Legend
On-Site Sediment Sampling Results (November 2000)
Lake Success Business Park

exceeds site background concentrations for stream sediments

exceeds the industrial/commercial direct exposure criteria for soils established in the Connecticut Remediation Standard Regulations. Comparison of sediment data to soil data was conducted at the request of EPA as a conservative screening tool due to the lack of established sediment criteria for the site.

exceeds both the site background concentration for stream sediments and the industrial/commercial direct exposure criteria for soils established in the Connecticut Remediation Standard Regulations

half the detection limit exceeds industrial/commercial direct exposure criteria for soils and/or site background concentrations for stream sediments

not analyzed

ND not detected
J estimated value; concentration detected above MDL but below PQL
RSRs Connecticut Remediation Standard Regulations
I/C DEC Industrial/commercial direct exposure criteria

Notes:
Streams are present in five areas of the site:

1 Northern Site
2 Roadway Brook
3 Tracer Brook
4 East Branch Roadway Brook
5 West Branch Roadway Brook

For each area of the site, results are presented from upstream to downstream

Table 8
On-Site Sediment Sampling Results (November 2000)
East Branch Roadway Brook
Lake Success Business Park

Analyte	Background Concentration (Stream)	CT RSRs I/C DEC	East Branch Roadway Brook		
			RFI-2-SED	RFI-8-SED	EBRB-01-SED
Metals (mg/kg)					
ALUMINUM	NE	NA	13,500	10,100	
ANTIMONY	1.0	8,200	ND (1.7)	ND (1.3)	ND (1.4)
ARSENIC	21.0	10.0	3.8	2.8	2.7
BARIUM	82.0	140,000	54.9	34.9	
BERYLLIUM	0.92	2.0	1.7	1.1	
CADMIUM	0.53	1,000	1.6	0.92	
CALCIUM	NE	NA	3,160	1,970	
CHROMIUM	37.0	100	14.9	10.6	
COBALT	NE	NA	8.6	6.1	
COPPER	129	76,000	31.0	23.0	48.0
IRON	26,104	NA	15,800	10,900	
LEAD	182	1,000	63.9	39.3	85.5
MAGNESIUM	NE	NA	2,960	2,310	
MANGANESE	1,222	NA	236	196	
MERCURY	1.3	610	0.130 J	0.120 J	
NICKEL	21.0	7,500	16.0	9.7	
POTASSIUM	NE	NA	1,520	1,160	
SELENIUM	NE	10,000	1.7 J	0.86 J	
SILVER	NE	10,000	ND (0.16)	ND (0.12)	
SODIUM	NE	NA	228 J	181 J	
THALLIUM	NE	160	ND (2.2)	ND (1.7)	
VANADIUM	117	14,000	44.4	28.3	
ZINC	235	610,000	142	86.5	93.6
Semivolatiles (ug/kg)					
2,4-DINITROTOLUENE	NE	NA			
2-METHYLPHTHALENE	NE	NA	ND (68.0)	ND (89.0)	
ACENAPHTHENE	3,862	NA	ND (68.0)	ND (89.0)	
ACENAPHTHYLENE	2,361	2,500,000	ND (68.0)	98.0 J	
ANTHRACENE	1,097	2,500,000	ND (68.0)	ND (89.0)	
BENZO(A)ANTHRACENE	2,378	7,800	95.0 J	220 J	
BENZO(A)PYRENE	2,712	1,000	120 J	300 J	
BENZO(B)FLUORANTHENE	2,465	7,800	160 J	460 J	
BENZO(G,H,I)PERYLENE	2,007	NA	99.0 J	260 J	
BENZO(K)FLUORANTHENE	1,320	78,000	74.0 J	190 J	
CHRYSENE	3,673	NA	140 J	370 J	
DIBENZO(A,H)ANTHRACENE	94.0	NA	ND (68.0)	ND (89.0)	
FLUORANTHENE	7,281	2,500,000	210 J	520 J	
FLUORENE	1,482	2,500,000	ND (68.0)	ND (89.0)	
INDENO(1,2,3-CD)PYRENE	2,133	NA	100 J	290 J	
NAPHTHALENE	6,603	2,500,000	ND (68.0)	ND (89.0)	
PENTACHLOROPHENOL	NE	48,000			
PHENANTHRENE	4,927	2,500,000	1,000 J	230 J	
PYRENE	6,876	2,500,000	220 J	540 J	
Miscellaneous Compounds					
TOTAL ORG. CARBON (mg/kg)	NE	NA	50,700	62,500	20,400

