 09/26/05
Date Extracted: 09/26/05
Date Analyzed: 09/27/05
GC Front Column: StxCLP2
GC Rear Column: StxCLP1
Instrument ID: PESTGC9.i
Front File ID: vf400299.d
Rear File ID: vr400299.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 200.0
% Moisture: 7

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	14000	R
Aroclor-1221	ND	14000	R
Aroclor-1232	ND	14000	R
Aroclor-1242	ND	14000	R
Aroclor-1248	ND	14000	R
Aroclor-1254	ND	14000	R
Aroclor-1260	180000	14000	F
Aroclor-1262	ND	14000	R
Aroclor-1268	ND	14000	R

Client ID: **PE-9**
Site: Amtrack Proposed

Lab Sample ID: **672621**
Lab Job No: G158

Date Sampled: 09/25/05
Date Received: 09/26/05
Date Extracted: 09/26/05
Date Analyzed: 09/28/05
GC Front Column: StxCLP2
GC Rear Column: StxCLP1
Instrument ID: PESTGC9.i
Front File ID: vf400332.d
Rear File ID: vr400332.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1000.0
% Moisture: 6

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	71000	R
Aroclor-1221	ND	71000	R
Aroclor-1232	ND	71000	R
Aroclor-1242	ND	71000	R
Aroclor-1248	ND	71000	R
Aroclor-1254	ND	71000	R
Aroclor-1260	1000000	71000	F
Aroclor-1262	ND	71000	R
Aroclor-1268	ND	71000	R

Client ID: **PE-10**
Site: Amtrack Proposed

Lab Sample ID: **672622**
Lab Job No: G158

Date Sampled: 09/25/05
Date Received: 09/26/05
Date Extracted: 09/26/05
Date Analyzed: 09/28/05
GC Front Column: StxCLP2
GC Rear Column: StxCLP1
Instrument ID: PESTGC9.i
Front File ID: vf400330.d
Rear File ID: vr400330.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 5.0
% Moisture: 9

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	370	R
Aroclor-1221	ND	370	R
Aroclor-1232	ND	370	R
Aroclor-1242	ND	370	R
Aroclor-1248	ND	370	R
Aroclor-1254	ND	370	R
Aroclor-1260	3400	370	R
Aroclor-1262	ND	370	R
Aroclor-1268	ND	370	R

Client ID: **PE-11**
Site: Amtrack Proposed

Lab Sample ID: **672623**
Lab Job No: G158

Date Sampled: 09/25/05
Date Received: 09/26/05
Date Extracted: 09/26/05
Date Analyzed: 09/28/05
GC Front Column: StxCLP2
GC Rear Column: StxCLP1
Instrument ID: PESTGC9.i
Front File ID: vf400327.d
Rear File ID: vr400327.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 9

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	74	R
Aroclor-1221	ND	74	R
Aroclor-1232	ND	74	R
Aroclor-1242	ND	74	R
Aroclor-1248	ND	74	R
Aroclor-1254	ND	74	R
Aroclor-1260	280	74	R
Aroclor-1262	ND	74	R
Aroclor-1268	ND	74	R

Client ID: **PE-12**
Site: Amtrack Proposed

Lab Sample ID: **672624**
Lab Job No: G158

Date Sampled: 09/25/05
Date Received: 09/26/05
Date Extracted: 09/26/05
Date Analyzed: 09/28/05
GC Front Column: StxCLP2
GC Rear Column: StxCLP1
Instrument ID: PESTGC9.i
Front File ID: vf400331.d
Rear File ID: vr400331.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 25.0
% Moisture: 12

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	1900	R
Aroclor-1221	ND	1900	R
Aroclor-1232	ND	1900	R
Aroclor-1242	ND	1900	R
Aroclor-1248	ND	1900	R
Aroclor-1254	ND	1900	R
Aroclor-1260	23000	1900	R
Aroclor-1262	ND	1900	R
Aroclor-1268	ND	1900	R

Client ID: **PE-13**
Site: Amtrack Proposed

Lab Sample ID: **672625**
Lab Job No: G158

Date Sampled: 09/25/05
Date Received: 09/26/05
Date Extracted: 09/26/05
Date Analyzed: 09/27/05
GC Front Column: StxCLP2
GC Rear Column: StxCLP1
Instrument ID: PESTGC9.i
Front File ID: vf400306.d
Rear File ID: vr400306.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 200.0
% Moisture: 8

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	14000	R
Aroclor-1221	ND	14000	R
Aroclor-1232	ND	14000	R
Aroclor-1242	ND	14000	R
Aroclor-1248	ND	14000	R
Aroclor-1254	ND	14000	R
Aroclor-1260	160000	14000	R
Aroclor-1262	ND	14000	R
Aroclor-1268	ND	14000	R

Client ID: **PE-14**
Site: Amtrack Proposed

Lab Sample ID: **672626**
Lab Job No: G158

Date Sampled: 09/25/05
Date Received: 09/26/05
Date Extracted: 09/26/05
Date Analyzed: 09/28/05
GC Front Column: StxCLP2
GC Rear Column: StxCLP1
Instrument ID: PESTGC9.i
Front File ID: vf400328.d
Rear File ID: vr400328.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 18

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	81	R
Aroclor-1221	ND	81	R
Aroclor-1232	ND	81	R
Aroclor-1242	ND	81	R
Aroclor-1248	ND	81	R
Aroclor-1254	ND	81	R
Aroclor-1260	120	81	R
Aroclor-1262	ND	81	R
Aroclor-1268	ND	81	R

