ORIGINAL

U.S. EPA - REGION III
REGIONAL RESPONSE CENTER

1650 ARCH STREET
PHILADELPHIA, PA 19103-2029

SDMS DocID 2241223

24 HOUR # (215) 814-9016
FAX # (215) 814-3254

FAX COVER SHEET

TO: (b) (4) [redacted]

NUMBER OF PAGES 2 (including cover sheet)

PHONE #:

FAX #:

FROM: MIKE T.

PHONE #:

COMMENTS: 12th St.

Hope you can read this

"Highest" NOAA Screening level

	17	197	95	127	520
SURFACE SOIL	As	Cu	Cr	Pb	Zn
# 8 -	107	790	232	6890	2550
9 -	50.2	264	185	33,500	4280
10 -	86.5	291	759	9330	2350
12 -	23.5	549	86.4	7780	2900
SEDIMENT					
# 7	23	799	68.8	19,500	1350
11	62	79	160	508	259
10	9.5	202	42.7	277	224
15	6.7	21.2	49.2	181	117
17	9.7	19.8	40.3	461	81.3
14	4.6	16.2	33.9	14.9	56.6
18	29.2	181	89.4	5620	1000
19	4.7	10.8	38.3	21.6	67.1
23	56.9	403	114	3170	1200
27	11	21.3	51.5	36.6	199
28	9.7	18.7	65.5	29.2	199
29	9.2	18.4	46.5	26.5	135

UET - devised by NOAA ~~from~~ as the lowest ACT (Apply to freshwater)

PEL = Probable Effects Levels

PEL = concentration at which adverse biological effects are frequently expected to occur. & are based on benthic community metrics & toxicity test results

ACT = relate chemical concentrations in sediments to synoptic biological indicators of injury (i.e. sediment bioassays or diminished benthic infaunal abundance) = concentration at which adverse biological

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A description of the samples collected from the "12th Street Landfill/Dump Site" located along the Brandywine River near 12th Street, Norfolk Southern railroad, and I-495 in Wilmington, DE, is located below. A summary of the analytical data from samples collected at the Site is also attached. The survey conducted by EPA indicates that the disposal area is located in Tax Parcel 26-045.00-019. Lead is the primary soil contaminant. Drum contents can be characterized by lead, toluene, and 2-methylnaphthalene. EPA is now developing information that will characterize the threats posed by the Site.

12th Street Landfill/Dump Site
Removal Assessment, August 1999
SAMPLE DESCRIPTIONS

SS-01 - Surface soil collected from River bank unvegetated soil near drum
SS-02 - Surface soil collected from poorly vegetated soil near drum burial
SS-03 - Surface soil collected from Site
SS-04 - Surface soil from ditch allowing drainage through the berm/River bank
SS-05 - Surface soil from vegetated drum burial area

SED 01 - Sediment from mud flat at ditch (see SS-04)
SED 02 - Sediment from mud flat area in middle of Site

SB-01 - Subsurface soil collected from a 10' test pit (TP#1)
SB-02 - Subsurface soil collected from a 7' test pit (TP#2) with buried drums
SB-03 - Subsurface soil collected from a 7' test pit (TP#4) with ash material

TP-03-W Ground water sample collected from test pit #3

DC-01 - Sample of contents of deteriorated drum at land surface near ditch (see SS-04)
DC-02 - Sample of contents of buried drum in test pit #2
DC-03 - Sample of contents of deteriorated drum at land surface in ditch (see SS-04)
DC-04 - Sample of contents of buried drum in test pit E

AM-01 - Ash material exposed in River bank
AM-02 - Ash material exposed in River bank
AM-03 - Ash material in test pit #1

Mike Highlights! (?)

- Compound found in Drum / Ash Sample (release)

- compound Meat to Ash/environ.

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12th Street Landfill/Dump Site
Removal Assessment, August 1999
SURFACE SOIL SAMPLES (mg/kg)

	SS-01	SS-02	SS-03	SS-04	SS-05/Dup.
LEAD	206,000 J	139,000 J	7460 J	11,100 J	4590/5630 J
ARSENIC	33.6 K	48.8 K	117 K	24 K	96.3/96.9 K
ZINC	6120	1820	2280	2110	2310/2900
PHENOL	0.110 B	-	0.060 B	-	-
Dibenzofura	-	-	-	-	-
Pyrene	0.490 J	0.490	0.500	0.990	0.920/1.4
DEHP bis(2) ethyl	22	1.4	0.900	1.4	0.890/0.980
Fluoranthene	0.450 J	0.390 J	0.480	0.840	0.800/1.2
Chrysene	0.360 J	0.260 J	0.300 J	0.900	0.420/0.630
2-methylnap	0.020 J	0.032 J	0.055 J	0.031 J	0.046/0.062 J
Benzo-a-pyre	0.270 J	0.300 J	0.370 J	1.0	0.470/0.630
Toluene	-	-	-	-	-
TICS	24	15	19	14	11

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12th Street Landfill/Dump Site
Removal Assessment, August 1999
SEDIMENT SAMPLES (mg/kg)

	SED-01	SED-02
LEAD	8370 J	1120 J
ARSENIC	15.7 K	5.9 K
ZINC	1180	153
Phenol	0.049	-
Dibenzofuran	-	-
Pyrene	0.260 J	-
Bis(2-ethylhexyl)phthalate	1.0	0.028 B
Fluoranthene	0.200 J	-
Chrysene	0.160 J	-
2-methylnaphthalene	-	-
Benzo(a)pyrene	0.170 J	-
Toluene	-	-
TICS	9	9

12th Street Landfill/Dump Site
Removal Assessment, August 1999
SUBSURFACE (TESTPIT) SOIL (mg/kg)

	SB-01	SB-02	SB-03
LEAD	7670 J	264,000 J	148 J
ARSENIC	16.2 K	29.4 K	27.8 K
ZINC	13,000	5050	1510
Phenol	0.620 B	-	-
Dibenzofuran	0.085 J	0.050 J	-
Pyrene	0.110 J	1.0	0.026 J
DEHP	1.1	3.0	1.1
Fluoranthene	0.071 J	0.910	-
Chrysene	0.062 J	0.610	-
2-methylnaphthalene	0.130 J	1.3	-
Benzo(a)pyrene	0.059 J	0.620	-
Toluene	-	1.9	-
di-n-butylphthalate	1.1	0.068 J	-
TICS	17	28	13

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12th Street Landfill/Dump Site
Removal Assessment, August 1999
GROUNDWATER (ug/L)

	TP-03-W
LEAD	5.3 B
ARSENIC	5.2
ZINC	75.5 J
Phenol	0.002 ?
Dibenzofuran	-
Bis(2-ethylhexyl)phthalate	-
Pyrene	-
Fluoranthene	-
Chrysene	-
2-methylnaphthalene	-
Benzo(a)pyrene	-
Toluene	-
TICS	-

12th Street Landfill/Dump Site
Removal Assessment, August 1999
DRUMS (mg/kg)