Table 8
On-Site Sediment Sampling Results (November 2000)
Northern Site
Lake Success Business Park

Analyte	Background Concentration (Stream)	CT RSRs I/C DEC	Northern Site RFI-1-SED
Metals (mg/kg)			
ALUMINUM	NE	NA	9,260
ANTIMONY	1.0	8,200	2.8 J
ARSENIC	21.0	10.0	13.2
BARIUM	82.0	140,000	60.4
BERYLLIUM	0.92	2.0	0.83
CADMIUM	0.53	1,000	1.1
CALCIUM	NE	NA	1,350
CHROMIUM	37.0	100	13.1
COBALT	NE	NA	7.0
COPPER	129	76,000	44.9
IRON	26,104	NA	11,400
LEAD	182	1,000	136
MAGNESIUM	NE	NA	2,050
MANGANESE	1,222	NA	154
MERCURY	1.3	610	0.094 J
NICKEL	21.0	7,500	14.0
POTASSIUM	NE	NA	799
SELENIUM	NE	10,000	ND (1.0)
SILVER	NE	10,000	ND (0.15)
SODIUM	NE	NA	158 J
THALLIUM	NE	160	ND (2.1)
VANADIUM	117	14,000	33.7
ZINC	235	610,000	135
Semivolatiles (ug/kg)			
2,4-DINITROTOLUENE	NE	NA	730 J
2-METHYLPHTHALENE	NE	NA	ND (84.0)
ACENAPHTHENE	3,862	NA	ND (84.0)
ACENAPHTHYLENE	2,361	2,500,000	200 J
ANTHRACENE	1,097	2,500,000	150 J
BENZO(A)ANTHRACENE	2,378	7,800	680 J
BENZO(A)PYRENE	2,712	1,000	810 J
BENZO(B)FLUORANTHENE	2,465	7,800	1,100
BENZO(G,H,I)PERYLENE	2,007	NA	610 J
BENZO(K)FLUORANTHENE	1,320	78,000	400 J
CHRYSENE	3,673	NA	860
DIBENZO(A,H)ANTHRACENE	94.0	NA	170 J
FLUORANTHENE	7,281	2,500,000	1,500
FLUORENE	1,482	2,500,000	ND (84.0)
INDENO(1,2,3-CD)PYRENE	2,133	NA	700 J
NAPHTHALENE	6,603	2,500,000	ND (84.0)
PENTACHLOROPHENOL	NE	48,000	
PHENANTHRENE	4,927	2,500,000	440 J
PYRENE	6,876	2,500,000	1,200
Miscellaneous Compounds			
TOTAL ORG. CARBON (mg/kg)	NE	NA	13,000

Table 8
On-Site Sediment Sampling Results (November 2000)
Roadway Brook
Lake Success Business Park