Client ID: **PE-15**
Site: Amtrack Proposed

Lab Sample ID: **672627**
Lab Job No: G158

Date Sampled: 09/25/05
Date Received: 09/26/05
Date Extracted: 09/26/05
Date Analyzed: 09/27/05
GC Front Column: StxCLP2
GC Rear Column: StxCLP1
Instrument ID: PESTGC9.i
Front File ID: vf400308.d
Rear File ID: vr400308.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 500.0
% Moisture: 10

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	37000	R
Aroclor-1221	ND	37000	R
Aroclor-1232	ND	37000	R
Aroclor-1242	ND	37000	R
Aroclor-1248	ND	37000	R
Aroclor-1254	ND	37000	R
Aroclor-1260	540000	37000	F
Aroclor-1262	ND	37000	R
Aroclor-1268	ND	37000	R

Client ID: **FB-1**
Site: Amtrack Proposed

Lab Sample ID: **672628**
Lab Job No: G158

Date Sampled: 09/25/05
Date Received: 09/26/05
Date Extracted: 09/27/05
Date Analyzed: 09/27/05
GC Front Column: StxCLP2
GC Rear Column: StxCLP1
Instrument ID: PESTGC9.i

Matrix: WATER
Sample Volume: 900 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: vf400321.d
Rear File ID: vr400321.d

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/l	Quantitation Limit Units: ug/l	Column
Aroclor-1016	ND	0.56	R
Aroclor-1221	ND	0.56	R
Aroclor-1232	ND	0.56	R
Aroclor-1242	ND	0.56	R
Aroclor-1248	ND	0.56	R
Aroclor-1254	ND	0.56	R
Aroclor-1260	ND	0.56	R
Aroclor-1262	ND	0.56	R
Aroclor-1268	ND	0.56	R

G158

STL Edison

19

STL EDISON
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE 1 OF 2

Name (for report and invoice): STEVE PARKHURST
Company: SECOR UNITED NATIONAL
Address: 102 LICKETON WAY, # 200
City: EXTON State: PA
Phone: (484) 875-3075 Fax: (484) 875-9286

Samplers Name (Printed): JAMES MILLER
P.O. #: 02610.01100.0520000

Site/Project Identification: AMTRAK PROPOSED WAREHOUSE BUILDING AREA
State (Location of site): NJ: ☐ NY: ☐ Other: DE
Regulatory Program: DE-SOP

Analysis Turnaround Time
Standard ☐
Rush Charges Authorized For:
2 Week ☐
1 Week ☐
Other ☒ 2-DAY

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: 6N8

Sample Identification	Date	Time	Matrix	No. of Cont.			Sample Numbers
PE-1	9-25-05	1225	S	1	X		672613
PE-2	9-25-05	1235	S	1	X		614
PE-3	9-25-05	1245	S	1	X		615
PE-4	9-25-05	1250	S	1	X		616
PE-5	9-25-05	1405	S	1	X		617
PE-6	9-25-05	1416	S	1	X		618
PE-7	9-25-05	1420	S	1	X		619
PE-8	9-25-05	1430	S	1	X		620
PE-9	9-25-05	1455	S	2	X	INCLUDES MS/MSD	621
PE-10	9-25-05	1600	S	1	X		622

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____
Soil: X
Water:

Special Instructions: E-MAIL RESULTS WEDNESDAY EVENING (9-28) TO STRANKHURST@SECOR.COM

Water Metals Filtered (Yes/No)? NO

Relinquished by	Company	Date / Time	Received by	Company
1) [signature]	SECOR	9-26-05 11:35	1) [signature]	STL
2) [signature]	STL	9/26/05 1700	2) [signature]	STL
3) [signature]	STL	9/26/05 1830	3) [signature]	STL-Edison 4°C
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

STL-6003

G158

STL Edison

20

STL EDISON
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): STEVE BARGETT	Samplers Name (Printed): JAMES MILLER	Site/Project Identification: AMTRAK PROPOSED WAREHOUSE BUILDING AREA
Company: SECOR INTERNATIONAL	P.O. # 62560.01100.05.2000	State (Location of site): NJ: ☐ NY: ☐ Other: DE
Address: 102 PICKERING WAY #200	Analysis Turnaround Time: Standard ☐	Regulatory Program: DE-SOP
City: EXTON State: PA	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐	
Phone: (484) 875-4075 Fax: (484) 875-9286	Other ☒ 2-DAY	

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No:

Sample Identification	Date	Time	Matrix	No. of. Cont.	PCB 8082	Sample Numbers
PE-11	9/25/05	1005	G	1	X	622-623
PE-12	9/25/05	1015	G	1	X	624
PE-13	9/25/05	1025	G	1	X	625
PE-14	9/25/05	1030	G	1	X	626
PE-15	9/25/05	1055	G	1	X	627
FB-1	9/25/05	1505	W	1	X	628

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH, 6 = Other _____, 7 = Other _____

Soil: ☒ Water: ☒

Special Instructions: E-MAIL RESULTS WEDNESDAY EVENING (9-28) TO SBARGETT@SECOR.COM

Water Metals Filtered (Yes/No)? NO

Relinquished by	Company	Date / Time	Received by	Company
1) [signature]	SECOR	9/26/05 11:35	1) [signature]	STL
2) [signature]	STL	9/26/05 17:00	2) [signature]	STL
3) [signature]	STL	9/26/05 18:8	3) [signature]	STL-Edison 4°C
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

STL-6003

SEVERN TRENT STL

STL Edison
777 New Durham Road
Edison, NJ 08817

Tel: 732 549 3900 Fax: 732 549 3679
www.stl-inc.com

11/03/2005

Secor International, Inc.
102 Pickering Way
Suite 200
Exton, PA 19341

Attention: Mr. Steve Baggett

Laboratory Results
Job No. G690 - Amtrak Proposed

Dear Mr. Baggett:

Enclosed are the results you requested for the following sample(s) received at our laboratory on October 5, 2005.