	DC-01	DC-02	DC-03	DC-04
LEAD	207	106,000		3970
ARSENIC	5.1	15.3		19.7
ZINC	13,600	4,110		1490
Phenol	-	-	-	210
Dibenzofuran	470	-	-	-
Pyrene	-	-	-	-
DEHP	-	68	-	20
Fluoranthene	-	-	-	-
Chrysene	-	-	-	-
2-methylnaphtha	710	58	-	-
Benzo(a)pyrene	-	-	-	-
Toluene	730	21	0.065	1200
TICS				

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12th Street Landfill/Dump Site
Removal Assessment, August 1999
ASH MATERIAL (mg/kg)

	AM-01	AM-02	AM-03 | FD-03
LEAD	593	383	2570
ARSENIC	8.9	26	13.1
ZINC	13,400	10,500	776
Phenol	-	-	-
Dibenzofuran	-	-	-
Pyrene	-	-	0.062
DEHP	0.085	0.13	0.079
Fluoranthene	-	-	-
Chrysene	0.065	-	-
2-methylnaphthalene	-	-	-
Benzo(a)pyrene	-	-	-
Toluene	-	-	-
BARIUM	1610	6270	96.6
TICS			

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

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PHONE #:

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FROM: MIKE TOWLE

PHONE #:

COMMENTS: 12th St. Summary Table

DATA SUMMARY FORM: I N O R G A N I C S

ORIGINAL

Site Name: 12TH STREET LANDFILL

WATER SAMPLES
(ug/L)

Case #: 27341 Sampling Date(s): 08/31/1999 - 09/01/1999

SDG #: MCWY47

+ Due to dilution, sample quantitation limit is affected.
See dilution table for specifics.

	Sample No.	MCYC03		MCYC04		MCYC10															
	Dilution Factor	1.00		1.00		1.00 / 25.00															
	Location	TS-FB-01		TS-RB-01		TS-TP-03W															
CRDL	ANALYTE	SAMPLE IS A FIELD BLANK		SAMPLE IS A RINSATE BLANK																	
200	Aluminum		UL		UL		UL														
60	Antimony	[3.2]	B			[4.1]	B														
10	*Arsenic					[5.2]															
200	Barium					[144]															
5	Beryllium																				
5	*Cadmium																				
5000	Calcium		UL		UL	319000															
10	*Chromium																				
50	Cobalt					[2.5]															
25	Copper																				
100	Iron					20800															
3	*Lead	40.4	L	10.4	L	5.3	B														
5000	Magnesium		UL		UL	74300															
15	Manganese					882															
0.2	Mercury				UL	[0.11]															
40	*Nickel					[18.3]															
5000	Potassium	[42.5]				22100															
5	Selenium					14.3															
10	Silver																				
5000	Sodium	[2880]	J	[2850]	J	679000 +	J														
10	Thallium		UL		UL		UL														
50	Vanadium																				
20	Zinc	[6.0]	B	[4.4]	B	75.5	J														
10	*Cyanide		UL		UL		UL														

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 02/98

- Exceeded RBC level
- Exceeded ERG level
- highlighted by Towle

DATA SUMMARY FORM: I N O R G A N I C S

Site Name: 12TH STREET LANDFILL

SOIL SAMPLES
(mg/Kg)

Case #: 27341 Sampling Date(s): 08/31/1999 - 09/01/99

SDG #: MCWY47

+ Due to dilution, sample quantitation limit is affected.
See dilution table for specifics.

CRDL	ANALYTE	MCWY47		MCWY48		MCYB96		MCYB97		MCYB98		MCYB99		MCYC00		MCYC02		MCYC05		MCYC06	
	Dilution Factor	1.00		1.00		1.00 / 50.00		1.00 / 20.00		1.00 / 5.00		1.00		1.00 / 5.00		1.00 / 5.00		1.00 / 5.00		1.00/5.00/100	
	% Solids	78.2		73.5		86.3		81.0		78.6		72.9		80.5		78.9		61.9		88.0	
	Location	TS-SED-02		TS-SED-01		TS-SS-01		TS-SS-02		TS-SS-03		TS-SS-04		TS-SS-05		TS-FD-01		TS-SB-01		TS-SB-02	
														DUPLICATE OF MCYC02		DUPLICATE OF MCYC00					
40	Aluminum	16100		13300		23700		13400		13300		14700		16300		15100		45100		25200	
12	Antimony	[0.86]	B	[6.6]	L	[1.2]	B	[2.4]	B	[4.9]	L	[2.0]	B	[4.5]	L	[3.0]	B	[5.1]	B	[2.7]	B
2	Arsenic	5.9	K	15.7	K	33.6	K	48.8	K	117	K	24.0	K	96.3	K	96.9	K	16.2	K	29.4	K
40	Barium	67.1	J	164	J	485	J	200	J	334	J	193	J	235	J	255	J	1810	J	196	J
1	Beryllium	[0.58]		[0.62]		[0.43]		[0.61]		[0.63]		[0.60]		[0.73]		[0.69]		[0.67]		[0.44]	
1	Cadmium	1.5		4.1		6.5		4.6		6.5		4.0		7.1		7.2		7.6		6.0	
1000	Calcium	1300		2770		12800		7190		6870		14800		14900		20600		22900		9910	
2	Chromium	36.1	J	68.6	J	288	J	160	J	172	J	71.9	J	336	J	461	J	158	J	187	J
10	Cobalt	[8.8]		[11.1]		19.3		52.7		86.3		14.8		86.7		92.7		[14.4]		21.1	
5	Copper	24.5	J	213	J	277	J	263	J	470	J	347	J	353	J	374	J	198	J	273	J
20	Iron	52800	J	40800	J	34000	J	59500	J	82300 +	J	51900	J	88800 +	J	80900 +	J	22300	J	58300	J
0.6	*Lead	1120	J	8370	J	206000 +	J	139000 +	J	7460	J	11100	J	4590	J	5630	J	7670	J	264000 +	J
1000	Magnesium	4050		3350		2920		3950		3420		3180		3930		4450		4060		2140	
3	Manganese	247	J	253	J	435	J	372	J	403	J	348	J	589	J	637	J	272	J	413	J
0.1	Mercury			[0.06]		0.15		0.14		0.23		0.17		0.27		0.34				0.19	
8	Nickel	18.6	J	38.3	J	42.6	J	33.7	J	40.3	J	51.8	J	36.3	J	38.1	J	30.1	J	36.3	J
1000	Potassium	2070		1330		[1130]		1800		1610		[1160]		1560		1460		[963]		[710]	
1	Selenium	[0.86]	J	2.6	J	5.0	J	7.2	J	9.2	J	5.4	J	13.2	J	16.3	J	4.6	J	3.3	J
2	Silver					[1.3]		[1.7]		[1.8]		[0.33]		[1.8]		[1.9]		[0.45]		[1.3]	
1000	Sodium	[780]	B	[1040]	B	[662]	B	[501]	B	[487]	B	[949]	B	[550]	B	[524]	B	1650	B	[608]	B
2	Thallium	5.2		3.8	K			4.3	K	8.5		4.7	K	8.0		6.6		[1.1]	K	[1.2]	K
10	Vanadium	56.0		35.9		39.6		39.6		47.7		43.3		53.0		52.1		60.3		32.1	
4	Zinc	153		1180		6120 +		1820		2280		2110		2310		2900		13000 +		5050 +	
1	Cyanide		UL		UL	[0.29]	L	[0.15]	L	[0.21]	L	[0.17]	L	[0.22]	L	[0.23]	L		UL	[0.17]	L

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 02/98

- Exceeded RBC level

- elevated level (lead)

- Table highlight

DATA SUMMARY FORM: I N O R G A N I C S

Site Name: 12TH STREET LANDFILL

SOIL SAMPLES
(mg/Kg)

Case #: 27341 Sampling Date(s): 08/31/1999 - 09/01/1999
SDG #: MCWY47

+ Due to dilution, sample quantitation limit is affected.
See dilution table for specifics.