Analyte	Background Concentration (Stream)	CT RSRs I/C DEC	Roadway Brook			
			RB-01-SED	RB-02-SED	RFI-3-SED	RB-03-SED
Metals (mg/kg)						
ALUMINUM	NE	NA			2,540	
ANTIMONY	1.0	8,200	ND (0.88)	ND (1.6)	0.65 J	3.1 J
ARSENIC	21.0	10.0	1.1 J	5.3	1.1	3.3
BARIUM	82.0	140,000			11.6	
BERYLLIUM	0.92	2.0			0.14 J	
CADMIUM	0.53	1,000			0.23	
CALCIUM	NE	NA			438	
CHROMIUM	37.0	100			2.2	
COBALT	NE	NA			1.8	
COPPER	129	76,000	5.5	52.6	58.9	107
IRON	26,104	NA			2,480	
LEAD	182	1,000	7.6	436	634	2,010
MAGNESIUM	NE	NA			440	
MANGANESE	1,222	NA			170	
MERCURY	1.3	610			0.031 J	
NICKEL	21.0	7,500			4.9	
POTASSIUM	NE	NA			109	
SELENIUM	NE	10,000			ND (0.39)	
SILVER	NE	10,000			ND (0.06)	
SODIUM	NE	NA			39.3 J	
THALLIUM	NE	160			ND (0.80)	
ADIUM	117	14,000			4.0	
	235	610,000	32.0	289	43.5	204
nivolatiles (ug/kg)						
2,4-DINITROTOLUENE	NE	NA				
2-METHYLPHTHALENE	NE	NA				
ACENAPHTHENE	3,862	NA				
ACENAPHTHYLENE	2,361	2,500,000				
ANTHRACENE	1,097	2,500,000				
BENZO(A)ANTHRACENE	2,378	7,800				
BENZO(A)PYRENE	2,712	1,000	ND (47.0)	620 J	54.0 J	1,300
BENZO(B)FLUORANTHENE	2,465	7,800				
BENZO(G,H,I)PERYLENE	2,007	NA				
BENZO(K)FLUORANTHENE	1,320	78,000				
CHRYSENE	3,673	NA				
DIBENZO(A,H)ANTHRACENE	94.0	NA				
FLUORANTHENE	7,281	2,500,000				
FLUORENE	1,482	2,500,000				
INDENO(1,2,3-CD)PYRENE	2,133	NA				
NAPHTHALENE	6,603	2,500,000				
PENTACHLOROPHENOL	NE	48,000				
PHENTHRENE	4,927	2,500,000				
PYRENE	6,876	2,500,000				
Miscellaneous Compounds						
TOTAL ORG. CARBON (mg/kg)	NE	NA	7,240	20,900	16,000	41,000
TPH-DRO (mg/kg)	NE	4,000	190	290		
PCBs (ug/kg)						
AROCLOR 1016	NE	10,000 (total PCBs)		ND (8.5)	ND (3.3)	
LOR 1221	NE			ND (12.0)	ND (4.7)	
OCLOR 1232	NE			ND (18.0)	ND (6.9)	
OCLOR 1242	NE			ND (8.5)	ND (3.3)	
AROCLOR 1248	NE			ND (9.3)	ND (3.6)	
AROCLOR 1254	NE			ND (8.5)	27.0	
AROCLOR 1260	NE			ND (8.5)	ND (3.3)	

Table 8
On-Site Sediment Sampling Results (November 2000)
Roadway Brook
Lake Success Business Park

