Final
Remedial Investigation Report
Town of Salina Landfill

Site No. 734036

SALINA LANDFILL

December 2000

Volume I
Main Text

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ONONDAGA LAKE

CHA Project No. 6967

TABLE 1-2
TOWN OF SALINA LANDFILL
SUMMARY OF PARAMETERS DETECTED IN SURFACE WATER
ECOLOGY AND ENVIRONMENT (1994)

			LEY CREEK					DRAINAGEWAYS				
LOCATION		NY Std.[1]	SW-1	SW-2	SW-3	SW-4	SW-6	SW-5	SW-7	SW-8	SW-11	SW-12
VOCs	**Units**											
Acetone	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	160	ND
Carbon Disulfide	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	5 J	ND
Vinyl chloride	ug/l	0.3	ND	**9** J	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	ug/l	-	ND	15	5 J	5 J	31	ND	ND	ND	ND	**3** J
1,2-Dichloroethane	ug/l	-	5 J	5 J	8 J	9 J	9 J	7 J	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/l	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5** J
Toluene	ug/l	6000	ND	2 J	ND	ND	7 J	ND	ND	ND	ND	ND
SVOCs												
1,4-Dichlorobenzene	ug/l	5	ND	ND	2 J	ND	ND	ND	ND	ND	ND	ND
Pesticides/PCBs	ug/l		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals												
Aluminum	ug/l	100	**157**	**150**	**179**	**607**	95.3	**539**	**2580**	**205**	NA	NA
Arsenic	ug/l	150	1.6	3.1	2.9	2.7	4.5	5.8	17.6	20.8	NA	NA
Barium	ug/l	-	83.2	87.7	86.3	82.3	105	101	3420	99.5	NA	NA
Cadmium	ug/l	8.20	ND	ND	ND	ND	ND	ND	**13**	ND	NA	NA
Calcium	ug/l	-	183000	166000	182000	178000	125000	124000	204000	130000	NA	NA
Chromium	ug/l	308.02	ND	ND	ND	ND	ND	6.3	95.6	6.1	NA	NA
Cobalt	ug/l	5	ND	ND	ND	ND	ND	ND	**55.2**	ND	NA	NA
Copper	ug/l	39.59	2.4	2.1	3.2	8.2	ND	ND	**139**	2.8	NA	NA
Iron	ug/l	300	**372**	**456**	**479**	**1660**	**362**	**421**	**244000**	**2500**	NA	NA
Lead	ug/l	23.54	3	2.4	4.7	9.5	ND	ND	**87.3**	1.7	NA	NA
Magnesium	ug/l	-	30400	33500	31900	317000	43600	43100	66000	42800	NA	NA
Maganese	ug/l	-	71.4	92.9	101	182	44.1	77.2	738	71.4	NA	NA
Nickel	ug/l	227.14	ND	ND	ND	ND	ND	ND	96.4	ND	NA	NA
Potassium	ug/l	-	5680	3630	4510	5050	2790	2760	87600	2500	NA	NA
Sodium	ug/l	-	111000	105000	111000	110000	105000	100000	235000	70400	NA	NA
Vanadium	ug/l	14	ND	ND	ND	ND	ND	ND	**25.5**	ND	NA	NA
Zinc	ug/l	133.33	53.6	46.5	37.6	77.1	16	30.9	**275**	104	NA	NA
Cyanide	ug/l	9000	ND	ND	ND	ND	ND	ND	28	ND	NA	NA
Total Hardness	mg/l	Avg = 569	583	552	586	575	492	487	780	500	NA	NA

Notes:
1. Shaded, Boldface Values Exceed NYS Standard or Guidance Value for Class B Waters Defined in TOGS 1.1.1 - June 1998.
Standard for certain metals listed below based on hardness
Cadmium standard = (0.85)exp(0.7852[ln hardness]-2.715
Chromium standard = (0.86)exp(0.819[ln hardness]+ .6848
Copper standard = (0.96)exp(0.8545[ln hardness]-1.702
Lead standard = {1.46203 -[ln hardness (0.145712)]} exp(1.273 [ln hardness]-4.297
Nickel standard = (0.997)exp(0.846[ln hardness]+0.0584
Zinc standard = exp(0.85[ln hardness]+0.50)

OnondagaLake_0000822_0002

TABLE 1-3
TOWN OF SALINA LANDFILL
SUMMARY OF PARAMETERS DETECTED IN SEDIMENT
ECOLOGY AND ENVIRONMENT (1994)

				Ley Creek										Drainageways								
LOCATION		NY Std.[2]	Site Specific[3]	SED-1		SED-2		SED-3		SED-4		SED-6		SED-5	SED-7		SED-8		SED-11		SED-12	
VOCs	Units																					
Acetone	ug/kg	-		ND		ND		ND		ND		ND		170	ND		84		120		89	
Total 1,2-Dichloroethene	ug/kg	0.7	1.5	ND		**5**	J	ND		ND		ND		ND	ND		ND		ND		**5**	J
Toluene	ug/kg	-		ND		ND		3	J	ND		1	J	ND	ND		ND		ND		ND	
Chlorobenzene	ug/kg	3.5	7.5	ND		ND		**32**	J	ND		ND		ND	ND		ND		ND		ND	
SVOCs																						
Pentachlorophenol	ug/kg	40	86	110	J	ND		ND		ND		ND		ND	ND		ND		NA		NA	
Carbazole	ug/kg	-		79	J	420	J	130	J	180	J	110	J	ND	ND		ND		NA		NA	
Dibenzofuran	ug/kg	-		ND		200	J	ND		ND		ND		ND	ND		ND		NA		NA	
Total PAHs	ug/kg	-		7300	J	30000	J	12000	J	18000	J	8600	J	530	3000	J	1700	J	NA		NA	
Pesticides																						
4,4'-DDD	ug/kg	0.01	0.02	ND		ND		ND		ND		ND		ND	ND		ND		ND		**26**	J
4,4'-DDT	ug/kg	0.01	0.02	ND		ND		ND		ND		ND		ND	ND		ND		ND		**40**	J
PCBs																						
Aroclor-1242	ug/kg	0.0008	0.002	**2200**	J	**1200**		**1200**		**2000**		ND		ND	**370**		ND		ND		ND	
Aroclor-1248	ug/kg	0.0008	0.002	ND		ND		ND		ND		**570**		ND	ND		ND		**770**		**7100**	
Aroclor-1254	ug/kg	0.0008	0.002	ND		ND		ND		ND		ND		ND	ND		ND		**570**	J	**3100**	
Metals																						
Aluminum	mg/kg	-		2790		4120		6710		6060		6050		10300	6160		1080		NA		NA	
Antimony	mg/kg	2		ND		ND		ND		ND		ND		**91.5**	ND		ND		NA		NA	
Arsenic	mg/kg	6		2.9		5.4		5.2		**6.5**		**8.9**		**40.9**	4		**117**		NA		NA	
Barium	mg/kg	-		40.2		54.5		93.4		78.9		75.8		198	347		237		NA		NA	
Beryllium	mg/kg	-		ND		ND		0.42		ND		ND		ND	ND		ND		NA		NA	
Cadmium	mg/kg	0.6		ND		ND		**2.2**		**1.7**		ND		ND	**7.4**		ND		NA		NA	
Calcium	mg/kg	-		103000		48900		59800		59700		52700		69000	56200		86500		NA		NA	
Chromium	mg/kg	26		**28.3**		**29**		**44.3**		**56.6**		**34**		**28.1**	**109**		ND		NA		NA	
Cobalt	mg/kg	16		4.5		6.2		6.5		6		5.9		14.6	**17.9**		7.9		NA		NA	
Copper	mg/kg	-		70.7		56.2		76.6		82.1		54.3		47.6	146		16.9		NA		NA	
Iron	mg/kg	2,000,000		12100		11500		13000		14900		15800		34200	54500		24400		NA		NA	
Lead	mg/kg	31		**83.5**		**72.1**		**84.2**		**81.3**		**98**		**61.8**	**151**		**35.6**		NA		NA	
Magnesium	mg/kg	-		12500		12400		15700		15200		15700		20800	2080		5360		NA		NA	
Manganese	mg/kg	460		223		222		247		274		356		**476**	363		129		NA		NA	
Nickel	mg/kg	16		16		**19.5**		**40**		**27**		**21.6**		**40.9**	**51.8**		11.8		NA		NA	
Potassium	mg/kg	-		429		813		1780		1350		1580		3070	1400		ND		NA		NA	
Selenium	mg/kg	-		ND		0.46		ND		ND		ND		ND	ND		ND		NA		NA	
Silver	mg/kg	1		ND		ND		ND		ND		ND		**5.2**	ND		ND		NA		NA	
Sodium	mg/kg	-		ND		ND		ND		ND		ND		ND	741		806		NA		NA	
Thallium	mg/kg	-		ND		ND		0.43		ND		ND		ND	ND		ND		NA		NA	
Vanadium	mg/kg	-		9.7		13.7		22.2		20.6		179		33.7	22		5.5		NA		NA	
Zinc	mg/kg	120		**133**		**176**		**223**		**246**		**262**		**223**	**304**		73.3		NA		NA	
Cyanide	mg/kg	-		0.82		1.4		ND		ND		ND		3.4	ND		ND		NA		NA	