	Sample No.	MCYC07	
	Dilution Factor	1.00 / 10.00	
	% Solids	70.0	
	Location	TS-SB-03	
CRDL	ANALYTE		
40	Aluminum	5030	
12	Antimony	[14.3]	L
2	Arsenic	27.8	K
40	Barium	116	J
1	Beryllium		
1	Cadmium	14.7	
1000	Calcium	8980	
2	Chromium	95.4	J
10	Cobalt	53.5	
5	Copper	1590	J
20	Iron	456000 +	J
0.6	*Lead	148	J
1000	Magnesium	1400	
3	Manganese	2810	J
0.1	Mercury	[0.07]	
8	Nickel	111	J
1000	Potassium	[396]	
1	Selenium	3.8	J
2	Silver	[0.67]	
1000	Sodium	[612]	B
2	Thallium	38.7	
10	Vanadium	21.0	
4	Zinc	1510	
1	Cyanide		UL

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 02/98

- Exceeded RBC level
- elevated level (lead)
- highlighted by Towle

ORIGINAL

12 th Street Landfill

Industrial Soil - U.S. EPA CLP

Volatile Organic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	Q
74873	Chloromethane	0.11	U	0.011	U	0.0023	J	0.58	U
74839	Bromomethane	0.11	U	0.011	U	0.001	U	0.58	U
75014	Vinyl chloride	0.11	U	0.011	U	0.001	U	0.58	U
75003	Chloroethane	0.11	U	0.011	U	0.001	U	0.58	U
75092	Methylene chloride	0.42		0.011	U	0.067		0.58	U
67641	Acetone	0.019 B	B	0.0086	J	0.032	B	0.58	U
75150	Carbon disulfide	1.2		0.022		0.001	U	0.58	U
75354	1,1-Dichloroethene	0.11	U	0.011	U	0.001	U	0.58	U
75343	1,1-Dichloroethane	0.11	U	0.011	U	0.001	U	0.58	U
540590	1,2-Dichloroethene (total)	0.11	U	0.011	U	0.001	U	0.58	U
67663	Chloroform	0.11	U	0.0015	J	0.001	U	0.58	U
107062	1,2-Dichloroethane	0.11	U	0.011	U	0.001	U	0.58	U
78933	2-Butanone (MEK)	0.11	U	0.0023	J	0.001	U	0.58	U
71556	1,1,1-Trichloroethane	0.11	U	0.011	U	0.001	U	0.58	U
56235	Carbon tetrachloride	0.11	U	0.011	U	0.001	U	0.58	U
75274	Bromodichloromethane	0.11	U	0.011	U	0.001	U	0.58	U
78875	1,2-Dichloropropane	0.11	U	0.011	U	0.001	U	0.58	U
542756	1,3-Dichloropropene	0.11	U	0.011	U	0.001	U	0.58	U
79016	Trichloroethene	0.11	U	0.011	U	0.001	U	0.58	U
124481	Dibromochloromethane	0.11	U	0.011	U	0.001	U	0.58	U
79005	1,1,2-Trichloroethane	0.11	U	0.011	U	0.001	U	0.58	U
71432	Benzene	0.069	J	0.011	U	0.001	U	0.58	U
75252	Bromoform	0.11	U	0.011	U	0.001	U	0.58	U
108101	4-Methyl-2-pentanone	0.11	U	0.011	U	0.001	U	0.58	U
591786	2-Hexanone	0.11	U	0.011	U	0.001	U	0.58	U
127184	Tetrachloroethene	0.11	U	0.0058	J	0.001	U	0.58	U
79345	1,1,2,2-Tetrachloroethane	0.11	U	0.011	U	0.001	U	0.58	U
108883	Toluene	730		21		0.065	B	1,200	
108907	Chlorobenzene	0.11	U	0.011	U	0.001	U	0.58	U
100414	Ethylbenzene	0.046	J	0.0034	J	0.001	U	0.58	U
100425	Styrene	0.11	U	0.011	U	0.001	U	0.58	U
1330207	Xylene (total)	0.067	J	0.017		0.0046	J	0.58	U

U - Not Detected
J - Approximate

0.01 U

O - Highlighted by Towle

ORIGINAL

12 th Street Landfill

Industrial Soil - U.S. EPA CLP

Semi-Volatile Organic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	Q
108952	Phenol	70	U	9.1	U	530	U	210	
111444	bis(2-Chloroethyl) ether	70	U	9.1	U	530	U	19	U
95578	2-Chlorophenol	70	U	9.1	U	530	U	19	U
541731	1,3-Dichlorobenzene	70	U	9.1	U	530	U	19	U
106467	1,4-Dichlorobenzene	70	U	9.1	U	530	U	19	U
95501	1,2-Dichlorobenzene	70	U	9.1	U	530	U	19	U
95487	2-Methylphenol	70	U	9.1	U	530	U	19	U
108601	2,2'-oxybis(1-Chloropropane)	70	U	9.1	U	530	U	19	U
106445	4-Methylphenol	70	U	9.1	U	530	U	19	U
621647	N-Nitroso-di-n-propylamine	70	U	9.1	U	530	U	19	U
67721	Hexachloroethane	70	U	9.1	U	530	U	19	U
98953	Nitrobenzene	70	U	9.1	U	530	U	19	U
78591	Isophorone	70	U	9.1	U	530	U	19	U
88755	2-Nitrophenol	70	U	9.1	U	530	U	19	U
105679	2,4-Dimethylphenol	70	U	9.1	U	530	U	19	U
111911	bis(2-Chloroethoxy) methane	70	U	9.1	U	530	U	19	U
120832	2,4-Dichlorophenol	70	U	9.1	U	530	U	19	U
120821	1,2,4-Trichlorobenzene	70	U	9.1	U	530	U	19	U
91203	Naphthalene	70	U	1.6	J	530	U	19	U
106478	4-Chloroaniline	70	U	9.1	U	530	U	19	U
87683	Hexachlorobutadiene	70	U	9.1	U	530	U	19	U
59507	4-Chloro-3-methylphenol	70	U	9.1	U	530	U	19	U
91576	2-Methylnaphthalene	710		58		530	U	19	U
77474	Hexachlorocyclopentadiene	70	U	9.1	U	530	U	19	U
88062	2,4,6-Trichlorophenol	70	U	9.1	U	530	U	19	U
95954	2,4,5-Trichlorophenol	180	U	23	U	1,300	U	49	U
91587	2-Chloronapthalene	70	U	9.1	U	530	U	19	U
88744	2-Nitroaniline	180	U	23	U	1,300	U	49	U
131113	Dimethylphthalate	70	U	9.1	U	530	U	19	U
208968	Acenaphthylene	70	U	9.1	U	530	U	19	U
606202	2,6-Dinitrotoluene	70	U	9.1	U	530	U	19	U
99092	3-Nitroaniline	180	U	23	U	1,300	U	49	U
83329	Acenaphthene	450		9.1	U	75	J	19	U