Analyte	Background Concentration (Stream)	CT RSRs I/C DEC	Roadway Brook		
			RB-04-SED	RFI-4-SED	RB-05-SED
Metals (mg/kg)					
ALUMINUM	NE	NA		31,000	
ANTIMONY	1.0	8,200	3.1 J	4.7 J	5.1 J
ARSENIC	21.0	10.0	8.7	18.3	11.2
BARIUM	82.0	140,000		128.0	
BERYLLIUM	0.92	2.0		3.6	
CADMIUM	0.53	1,000		3.9	
CALCIUM	NE	NA		3,460	
CHROMIUM	37.0	100		40.0	
COBALT	NE	NA		24.5	
COPPER	129	76,000	105	289	222
IRON	26,104	NA		38,600	
LEAD	182	1,000	1,990	6,270	3,810
MAGNESIUM	NE	NA		4,190	
MANGANESE	1,222	NA		854	152
MERCURY	1.3	610		0.64	
NICKEL	21.0	7,500		60.2	
POTASSIUM	NE	NA		1,200	
SELENIUM	NE	10,000		2.7 J	
SILVER	NE	10,000		ND (0.28)	
SODIUM	NE	NA		383 J	
THALLIUM	NE	160		ND (3.8)	
VANADIUM	117	14,000		93.3	
ZINC	235	610,000	356	810	441
Semivolatiles (ug/kg)					
2,4-DINITROTOLUENE	NE	NA			
2-METHYLPHTHALENE	NE	NA		ND (150)	
ACENAPHTHENE	3,862	NA		ND (150)	
ACENAPHTHYLENE	2,361	2,500,000		430 J	
ANTHRACENE	1,097	2,500,000		230 J	
BENZO(A)ANTHRACENE	2,378	7,800		830 J	
BENZO(A)PYRENE	2,712	1,000		1,300 J	
BENZO(B)FLUORANTHENE	2,465	7,800		2,200	2,300
BENZO(G,H,I)PERYLENE	2,007	NA		1,200 J	
BENZO(K)FLUORANTHENE	1,320	78,000		910 J	
CHRYSENE	3,673	NA		1,700	
DIBENZO(A,H)ANTHRACENE	94.0	NA		310 J	
FLUORANTHENE	7,281	2,500,000		2,200	
FLUORENE	1,482	2,500,000		ND (150)	
INDENO(1,2,3-CD)PYRENE	2,133	NA		1,200 J	
NAPHTHALENE	6,603	2,500,000		ND (150)	
PENTACHLOROPHENOL	NE	48,000			
PHENTHRENE	4,927	2,500,000		1,000 J	
PYRENE	6,876	2,500,000		2,400	
Miscellaneous Compounds					
TOTAL ORG. CARBON (mg/kg)	NE	NA	40,500	126,000	133,000
TPH-DRO (mg/kg)	NE	4,000			
PCBs (ug/kg)					
AROCLOR 1016	NE	10,000 (total PCBs)			
AROCLOR 1221	NE				
AROCLOR 1232	NE				
AROCLOR 1242	NE				
AROCLOR 1248	NE				
AROCLOR 1254	NE				
AROCLOR 1260	NE				

Table 8
On-Site Sediment Sampling Results (November 2000)
Roadway Brook
Lake Success Business Park

Analyte	Background Concentration (Stream)	CT RSRs I/C DEC	Roadway Brook		
			RFI-5-SED-1	RFI-5-SED-2	RB-06-SED
Metals (mg/kg)					
ALUMINUM	NE	NA	42,300	37,100	41,600
ANTIMONY	1.0	8,200	16.6	9.9	12.6
ARSENIC	21.0	10.0	25.5	20.4	22.0
BARIUM	82.0	140,000	89.3	104	132
BERYLLIUM	0.92	2.0	3.6	3.0	3.7
CADMIUM	0.53	1,000	2.7	3.1	4.2
CALCIUM	NE	NA	2,130	2,530	5,210
CHROMIUM	37.0	100	53.0	55.6	98.5
COBALT	NE	NA	13.8	13.7	30.1
COPPER	129	76,000	432	406	491
IRON	26,104	NA	38,800	35,300	49,000
LEAD	182	1,000	8,870	7,620	6,900
MAGNESIUM	NE	NA	3,550	3,570	4,620
MANGANESE	1,222	NA	366	464	2,070
MERCURY	1.3	610	4.6	5.1	3.2
NICKEL	21.0	7,500	62.4	58.5	97.8
POTASSIUM	NE	NA	1,280	1,400	1,560
SELENIUM	NE	10,000	3.4 J	2.3 J	2.6 J
SILVER	NE	10,000	ND (0.26)	ND (0.29)	ND (0.29)
SODIUM	NE	NA	337 J	380 J	470 J
THALLIUM	NE	160	4.4 J	ND (4.0)	ND (4.1)
VANADIUM	117	14,000	92.5	90.7	125
ZINC	235	610,000	642	645	928
Semivolatiles (ug/kg)					
2,4-DINITROTOLUENE	NE	NA			
2-METHYLPHTHALENE	NE	NA	ND (140)	450 J	ND (170)
ACENAPHTHENE	3,862	NA	ND (140)	240 J	ND (170)
ACENAPHTHYLENE	2,361	2,500,000	710 J	1,300 J	480 J
ANTHRACENE	1,097	2,500,000	410 J	1,400 J	390.J
BENZO(A)ANTHRACENE	2,378	7,800	1,300 J	3,300	1,300 J
BENZO(A)PYRENE	2,712	1,000	1,900	3,400	1,800
BENZO(B)FLUORANTHENE	2,465	7,800	3,000	5,100	2,800
BENZO(G,H,I)PERYLENE	2,007	NA	1,800	2,400	1,400 J
BENZO(K)FLUORANTHENE	1,320	78,000	1,200 J	2,000	1,200 J
CHRYSENE	3,673	NA	2,700	4,800	2,500
DIBENZO(A,H)ANTHRACENE	94.0	NA	460 J	740 J	440 J
FLUORANTHENE	7,281	2,500,000	4,200	8,900	4,000
FLUORENE	1,482	2,500,000	200 J	1,200 J	180 J
INDENO(1,2,3-CD)PYRENE	2,133	NA	1,700	2,700	1,500 J
NAPHTHALENE	6,603	2,500,000	ND (140)	670 J	ND (170)
PENTACHLOROPHENOL	NE	48,000			
PHENTHRENE	4,927	2,500,000	2,600	8,000	2,000
PYRENE	6,876	2,500,000	4,400	8,700	4,100
Miscellaneous Compounds					
TOTAL ORG. CARBON (mg/kg)	NE	NA	108,000	127,000	110,000
TPH-DRO (mg/kg)	NE	4,000			
PCBs (ug/kg)					
AROCLOR 1016	NE	10,000 (total PCBs)	ND (72.0)	ND (16.0)	ND (17.0)
AROCLOR 1221	NE		ND (100)	ND (23.0)	ND (24.0)
AROCLOR 1232	NE		ND (150)	ND (34.0)	ND (35.0)
AROCLOR 1242	NE		ND (72.0)	ND (16.0)	ND (17.0)
AROCLOR 1248	NE		ND (79.0)	ND (18.0)	ND (18.0)
AROCLOR 1254	NE		4,900	2,500	640
AROCLOR 1260	NE		ND (72.0)	ND (16.0)	ND (17.0)