Notes:
1. Shaded, Boldface Values Exceed Guidance Values determined according to the NYSDEC's Technical Guidance for Screening Contaminated Sediments 1998.
2. Values shown for VOCs, SVOCs, Pesticides, and PCBs have units of ug/g-oc (oc=organic carbon). Values shown for metals have units of mg/kg and are based on lowest effect level.
3. Site-Specific Standards for organic compounds have units of ug/kg and were calculated using sediment criteria for protection of human health and site-specific organic carbon content of 2151 mg/kg from 1998 RI data. If no criteria existed for protection of human health, next most stringent criteria used.

OnondagaLake_0000822_0003

OnondagaLake_0000822_0004

TABLE 1-8
SUMMARY OF PARAMETERS DETECTED
LEY CREEK SEDIMENT SAMPLES
NYSDEC (1996-1997)

LOCATION		Sediment	Site Specific	L-6		L-7		L-8		L-107		L-108		L-109		L-110	
VOCs	Units	Criteria[2]	Standard[3]														
2-Butanone	ug/kg	-		65		ND		ND		ND		78		NA		NA	
Acetone	ug/kg	-		190		65	J	ND		18		240		NA		NA	
Benzene	ug/kg	0.6	24.1	ND		ND		ND		ND		3	J	NA		NA	
Carbon disulfide	ug/kg	-		13	J	ND		9	J	2	J	18	J	NA		NA	
Chloromethane	ug/kg	-		ND		ND		ND		ND		10	J	NA		NA	
Cyclotetrasiloxane	ug/kg	-		48	JN	ND		ND		ND		ND		NA		NA	
Vinyl chloride	ug/kg	0.07	2.81	ND		ND		ND		**3**	J	ND		NA		NA	
Methylene chloride	ug/kg	-		ND		ND		ND		4	JB	ND		NA		NA	
1,2-Dichloroethene	ug/kg	0.02	0.80	ND		ND		ND		**8**	J	ND		NA		NA	
Xylene (total)	ug/kg	-		ND		ND		ND		3	J	31		NA		NA	
Ethylbenzene	ug/kg	-		ND		ND		ND		4	J	ND		NA		NA	
SVOCs																	
1,4-Dichlorobenzene	ug/kg	12	482	ND		67	J	ND		ND		160	J	NA		NA	
1,2-Dichlorobenzene	ug/kg	12	482	ND		ND		ND		440		450	J	NA		NA	
2-Methylnaphthalene	ug/kg	-		ND		97	J	ND		140	J	670	J	NA		NA	
4-Methylphenol	ug/kg	-		ND		62	J	ND		ND		ND		NA		NA	
Bis(2-ethylhexyl)phthalate	ug/kg	199.5	8020	2700	JD	830		ND		ND		7500	BD	NA		NA	
Carbazole	ug/kg	-		610	JD	260	J	58	J	900		320	J	NA		NA	
Acenaphthene	ug/kg	140	5628	400	JD	190	J	ND		680	JD	960		NA		NA	
Acenaphthylene	ug/kg	-		540	JD	280	J	150	J	600	JD	2300		NA		NA	
Anthracene	ug/kg	-		1400	JD	580		140	J	2200		1900		NA		NA	
Benzo(a)anthracene	ug/kg	140	5628	4100	D	1890		610		**7200**	D	5300		NA		NA	
Benzo(a)pyrene	ug/kg	1.3	52.3	**3900**	D	**1890**		**600**		**6900**	D	**4800**		NA		NA	
Benzo(b)fluoranthene	ug/kg	140	5628	4200	D	2320		520		**7800**	D	**9200**	D	NA		NA	
Benzo(g,h,i)perylene	ug/kg	-		2300	JD	1310		420	J	1900		2000		NA		NA	
Benzo(k)fluoranthene	ug/kg	140	5628	3600	D	1890		620		ND		ND		NA		NA	
Chrysene	ug/kg	140	5628	5000	D	2470		640		**8800**	D	**12000**	D	NA		NA	
Dibenzofuran	ug/kg	-		ND		110	J	ND		440		970		NA		NA	
Dibenz(a,h)anthracene	ug/kg	-		ND		ND		93	J	ND		430	J	NA		NA	
Fluoranthene	ug/kg	1020	41004	8500	D	3200		890		16000	D	16000	D	NA		NA	
Fluorene	ug/kg	-		760	JD	300	J	67	J	1100		2600		NA		NA	
Indeno(1,2,3-cd)pyrene	ug/kg	140	5628	2400	JD	1340		400	J	2100		2000		NA		NA	
Naphthalene	ug/kg	-		ND		132	J	ND		140	J	640	J	NA		NA	
Phenanthrene	ug/kg	120	4824	**5500**	D	1740		360	J	**8900**	D	3300		NA		NA	
Pyrene	ug/kg	-		8300	D	3920		1300		13000	D	21000	D	NA		NA	
2-Pentanone-4-Hydroxy-4 Met	ug/kg	-		36000		ND		ND		ND		ND		NA		NA	
Pesticides/PCBs																	
Aroclor 1016	ug/kg	0.0008	0.032	**64**	X	**5810**	X	**51**	X	ND		**230000**	DP	ND		ND	
Aroclor 1242	ug/kg	0.0008	0.032	**6300**	D	**36300**	D	**19**	J	ND		ND		ND		ND	
Aroclor 1248	ug/kg	0.0008	0.032	ND		ND		ND		**8000**	D	ND		**6700**	D	**360000**	D
Aroclor 1254	ug/kg	0.0008	0.032	**2100**	JD	**2900**	JD	**19**	J	ND		ND		ND		ND	
Aroclor 1260	ug/kg	0.0008	0.032	**640**		**1130**	JD	**35**	J	**310**		**7400**	JD	**230**	P	**13000**	JD
Metals [1]																	
Aluminum	mg/kg	-		5340		5540	*	9150		3440		12800		NA		NA	
Antimony	mg/kg	2		1.5	BJ	1.7	BJN			ND		**27.6**	N	NA		NA	
Arsenic	mg/kg	6		5.5		4.6		5.2		ND		**20.5**		NA		NA	
Barium	mg/kg	-		92.6		86.7		47.1	B	61.2		257		NA		NA	
Beryllium	mg/kg	-		0.37	B	0.38	B	0.49	B	0.3	B	0.97	B	NA		NA	
Cadmium	mg/kg	0.6		**2.4**		**2.5**		0.39	B	ND		**5.7**		NA		NA	
Calcium	mg/kg	-		58300		43900		11200		188000		57800		NA		NA	
Chromium	mg/kg	26		**146**		**164**		16.7		**138**		**6290**		NA		NA	
Cobalt	mg/kg	-		6.8	B	5.8	B	7.8	B	3.1	B	10.5	B	NA		NA	
Copper	mg/kg	16		**128**	NJ*	**104**	N*J	**28.3**	N*J	**223**		**1170**		NA		NA	
Cyanide	mg/kg	-		1.6		ND		NA		ND		9.1		NA		NA	
Iron	mg/kg	2,000,000		14400	*	13000	*	18700	*	9480		22000		NA		NA	
Lead	mg/kg	31		**122**		**122**		29.1		**123**		**514**		NA		NA	
Magnesium	mg/kg	460		**11400**		**9940**		**5100**		**27600**		**13900**		NA		NA	
Maganese	mg/kg	-		267		246		180		360		284	N	NA		NA	
Mercury	mg/kg	0.15		**0.2**	NJ	**0.17**	NJ	0.11	BNJ	ND		**0.52**		NA		NA	
Nickel	mg/kg	16		**54.1**		**52.6**		13.6		**38**		**1460**		NA		NA	
Potassium	mg/kg	-		991	B	1020	B	2040		730	B	2360		NA		NA	
Selenium	mg/kg			0.66	B	ND		NA		ND		ND		NA		NA	
Silver	mg/kg	1		**1.2**	B	**1.4**	B	**1.3**	B	ND		**6.2**		NA		NA	
Sodium	mg/kg	-		341	B	330	B	171	B	206	B	364	B	NA		NA	
Thallium	mg/kg			NA		NA		0.6	B	ND		1.8	B	NA		NA	
Vanadium	mg/kg	-		17.4	B	17	B	18.9		12.4	B	42.3		NA		NA	
Zinc	mg/kg	120		**294**	NR	ND		NA		**381**		**817**		NA		NA	
Total Organic Carbon	mg/kg									40200		126000					

