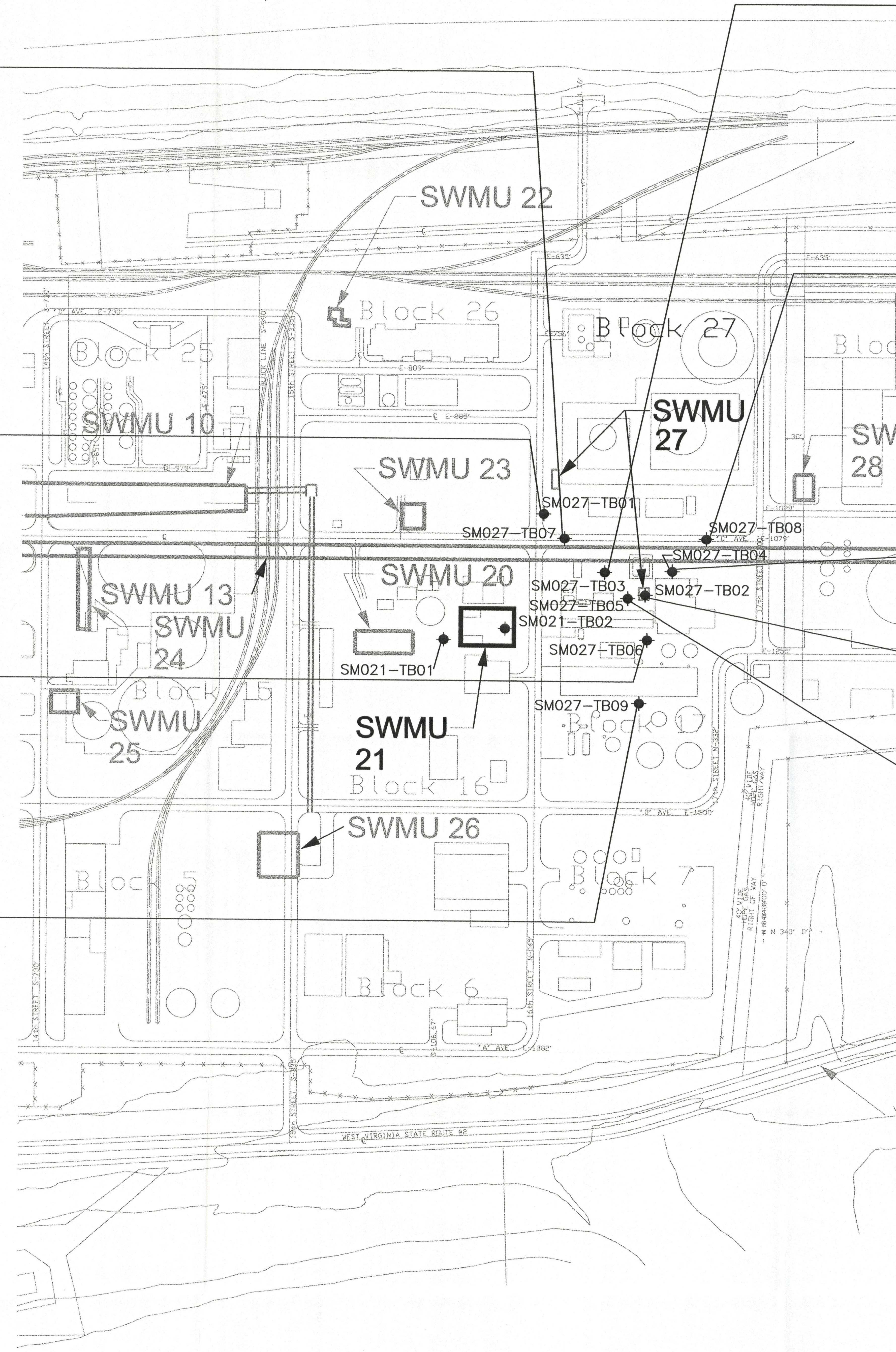
FLOW

OHIO RIVER



SAMPLE ID / SAMPLE DEPTH(ft) / SAMPLE LOCATION / SAMPLE DATE	SM027–TB07–0001 0.00–1.00 TB07 11/15/99	SM027–TB07–0305 3.00–5.00 TB07 11/15/99	SM027–TB07–03050 3.00–5.00 TB07 11/15/199	SM027–TB07–1820 18.00–20.00 TB07 11/15/99
PARAMETER				
Volatiles (µg/kg)				
1,2–Dichlorobenzene	29	<25	<23	<24
Methylene Chloride	39 B	<25	44 B	50
Naphthalene	23	<13	<11	<12
Semivolatiles (µg/kg)				
2,4–Dinitrotoluene	82000	5900 J	15000 J	<110
2,6–Dinitrotoluene	12000	980 J	2800 J	<130
5–Nitro–o–toluidine	2400	<110	<100	<110
Di–n–butyl phthalate	<530	360	270	150
m–Nitrotoluene	3800	430 J	1100 J	<120
o–Nitrotoluene	270	3700 J	6300 J	<130
p–Nitrotoluene	28000	3400 J	8400 J	<110
Metals (µg/kg)				
Chromium	5.51	7.89	6.14	3.70
Lead	54.4	15.9	15.00	10.70
Nickel	5.52	9.35	9.85	3.50

SAMPLE ID / SAMPLE DEPTH(ft) / SAMPLE LOCATION / SAMPLE DATE	SM027–TB01–0001 0.00–1.00 TB01 7/11/97	SM027–TB01–0305 3.00–5.00 TB01 7/11/97	SM027–TB01–1618 16.00–18.00 TB01 7/11/97
PARAMETER			
Volatiles (µg/kg)			
Freon 113	424 J	< 295	1050 J
Toluene	1090	< 153	< 151
Semivolatiles (µg/kg)			
Bis(2–ethylhexyl) phthalate	1120 B	460 B	350 B
Bisphenol A	15400	650	< 420
Di–n–butyl phthalate	< 430	510 B	900 B
Metals (µg/kg)			
Cadmium	580	810	600
Chromium	10900	19500	10900