Lab No.	Client ID	Analysis Required
675167	PE-16	PCBs
675168	PE-17	PCBs
675169	PE-18	PCBs
675170	PE-19	PCBs
675171	FB-2	PCBs

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Maria Bliem, at (732) 549-3900.

Very Truly Yours,

Michael J. Urban

Michael J. Urban
Laboratory Manager

Analytical Results Summary

Client ID: **PE-16**
Site: Amtrak Proposed

Lab Sample ID: **675167**
Lab Job No: G690

Date Sampled: 10/05/05
Date Received: 10/05/05
Date Extracted: 10/05/05
Date Analyzed: 10/06/05
GC Front Column: StxCLP2
GC Rear Column: StxCLP1
Instrument ID: PESTGC9.i
Front File ID: vf400388.d
Rear File ID: vr400388.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 20.0
% Moisture: 14

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	1600	R
Aroclor-1221	ND	1600	R
Aroclor-1232	ND	1600	R
Aroclor-1242	ND	1600	R
Aroclor-1248	ND	1600	R
Aroclor-1254	ND	1600	R
Aroclor-1260	18000	1600	F
Aroclor-1262	ND	1600	R
Aroclor-1268	ND	1600	R

Client ID: **PE-17**
Site: Amtrak Proposed

Lab Sample ID: **675168**
Lab Job No: G690

Date Sampled: 10/05/05
Date Received: 10/05/05
Date Extracted: 10/05/05
Date Analyzed: 10/06/05
GC Front Column: StxCLP2
GC Rear Column: StxCLP1
Instrument ID: PESTGC9.i
Front File ID: vf400389.d
Rear File ID: vr400389.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 50.0
% Moisture: 22

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	4300	R
Aroclor-1221	ND	4300	R
Aroclor-1232	ND	4300	R
Aroclor-1242	ND	4300	R
Aroclor-1248	ND	4300	R
Aroclor-1254	ND	4300	R
Aroclor-1260	40000	4300	F
Aroclor-1262	ND	4300	R
Aroclor-1268	ND	4300	R

Client ID: **PE-18**
Site: Amtrak Proposed

Lab Sample ID: **675169**
Lab Job No: G690

Date Sampled: 10/05/05
Date Received: 10/05/05
Date Extracted: 10/05/05
Date Analyzed: 10/06/05
GC Front Column: StxCLP2
GC Rear Column: StxCLP1
Instrument ID: PESTGC9.i
Front File ID: vf400390.d
Rear File ID: vr400390.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 17

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	80	R
Aroclor-1221	ND	80	R
Aroclor-1232	ND	80	R
Aroclor-1242	ND	80	R
Aroclor-1248	ND	80	R
Aroclor-1254	ND	80	R
Aroclor-1260	430	80	R
Aroclor-1262	ND	80	R
Aroclor-1268	ND	80	R

Client ID: **PE-19**
Site: Amtrak Proposed

Lab Sample ID: **675170**
Lab Job No: G690

Date Sampled: 10/05/05
Date Received: 10/05/05
Date Extracted: 10/05/05
Date Analyzed: 10/06/05
GC Front Column: StxCLP2
GC Rear Column: StxCLP1
Instrument ID: PESTGC9.i
Front File ID: vf400395.d
Rear File ID: vr400395.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 25.0
% Moisture: 21

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	2100	R
Aroclor-1221	ND	2100	R
Aroclor-1232	ND	2100	R
Aroclor-1242	ND	2100	R
Aroclor-1248	ND	2100	R
Aroclor-1254	ND	2100	R
Aroclor-1260	29000	2100	R
Aroclor-1262	ND	2100	R
Aroclor-1268	ND	2100	R

Client ID: **FB-2**
Site: Amtrak Proposed

Lab Sample ID: **675171**
Lab Job No: G690

Date Sampled: 10/05/05
Date Received: 10/05/05
Date Extracted: 10/05/05
Date Analyzed: 10/06/05
GC Front Column: StxCLP2
GC Rear Column: StxCLP1
Instrument ID: PESTGC9.i

Matrix: WATER
Sample Volume: 910 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Front File ID: vf400394.d
Rear File ID: vr400394.d

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/l	Quantitation Limit Units: ug/l	Column
Aroclor-1016	ND	0.55	R
Aroclor-1221	ND	0.55	R
Aroclor-1232	ND	0.55	R
Aroclor-1242	ND	0.55	R
Aroclor-1248	ND	0.55	R
Aroclor-1254	ND	0.55	R
Aroclor-1260	ND	0.55	R
Aroclor-1262	ND	0.55	R
Aroclor-1268	ND	0.55	R

STL EDISON
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): STEVE BARGETT	Samplers Name (Printed): NAMES MILLER	Site/Project Identification: AMTRAK PROPOSED WAREHOUSE BUILDING AREA
Company: GEC OD INTERNATIONAL	P.O. #: 6256.01100.05.3000	State (Location of site): NJ: ☐ NY: ☐ Other: DE
Address: 102 PICKERING WAY, #200	Analysis Turnaround Time: Standard ☐	Regulatory Program: DE-SOP
City: EXTON State: PA	Rush Charges Authorized For: 2 Week ☐	LAB USE ONLY Project No:
Phone: (484) 875-3075 Fax: (484) 875-3286	1 Week ☐ Other ☒ 2-DAY	Job No: G1690

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST): JP 8 ARCHLORS 8082

Sample Identification	Date	Time	Matrix	No. of Cont.	JP 8 ARCHLORS 8082	Sample Numbers
PE-16	10-5-05	1155	S	1	X	675167
PE-17	10-5-05	1330	S	1	X	675168
PE-18	10-5-05	1340	S	1	X	675169
PE-19	10-5-05	1345	S	1	X	675170
FB-24	10-4-05	1135	W	1	X	675171