Notes:

1. Shaded, Boldface Values Exceed Guidance Values determined according to the NYSDEC's Technical Guidance for Screening Contaminated Sediments 1998.
2. Values shown for VOCs, SVOCs, Pesticides, and PCBs have units of ug/g-oc (oc=organic carbon). Values shown for metals have units of mg/kg and are based on lowest effect level.
3. Site-Specific Standards for organic compounds have units of ug/kg and were calculated using sediment criteria for protection of human health and site-specific organic carbon content of 40200 mg/kg. If no criteria existed for protection of human health, next most stringent criteria used.

TABLE 3-1
RESULTS OF PHYSICAL CHARACTERIZATION
SALINA LANDFILL – LEY CREEK

Approximate location	**Upstream** Station #1	**Upper middle** Station #2	**Lower middle** Station #3	**Downstream** Station #4
Date sampled	23 July 98	23 July 98	23 July 98	23 July 98
Temperature ºC	21.0ºC	21.0ºC	21.1ºC	21.4ºC
Conductivity µmhos	136	130	132	137
Dissolved oxygen mg/λ	5.7	5.8	5.6	5.4
pH	7.3	7.7	7.8	7.8
Turbidity	Not taken	Not taken	Not taken	Not taken
Stream depth (inches)	18"	16"	13"	20"
Stream width (feet)	30'	65'	70'	70'
Stream flow (cfs)	50-60	50-60	50-60	50-60
Canopy cover (%)	15	10	5	5
Vegetation*				
Suspended algae	none	none	none	none
Filamentous algae	none	none	none	none
Diatoms	none	none	none	none
Macrophytes	none	some	some	some
Substrate*				
Rock (%)	0	0	0	0
Rubble (%)	0	0	0	0
Gravel (%)	20	20	0	0
Sand (%)	80	70	40	20**
Silt (%)	0	10	60	80

Turbidity was not taken due to heavy rain before the survey creating very turbid waters.

*Vegetation and substrate characteristics based on visual observations.

**Fine sand

OnondagaLake_0000822_0005

OnondagaLake_0000822_0006

TABLE 7-7
TOWN OF SALINA LANDFILL
SEDIMENT SUMMARY STATISTICS FOR THE ECOLOGICAL RISK ASSESSMENT

ANALYTE	Number of Times Detected	Total Number of Samples	Detection Frequency	Minimum Concentration	Maximum Concentration
VOCs (ug/kg)					
Acetone	9	10	90%	24.05 (1)	137.57
Methylene chloride	3	10	30%	3.33 (1)	6.77
Xylene (total	1	10	10%	4.74	4.74
SVOCs (ug/kg)					
2,4-Dinitropheno	1	10	10%	2000.00	2000.00
2,4-Dinitrotoluene	1	10	10%	2000.00 (1)	2000.00
Acenaphthene	3	10	30%	300.00 (1)	2900.00
Acenaphthylene	5	10	50%	400.00 (1)	1050.00
Anthracene	8	10	80%	310.00 (1)	2550.00
Benzo(a)anthracene	8	10	80%	1230.00 (1)	9100.00
Benzo(a)pyrene	8	10	80%	1090.00 (1)	7450.00
Benzo(b)fluoranthene	8	10	80%	1560.00 (1)	11700.00
Benzo(ghi)perylene	7	10	70%	270.00 (1)	2000.00
Benzo(k)fluoranthene	7	10	70%	470.00 (1)	2700.00
Bis(2-ethylhexyl)phthalate	9	10	90%	110.00 (1)	8000.00
Carbazole	3	10	30%	400.00 (1)	900.00
Chrysene	8	10	80%	1250.00 (1)	10150.00
Dibenzo(a,h)anthracene	4	10	40%	500.00 (1)	900.00
Dibenzofuran	1	10	10%	600.00 (1)	600.00
Di-n-butyl phthalate	2	10	20%	70.00 (1)	1800.00
Fluoranthene	8	10	80%	2940.00 (1)	19150.00
Fluorene	6	10	60%	600.00 (1)	4100.00
Indeno(1,2,3-cd)pyrene	7	10	70%	400.00 (1)	3200.00
Phenanthrene	8	10	80%	1010.00 (1)	9500.00
Pyrene	8	10	80%	1920.00 (1)	23700.00
PEST/PCBs (ug/kg)					
Aroclor-1248	8	10	80%	2100.00 (1)	81000.00
Aroclor-1260	8	10	80%	280.00 (1)	4800.00
INORGANICS (mg/kg)					
Aluminum	10	10	100%	2087.17	28287.67
Arsenic	10	10	100%	5.27	25.74
Barium	10	10	100%	58.40	387.52
Beryllium	6	10	60%	0.35 (1)	1.62
Cadmium	10	10	100%	5.28	83.68
Calcium	10	10	100%	35407.43	144801.55
Chromium	10	10	100%	5.29	1766.68
Cobalt	10	10	100%	1.73	31.12
Copper	10	10	100%	12.71	498.16
Iron	10	10	100%	7399.83	57252.37
Lead	1	10	10%	8.15	8.15
Magnesium	10	10	100%	3233.20	37003.86
Manganese	10	10	100%	181.46	1132.51
Mercury	8	10	80%	0.15 (1)	0.74
Nickel	9	10	90%	11.41	363.00
Potassium	10	10	100%	218.0	4895.68
Selenium	1	10	10%	1.97	1.97
Silver	8	10	80%	1.72 (1)	8.69
Sodium	9	10	90%	1165.51	4665.88
Thallium	1	10	10%	2.28	2.28
Vanadium	10	10	100%	11.82	76.71
Zinc	10	10	100%	44.06	1185.11
Cyanide	7	10	70%	2.24 (1)	11.67

(1) Minimum value was actually non-detect. Value shown is the minimum of the samples in which the contaminant was detected.