U - Not Detected
J - Approximate

O - highlighted by Towle

ORIGINAL

12 th Street Landfill

Industrial Soil - U.S. EPA CLP (continued)

Semi-Volatile Organic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	Q
51285	2,4-Dinitrophenol	180	U	23	U	1,300	U	49	U
100027	4-Nitrophenol	180	U	23	U	1,300	U	49	U
132649	Dibenzofuran	470		9.1	U	530	U	19	U
121142	2,4-Dinitrotoluene	70	U	9.1	U	530	U	19	U
84662	Diethylphthalate	70	U	9.1	U	530	U	19	U
7005723	4-Chlorophenyl-phenylether	70	U	9.1	U	530	U	19	U
86737	Fluorene	90		9.1	J	530	U	19	U
100016	4-Nitroaniline	180	U	23	U	1,300	U	49	U
534521	4,6-Dinitro-2-methylphenol	180	U	23	U	1,300	U	49	U
86306	N-Nitrosodiphenylamine	70	U	9.1	U	530	U	19	U
101553	4-Bromophenyl-phenylether	70	U	9.1	U	530	U	19	U
118741	Hexachlorobenzene	70	U	9.1	U	530	U	19	U
87865	Pentachlorophenol	180	U	23	U	1,300	U	49	U
85018	Phenanthrene	70	U	9.1	U	530	U	19	U
120127	Anthracene	70	U	9.1	U	530	U	19	U
86748	Carbazole	70	U	9.1	U	530	U	19	U
84742	Di-n-butylphthalate	70	U	9.1	U	530	U	19	U
206440	Fluoranthene	70	U	9.1	U	530	U	19	U
129000	Pyrene	70	U	9.1	U	530	U	19	U
85687	Butylbenzylphthalate	70	U	9.1	U	530	U	19	U
91941	3,3'-Dichlorobenzidine	70	U	9.1	U	530	U	19	U
56553	Benzo(a)anthracene	70	U	9.1	U	530	U	19	U
218019	Chrysene	70	U	9.1	U	530	U	19	U
117817	bis(2-Ethylhexyl)phthalate	70	U	68		530	U	20	
117840	Di-n-octylphthalate	70	U	9.1	U	530	U	19	U
205992	Benzo(b)fluoranthene	70	U	9.1	U	530	U	19	U
207089	Benzo(k)fluoranthene	70	U	9.1	U	530	U	19	U
50328	Benzo(a)pyrene	70	U	9.1	U	530	U	19	U
193395	Indeno(1,2,3-cd)pyrene	70	U	9.1	U	530	U	19	U
53703	Dibenz(a,h)anthracene	70	U	9.1	U	530	U	19	U
191242	Benzo(g,h,i)perylene	70	U	9.1	U	530	U	19	U

U - Not Detected
J - Approximate

O - Highlighted by Towle

ORIGINAL

12th Street Landfill

Industrial Soil - U.S. EPA CLP

Pesticide/Polychlorinated Biphenyl Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	Q
319846	alpha-HCH	0.18	U	0.0094	U	0.17	U	0.02	U
319857	beta-HCH	0.18	U	0.0094	U	0.17	U	0.02	U
319868	delta-HCH	0.18	U	0.0094	U	0.17	U	0.02	U
58899	gamma-HCH (Lindane)	0.18	U	0.0094	U	0.17	U	0.02	U
76448	Heptachlor	0.18	U	0.0094	U	0.17	U	0.02	U
309002	Aldrin	0.18	U	0.0094	U	0.17	U	0.02	U
1024573	Heptachlor epoxide	0.18	U	0.0094	U	0.17	U	0.015	J
959988	Endosulfan I	0.18	U	0.0094	U	0.17	U	0.02	U
60571	Dieldrin	0.35	U	0.018	U	0.33	U	0.039	U
72559	4,4'-DDE	0.35	U	0.013	J	0.33	U	0.039	U
72208	Endrin	0.35	U	0.02		0.33	U	0.039	U
33213659	Endosulfan II	0.35	U	0.018	U	0.33	U	0.039	U
72548	4,4'-DDD	0.35	U	0.018	U	0.33	U	0.039	U
1031078	Endosulfan sulfate	0.35	U	0.018	U	0.33	U	0.039	U
50293	4,4'-DDT	0.35	U	0.014	J	0.33	U	0.039	U
72435	Methoxychlor	1.8	U	0.094	U	1.7	U	0.2	U
53494705	Endrin ketone	0.18	U	0.0094	U	0.17	U	0.02	U
7421363	Endrin aldehyde	0.35	U	0.018	U	0.33	U	0.026	J
5103719	alpha-Chlordane	0.18	U	0.0094	U	0.17	U	0.02	U
5103742	gamma-Chlordane	0.18	U	0.0094	U	0.17	U	0.02	U
8001352	Toxaphene	18	U	0.94	U	17	U	2	U
12674112	Aroclor-1016	3.5	U	0.18	U	3.3	U	0.39	U
11104282	Aroclor-1221	7.1	U	0.37	U	6.7	U	0.78	U
11141165	Aroclor-1232	3.5	U	0.18	U	3.3	U	0.39	U
53469219	Aroclor-1242	3.5	U	0.18	U	3.3	U	0.39	U
12672296	Aroclor-1248	3.5	U	0.18	U	3.3	U	0.39	U
11097691	Aroclor-1254	3.5	U	0.18	U	3.3	U	0.39	U
11096825	Aroclor-1260	3.5	U	0.18	U	3.3	U	0.39	U

U - Not detected.
J - Approximate

ORIGINAL

12th Street Landfill

Industrial Soil - U.S. EPA CLP

Inorganic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	
7429905	Aluminum	1,150		17,300				6,450	
7440360	Antimony	0.36	U	1.7				1.2	
7440382	Arsenic	5.1		15.3				19.7	
7440393	Barium	17.3		218				194	
7440417	Beryllium	0.051		0.3				0.3	
7440439	Cadmium	2		3.8				21.2	
7440702	Calcium	564		8,890				4,000	
7440473	Chromium	7.9		146				38.9	
7440484	Cobalt	3.5		8.9				14.8	
7440508	Copper	16.5		192				171	
7439896	Iron	10,300		17,600				48,800	
7439921	Lead	207 *		106,000 *				3,970	
7439954	Magnesium	2,010		2,100				1,290	
7439965	Manganese	19.6		167				519	
7439976	Mercury	0		0.23				0.18	
7440020	Nickel	0.14		25				36.9	
7440097	Potassium	240		552				557	
7782492	Selenium	0.84		2.9				1.2	
7440224	Silver	0.47	U	1.1				0.51	U
7440235	Sodium	779		323				165	
7440280	Thallium	0.79	U	4.8				0.87	U
7440622	Vanadium	9		24.5				23.1	
7440666	Zinc	13,600		4,110				1,490	
74908	Cyanide	2.7	U	3.3	U	2.5	U	2.9	U

U - Not detected

Note: There was insufficient sample to analyze sample TS-DC-03 for metals.