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH, 6 = Other _____, 7 = Other _____

Soil: X
Water: X

Special Instructions: E-MAIL RESULTS FRIDAY EVENING (10-7) TO SBARGETT@GECOD.COM

Water Metals Filtered (Yes/No)? NO 2°C

Relinquished by	Company	Date / Time	Received by	Company
1) [illegible]	GECOD	10/5/05 17:00	1) Harry O'Mara	STL
2) Harry O'Mara	STL	10/5/05 18:25	2) [illegible]	STL-Edison 2°C
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

STL-6003

G690 STL Edison 8

APPENDIX B

TSCA DISPOSAL MANIFESTS

Required under Authority of Part 111 and Part 121 of Act 451, 1994, as amended

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL

DEQ WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Form Approved. OMB No. 2050-0039

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. DED060058062 | Manifest Document No. 88560 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Amtrak
4001 Vandever Avenue
Wilmington, DE 19802
attn: Joseph R. Moyer

A. State Manifest Document Number MI 9980560

B. State Generator's ID ~~UPN 0714097-OH~~ SAME CG

4. Generator's Phone (610) 436-7540

5. Transporter 1 Company Name J&D Trucking | 6. US EPA ID Number MID000029967 | C. State Transporter's ID UPN 0714097-OH | D. Transporter's Phone 856-691-5145

7. Transporter 2 Company Name | 8. US EPA ID Number | E. State Transporter's ID | F. Transporter's Phone

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC., SITE #2 LANDFILL
49350 NORTH I-94 SERVICE DRIVE
BELLEVILLE, MI 48111

10. US EPA ID Number MID048090633 | G. State Facility's ID | H. Facility's Phone 800-592-5489

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. ☒ HM	RQ, Polychlorinated Biphenyls, solid, mixture, 9, UN~~3432~~, PGII 2315	001	DT	EST ~~11,000~~ 30,000	G K	PCB1
b. ☐						
c. ☐						
d. ☐						

GENERATOR

J. Additional Descriptions for Materials Listed Above
APPROVAL# 092305PAB
storage start date: 9/28/05
unique container id#: 10

K. Handling Codes
a
b
c
d

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: FRANK CLAAR | Signature: Frank Claar | Date: Month 09 Day 28 Year 05

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: CLAUD GRAY | Signature: Claud Gray | Date: Month 09 Day 28 Year 05

18 Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Date: Month Day Year

EQP 5170
Rev. 7/9

ALL MUST BE MIC CENTER AT 1-800-424-8802 24 HOUR PER DAY. POLLUTION ... LEAKING ... TEM, P... GAN ... 292-4700 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL

DEQ WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Please print or type.

Form Approved OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: DED060058062
Manifest Document No.: 80561
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Amtrak
4001 Vandever Avenue
Wilmington, DE 19802
attn: Joseph R. Moyer

A. State Manifest Document Number: MI 9980561
B. State Generator's ID

4. Generator's Phone ( ) 610 436-7540

5. Transporter 1 Company Name: J&P Trucking
6. US EPA ID Number: MDR000029967
C. State Transporter's ID: WPWD714097-50
D. Transporter's Phone: 586-651-8995

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC., SITE #2 LANDFILL
49350 NORTH I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
10. US EPA ID Number: MID048090633
G. State Facility's ID
H. Facility's Phone: 800-592-5489

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ, Polychlorinated Biphenyls, solid, mixture, 9, UN3432, PGII 2315	☒	001	DT	Est 20,000 k	K	PCB 2
b.		☐					
c.		☐					
d.		☐					

J. Additional Descriptions for Materials Listed Above
APPROVAL# 092305PAB 9/28/05
storage start date:
unique container id#: 16

K. Handling Codes
a
b
c
d

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR
Printed/Typed Name: FRANK CLARK
Signature: Frank Clark
Date (Month Day Year): 09 28 05

TRANSPORTER
17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: Albert Giwinanu
Signature
Date (Month Day Year): 09 28 05

18 Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name
Signature
Date (Month Day Year):

FACILITY
19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Date (Month Day Year):

ALL COPIES MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 PER D

Required under authority of Part 111 and Part 121 of Act 451, 1994 as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. DED060058062
Manifest Document No. 80562
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Amtrak
4001 Vandever Avenue
Wilmington, DE 19802
attn: Joseph R. Moyer

A. State Manifest Document Number MI 9980562

B. State Generator's ID

4. Generator's Phone (610) 436-7540

5. Transporter 1 Company Name JED Trucking
6. US EPA ID Number MID980729967
C. State Transporter's ID UPW 074097 07
D. Transporter's Phone 866-669-5145

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC., SITE #2 LANDFILL
49350 NORTH I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
10. US EPA ID Number MID048090633
G. State Facility's ID
H. Facility's Phone 800-592-5489

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ, Polychlorinated Biphenyls, solid, mixture, 9, ~~UN3432~~, PGII UN 2315	☒	001	DT	20000	K	PCB1
b.		☐					
c.		☐					
d.		☐					

GENERATOR

J. Additional Descriptions for Materials Listed Above
APPROVAL# 092305PAB
storage start date: 9/30/05
unique container id#: #16

K. Handling Codes
a
b
c
d

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: FRANK CLAAR
Signature: Frank Claar
Date: Month 09 Day 30 Year 05

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: Albert Cirivani
Signature:
Date: Month 09 Day 30 Year 05

18 Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name:
Signature:
Date: Month Day Year

EQP 5110

EPA Form 8700-22 (Rev. 9/88)

ALL COPIES MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER, PER D. CE. 802 24 T 1-80.

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Please print or type.