TOWN OF SALINA LANDFILL
ANALYTICAL RESULTS
SEDIMENT

(Page 1 of 6)

Sample ID		SED-20		SED-20D		SED-21		SED-21D		SED-22		SED-22D	
Lab Sample Number		A8356403		A8356404		A8356405		A8356406		A8356407		A8356408	
Sample Date		08/26/98		08/26/98		08/26/98		08/26/98		08/26/98		08/26/98	
	Units	Lab	Validated	Lab	Validated	Lab	Validated	Lab	Validated	Lab	Validated	Lab	Validated
TCL Volatile Organics													
1,1,1-Trichloroethane	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
1,1,2,2-Tetrachloroethane	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
1,1,2-Trichloroethane	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
1,1-Dichloroethane	ug/kg	14 U	15 UJ	17 U	17 UJ	16 U	16 UJ	16 U	16 UJ	16 U	16 UJ	14 U	14 UJ
1,1-Dichloroethene	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
1,2-Dichloroethane	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
1,2-Dichloroethene (total)	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
1,2-Dichloropropane	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
2-Butanone	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
2-Hexanone	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
4-Methyl-2-Pentanone	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	12 J	14 U
Acetone	ug/kg	14	14	14 J	14 J	37	37	32	32	26	26	24	24
Benzene	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
Bromodichloromethane	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
Bromoform	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
Bromomethane	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
Carbon Disulfide	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
Carbon Tetrachloride	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
Chlorobenzene	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
Chloroethane	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
Chloroform	ug/kg	14 U	15 UJ	17 U	17 UJ	16 U	16 UJ	16 U	16 UJ	16 U	16 UJ	14 U	14 UJ
Chloromethane	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
cis-1,3-Dichloropropene	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
Dibromochloromethane	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
Ethylbenzene	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
Methylene Chloride	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
Styrene	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
Tetrachloroethene	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
Toluene	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
trans-1,3-Dichloropropene	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
Trichloroethene	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
Vinyl Chloride	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	16 U	16 U	14 U	14 U
Xylene (total)	ug/kg	14 U	15 U	17 U	17 U	16 U	16 U	16 U	16 U	5 J	5 J	14 U	14 U

OnondagaLake_0000822_0007

TOWN OF SALINA LANDFILL
ANALYTICAL RESULTS
SEDIMENT

Sample ID		SED-23		SED-23D		SED-24		SED-24D		SED-25		SED-25D	
Lab Sample Number		A8359701		A8359702		A8359703		A8359704		A8356401		A8356402	
Sample Date		08/27/98		08/27/98		08/27/98		08/27/98		08/26/98		08/26/98	
	Units	Lab	Validated	Lab	Validated	Lab	Validated	Lab	Validated	Lab	Validated	Lab	Validated
TCL Volatile Organics													
1,1,1-Trichloroethane	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
1,1,2,2-Tetrachloroethane	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
1,1,2-Trichloroethane	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
1,1-Dichloroethane	ug/kg	16 U	16 UJ	17 U	17 UJ	33 U	33 U	36 U	36 U	48 U	49 UJ	47 U	47 UJ
1,1-Dichloroethene	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
1,2-Dichloroethane	ug/kg	16 U	16 U	17 U	17 U	33 U	33 UJ	36 U	36 UJ	48 U	49 U	47 U	47 U
1,2-Dichloroethene (total)	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
1,2-Dichloropropane	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
2-Butanone	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
2-Hexanone	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
4-Methyl-2-Pentanone	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
Acetone	ug/kg	16 U	16 U	26	26	140	138	78	78	50	50	71	71
Benzene	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
Bromodichloromethane	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
Bromoform	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
Bromomethane	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
Carbon Disulfide	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
Carbon Tetrachloride	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
Chlorobenzene	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
Chloroethane	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
Chloroform	ug/kg	16 U	16 UJ	17 U	17 UJ	33 U	33 UJ	36 U	36 UJ	48 U	49 UJ	47 U	47 UJ
Chloromethane	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
cis-1,3-Dichloropropene	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
Dibromochloromethane	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
Ethylbenzene	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
Methylene Chloride	ug/kg	16 U	16 U	17 U	17 U	3 J	3 J	4 J	4 J	7 J	7 J	47 U	47 U
Styrene	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
Tetrachloroethene	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
Toluene	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
trans-1,3-Dichloropropene	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
Trichloroethene	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
Vinyl Chloride	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U
Xylene (total)	ug/kg	16 U	16 U	17 U	17 U	33 U	33 U	36 U	36 U	48 U	49 U	47 U	47 U