Shaded areas exceed EPA Region III Risk Based Concentrations (RBCs)

- exceeded RBC levels

- elevated lead level

* - highlighted by Towle

ORIGINAL

12 th Street Landfill

Residential Sediment - U.S. EPA CLP
Volatile Organic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
74873	Chloromethane	0.013	U	0.013	U	0.013	U	0.013	U
74839	Bromomethane	0.013	U	0.013	U	0.013	U	0.013	U
75014	Vinyl chloride	0.013	U	0.013	U	0.013	U	0.013	U
75003	Chloroethane	0.013	U	0.013	U	0.013	U	0.013	U
75092	Methylene chloride	0.013	U	0.013	U	0.013	U	0.013	U
67641	Acetone	0.013	U	0.0031	J	0.02		0.0022	J
75150	Carbon disulfide	0.013	U	0.013	U	0.0023	J	0.013	U
75354	1,1-Dichloroethene	0.013	U	0.013	U	0.013	U	0.013	U
75343	1,1-Dichloroethane	0.013	U	0.013	U	0.013	U	0.013	U
540590	1,2-Dichloroethene (total)	0.013	U	0.013	U	0.013	U	0.013	U
67663	Chloroform	0.013	U	0.013	U	0.013	U	0.013	U
107062	1,2-Dichloroethane	0.013	U	0.013	U	0.013	U	0.013	U
78933	2-Butanone (MEK)	0.013	U	0.0021	J	0.0053	J	0.0022	J
71556	1,1,1-Trichloroethane	0.013	U	0.013	U	0.013	U	0.013	U
56235	Carbon tetrachloride	0.013	U	0.013	U	0.013	U	0.013	U
75274	Bromodichloromethane	0.013	U	0.013	U	0.013	U	0.013	U
78875	1,2-Dichloropropane	0.013	U	0.013	U	0.013	U	0.013	U
542756	1,3-Dichloropropene	0.013	U	0.013	U	0.013	U	0.013	U
79016	Trichloroethene	0.013	U	0.013	U	0.013	U	0.013	U
124481	Dibromochloromethane	0.013	U	0.013	U	0.013	U	0.013	U
79005	1,1,2-Trichloroethane	0.013	U	0.013	U	0.013	U	0.013	U
71432	Benzene	0.013	U	0.013	U	0.013	U	0.013	U
75252	Bromoform	0.013	U	0.013	U	0.013	U	0.013	U
108101	4-Methyl-2-pentanone	0.013	U	0.013	U	0.013	U	0.013	U
591786	2-Hexanone	0.013	U	0.013	U	0.013	U	0.013	U
127184	Tetrachloroethene	0.013	U	0.013	U	0.0019	J	0.013	U
79345	1,1,2,2-Tetrachloroethane	0.013	U	0.013	U	0.013	U	0.013	U
108883	Toluene	0.013	U	0.013	U	0.013	U	0.013	U
108907	Chlorobenzene	0.013	U	0.013	U	0.013	U	0.013	U
100414	Ethylbenzene	0.013	U	0.013	U	0.013	U	0.013	U
100425	Styrene	0.013	U	0.013	U	0.013	U	0.013	U
1330207	Xylene (total)	0.013	U	0.013	U	0.002	J	0.013	U

U - Not Detected
J - Approximate

ORIGINAL

12 th Street Landfill

Resiedntial Sediment - U.S. EPA CLP

Semi-Volatile Organic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
108952	Phenol	0.43	U	0.44	U	0.43	U	0.44	U
111444	bis(2-Chloroethyl) ether	0.43	U	0.44	U	0.43	U	0.44	U
95578	2-Chlorophenol	0.43	U	0.44	U	0.43	U	0.44	U
541731	1,3-Dichlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
106467	1,4-Dichlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
95501	1,2-Dichlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
95487	2-Methylphenol	0.43	U	0.44	U	0.43	U	0.44	U
108601	2,2'-oxybis(1-Chloropropane)	0.43	U	0.44	U	0.43	U	0.44	U
106445	4-Methylphenol	0.43	U	0.44	U	0.43	U	0.44	U
621647	N-Nitroso-di-n-propylamine	0.43	U	0.44	U	0.43	U	0.44	U
67721	Hexachloroethane	0.43	U	0.44	U	0.43	U	0.44	U
98953	Nitrobenzene	0.43	U	0.44	U	0.43	U	0.44	U
78591	Isophorone	0.43	U	0.44	U	0.43	U	0.41	J
88755	2-Nitrophenol	0.43	U	0.44	U	0.43	U	0.44	U
105679	2,4-Dimethylphenol	0.43	U	0.44	U	0.43	U	0.44	U
111911	bis(2-Chloroethoxy) methane	0.43	U	0.44	U	0.43	U	0.44	U
120832	2,4-Dichlorophenol	0.43	U	0.44	U	0.43	U	0.44	U
120821	1,2,4-Trichlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
91203	Naphthalene	0.43	U	0.44	U	0.43	U	0.44	U
106478	4-Chloroaniline	0.43	U	0.44	U	0.43	U	0.44	U
87683	Hexachlorobutadiene	0.43	U	0.44	U	0.43	U	0.44	U
59507	4-Chloro-3-methylphenol	0.43	U	0.44	U	0.43	U	0.44	U
91576	2-Methylnaphthalene	0.43	U	0.44	U	0.43	U	0.44	U
77474	Hexachlorocyclopentadiene	0.43	U	0.44	U	0.43	U	0.44	U
88062	2,4,6-Trichlorophenol	0.43	U	0.44	U	0.43	U	0.44	U
95954	2,4,5-Trichlorophenol	1.1	U	1.1	U	1.1	U	1.1	U
91587	2-Chloronapthalene	0.43	U	0.44	U	0.43	U	0.44	U
88744	2-Nitroaniline	1.1	U	1.1	U	1.1	U	1.1	U
131113	Dimethylphthalate	0.43	U	0.44	U	0.43	U	0.44	U
208968	Acenaphthylene	0.43	U	0.44	U	0.43	U	0.44	U
606202	2,6-Dinitrotoluene	0.43	U	0.44	U	0.43	U	0.44	U
99092	3-Nitroaniline	1.1	U	1.1	U	1.1	U	1.1	U
83329	Acenaphthene	0.43	U	0.44	U	0.43	U	0.44	U