Form Approved OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: DED060058062
Manifest Document No.: 305563
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Amtrak
4001 Vandever Avenue
Wilmington, DE 19802
attn: Joseph R. Moyer

A. State Manifest Document Number: MI 9980563

4. Generator's Phone ( ) 610 436-7540

B. State Generator's ID: SAME

5. Transporter 1 Company Name: J&D Trucking
6. US EPA ID Number: NJD000029947
C. State Transporter's ID: UPW 0714097-0
D. Transporter's Phone: 856 691-5195

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC., SITE #2 LANDFILL
49350 NORTH I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
10. US EPA ID Number: MID043090633
G. State Facility's ID
H. Facility's Phone: 800-592-5499

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ, Polychlorinated Biphenyls, solid, mixture, 9, ~~UN3432~~, PGII UN2315	☒	001	DT	20,000	K	PCB1
b.		☐					
c.		☐					
d.		☐					

J. Additional Descriptions for Materials Listed Above
APPROVAL# 092305PAB
storage start date: 9/30/05
unique container id#: 10

K. Handling Codes
a
b
c
d

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: FRANK CLAAR
Signature: Frank Claar
Date: Month 09 Day 30 Year 05

17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: CLAUD GRAY
Signature: Claud Gray
Date: Month 09 Day 30 Year 05

18. Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Date: Month Day Year

GENERATOR
TRANSPORTER
FACILITY

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CI 11-8C PER D 802 24

EPA Form 8700-22 (Rev. 9/88)
EOP 5110

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Failure to file may subject you to civil penalties under Sections 324.11151 or 324.12116 MCL

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. DED060058062
Manifest Document No. 8656
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Amtrak
4001 Vandever Avenue
Wilmington, DE 19802
attn: Joseph R. Moyer

A. State Manifest Document Number MI 9980564
B. State Generator's ID SAME

4. Generator's Phone (610) 436-7540

5. Transporter 1 Company Name CLEAN VENTURE INC
6. US EPA ID Number NJD000027193
C. State Transporter's ID 082745
D. Transporter's Phone 908-355-5800

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC., SITE #2 LANDFILL
49350 NORTH I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
10. US EPA ID Number MID048090633
G. State Facility's ID
H. Facility's Phone 800-592-5489

	HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	☒	RQ, Polychlorinated Biphenyls, solid, mixture, 9, ~~UN3432~~, PGII UN2315	001	DT	20000	K	PCB1
b.	☐						
c.	☐						
d.	☐						

J. Additional Descriptions for Materials Listed Above
APPROVAL# 092305PAB
storage start date: 9/3/05
unique container id#: DT-9

K. Handling Codes
a
b
c
d

15. Special Handling Instructions and Additional Information
TAG V9V50 NJ.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR
Printed/Typed Name: FRANK CLAAR
Signature: Frank Claar
Date: Month 10 Day 03 Year 05

TRANSPORTER
17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: Glenn Nemeth
Signature: Glenn Nemeth
Date: Month 10 Day 03 Year 05

18 Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY
19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name:
Signature:
Date: Month Day Year

ALL SHIPMENTS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802

EPA Form 8700-22 (Rev. 9/88)
EQP 5171 Rev. 7/0

Required by Part 121 of Act 451, 1994 as amended

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL

Form Approved OMB No. 2050-0039

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. DED060058062 | Manifest Document No. 80565 | 2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Amtrak
4001 Vandever Avenue
Wilmington, DE 19802
attn: Joseph R. Moyer

A. State Manifest Document Number MI 9980565

B. State Generator's ID

4. Generator's Phone ( ) 610 436-7540

5. Transporter 1 Company Name: Clean Venture, Inc.
6. US EPA ID Number: NJ0000027193
C. State Transporter's ID: 082698
D. Transporter's Phone: 908.355-0800

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC., SITE #2 LANDFILL
49350 NORTH I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
10. US EPA ID Number: MID048090633
G. State Facility's ID
H. Facility's Phone: 800-592-5489

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a.	RQ, Polychlorinated Biphenyls, solid, mixture, 9, ~~UN3432~~, PGII UN2315	☒	001	DT	20,000	K	PCB 1
b.		☐					
c.		☐					
d.		☐					

J. Additional Descriptions for Materials Listed Above
APPROVAL# 082305PAB
storage start date: 8/3/05
unique container id#: DT 502

K. Handling Codes
a
b
c
d

15. Special Handling Instructions and Additional Information
NJ T67 M9N

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR
Printed/Typed Name: FRANK CLAAR
Signature: Frank Claar
Date: Month 08 Day 03 Year 05

TRANSPORTER
17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: KENNETH LAWRENCE
Signature: Kenneth Lawrence
Date: Month 08 Day 03 Year 05

18 Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY
19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name
Signature
Date: Month Day Year

EQP 5111
Rev. 7/0

EPA Form 8700-22 (Rev. 9/88)

WASTE MANAGEMENT DIVISION

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Please print or type

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: DED060058062
Manifest Document No: 825166
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Amtrak
4001 Vandever Avenue
Wilmington, DE 19802
attn. Joseph R. Moyer

A. State Manifest Document Number: MI 998055

B. State Generator's ID: Same

4. Generator's Phone (910) 426-7540

5. Transporter 1 Company Name: CleanVenture Inc
6. US EPA ID Number: NJ0000027193
C. State Transporter's ID: 082745
D. Transporter's Phone: 908-355-5800

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC., SITE #2 LANDFILL
49350 NORTH I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
10. US EPA ID Number: MID048090633
G. State Facility's ID
H. Facility's Phone: 800-592-5489

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
HM a. ☒	RQ, Polychlorinated Biphenyls, solid, mixture, 9, ~~UN3432~~, PGII UN2315	001	DT	20,000	K	PCB1
b. ☐						
c. ☐						
d. ☐						