OnondagaLake_0000822_0008

TOWN OF SALINA LANDFILL
ANALYTICAL RESULTS
SEDIMENT

Sample ID Lab Sample Number Sample Date	Units	SED-20 A8356403 08/26/98		SED-20D A8356404 08/26/98		SED-21 A8356405 08/26/98		SED-21D A8356406 08/26/98		SED-22 A8356407 08/26/98		SED-22D A8356408 08/26/98	
		Lab	Validated	Lab	Validated	Lab	Validated	Lab	Validated	Lab	Validated	Lab	Validated
TCL Semivolatile Organics													
1,2,4-Trichlorobenzene	ug/kg	3,400 U	3,500 U	2300 U	2300 U	2600 U	2650 UR	3300 U	3500 U	2400 U	2450 U	5600 U	5800 U
1,2-Dichlorobenzene	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
1,3-Dichlorobenzene	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
1,4-Dichlorobenzene	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5600 U	5800 U
2,4,5-Trichlorophenol	ug/kg	8,400 U	8,800 U	5500 U	5750 UJ	6400 U	6650 UJ	8000 U	8750 U	5800 U	6100 U	14000 U	14400 U
2,4,6-Trichlorophenol	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
2,4-Dichlorophenol	ug/kg	3,400 U	3,500 U	2300 U	2300 U	2600 U	2650 UR	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
2,4-Dimethylphenol	ug/kg	3,400 U	3,500 U	2300 U	2300 U	2600 U	2650 UR	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
2,4-Dinitrophenol	ug/kg	8,400 U	8,800 U	5500 U	5750 UJ	6400 U	6650 UJ	8000 U	8750 U	5800 U	6100 U	2000 J	2000 J
2,4-Dinitrotoluene	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	2000 J	2000 J
2,6-Dinitrotoluene	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
2-Chloronaphthalene	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
2-Chlorophenol	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5600 U	5800 U
2-Methylnaphthalene	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UR	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
2-Methylphenol	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
2-Nitroaniline	ug/kg	8,400 U	8,800 U	5500 U	5750 UJ	6400 U	6650 UJ	8000 U	8750 U	5800 U	6100 U	14000 U	14400 U
2-Nitrophenol	ug/kg	3,400 U	3,500 U	2300 U	2300 U	2600 U	2650 UR	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
3,3'-Dichlorobenzidine	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 U	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
3-Nitroaniline	ug/kg	8,400 U	8,800 U	5500 U	5750 UJ	6400 U	6650 UJ	8000 U	8750 U	5800 U	6100 U	14000 U	14400 U
4,6-Dinitro-2-methylphenol	ug/kg	8,400 U	8,800 U	5500 U	5750 UJ	6400 U	6650 UJ	8000 U	8750 U	5800 U	6100 U	14000 U	14400 U
4-Bromophenyl-phenylether	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
4-Chloro-3-methylphenol	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UR	3300 U	3500 U	2400 U	2450 U	5600 U	5800 U
4-Chloroaniline	ug/kg	3,400 U	3,500 U	2300 U	2300 U	2600 U	2650 UR	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
4-Chlorophenyl-phenylether	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
4-Methylphenol	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
4-Nitroaniline	ug/kg	8,400 U	8,800 U	5500 U	5750 UJ	6400 U	6650 UJ	8000 U	8750 U	5800 U	6100 U	14000 U	14400 U
4-Nitrophenol	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5600 U	5800 U
Acenaphthene	ug/kg	3,400 U	3,500 U	230 J	250 J	290 J	300 J	3300 U	3500 U	2900	2900	5600 U	5800 U
Acenaphthylene	ug/kg	630 J	650 J	280 J	300 J	520 J	500 J	380 J	400 J	1000 J	1050 J	590 J	600 J
Anthracene	ug/kg	800 J	800 J	550 J	550 J	1100 J	1150 J	830 J	850 J	2500	2550	1200 J	1200 J
Benzo(a)anthracene	ug/kg	3,300 J	3,300 J	2400	2400 J	4800	4750	2700 J	2950 J	9000	9100	4100 J	4100 J
Benzo(a)pyrene	ug/kg	3,900	3,950	2600	2600 J	4800	4850	3100 J	3200 J	7400	7450	4400 J	4500 J
Benzo(b)fluoranthene	ug/kg	6,000	6,000	3200	3200 J	11000	11200	4700	4900	12000	11700	7100	7200
Benzo(g,h,i)perylene	ug/kg	1,100 J	1,100 J	760 J	750 J	2600 U	2650 U	1200 J	1250 J	2000 J	2000 J	1400 J	1500 J
Benzo(k)fluoranthene	ug/kg	1,600 J	1,550 J	1200 J	1200 J	2600 U	2650 U	1600 J	1700 J	2200 J	2200 J	2700 J	2700 J
bis(2-Chloroethoxy)methane	ug/kg	3,400 U	3,500 U	2300 U	2300 U	2600 U	2650 UR	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
bis(2-Chloroethyl)Ether	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
bis(2-Chloroisopropyl)ether	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
Bis(2-Ethylhexyl)phthalate	ug/kg	4,200	4,250	2500	2550 J	5800	5800	3000 J	3200 J	690 J	700 J	6100	6200
Butylbenzylphthalate	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 U	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
Carbazole	ug/kg	370 J	350 J	2300 U	2300 UJ	420 J	400 J	3300 U	3500 U	880 J	900 J	5700 U	5800 U
Chrysene	ug/kg	4,800	4,900	3200	3150 J	6600	6600	4100	4250	10000	10150	6200	6300
Dibenz(a,h)anthracene	ug/kg	380 J	400 J	2300 U	2300 J	2600 U	2650 U	460 J	500 J	960 J	900 J	570 J	600 J
Dibenzofuran	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	580 J	600 J	5700 U	5800 U
Diethylphthalate	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
Dimethylphthalate	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
Di-n-Butylphthalate	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	1800 J	1800 J
Di-n-octylphthalate	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 U	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
Fluoranthene	ug/kg	8,000	8,100	6000	6050 J	11000	11250 J	6600	6900	19000	19150	11000	10700
Fluorene	ug/kg	3,400 U	3,400 U	310 J	300 J	990 J	1000 J	640 J	650 J	4100	4100	820 J	800 J
Hexachlorobenzene	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
Hexachlorobutadiene	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UR	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
Hexachlorocyclopentadiene	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
Hexachloroethane	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
Indeno(1,2,3-cd)pyrene	ug/kg	1,600 J	1,600 J	1200 J	1200 J	2600 U	2650 U	1700 J	1800 J	3200	3200	2300 J	2300 J
Isophorone	ug/kg	3,400 U	3,500 U	2300 U	2300 U	2600 U	2650 UR	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
Naphthalene	ug/kg	3,400 U	3,500 U	2300 U	2300 U	2600 U	2650 UR	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
Nitrobenzene	ug/kg	3,400 U	3,500 U	2300 U	2300 U	2600 U	2650 UR	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
N-Nitroso-di-n-propylamine	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5600 U	5800 U
N-Nitrosodiphenylamine (1)	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5700 U	5800 U