Lead	10400	15000	10900
Nickel	17000	24300	13000

SAMPLE ID / SAMPLE DEPTH(ft) / SAMPLE LOCATION / SAMPLE DATE	SM027–TB06–0001 0.00–1.00 TB06 7/14/97	SM027–TB06–0305 3.00–5.00 TB06 7/14/97	SM027–TB06–1315 13.00–15.00 TB06 7/14/97
PARAMETER			
Volatiles (µg/kg)			
Freon 113	319 J	< 297	< 310
Semivolatiles (µg/kg)			
2,4–Dinitrotoluene	248000	1510	< 2480
5–Nitro–o–toluidine	26900	< 240	< 2480
Aniline	< 31900 J	< 330 J	106000 J
Bis(2–ethylhexyl) phthalate	< 27300	390	< 2980
Di–n–butyl phthalate	< 22800	1690 B	< 2480
Nitrobenzene	< 22800	2710	57300
Metals (µg/kg)			
Cadmium	760	< 480	< 500
Chromium	20700	19600	17600
Lead	21100	15300	14300
Nickel	22900	26300	25900

SAMPLE ID / SAMPLE DEPTH(ft) / SAMPLE LOCATION / SAMPLE DATE	SM027–TB09–0001 0.00–1.00 TB09 11/15/99	SM027–TB09–0305 3.00–5.00 TB09 11/15/99	SM027–TB09–1315 13.00–15.00 TB09 11/15/99
PARAMETER			
Volatiles (µg/kg)			
Methylene Chloride	48	48 B	48 B
Semivolatiles (µg/kg)			
2,4–Dinitrotoluene	3400	<110	<95
2,6–Dinitrotoluene	1200	<140	<99
5–Nitro–o–toluidine	170	<110	<140
Di–n–butyl phthalate	280	<110	<140
Nitrobenzene	<110	240	<140
m–Nitrotoluene	470	<120	<140
o–Nitrotoluene	4800	<140	<140
p–Nitrotoluene	2800	<110	<110
Metals (µg/kg)			
Chromium	5.73	8.98	5.09
Lead	18.9	20.9	19.70
Nickel	7.64	12.8	6.10