Table 8
On-Site Sediment Sampling Results (November 2000)
West Branch Roadway Brook
Lake Success Business Park

Analyte	Background Concentration (Stream)	CT RSRs I/C DEC	West Branch Roadway Brook		
			RFI-6-SED	WBRB-01-SED	RFI-7-SED
Metals (mg/kg)					
ALUMINUM	NE	NA	6,690		20,000
ANTIMONY	1.0	8,200	ND (1.4)	ND (0.90)	ND (2.1)
ARSENIC	21.0	10.0	1.2 J	1.2 J	7.1
BARIUM	82.0	140,000	80.5		80.6
BERYLLIUM	0.92	2.0	1.1		1.2
CADMIUM	0.53	1,000	2.1		1.8
CALCIUM	NE	NA	4,270		2,820
CHROMIUM	37.0	100	9.5		59.8
COBALT	NE	NA	1.1		9.0
COPPER	129	76,000	53.3	28.6	167
IRON	26,104	NA	2,150		19,600
LEAD	182	1,000	45.9	84.2	332
MAGNESIUM	NE	NA	510		4,770
MANGANESE	1,222	NA	25.0		208
MERCURY	1.3	610	0.28	0.032 J	0.45
NICKEL	21.0	7,500	36.1	11.2	39.7
POTASSIUM	NE	NA	399		1,190
SELENIUM	NE	10,000	1.9 J		2.8 J
SILVER	NE	10,000	ND (0.14)		ND (0.20)
SODIUM	NE	NA	114 J		379.0
THALLIUM	NE	160	ND (1.9)		ND (2.8)
VANADIUM	117	14,000	32.8		109
ZINC	235	610,000	129	123	255
Semivolatiles (ug/kg)					
2,4-DINITROTOLUENE	NE	NA			
2-METHYLPHTHALENE	NE	NA			ND (110)
ACENAPHTHENE	3,862	NA			ND (110)
ACENAPHTHYLENE	2,361	2,500,000			200 J
ANTHRACENE	1,097	2,500,000			120 J
BENZO(A)ANTHRACENE	2,378	7,800			390 J
BENZO(A)PYRENE	2,712	1,000			570 J
BENZO(B)FLUORANTHENE	2,465	7,800			1100 J
BENZO(G,H,I)PERYLENE	2,007	NA			510 J
BENZO(K)FLUORANTHENE	1,320	78,000			360 J
CHRYSENE	3,673	NA			820 J
DIBENZO(A,H)ANTHRACENE	94.0	NA			150 J
FLUORANTHENE	7,281	2,500,000			970 J
FLUORENE	1,482	2,500,000			ND (110)
INDENO(1,2,3-CD)PYRENE	2,133	NA			560 J
NAPHTHALENE	6,603	2,500,000			ND (110)
PENTACHLOROPHENOL	NE	48,000	ND (410)		
PHENANTHRENE	4,927	2,500,000			490 J
PYRENE	6,876	2,500,000			1,000 J
Miscellaneous Compounds					
TOTAL ORG. CARBON (mg/kg)	NE	NA	32,400	11,800	903,000
ALPHA CHLORDANE (ug/kg)	NE	NA			18.0