Pentachlorophenol	ug/kg	8,400 U	8,800 U	5500 U	5750 UJ	6400 U	6650 UJ	8000 U	8750 U	5800 U	6100 U	14000 U	14400 U
Phenanthrene	ug/kg	2,900 J	2,950 J	1200 J	1200 J	5700	5700	3800	3950	9400	9500	5200 J	5300 J
Phenol	ug/kg	3,400 U	3,500 U	2300 U	2300 UJ	2600 U	2650 UJ	3300 U	3500 U	2400 U	2450 U	5600 U	5800 U
Pyrene	ug/kg	7,600	7,700	5300	5350 J	24000 E	23700 EJ	7100	7400	19000	19400	8000	8200

OnondagaLake_0000822_0009

TOWN OF SALINA LANDFILL
ANALYTICAL RESULTS
SEDIMENT

Sample ID		SED-23		SED-23D		SED-24		SED-24D		SED-25		SED-25D	
Lab Sample Number		A8359701		A8359702		A8359703		A8359704		A8356401		A8356402	
Sample Date		08/27/98		08/27/98		08/27/98		08/27/98		08/26/98		08/26/98	
	Units	Lab	Validated	Lab	Validated	Lab	Validated	Lab	Validated	Lab	Validated	Lab	Validated
TCL Semivolatile Organics													
1,2,4-Trichlorobenzene	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
1,2-Dichlorobenzene	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
1,3-Dichlorobenzene	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
1,4-Dichlorobenzene	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
2,4,5-Trichlorophenol	ug/kg	8100 U	8500 U	6700 U	6950 U	120000 U	135500 U	3600 U	3910 U	1200 U	1300 U	4300 U	4680 U
2,4,6-Trichlorophenol	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
2,4-Dichlorophenol	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
2,4-Dimethylphenol	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
2,4-Dinitrophenol	ug/kg	8100 U	8500 U	6700 U	6950 U	120000 U	135500 U	3600 U	3910 U	1200 U	1300 U	4300 U	4680 U
2,4-Dinitrotoluene	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
2,6-Dinitrotoluene	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
2-Chloronaphthalene	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
2-Chlorophenol	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
2-Methylnaphthalene	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
2-Methylphenol	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
2-Nitroaniline	ug/kg	8100 U	8500 U	6700 U	6950 U	120000 U	135500 U	3600 U	3910 U	1200 U	1300 U	4300 U	4680 U
2-Nitrophenol	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
3,3'-Dichlorobenzidine	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
3-Nitroaniline	ug/kg	8100 U	8500 U	6700 U	6950 U	120000 U	135500 U	3600 U	3910 U	1200 U	1300 U	4300 U	4680 U
4,6-Dinitro-2-methylphenol	ug/kg	8100 U	8500 U	6700 U	6950 U	120000 U	135500 U	3600 U	3910 U	1200 U	1300 U	4300 U	4680 U
4-Bromophenyl-phenylether	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
4-Chloro-3-methylphenol	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
4-Chloroaniline	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
4-Chlorophenyl-phenylether	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
4-Methylphenol	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
4-Nitroaniline	ug/kg	8100 U	8500 U	6700 U	6950 U	120000 U	135500 U	3600 U	3910 U	1200 U	1300 U	4300 U	4680 U
4-Nitrophenol	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
Acenaphthene	ug/kg	3300 U	3400 U	340 J	350 J	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
Acenaphthylene	ug/kg	3300 U	3400 U	510 J	500 J	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
Anthracene	ug/kg	370 J	400 J	820 J	800 J	2100 J	2000 J	300 J	310 J	490 U	510 U	1800 U	1840 U
Benzo(a)anthracene	ug/kg	2000 J	2050 J	3900	3950	4100 J	4500 J	1000 J	1230 J	490 U	520 U	1800 U	1870 U
Benzo(a)pyrene	ug/kg	2400 J	2400 J	4400	4350	3600 J	4000 J	1000 J	1090 J	490 U	520 U	1800 U	1870 U
Benzo(b)fluoranthene	ug/kg	3300	3400	6900	6850	5300 J	5500 J	1600	1560	490 U	520 U	1800 U	1870 U
Benzo(g,h,i)perylene	ug/kg	780 J	800 J	1300 J	1300 J	1300 J	1500 J	260 J	270 J	490 U	520 U	1800 U	1870 U
Benzo(k)fluoranthene	ug/kg	1500 J	1500 J	2500 J	2500 J	2200 J	2500 J	450 J	470 J	490 U	520 U	1800 U	1870 U
bis(2-Chloroethoxy)methane	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
bis(2-Chloroethyl)Ether	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
bis(2-Chloroisopropyl)ether	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
Bis(2-Ethylhexyl)phthalate	ug/kg	960 J	950 J	2800	2800	7700 J	8000 J	390 J	420 J	100 J	110 J	1800 U	1870 U
Butylbenzylphthalate	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
Carbazole	ug/kg	3300 U	3400 U	380 J	400 J	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
Chrysene	ug/kg	2800 J	2900 J	4900	4900	6200 J	6500 J	1200 J	1250 J	490 U	520 U	1800 U	1870 U
Dibenz(a,h)anthracene	ug/kg	3300 U	3400 U	560 J	550 J	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
Dibenzofuran	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
Diethylphthalate	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
Dimethylphthalate	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
Di-n-Butylphthalate	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	64 J	70 J	1800 U	1870 U
Di-n-octylphthalate	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
Fluoranthene	ug/kg	5000	5000	8800	8750	11000 J	11500 J	2700	2940	490 U	520 U	1800 U	1870 U
Fluorene	ug/kg	3300 U	3300 U	600 J	600 J	1200 J	1000 J	1500 U	1520 U	490 U	510 U	1800 U	1820 U
Hexachlorobenzene	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
Hexachlorobutadiene	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
Hexachlorocyclopentadiene	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
Hexachloroethane	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
Indeno(1,2,3-cd)pyrene	ug/kg	1300 J	1300 J	1900 J	1900 J	2100 J	2000 J	380 J	400 J	490 U	520 U	1800 U	1870 U
Isophorone	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
Naphthalene	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
Nitrobenzene	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
N-Nitroso-di-n-propylamine	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
N-Nitrosodiphenylamine (1)	ug/kg	3300 U	3400 U	2800 U	2800 U	51000 U	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1870 U
Pentachlorophenol	ug/kg	8100 U	8500 U	6700 U	6950 U	120000 U	135500 U	3600 U	3910 U	1200 U	1300 U	4300 U	4680 U
[illegible]anthrene	ug/kg	2200 J	2200 J	4500	4500	780[illegible]	8000 J	950 J	1010 J	490 U	520 U	1800 U	187[illegible]
[illegible]	ug/kg	3300 U	3400 U	2800 U	2800 U	510[illegible]	54000 U	1500 U	1560 U	490 U	520 U	1800 U	1[illegible]
[illegible]	ug/kg	4300	4300	10000	9950	110[illegible]	11500 J	1800	1920	490 U	520 U	1800 U	1[illegible]