GENERATOR

J. Additional Descriptions for Materials Listed Above
APPROVAL# 092305PAB
storage start date: 10-5-05
unique container id#: DT9
PL# TBP63VNJ

K. Handling Codes
a
b
c
d

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: FRANK CLAAR
Signature: Frank Claar
Date: Month 10 Day 05 Year 05

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: Glenn Nemeth
Signature: Glenn Nemeth
Date: Month 10 Day 05 Year 05

18 Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Date: Month Day Year

EPA Form 8700-22 (Rev. 9/88)

EQP 511
Rev. 7/

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Form Approved. OMB No. 2050-0039

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. DED060058062 | Manifest Document No. 80587 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Amtrak
4001 Vandever Avenue
Wilmington, DE 19802
attn Joseph R Moyer

4. Generator's Phone ( ) 610 436-7540

A. State Manifest Document Number MI 9980567
B. State Generator's ID Same
C. State Transporter's ID 082745
D. Transporter's Phone 908-355 5800

5. Transporter 1 Company Name: Clean Ventures Inc
6. US EPA ID Number: NJD000027193
7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC. SITE #2 LANDFILL
49350 NORTH I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
10. US EPA ID Number: MID048090633
G. State Facility's ID
H. Facility's Phone 800-592-5489

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ, Polychlorinated Biphenyls, solid, mixture, 9, ~~UN3432~~, PGII UN2315	☒	001	DT	20,000	K	PCB1
b.		☐					
c.		☐					
d.		☐					

GENERATOR

J. Additional Descriptions for Materials Listed Above
APPROVAL# 092305PAB
storage start date: 10-5-05
unique container id#: D1502
TAG:(NJ) T67M9N

K. Handling Codes
a
b
c
d

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: FRANK CLAAR | Signature: Frank Claar | Date: Month 10 Day 5 Year 05

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: KENNETH LAWRENCE | Signature: Kenneth Lawrence | Date: Month 10 Day 5 Year 05

18. Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name | Signature | Date: Month Day Year

EPA Form 8700-22 (Rev. 9/88)

EOP 511
Rev. 7/0

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Form Approved. OMB No. 2050-0039

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. DED060058062 | Manifest Document No. 8[illegible]566 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Amtrak
4001 Vandever Avenue
Wilmington, DE 19802
attn: Joseph P. Moyer

A. State Manifest Document Number MI 9380522

B. State Generator's ID Same

4. Generator's Phone (610) 436-7540

5. Transporter 1 Company Name Clean Ventures Inc. | 6. US EPA ID Number NJ0000027193

C. State Transporter's ID 082745

D. Transporter's Phone 908-355-5800

7. Transporter 2 Company Name | 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC., SITE #2 LANDFILL
49350 NORTH I-94 SERVICE DRIVE
BELLEVILLE, MI 48111

10. US EPA ID Number MID048090633

G. State Facility's ID

H. Facility's Phone 800-592-5489

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. HM ☒	RQ, Polychlorinated Biphenyls, solid, mixture, 9, ~~UN2432~~, PGII UN 2315	001	DT	20,000	K	PCB1
b. ☐						
c. ☐						
d. ☐						

GENERATOR

J. Additional Descriptions for Materials Listed Above
APPROVAL# 092305PAB
storage start date: 10-5-05
unique container id#: 14

K. Handling Codes
a
b
c
d

15. Special Handling Instructions and Additional Information
(TAQ) T+39V9V (NJ)

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: FRANK CLAAR | Signature: Frank Claar | Date: Month 10 Day 05 Year 05

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: KEVIN J CROSS | Signature: [signature] | Date: Month 10 Day 05 Year 05

18. Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Date: Month Day Year

EQP 51[illegible] Rev. 7/[illegible]

EPA Form 8700-22 (Rev. 9/88)

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERT SYSTEM CENTER AT 1-800-424-8802 24 HOUR PER DAY. OR CONTACT STATE AT 517-373-7660 AND THE NATIONAL RESPONSE 1-800-

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Failure to file may subject you to criminal and or civil penalties under Sections 324.11151 or 324.12116 MCL

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: DED060058062
Manifest Document No.: 80570
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Amtrak
4001 Vandever Avenue
Wilmington, DE 19802
attn: Joseph R. Moyer

A. State Manifest Document Number: MI 9980570
B. State Generator's ID

4. Generator's Phone ( ) 610 436-7540

5. Transporter 1 Company Name: JWD Nuclear
6. US EPA ID Number: MND000299567
C. State Transporter's ID: MPWD7140970
D. Transporter's Phone: 856-691-5145

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC., SITE #2 LANDFILL
49350 NORTH I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
10. US EPA ID Number: MID048090633
G. State Facility's ID
H. Facility's Phone: 800-592-5489

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ, Polychlorinated Biphenyls, solid, mixture, 9, ~~UN3432~~, PGII UN 2315	☒	001	DT	20,000	K	PCB1
b.		☐					
c.		☐					
d.		☐					

J. Additional Descriptions for Materials Listed Above
APPROVAL# 092305PAB
storage start date: 10/04/05
unique container id#: 109

K. Handling Codes
a
b
c
d

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: FRANK CLAAR
Signature: Frank Claar
Date (Month Day Year): 10 04 05

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: Albert Gwinnett
Signature:
Date (Month Day Year): 10 04 05

18. Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name
Signature
Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Date (Month Day Year)

GENERATOR

IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802

EPA Form 8700-22 (Rev. 9/88)

EQP 5110

Part 121 of Act 451, 1994 as amended

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Failure to file this form may result in criminal and civil penalties under Sections 324.11151 or 324.12115 MCL