U - Not Detected
J - Approximate

ORIGINAL

12 th Street Landfill
Residential Sediment - U.S. EPA CLP (continued)
Semi-Volatile Organic Analysis Data Sheet
All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
51285	2,4-Dinitrophenol	1.1	U	1.1	U	1.1	U	1.1	U
100027	4-Nitrophenol	1.1	U	1.1	U	1.1	U	1.1	U
132649	Dibenzofuran	0.43	U	0.44	U	0.43	U	0.44	U
121142	2,4-Dinitrotoluene	0.43	U	0.44	U	0.43	U	0.44	U
84662	Diethylphthalate	0.43	U	0.44	U	0.43	U	0.44	U
7005723	4-Chlorophenyl-phenylether	0.43	U	0.44	U	0.43	U	0.44	U
86737	Fluorene	0.43	U	0.44	U	0.43	U	0.44	U
100016	4-Nitroaniline	1.1	U	1.1	U	1.1	U	1.1	U
534521	4,6-Dinitro-2-methylphenol	1.1	U	1.1	U	1.1	U	1.1	U
86306	N-Nitrosodiphenylamine	0.43	U	0.44	U	0.43	U	0.44	U
101553	4-Bromophenyl-phenylether	0.43	U	0.44	U	0.43	U	0.44	U
118741	Hexachlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
87865	Pentachlorophenol	1.1	U	1.1	U	1.1	U	1.1	U
85018	Phenanthrene	0.43	U	0.44	U	0.43	U	0.044	J
120127	Anthracene	0.43	U	0.44	U	0.43	U	0.44	U
86748	Carbazole	0.43	U	0.44	U	0.43	U	0.44	U
84742	Di-n-butylphthalate	0.43	U	0.44	U	0.43	U	0.44	U
206440	Fluoranthene	0.43	U	0.44	U	0.43	U	0.081	J
129000	Pyrene	0.43	U	0.44	U	0.43	U	0.062	J
85687	Butylbenzylphthalate	0.43	U	0.44	U	0.43	U	0.072	J
91941	3,3'-Dichlorobenzidine	0.43	U	0.44	U	0.43	U	0.44	U
56553	Benzo(a)anthracene	0.43	U	0.44	U	0.43	U	0.043	
218019	Chrysene	0.065	J	0.44	U	0.43	U	0.055	J
117817	bis(2-Ethylhexyl)phthalate	0.085	J	0.13	J	0.079	J	0.81	
117840	Di-n-octylphthalate	0.43	U	0.44	U	0.43	U	0.44	U
205992	Benzo(b)fluoranthene	0.43	U	0.44	U	0.43	U	0.045	J
207089	Benzo(k)fluoranthene	0.43	U	0.44	U	0.43	U	0.44	U
50328	Benzo(a)pyrene	0.43	U	0.44	U	0.43	U	0.44	U
193395	Indeno(1,2,3-cd)pyrene	0.43	U	0.44	U	0.43	U	0.44	U
53703	Dibenz(a,h)anthracene	0.43	U	0.44	U	0.43	U	0.44	U
191242	Benzo(g,h,i)perylene	0.43	U	0.44	U	0.43	U	0.44	U

U - Not Detected
J - Approximate

○ - Highlighted by Towle

ORIGINAL

12th Street Landfill

Residential Sediment - U.S. EPA CLP

Pesticide/Polychlorinated Biphenyl Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
319846	alpha-HCH	0.0032	U	0.0023	U	0.0022	U	0.0023	U
319857	beta-HCH	0.0032	U	0.0023	U	0.0022	U	0.0023	U
319868	delta-HCH	0.0032	U	0.0023	U	0.0022	U	0.0023	U
58899	gamma-HCH (Lindane)	0.0032	U	0.0023	U	0.0022	U	0.0023	U
76448	Heptachlor	0.0022	U	0.0023	U	0.0022	U	0.0023	U
309002	Aldrin	0.0022	U	0.0023	U	0.0022	U	0.0023	U
1024573	Heptachlor epoxide	0.0022	U	0.0023	U	0.0022	U	0.0023	U
959988	Endosulfan I	0.0022	U	0.0023	U	0.0022	U	0.0023	U
60571	Dieldrin	0.0043	U	0.0044	U	0.0043	U	0.0044	U
72559	4,4'-DDE	0.0043	U	0.0044	U	0.0043	U	0.0044	U
72208	Endrin	0.0043	U	0.0044	U	0.0043	U	0.0044	U
33213659	Endosulfan II	0.0043	U	0.0044	U	0.0043	U	0.0044	U
72548	4,4'-DDD	0.0043	U	0.0044	U	0.0043	U	0.0044	U
1031078	Endosulfan sulfate	0.0043	U	0.0044	U	0.0043	U	0.0044	U
50293	4,4'-DDT	0.0043	U	0.0044	U	0.0043	U	0.0044	U
72435	Methoxychlor	0.022	U	0.023	U	0.022	U	0.023	U
53494705	Endrin ketone	0.0022	U	0.0023	U	0.0022	U	0.0023	U
7421363	Endrin aldehyde	0.0043	U	0.0044	U	0.0043	U	0.0044	U
5103719	alpha-Chlordane	0.0022	U	0.0023	U	0.0011	J	0.0023	U
5103742	gamma-Chlordane	0.0022	U	0.0023	U	0.0022	U	0.0023	U
8001352	Toxaphene	0.22	U	0.23	U	0.22	U	0.23	U
12674112	Aroclor-1016	0.043	U	0.044	U	0.043	U	0.044	U
11104282	Aroclor-1221	0.088	U	0.09	U	0.088	U	0.089	U
11141165	Aroclor-1232	0.043	U	0.044	U	0.043	U	0.044	U
53469219	Aroclor-1242	0.043	U	0.044	U	0.043	U	0.044	U
12672296	Aroclor-1248	0.043	U	0.044	U	0.043	U	0.044	U
11097691	Aroclor-1254	0.043	U	0.044	U	0.043	U	0.044	U
11096825	Aroclor-1260	0.043	U	0.044	U	0.043	U	0.044	U

U - Not detected.