OnondagaLake_0000822_0010

TOWN OF SALINA LANDFILL
ANALYTICAL RESULTS
SEDIMENT

Sample ID		SED-20		SED-20D		SED-21		SED-21D		SED-22		SED-22D	
Lab Sample Number		A8356403		A8356404		A8356405		A8356406		A8356407		A8356408	
Sample Date		08/26/98		08/26/98		08/26/98		08/26/98		08/26/98		08/26/98	
	Units	Lab	Validated	Lab	Validated	Lab	Validated	Lab	Validated	Lab	Validated	Lab	Validated
Pesticides & PCBs													
4,4' - DDD	ug/kg	34 U	34 UJ	450 U	450 UJ	51 U	51 UJ	67 U	67 UJ	34 U	34 UJ	560 U	560 UJ
4,4'- DDE	ug/kg	34 U	34 UJ	450 U	450 UJ	51 U	51 UJ	67 U	67 UJ	34 U	34 UJ	560 U	560 UJ
4,4'-DDT	ug/kg	34 U	34 UJ	450 U	450 UJ	51 U	51 UJ	67 U	67 UJ	34 U	34 UJ	560 U	560 UJ
Aldrin	ug/kg	18 U	18 UJ	230 U	230 UJ	26 U	26 UJ	34 U	34 UJ	12 U	12 UJ	290 U	290 UJ
alpha-Chlordane	ug/kg	18 U	18 UJ	230 U	230 UJ	26 U	26 UJ	34 U	34 UJ	12 U	12 UJ	290 U	290 UJ
BHC-alpha	ug/kg	18 U	18 UJ	230 U	230 UJ	26 U	26 UJ	34 U	34 UJ	12 U	12 UJ	290 U	290 UJ
BHC-beta	ug/kg	18 U	18 UJ	230 U	230 UJ	26 U	26 UJ	34 U	34 UJ	12 U	12 UJ	290 U	290 UJ
BHC-delta	ug/kg	18 U	18 UJ	230 U	230 UJ	26 U	26 UJ	34 U	34 UJ	12 U	12 UJ	290 U	290 UJ
BHC-gamma (Lindane)	ug/kg	18 U	18 UJ	230 U	230 UJ	26 U	26 UJ	34 U	34 UJ	12 U	12 UJ	290 U	290 UJ
Dieldrin	ug/kg	34 U	34 UJ	450 U	450 UJ	51 U	51 UJ	67 U	67 UJ	34 U	34 UJ	560 U	560 UJ
Endosulfan I	ug/kg	18 U	18 UJ	230 U	230 UJ	26 U	26 UJ	34 U	34 UJ	12 U	12 UJ	290 U	290 UJ
Endosulfan II	ug/kg	34 U	34 UJ	450 U	450 UJ	51 U	51 UJ	67 U	67 UJ	34 U	34 UJ	560 U	560 UJ
Endosulfan Sulfate	ug/kg	34 U	34 UJ	450 U	450 UJ	51 U	51 UJ	67 U	67 UJ	34 U	34 UJ	560 U	560 UJ
Endrin	ug/kg	34 U	34 UJ	450 U	450 UJ	51 U	51 UJ	67 U	67 UJ	34 U	34 UJ	560 U	560 UJ
Endrin Aldehyde	ug/kg	34 U	34 UJ	450 U	450 UJ	51 U	51 UJ	67 U	67 UJ	34 U	34 UJ	560 U	560 UJ
Endrin Ketone	ug/kg	34 U	34 UJ	450 U	450 UJ	51 U	51 UJ	67 U	67 UJ	34 U	34 UJ	560 U	560 UJ
gamma-Chlordane	ug/kg	18 U	18 UJ	230 U	230 UJ	26 U	26 UJ	34 U	34 UJ	12 U	12 UJ	290 U	290 UJ
Heptachlor	ug/kg	18 U	18 UJ	230 U	230 UJ	26 U	26 UJ	34 U	34 UJ	12 U	12 UJ	290 U	290 UJ
Heptachlor Epoxide	ug/kg	18 U	18 UJ	230 U	230 UJ	26 U	26 UJ	34 U	34 UJ	12 U	12 UJ	290 U	290 UJ
Methoxychlor	ug/kg	180 U	180 UJ	2300 U	2300 UJ	260 U	260 UJ	340 U	340 UJ	120 U	120 UJ	2900 U	2900 UJ
Toxaphene	ug/kg	1800 U	1800 UJ	23000 U	23000 UJ	2600 U	2600 UJ	3400 U	3400 UJ	1200 U	1200 UJ	29000 U	29000 UJ
Aroclor-1016	ug/kg	340 U	340 UJ	4500 U	4500 UJ	510 U	510 UJ	370 U	370 UJ	340 U	340 UJ	5600 U	5600 UJ
Aroclor-1221	ug/kg	690 U	690 UJ	9100 U	9100 UJ	1000 U	1000 UJ	1400 U	1400 UJ	490 U	490 UJ	1100 U	1100 UJ
Aroclor-1232	ug/kg	340 U	340 UJ	4500 U	4500 UJ	510 U	510 UJ	370 U	370 UJ	340 U	340 UJ	5600 U	5600 UJ
Aroclor-1242	ug/kg	340 U	340 UJ	4500 U	4500 UJ	510 U	510 UJ	370 U	370 UJ	340 U	340 UJ	5600 U	5600 UJ
Aroclor-1248	ug/kg	49000 PD	49000 PDJ	48000 P	48000 PJ	51000 PD	51000 PDJ	73000 PD	73000 PDJ	2400 PD	2400 PDJ	81000 P	81000 PJ
Aroclor-1254	ug/kg	340 U	340 UJ	4500 U	4500 UJ	510 U	510 UJ	370 U	370 UJ	340 U	340 UJ	5600 U	5600 UJ
Aroclor-1260	ug/kg	2300	2300 J	1700	1700 J	2400	2400 J	4800	4800 J	1200	1200 J	4100 J	4100 J
Total Metals Analyses													
Aluminum	mg/kg	11100	11074	6340	6100	8180	8179	7570	7572	8160	8158	7870	7874
Antimony	mg/kg	2.3 UN	2.3 UNJ	1.5 UN	1.5 UNJ	2.4 BN	2.4 UNJ	2.3 UN	2.3 UNJ	2.2 BN	2.2 BNJ	7.5 BN	7.5 BNJ
Arsenic	mg/kg	7	7.0	15.7	15.1	9.6	9.6	8.6	8.6	7.4	7.4	7.2	7.2
Barium	mg/kg	73.8 B	73.8 B	41.6 B	40.0 B	107	107.3	103	102.8	109	108.8	70.3	79.9
Beryllium	mg/kg	0.61 B	0.6 B	0.3 B	0.3 B	0.47 B	0.5 B	0.41 U	0.4 U	0.41 B	0.4 B	0.35 B	0.4 B
Cadmium	mg/kg	13.2	13.2	13.3	12.8	16.7	16.7	15.1	15.1	17.7	17.7	10.5	10.5
Calcium	mg/kg	39700 *	39731 *J	32700 *	31396 *J	35400 *	35407 *J	54000 *	53982 *J	49200 *	49219 *J	67500 *	67533 *J
Chromium	mg/kg	84.3 N*	84 N*J	176 N*	169 N*J	608 N*	608 N*J	372 N*	372 N*J	619 N*	619 N*J	232 N*	232 N*J
Cobalt	mg/kg	10.4 B	10.4 B	6.9 B	6.7 B	7.3 B	7.3 B	7.2 B	7.2 B	6.2 B	6.2 B	6.4 B	6.4 B
Copper	mg/kg	79.7 N*	80 N*J	151 N*	145 N*J	354 N*	354 N*J	197 N*	197 N*J	174 N*	174 N*J	123 N*	123 N*J
Iron	mg/kg	20700	20688	19700	18911	17500	17472	18200	18236	15000	14973	13800	13827
Lead	mg/kg	216 N*	216.2 N*R	66.2 N*	63.7 N*R	207 N*	206.5 N*R	197 N*	196.7 N*R	340 N*	339.8 N*R	124 N*	124.1 N*R
Magnesium	mg/kg	11000 *	11019.01 *J	5560 *	5347.96 *J	8750 *	8750.2714 *J	11100 *	11102 *J	11300 *	11287 *J	24000 *	23996.7 *J
Manganese	mg/kg	712 N	728 NJ	191 N	189 NJ	293 N	301 NJ	361 N	371 NJ	267 N	267 NJ	287 N	296 NJ
Mercury	mg/kg	0.21 U	0.21 U	0.14 U	0.14 U	0.26	0.26	0.20 U	0.20 U	0.30	0.29	0.26	0.26
Nickel	mg/kg	47 N*	47.0 N*J	80.2 N*	80.5 N*J	190 N*	197.1 N*J	120 N*	125.1 N*J	116 N*	119.2 N*J	78.4 N*	81.9 N*J
Potassium	mg/kg	1560 BE	1561 BEJ	1060 BE	1022 BEJ	1170 BE	1169 BEJ	1260 BE	1256 BEJ	1710 E	1708 EJ	1780 E	1779 EJ
Selenium	mg/kg	2.0 U	2.0 U	1.4 U	1.3 U	1.6 U	1.6 U	2.1 U	2.1 U	1.5 U	1.5 U	1.7 U	1.7 U
Silver	mg/kg	0.65 UN	0.7 UNJ	1.2 BN	1.2 BNJ	3.4 N	3.4 NJ	2.3 BN	2.3 BNJ	2.8 BN	2.8 BNJ	1.7 BN	1.7 BNJ
Sodium	mg/kg	2160	2156	1700	1630	1170 B	1166 B	1580 B	1581 B	1250 B	1253 B	1410 B	1411 B
Thallium	mg/kg	2.4 U	2.4 UJ	1.6 U	1.5 UJ	1.8 U	1.8 UJ	2.4 U	2.3 UJ	1.7 U	1.7 UJ	1.9 U	1.9 UJ
Vanadium	mg/kg	22.3	22.3	16.1	15.5	22.1	22.1	21.1	21.1	26.5	26.5	20.2	20.2
Zinc	mg/kg	106 EN	106 ENJ	148 EN	142 ENJ	345 EN	345 ENJ	365 EN	365 ENJ	394 EN	394 ENJ	149 EN	149 ENJ
Cyanide	mg/kg	3.9 N	4 NJ	4 N	4 NJ	2.9 N	3 NJ	6.1 N	6 NJ	8.6 N	9 NJ	2.7 N	3 NJ
Other Parameters													
Total Organic Carbon	mg/kg	1960	1960	1340	1340	1450	1450	1950	1950	1100	1100	1730	1730
% Solids	%	48	48	72	72	63	63	49	49	68	68	58	58