Form Approved OMB No. 2050-0039

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. DED060058062
Manifest Document No. 80571
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Amtrak
4001 Vandever Avenue
Wilmington, DE 19802
attn: Joseph R. Moyer

A. State Manifest Document Number MI 9980571
B. State Generator's ID SAME

4. Generator's Phone ( ) 610 436-7540

5. Transporter 1 Company Name J&D Trucking
6. US EPA ID Number NJD000029962
C. State Transporter's ID NPW0714097OH
D. Transporter's Phone 856 691 5145

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC., SITE #2 LANDFILL
49350 NORTH I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
10. US EPA ID Number MID048090633
G. State Facility's ID
H. Facility's Phone 800-592-5489

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ, Polychlorinated Biphenyls, solid, mixture, 9, ~~UN3432~~, PGII UN 2315	☒	001	DT	20,000	K	PCB 1
b.		☐					
c.		☐					
d.		☐					

J. Additional Descriptions for Materials Listed Above
APPROVAL# 092305PAB
storage start date: 10/04/05
unique container id#: 10

K. Handling Codes
a
b
c
d

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR
Printed/Typed Name: FRANK CLAAR
Signature: Frank Claar
Date (Month Day Year): 10 04 05

TRANSPORTER
17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: CLAUD DRAY
Signature: Claud Dray
Date (Month Day Year): 10 04 05

18 Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name:
Signature:
Date (Month Day Year):

FACILITY
19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name:
Signature:
Date (Month Day Year):

EPA Form 8700-22 (Rev. 9/88)
WASTE MANAGEMENT DIVISION
EQP 5110 Rev. 7/00

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Form Approved. OMB No. 2050-0039

Please print or type

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. DED060058062 | Manifest Document No. 80572 | 2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Amtrak
4001 Vandewater Avenue
Wilmington, DE 19802
attn Joseph R Moyer

4. Generator's Phone ( ) 610 436-7540

A. State Manifest Document Number MI 9980572
B. State Generator's ID

5. Transporter 1 Company Name Clean Ventures | 6. US EPA ID Number NJD000027193 | C. State Transporter's ID 082745 | D. Transporter's Phone 908 355 5800

7. Transporter 2 Company Name | 8. US EPA ID Number | E. State Transporter's ID | F. Transporter's Phone

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC., SITE #2 LANDFILL
49350 NORTH I-94 SERVICE DRIVE
BELLEVILLE, MI 48111

10. US EPA ID Number MID048090633 | G. State Facility's ID | H. Facility's Phone 800-592-5489

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ, Polychlorinated Biphenyls, solid, mixture, 9, ~~UN3432~~, PG II UN2315	001	DT	20,000	K	PCB1
b.						
c.						
d.						

GENERATOR

J. Additional Descriptions for Materials Listed Above
APPROVAL# 092305PAB
storage start date: 10-7-05
unique container id#: DT14
TAG# T39B9B NJ

K. Handling Codes
a
b
c
d

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: FRANK CLAAR | Signature: Frank Claar | Date: Month 10 Day 07 Year 05

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: Kevin J Gross | Signature: [signature] | Date: Month 10 Day 07 Year 05

18. Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name | Signature | Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUTSIDE MICHIGAN AT 1-800-424-8802 24 HOUR PER DAY.

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. DED060058062
Manifest Document No. 88573
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Amtrak
4001 Vandever Avenue
Wilmington, DE 19802
attn: Joseph R. Moyer

A. State Manifest Document Number MI 9980573
B. State Generator's ID Same

4. Generator's Phone ( ) 610 436-7540

5. Transporter 1 Company Name: Clean Ventures
6. US EPA ID Number: NJ0000027193
C. State Transporter's ID: 088316
D. Transporter's Phone: 9083555800

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC., SITE #2 LANDFILL
49350 NORTH I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
10. US EPA ID Number: MID048090633
G. State Facility's ID
H. Facility's Phone: 800-592-5489

HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. ☒	RQ, Polychlorinated Biphenyls, solid, mixture, 9, ~~UN3432~~, PGII UN2315	001	DT	20,000	K	PCB-1
b. ☐						
c. ☐						
d. ☐						

J. Additional Descriptions for Materials Listed Above
APPROVAL# 092305PAB
storage start date: 10-7-05
unique container id#: DT9
Tag TBP163V NJ

K. Handling Codes
a
b
c
d

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: FRANK CLAAR
Signature: Frank Claar
Date: Month 10 Day 07 Year 05

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: Glenn Nemeth
Signature: Glenn Nemeth
Date: Month 10 Day 07 Year 05

18 Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Date: Month Day Year

EPA Form 8700-22 (Rev. 9/88)

EQP 5117 Rev. 7/0

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR

Failure to file may subject you to criminal and civil penalties under Sections 324.[illegible] 324.[illegible] MCL

Please print or type

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: DED060058062
Manifest Document No.
2. Page 1 of
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Amtrak
4001 Vandever Avenue
Wilmington, DE 19802
attn Joseph R Moyer

A. State Manifest Document Number: MI 9992574
B. State Generator's ID: SAME

4. Generator's Phone (610) 436-7540

5. Transporter 1 Company Name: Clean Ventures
6. US EPA ID Number: NJ0000027193
C. State Transporter's ID: 082744
D. Transporter's Phone: 9083555800

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC., SITE #2 LANDFILL
49350 NORTH I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
10. US EPA ID Number: MID048090633
G. State Facility's ID
H. Facility's Phone: 800-592-5489

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ, Polychlorinated Biphenyls, solid, mixture, 9, ~~UN3432~~, PGII Un2315	☒	001	DT	20,000	K	PCB1
b.		☐					
c.		☐					
d.		☐					

J. Additional Descriptions for Materials Listed Above
APPROVAL# 092305PAB
storage start date: 10-7-05
unique container id#: DT502
Tag 767M9N (NJ)

K. Handling Codes
a
b
c
d

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: FRANK CLAAR
Signature: Frank Claar
Date (Month Day Year): 10 07 05

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: KENNETH LAWRENCE
Signature: Kenneth Lawrence
Date (Month Day Year): 10 07 05

18 Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name
Signature
Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name
Signature
Date (Month Day Year)

GENERATOR

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM MICHIGAN 1-800-292-4706 OR CENTER AT 1-800-424-8802 24 HOUR PER DAY.