J - Approximate

ORIGINAL

12th Street Landfill

Residential Sediment - U.S. EPA CLP

Inorganic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
7429905	Aluminum	46,500		39,000		4,630		35,400	
7440360	Antimony	0.45	U	1		1.3		0.59	
7440382	Arsenic	8.9		26		13.1		26.4	
7440393	Barium	1,610		6,270		96.6		3,510	
7440417	Beryllium	0.53		0.79		0.78		0.82	
7440439	Cadmium	7.5		2.9		0.84	U	2.7	
7440702	Calcium	38,000		89,500		380,000		68,600	
7440473	Chromium	56.1		72.1		27.7		79.3	
7440484	Cobalt	7.7		14.6		9		14	
7440508	Copper	233		71.9		544		70.9	
7439896	Iron	13,000		17,500		13,200		18,800	
7439921	Lead	593		383		2,570		911	
7439954	Magnesium	5,620		4,240		790		3,890	
7439965	Manganese	143		431		89.7		349	
7439976	Mercury	0.058	U	0.051		0.058	U	0.065	
7440020	Nickel	35		22.2		11.4		23	
7440097	Potassium	957		2,140		182		2,130	
7782492	Selenium	0.74		0.65	U	3.9		0.64	U
7440224	Silver	0.58	U	0.59	U	0.58	U	0.58	U
7440235	Sodium	1,320		984		123		967	
7440280	Thallium	0.97	U	0.99	U	0.97	U	1.2	
7440622	Vanadium	65.6		67.3		9.7		64.2	
7440666	Zinc	13,400		10,500		776		8,850	
74908	Cyanide	3.3	U	3.4	U	3.3	U	3.3	U

- Exceeded RBC level (residential)

- elevated lead level

(Did not exceed Industrial sed.)

- Highlighted by Towle

ORIGINAL

12 th Street Landfill

Industrial Soil - U.S. EPA CLP
Volatile Organic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	Q
74873	Chloromethane	0.11	U	0.011	U	0.0023	J	0.58	U
74839	Bromomethane	0.11	U	0.011	U	0.001	U	0.58	U
75014	Vinyl chloride	0.11	U	0.011	U	0.001	U	0.58	U
75003	Chloroethane	0.11	U	0.011	U	0.001	U	0.58	U
75092	Methylene chloride	0.42		0.011	U	0.067		0.58	U
67641	Acetone	0.019	J	0.0086	J	0.032		0.58	U
75150	Carbon disulfide	1.2		0.022		0.001	U	0.58	U
75354	1,1-Dichloroethene	0.11	U	0.011	U	0.001	U	0.58	U
75343	1,1-Dichloroethane	0.11	U	0.011	U	0.001	U	0.58	U
540590	1,2-Dichloroethene (total)	0.11	U	0.011	U	0.001	U	0.58	U
67663	Chloroform	0.11	U	0.0015	J	0.001	U	0.58	U
107062	1,2-Dichloroethane	0.11	U	0.011	U	0.001	U	0.58	U
78933	2-Butanone (MEK)	0.11	U	0.0023	J	0.001	U	0.58	U
71556	1,1,1-Trichloroethane	0.11	U	0.011	U	0.001	U	0.58	U
56235	Carbon tetrachloride	0.11	U	0.011	U	0.001	U	0.58	U
75274	Bromodichloromethane	0.11	U	0.011	U	0.001	U	0.58	U
78875	1,2-Dichloropropane	0.11	U	0.011	U	0.001	U	0.58	U
542756	1,3-Dichloropropene	0.11	U	0.011	U	0.001	U	0.58	U
79016	Trichloroethene	0.11	U	0.011	U	0.001	U	0.58	U
124481	Dibromochloromethane	0.11	U	0.011	U	0.001	U	0.58	U
79005	1,1,2-Trichloroethane	0.11	U	0.011	U	0.001	U	0.58	U
71432	Benzene	0.069	J	0.011	U	0.001	U	0.58	U
75252	Bromoform	0.11	U	0.011	U	0.001	U	0.58	U
108101	4-Methyl-2-pentanone	0.11	U	0.011	U	0.001	U	0.58	U
591786	2-Hexanone	0.11	U	0.011	U	0.001	U	0.58	U
127184	Tetrachloroethene	0.11	U	0.0058	J	0.001	U	0.58	U
79345	1,1,2,2-Tetrachloroethane	0.11	U	0.011	U	0.001	U	0.58	U
108883	Toluene	730		21		0.065		1,200	
108907	Chlorobenzene	0.11	U	0.011	U	0.001	U	0.58	U
100414	Ethylbenzene	0.046	J	0.0034	J	0.001	U	0.58	U
100425	Styrene	0.11	U	0.011	U	0.001	U	0.58	U
1330207	Xylene (total)	0.067	J	0.017		0.0046	J	0.58	U

U - Not Detected
J - Approximate

ORIGINAL

12 th Street Landfill

Industrial Soil - U.S. EPA CLP

Semi-Volatile Organic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	Q
108952	Phenol	70	U	9.1	U	530	U	210	
111444	bis(2-Chloroethyl) ether	70	U	9.1	U	530	U	19	U
95578	2-Chlorophenol	70	U	9.1	U	530	U	19	U
541731	1,3-Dichlorobenzene	70	U	9.1	U	530	U	19	U
106467	1,4-Dichlorobenzene	70	U	9.1	U	530	U	19	U
95501	1,2-Dichlorobenzene	70	U	9.1	U	530	U	19	U
95487	2-Methylphenol	70	U	9.1	U	530	U	19	U
108601	2,2'-oxybis(1-Chloropropane)	70	U	9.1	U	530	U	19	U
106445	4-Methylphenol	70	U	9.1	U	530	U	19	U
621647	N-Nitroso-di-n-propylamine	70	U	9.1	U	530	U	19	U
67721	Hexachloroethane	70	U	9.1	U	530	U	19	U
98953	Nitrobenzene	70	U	9.1	U	530	U	19	U
78591	Isophorone	70	U	9.1	U	530	U	19	U
88755	2-Nitrophenol	70	U	9.1	U	530	U	19	U
105679	2,4-Dimethylphenol	70	U	9.1	U	530	U	19	U
111911	bis(2-Chloroethoxy) methane	70	U	9.1	U	530	U	19	U
120832	2,4-Dichlorophenol	70	U	9.1	U	530	U	19	U
120821	1,2,4-Trichlorobenzene	70	U	9.1	U	530	U	19	U
91203	Naphthalene	70	U	1.6	J	530	U	19	U
106478	4-Chloroaniline	70	U	9.1	U	530	U	19	U
87683	Hexachlorobutadiene	70	U	9.1	U	530	U	19	U
59507	4-Chloro-3-methylphenol	70	U	9.1	U	530	U	19	U
91576	2-Methylnaphthalene	710		58		530	U	19	U
77474	Hexachlorocyclopentadiene	70	U	9.1	U	530	U	19	U
88062	2,4,6-Trichlorophenol	70	U	9.1	U	530	U	19	U
95954	2,4,5-Trichlorophenol	180	U	23	U	1,300	U	49	U
91587	2-Chloronapthalene	70	U	9.1	U	530	U	19	U
88744	2-Nitroaniline	180	U	23	U	1,300	U	49	U
131113	Dimethylphthalate	70	U	9.1	U	530	U	19	U
208968	Acenaphthylene	70	U	9.1	U	530	U	19	U
606202	2,6-Dinitrotoluene	70	U	9.1	U	530	U	19	U
99092	3-Nitroaniline	180	U	23	U	1,300	U	49	U
83329	Acenaphthene	450		9.1	U	75	J	19	U

U - Not Detected
J - Approximate

ORIGINAL

12 th Street Landfill

Industrial Soil - U.S. EPA CLP (continued)