Table 8
On-Site Sediment Sampling Results (November 2000)
Tracer Brook
Lake Success Business Park

Analyte	Background Concentration (Stream)	CT RSRs I/C DEC	Tracer Brook			
			TB-01-SED	RFI-9-3-1-SED	TB-02-SED	TB-03-SED
Semivolatiles (ug/kg)						
ALUMINUM	NE	NA		54,800		
ANTIMONY	1.0	8,200	693	86.2	28.9	54.4
ARSENIC	21.0	10.0	27.7	8.4	9.4	9.9
BARIUM	82.0	140,000		364		
BERYLLIUM	0.92	2.0		4.0		
CADMIUM	0.53	1,000		2.6		
CALCIUM	NE	NA		2,040		
CHROMIUM	37.0	100		43.0		
COBALT	NE	NA		7.3		
COPPER	129	76,000	1,680	1,480	404	990
IRON	26,104	NA		14,100		
LEAD	182	1,000	161,000	8,890	3,280	7,060
MAGNESIUM	NE	NA		2,740		
MANGANESE	1,222	NA		264		
MERCURY	1.3	610	15.9	20.5	4.9	15.1
NICKEL	21.0	7,500		80.2		
POTASSIUM	NE	NA		772		
SELENIUM	NE	10,000		ND (2.0)		
SILVER	NE	10,000		ND (0.29)		
SODIUM	NE	NA		323 J		
THALLIUM	NE	160		ND (4.0)		
VANADIUM	117	14,000		87.1		
ZINC	235	610,000	1,640	621	512	647
Semivolatiles (ug/kg)						
2,4-DINITROTOLUENE	NE	NA				
2-METHYLPHTHALENE	NE	NA		ND (160)		
ACENAPHTHENE	3,862	NA		ND (160)		
ACENAPHTHYLENE	2,361	2,500,000		ND (160)		
ANTHRACENE	1,097	2,500,000		ND (160)		
BENZO(A)ANTHRACENE	2,378	7,800	460 J	340 J	580 J	180 J
BENZO(A)PYRENE	2,712	1,000	700 J	440 J	550 J	220 J
BENZO(B)FLUORANTHENE	2,465	7,800	940 J	660 J	980 J	330 J
BENZO(G,H,I)PERYLENE	2,007	NA		440 J		
BENZO(K)FLUORANTHENE	1,320	78,000	370 J	250 J	340 J	160 J
CHRYSENE	3,673	NA		610 J		
DIBENZO(A,H)ANTHRACENE	94.0	NA	140 J	ND (160)	100 J	ND (91.0)
FLUORANTHENE	7,281	2,500,000		710 J		
FLUORENE	1,482	2,500,000		ND (160)		
INDENO(1,2,3-CD)PYRENE	2,133	NA		360 J		
NAPHTHALENE	6,603	2,500,000		ND (160)		
PENTACHLOROPHENOL	NE	48,000				
PHENANTHRENE	4,927	2,500,000		310 J		
PYRENE	6,876	2,500,000		720 J		
Miscellaneous Compounds						
TOTAL ORG. CARBON (mg/kg)	NE	NA	138,000	175,000	138,000	94,500