EPA Form 8700-22 (Rev. 9/88)

EQP 51 Rev. 7/

Part 121 of Act 451 1994 as amended.

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Failure to file may subject you to criminal and or civil penalties under Sections 324 11151 or 324 12116 MCL

Please print or type.

Form Approved. OMB No. 2050-0039

084684

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. DED060058062
Manifest Document No. 88575
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Amtrak
4001 Vandever Avenue
Wilmington, DE 19802
attn Joseph R Moyer

A. State Manifest Document Number MI 9980575

B. State Generators ID SAME UPW071409

4. Generator's Phone ( ) 610 436-7540

5. Transporter 1 Company Name J D Trucking
6. US EPA ID Number MJ0000039967
C. State Transporter's ID ~~084684~~
D. Transporter's Phone 856 691-5145

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC., SITE #2 LANDFILL
49350 NORTH I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
10. US EPA ID Number MID048090633
G. State Facility's ID
H. Facility's Phone 800-592-5489

GENERATOR

	HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	☒	RQ, Polychlorinated Biphenyls, solid, mixture, 9, ~~UN3432~~, PGII UN2315	001	DT	20,000	K	PCB1
b.	☐						
c.	☐						
d.	☐						

J. Additional Descriptions for Materials Listed Above
APPROVAL# 092305PAB
storage start date: 10-10-05
unique container id#:
109 TAG AF2542 (NJ)

K. Handling Codes
a
b
c
d

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: FRANK CLAAR
Signature: Frank Claar
Date: Month 10 Day 10 Year 05

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: Alex Gowinski
Signature:
Date: Month 10 Day 10 Year 05

18 Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name:
Signature:
Date: Month Day Year

EPA Form 8700-22 (Rev. 9/88)

EQP 51
Rev. 7/

Part 121 of Act 451, 1994, as amended

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

NJ-084693

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. DED060058062
Manifest Document No. 85576
2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Amtrak
4001 Vandever Avenue
Wilmington, DE 19802
attn: Joseph R. Moyer

A. State Manifest Document Number
MI 9980576

B. State Generator's ID
SAME

4. Generator's Phone ( ) 610 436-7540

5. Transporter 1 Company Name
J+D TRUCKING

6. US EPA ID Number
NJD 000029867 29667

C. State Transporter's ID 0714097

D. Transporter's Phone 856-691-5145

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC., SITE #2 LANDFILL
49350 NORTH I-94 SERVICE DRIVE
BELLEVILLE, MI 48111

10. US EPA ID Number
MID048090633

G. State Facility's ID

H. Facility's Phone 800-592-5489

	HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	☒	RQ, Polychlorinated Biphenyls, solid, mixture, 9, ~~UN3432~~, PGII UN2315	001	DT	20,000	K	PCB1
b.	☐						
c.	☐						
d.	☐						

J. Additional Descriptions for Materials Listed Above
APPROVAL# 082305PAB
storage start date: 10-10-05
unique container id#: 10
TAG# (NJ) AH186X

K. Handling Codes
a
b
c
d

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: FRANK CLAAR
Signature: Frank Claar
Date: Month 10 Day 19 Year 05

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: CLAUD GRAY
Signature: Claud Gray
Date: Month 10 Day 10 Year 05

18 Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name
Signature
Date: Month Day Year

EPA Form 8700-22 (Rev. 9/88)

EQP 511 Rev. 7/0

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
P.O. BOX 30241

PILLS ... 1-800-... 06 OR ... STAFF AT 517-373-7659 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.
IE REF: ... TO TH... NCY A... ION E... IGAN ...
G SYS... MICHI...

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL

Please print or type

Form Approved OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. DED060058062
Manifest Document No.
2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Amtrak
4001 Vandevar Avenue
Wilmington, DE 19802
attn: Joseph R. Moyer

A. State Manifest Document Number MI 9980577
B. State Generator's ID SAME

4. Generator's Phone ( ) 610 436-7540

5. Transporter 1 Company Name J+D Trucking
6. US EPA ID Number NJD000029667
C. State Transporter's ID 12714097
D. Transporter's Phone 856 691 3145

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC., SITE #2 LANDFILL
49350 NORTH I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
10. US EPA ID Number MID048090633
G. State Facility's ID
H. Facility's Phone 800-592-5489

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ, Polychlorinated Biphenyls, solid, mixture, 9, ~~UN3432~~, PGII UN2315	☒	001	DT	20,000	K	PCB1
b.		☐					
c.		☐					
d.		☐					

J. Additional Descriptions for Materials Listed Above
APPROVAL# 092305PAB
storage start date: 10-10-05
unique container id#: 114
TAG (NS) TAF 50K

K. Handling Codes
a
b
c
d

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: FRANK CLAAR
Signature: Frank Claar
Date: Month 10 Day 10 Year 05

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: Douglas Durham
Signature: Douglas Durham
Date: Month 10 Day 10 Year 05

18 Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name:
Signature:
Date: Month Day Year

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to:

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
P.O. BOX 30241

EOP 511
Rev. 7/0

GENERATOR

PILLS ... TO BE REF... TO TA...
CENTER AT 1-800-424-9802 24 HOUR PER DAY.