SAMPLE ID / SAMPLE DEPTH(ft) / SAMPLE LOCATION / SAMPLE DATE	SM027–TB03–0001 0.00–1.00 TB03 7/11/97	SM027–TB03–0305 3.00–5.00 TB03 7/11/97	SM027–TB03–0507 5.00–7.00 TB03 7/11/97	SM027–TB03–1113 11.00–13.00 TB03 7/11/97	SM027–TB03–1315 13.00–15.00 TB03 7/11/97
PARAMETER					
Volatiles (µg/kg)					
Benzene	212 J	8320	11500	14600	10400
Freon 113	624 J	1220 J	1450 J	< 305	633 J
Toluene	< 137	306 J	483 J	354 J	550 J
Semivolatiles (µg/kg)					
2,4–Dinitrotoluene	60900	184000	132000	1550000	137000
2,6–Dinitrotoluene	22200	108000	58100	2060000	87700
5–Nitro–o–toluidine	< 2120	3690	2040	< 24400	< 2390
Bisphenol A	< 3810	87200	< 2170	< 43900	< 4300
Nitrobenzene	5970	< 2450	2030	586000	60300
m–Nitrotoluene	< 2120	5700	1280	105000	3660
o–Nitrotoluene	12000	40600	7420	815000	28700
p–Nitrotoluene	5140	56600	13200	890000	32300
Metals (µg/kg)					
Cadmium	< 420	< 490	710	< 490	690
Chromium	13100	40300	19500	18100	14700
Lead	27400	17400	15900	15300	12100
Nickel	11900	27100	22200	24400	18300

SAMPLE ID / SAMPLE DEPTH(ft) / SAMPLE LOCATION / SAMPLE DATE	SM027–TB08–0001 0.00–1.00 TB08 11/12/99	SM027–TB08–0305 3.00–5.00 TB08 11/12/99	SM027–TB08–03050 3.00–5.00 TB08 11/12/99	SM027–TB08–1012 10.00–12.00 TB08 11/12/99
PARAMETER				
Volatiles (µg/kg)				
Acetone	<350	470	<37 B	<350
Methylene Chloride	<22	54	41 B	42 B
Semivolatiles (µg/kg)				
2–Methylnaphthalene	<110	190	<120	<110
Di–n–butyl phthalate	120	130	120	<100
Naphthalene	<110	220	<120	<110
Metals (µg/kg)				
Chromium	7.05	7.04	5.35	8.45
Lead	16.60	19.10	16.00	13.20
Nickel	8.29	8.01	5.88	4.78

SAMPLE ID / SAMPLE DEPTH(ft) / SAMPLE LOCATION / SAMPLE DATE	SM027–TB04–0001 0.00–1.00 TB04 7/11/97	SM027–TB04–0305 3.00–5.00 TB04 7/11/97	SM027–TB04–1113 11.00–13.00 TB04 7/11/97	SM027–TB04–1315 13.00–15.00 TB04 7/11/97
PARAMETER				
Volatiles (µg/kg)				
Benzene	< 146	233 J	2530	11900
Ethylbenzene	< 146	< 160	< 157	323 J
Freon 113	< 280	< 307	< 302	1910
Methylene Chloride	< 280	< 307	< 302	585 J
Toluene	< 146	< 160	< 157	860
Trichloroethene	< 146	< 160	< 157	311 J
m+p–Xylene	< 146	< 160	< 157	187 J
Semivolatiles (µg/kg)				
Aniline	< 310 J	361000 J	< 67800 J	< 66900 J
Chrysene	240	< 49100	< 48300	< 47800
Di–n–butyl phthalate	2100 B	92900	< 48300	< 47800
Fluoranthene	790	< 49100	< 48300	< 47800
Nitrobenzene	< 220	< 49100	3400000	2140000
Pyrene	500	< 49100	< 48300	< 47800
Metals (µg/kg)				
Cadmium	650	830	770	800
Chromium	16500	18200	19300	14200
Lead	71800	17600	15100	14100
Nickel	24000	20100	24100	17900