OnondagaLake_0000822_0011

TOWN OF SALINA LANDFILL
ANALYTICAL RESULTS
SEDIMENT

Sample ID		SED-23		SED-23D		SED-24		SED-24D		SED-25		SED-25D	
Lab Sample Number		A8359701		A8359702		A8359703		A8359704		A8356401		A8356402	
Sample Date		08/27/98		08/27/98		08/27/98		08/27/98		08/26/98		08/26/98	
	Units	Lab	Validated	Lab	Validated	Lab	Validated	Lab	Validated	Lab	Validated	Lab	Validated
Pesticides & PCBs													
4,4' - DDD	ug/kg	67 U	67 UJ	53 U	53 UJ	52 U	52 UJ	29 U	29 UJ	5 U	5 UJ	18 U	18 UJ
4,4'- DDE	ug/kg	67 U	67 UJ	53 U	53 UJ	52 U	52 UJ	29 U	29 UJ	5 U	5 UJ	18 U	18 UJ
4,4'-DDT	ug/kg	67 U	67 UJ	53 U	53 UJ	52 U	52 UJ	29 U	29 UJ	5 U	5 UJ	18 U	18 UJ
Aldrin	ug/kg	35 U	35 UJ	28 U	28 UJ	27 U	27 UJ	15 U	15 UJ	2.6 U	2.6 UJ	9.2 U	9.2 UJ
alpha-Chlordane	ug/kg	35 U	35 UJ	28 U	28 UJ	27 U	27 UJ	15 U	15 UJ	2.6 U	2.6 UJ	9.2 U	9.2 UJ
BHC-alpha	ug/kg	35 U	35 UJ	28 U	28 UJ	27 U	27 UJ	15 U	15 UJ	2.6 U	2.6 UJ	9.2 U	9.2 UJ
BHC-beta	ug/kg	35 U	35 UJ	28 U	28 UJ	27 U	27 UJ	15 U	15 UJ	2.6 U	2.6 UJ	9.2 U	9.2 UJ
BHC-delta	ug/kg	35 U	35 UJ	28 U	28 UJ	27 U	27 UJ	15 U	15 UJ	2.6 U	2.6 UJ	9.2 U	9.2 UJ
BHC-gamma (Lindane)	ug/kg	35 U	35 UJ	28 U	28 UJ	27 U	27 UJ	15 U	15 UJ	2.6 U	2.6 UJ	9.2 U	9.2 UJ
Dieldrin	ug/kg	67 U	67 UJ	53 U	53 UJ	52 U	52 UJ	29 U	29 UJ	5 U	5 UJ	18 U	18 UJ
Endosulfan I	ug/kg	35 U	35 UJ	28 U	28 UJ	27 U	27 UJ	15 U	15 UJ	2.6 U	2.6 UJ	9.2 U	9.2 UJ
Endosulfan II	ug/kg	67 U	67 UJ	53 U	53 UJ	52 U	52 UJ	29 U	29 UJ	5 U	5 UJ	18 U	18 UJ
Endosulfan Sulfate	ug/kg	67 U	67 UJ	53 U	53 UJ	52 U	52 UJ	29 U	29 UJ	5 U	5 UJ	18 U	18 UJ
Endrin	ug/kg	67 U	67 UJ	53 U	53 UJ	52 U	52 UJ	29 U	29 UJ	5 U	5 UJ	18 U	18 UJ
Endrin Aldehyde	ug/kg	67 U	67 UJ	53 U	53 UJ	52 U	52 UJ	29 U	29 UJ	5 U	5 UJ	18 U	18 UJ
Endrin Ketone	ug/kg	67 U	67 UJ	53 U	53 UJ	52 U	52 UJ	29 U	29 UJ	5 U	5 UJ	18 U	18 UJ
gamma-Chlordane	ug/kg	35 U	35 UJ	28 U	28 UJ	27 U	27 UJ	15 U	15 UJ	2.6 U	2.6 UJ	9.2 U	9.2 UJ
Heptachlor	ug/kg	35 U	35 UJ	28 U	28 UJ	27 U	27 UJ	15 U	15 UJ	2.6 U	2.6 UJ	9.2 U	9.2 UJ
Heptachlor Epoxide	ug/kg	35 U	35 UJ	28 U	28 UJ	27 U	27 UJ	15 U	15 UJ	2.6 U	2.6 UJ	9.2 U	9.2 UJ
Methoxychlor	ug/kg	350 U	350 UJ	280 U	280 UJ	270 U	270 UJ	150 U	150 UJ	26 U	26 UJ	17 U	17 UJ
Toxaphene	ug/kg	3500 U	3500 UJ	2800 U	2800 UJ	2,700 U	2,700 UJ	1500 U	1500 UJ	260 U	260 UJ	920 U	920 UJ
Aroclor-1016	ug/kg	670 U	670 UJ	530 U	530 UJ	520 U	520 UJ	290 U	290 UJ	50 U	50 UJ	180 U	180 UJ
Aroclor-1221	ug/kg	1400 U	1400 UJ	1100 U	1100 UJ	1,100 U	1,100 UJ	600 U	600 UJ	100 U	100 UJ	360 U	360 UJ
Aroclor-1232	ug/kg	670 U	670 UJ	530 U	530 UJ	520 U	520 UJ	290 U	290 UJ	50 U	50 UJ	180 U	180 UJ
Aroclor-1242	ug/kg	670 U	670 UJ	530 U	530 UJ	520 U	520 UJ	290 U	290 UJ	50 U	50 UJ	180 U	180 UJ
Aroclor-1248	ug/kg	3600 P	3600 PJ	2100 PE	2100 PJ	51000 XPD	51000 XPDJ	2800 PX	2800 PXJ	50 U	50 UJ	180 U	180 UJ
Aroclor-1254	ug/kg	670 U	670 UJ	530 U	530 UJ	520 U	520 UJ	290 U	290 UJ	50 U	50 UJ	180 U	180 UJ
Aroclor-1260	ug/kg	540 PJ	540 PJ	1400	1400 J	3,200 P	3,200 PJ	280 JPX	280 JPX	50 U	50 UJ	180 U	180 UJ
Total Metals Analyses													
Aluminum	mg/kg	5850	5854	8680	8682	21200	21176	28300	28288	5090	5086	2090	2087
Antimony	mg/kg	2.2 UN	2.2 UNJ	2 BN	2.0 BNJ	3.5 UN	3.5 UNJ	4.9 UN	4.9 UNJ	1.7 UN	1.7 UNJ	5.9 UN	5.9 UNJ
Arsenic	mg/kg	7.7	7.7	8.5	8.5	20.8	20.8	25.7	25.7	6.7	6.7	5.3 B	5.3 B
Barium	mg/kg	110	110.2	133	132.8	270	270.2	388	387.5	59.7	59.7	58.4 B	58.4 B
Beryllium	mg/kg	0.39 U	0.4 U	0.51 B	0.5 B	1.2 B	1.2 B	1.6 B	1.6 B	0.3 U	0.3 U	1.1 U	1.1 U
Cadmium	mg/kg	13.1	13.1	20.4	20.4	58.1	58.2	83.7	83.7	6.7	6.7	5.3	5.3
Calcium	mg/kg	60700 *	60718 *J	40800 *	40838 *J	101000 *	101368 *J	145000 *	144802 *J	45900 *	45895 *J	39700 *	39740 *J
Chromium	mg/kg	181 N*	181 N*J	931 N*	931 N*J	1220 N*	1216 N*J	1770 N*	1767 N*J	9.5 BN*	10 N*J	5.3 BN*	5 BN*J
Cobalt	mg/kg	7.5 B	7.5 B	7.3 B	7.3 B	17.9 B	18.0 B	31.1 B	31.1 B	5	5.0 N*J	1.7 B	1.7 B
Copper	mg/kg	132 N*	132 N*J	288 N*	288 N*J	343 N*	343 N*J	498 N*	498 N*J	12.7 N*	13	28.3 N*	28 N*J
Iron	mg/kg	16500	16498	20000	19954	41900	41915	57300	57252	10800	10841 N*R	7400	7400
Lead	mg/kg	167 N*	167.4 N*R	205 N*	205.4 N*R	538 N*	538.1 N*R	761 N*	761.5 N*R	8.1 N*	8.2 *J	6.7 N*	6.7 N*R
Magnesium	mg/kg	11400 *	11406 *J	10700 *	10652 *J	26200 *	26159.4 *J	37000 *	37003.86 *J	9170 *	9174.5009 NJ	3230 B*	3233 B*J
Manganese	mg/kg	334 N	346 NJ	328 N	333 NJ	871 N	889 NJ	1120 N	1133 NJ	283 N	283 N*J	178 N	181 NJ
Mercury	mg/kg	0.20	0.20	0.31	0.31	0.4	0.41	0.74	0.74	0.15 U	0.15 EJ	0.52 U	0.52 U
Nickel	mg/kg	61.1 N*	61.1 N*J	235 N*	235.0 N*J	250 N*	250.0 N*J	363 N*	363.0 N*J	11.4 BN*	11.4 U	11.4 BN*	11.4 BN*J
Potassium	mg/kg	906 E	906 EJ	1510 E	1505 EJ	3650 E	3652 EJ	4900 E	4896 EJ	997 BE	997 BEJ	218 BE	218 BEJ
Selenium	mg/kg	2 U	2.0 BNJ	1.6 U	1.6 U	3.2 U	3.2 U	4.4 U	4.4 U	1.5 U	1.5 U	5.3 U	5.3 U
Silver	mg/kg	1.7 BN	1.7 B	3.8 B	3.8 NJ	5.7 BN	5.7 BNJ	8.7 BN	8.7 BNJ	0.48 UN	0.5 UNJ	1.7 UN	1.7 UNJ
Sodium	mg/kg	1320 B	1319 UJ	1210 U	1208 B	3240	3239	4670	4666	1360 B	1360 B	3850 B	3852 B
Thallium	mg/kg	2.3 U	2.3 ENJ	1.9 EN	1.9 UJ	3.7 U	3.7 UJ	5.1 U	5.1 UJ	1.7 U	1.7 UJ	6.1 U	6.1 UJ
Vanadium	mg/kg	19.6 B	19.6 NJ	26.1 N	26.1	55.9	55.9	76.7	76.7	12 B	11.9 B	11.8 B	11.8 B
Zinc	mg/kg	262 EN	262	409 EN	409 ENJ	850 EN	850 ENJ	1190 EN	1185 ENJ	44.1 EN	44 ENJ	52 EN	52 ENJ
Cyanide	mg/kg	0.87 N	1 U	2.2 N	2 NJ	11.9 N	12 NJ	3.3 N	3 NJ	0.67 UN	1 UNJ	2.7 UN	3 UNJ
Other Parameters													
Total Organic Carbon	mg/kg	1470	1470	1180	1180	3850	3850	2430	2430	5070	5070	2290	2290
% Solids	%	49	49	60	60	31	31	22	22	66	66	18	18

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