SAMPLE ID / SAMPLE DEPTH(ft) / SAMPLE LOCATION / SAMPLE DATE	SM027–TB02–0001 0.00–1.00 TB02 7/11/97	SM027–TB02–0305 3.00–5.00 TB02 7/11/97	SM027–TB02–0507 5.00–7.00 TB02 7/11/97
PARAMETER			
Volatiles (µg/kg)			
Benzene	14000	7140	3890
Freon 113	737 J	798 J	645 J
Semivolatiles (µg/kg)			
2,4–Dinitrotoluene	< 470	45700	11600
2,6–Dinitrotoluene	< 470	12200	5160
5–Nitro–o–toluidine	980	2440	< 490
Aniline	23400 J	< 3280 J	< 680 J
Bis(2–ethylhexyl) phthalate	1110 B	6250	< 580
Bisphenol A	16400	< 4210	17000
Di–n–butyl phthalate	4600 B	22200 B	1130 B
Nitrobenzene	36700	117000	36400
Phenol	2920	1660	< 290
o–Nitrotoluene	< 470	5220	1370
p–Nitrotoluene	< 700	5500	1300
Metals (µg/kg)			
Cadmium	790	860	NA
Chromium	18500	19800	NA
Lead	16000	15800	NA
Nickel	22100	22100	NA

SAMPLE ID / SAMPLE DEPTH(ft) / SAMPLE LOCATION / SAMPLE DATE	SM027–TB05–0102 1.00–2.00 TB05 7/11/97	SM027–TB05–0102FD 1.00–2.00 TB05 7/11/97	SM027–TB05–0305 3.00–5.00 TB05 7/11/97	SM027–TB05–0810 8.00–10.00 TB05 7/11/97	SM027–TB05–1214 12.00–14.00 TB05 7/11/97	SM027–TB05–1416 14.00–16.00 TB05 7/11/97
PARAMETER						
Volatiles (µg/kg)						
Benzene	18800	22200	18100	25600	20600	19700
Freon 113	554 J	1770	1070 J	719 J	557 J	983 J
Toluene	< 144	< 144	17400	6820	1940	737 J
Semivolatiles (µg/kg)						
2,4–Dinitrotoluene	350	< 220	< 4970	3520	< 1210	< 490
2,6–Dinitrotoluene	< 220	< 220	< 4970	4150	< 1210	< 490
4–Chloro–m–cresol	< 220	270	< 4970	< 1220	< 1210	< 490
5–Nitro–o–toluidine	< 220	< 220	< 4970	6520	< 1210	< 490
Aniline	4810 J	18100 J	373000 J	< 1710 J	< 1700 J	940 J
Azobenzene	890	1060	< 5980	< 1460	< 1450	< 590
Bis(2–chloroethyl)ether	750 J	< 220 J	< 4970 J	< 1220 J	< 1210 J	< 490 J
Bis(2–ethylhexyl) phthalate	540 B	420 B	< 5980	< 1460	< 1450	< 590
Bisphenol A	480	750	170000	42500	42500	17200
Di–n–butyl phthalate	1300 B	1290 B	< 4970	1840 B	< 1210	1000 B
Nitrobenzene	1150	1100	45300	86700	78900	28000
Phenol	< 130	< 130	< 2980	< 730	< 730	1400
o,p–Toluidine	1840	3750	< 25300	< 6210	< 6180	< 2510
o–Nitrotoluene	1470	1560	< 4970	< 1220	< 1210	< 490
p–Nitrotoluene	1680	1680	< 7450	< 1830	< 1820	< 740
Metals (µg/kg)						
Cadmium	670	650	850	920	880	920
Chromium	24700	23700	19700	20800	18900	18900
Lead	40000	30900	14400	18000	14500	15600
Nickel	34500	17000	23100	22500	22800	22400

NOTE:
SEDIMENT SAMPLES SM004–TB05 AND SM004–TB6 ARE PRESENTED IN SECTION 6.

0 120 240
APPROX. SCALE IN FEET

IT CORPORATION

BAYER NEW MARTINSVILLE
NEW MARTINSVILLE, WEST VIRGINIA

FIGURE 4.18–1

SOIL BORING LOCATIONS WITH ANALYTICAL RESULTS FOR SWMU 27

RCRA FACILITY INVESTIGATION

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Pittsburgh, PA	B. Snyder	12/30/99					800588–D10

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