Semi-Volatile Organic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	Q
51285	2,4-Dinitrophenol	180	U	23	U	1,300	U	49	U
100027	4-Nitrophenol	180	U	23	U	1,300	U	49	U
132649	Dibenzofuran	470		9.1	U	530	U	19	U
121142	2,4-Dinitrotoluene	70	U	9.1	U	530	U	19	U
84662	Diethylphthalate	70	U	9.1	U	530	U	19	U
7005723	4-Chlorophenyl-phenylether	70	U	9.1	U	530	U	19	U
86737	Fluorene	90		9.1	J	530	U	19	U
100016	4-Nitroaniline	180	U	23	U	1,300	U	49	U
534521	4,6-Dinitro-2-methylphenol	180	U	23	U	1,300	U	49	U
86306	N-Nitrosodiphenylamine	70	U	9.1	U	530	U	19	U
101553	4-Bromophenyl-phenylether	70	U	9.1	U	530	U	19	U
118741	Hexachlorobenzene	70	U	9.1	U	530	U	19	U
87865	Pentachlorophenol	180	U	23	U	1,300	U	49	U
85018	Phenanthrene	70	U	9.1	U	530	U	19	U
120127	Anthracene	70	U	9.1	U	530	U	19	U
86748	Carbazole	70	U	9.1	U	530	U	19	U
84742	Di-n-butylphthalate	70	U	9.1	U	530	U	19	U
206440	Fluoranthene	70	U	9.1	U	530	U	19	U
129000	Pyrene	70	U	9.1	U	530	U	19	U
85687	Butylbenzylphthalate	70	U	9.1	U	530	U	19	U
91941	3,3'-Dichlorobenzidine	70	U	9.1	U	530	U	19	U
56553	Benzo(a)anthracene	70	U	9.1	U	530	U	19	U
218019	Chrysene	70	U	9.1	U	530	U	19	U
117817	bis(2-Ethylhexyl)phthalate	70	U	68		530	U	20	
117840	Di-n-octylphthalate	70	U	9.1	U	530	U	19	U
205992	Benzo(b)fluoranthene	70	U	9.1	U	530	U	19	U
207089	Benzo(k)fluoranthene	70	U	9.1	U	530	U	19	U
50328	Benzo(a)pyrene	70	U	9.1	U	530	U	19	U
193395	Indeno(1,2,3-cd)pyrene	70	U	9.1	U	530	U	19	U
53703	Dibenz(a,h)anthracene	70	U	9.1	U	530	U	19	U
191242	Benzo(g,h,i)perylene	70	U	9.1	U	530	U	19	U

U - Not Detected
J - Approximate

ORIGINAL

12th Street Landfill

Industrial Soil - U.S. EPA CLP

Pesticide/Polychlorinated Biphenyl Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	Q
319846	alpha-HCH	0.18	U	0.0094	U	0.17	U	0.02	U
319857	beta-HCH	0.18	U	0.0094	U	0.17	U	0.02	U
319868	delta-HCH	0.18	U	0.0094	U	0.17	U	0.02	U
58899	gamma-HCH (Lindane)	0.18	U	0.0094	U	0.17	U	0.02	U
76448	Heptachlor	0.18	U	0.0094	U	0.17	U	0.02	U
309002	Aldrin	0.18	U	0.0094	U	0.17	U	0.02	U
1024573	Heptachlor epoxide	0.18	U	0.0094	U	0.17	U	0.015	J
959988	Endosulfan I	0.18	U	0.0094	U	0.17	U	0.02	U
60571	Dieldrin	0.35	U	0.018	U	0.33	U	0.039	U
72559	4,4'-DDE	0.35	U	0.013	J	0.33	U	0.039	U
72208	Endrin	0.35	U	0.02		0.33	U	0.039	U
33213659	Endosulfan II	0.35	U	0.018	U	0.33	U	0.039	U
72548	4,4'-DDD	0.35	U	0.018	U	0.33	U	0.039	U
1031078	Endosulfan sulfate	0.35	U	0.018	U	0.33	U	0.039	U
50293	4,4'-DDT	0.35	U	0.014	J	0.33	U	0.039	U
72435	Methoxychlor	1.8	U	0.094	U	1.7	U	0.2	U
53494705	Endrin ketone	0.18	U	0.0094	U	0.17	U	0.02	U
7421363	Endrin aldehyde	0.35	U	0.018	U	0.33	U	0.026	J
5103719	alpha-Chlordane	0.18	U	0.0094	U	0.17	U	0.02	U
5103742	gamma-Chlordane	0.18	U	0.0094	U	0.17	U	0.02	U
8001352	Toxaphene	18	U	0.94	U	17	U	2	U
12674112	Aroclor-1016	3.5	U	0.18	U	3.3	U	0.39	U
11104282	Aroclor-1221	7.1	U	0.37	U	6.7	U	0.78	U
11141165	Aroclor-1232	3.5	U	0.18	U	3.3	U	0.39	U
53469219	Aroclor-1242	3.5	U	0.18	U	3.3	U	0.39	U
12672296	Aroclor-1248	3.5	U	0.18	U	3.3	U	0.39	U
11097691	Aroclor-1254	3.5	U	0.18	U	3.3	U	0.39	U
11096825	Aroclor-1260	3.5	U	0.18	U	3.3	U	0.39	U

U - Not detected.
J - Approximate

ORIGINAL

12th Street Landfill

Industrial Soil - U.S. EPA CLP

Inorganic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	
7429905	Aluminum	1,150		17,300				6,450	
7440360	Antimony	0.36	U	1.7				1.2	
7440382	Arsenic	5.1		15.3				19.7	
7440393	Barium	17.3		218				194	
7440417	Beryllium	0.051		0.3				0.3	
7440439	Cadmium	2		3.8				21.2	
7440702	Calcium	564		8,890				4,000	
7440473	Chromium	7.9		146				38.9	
7440484	Cobalt	3.5		8.9				14.8	
7440508	Copper	16.5		192				171	
7439896	Iron	10,300		17,600				48,800	
7439921	Lead	207		106,000				3,970	
7439954	Magnesium	2,010		2,100				1,290	
7439965	Manganese	19.6		167				519	
7439976	Mercury	0		0.23				0.18	
7440020	Nickel	0.14		25				36.9	
7440097	Potassium	240		552				557	
7782492	Selenium	0.84		2.9				1.2	
7440224	Silver	0.47	U	1.1				0.51	U
7440235	Sodium	779		323				165	
7440280	Thallium	0.79	U	4.8				0.87	U
7440622	Vanadium	9		24.5				23.1	
7440666	Zinc	13,600		4,110				1,490	
74908	Cyanide	2.7	U	3.3	U	2.5	U	2.9	U

U - Not detected

Note: There was insufficient sample to analyze sample TS-DC-03 for metals.

Shaded areas exceed EPA Region III Risk Based Concentrations (RBCs)

ORIGINAL

12 th Street Landfill

Residential Sediment - U.S. EPA CLP
Volatile Organic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
74873	Chloromethane	0.013	U	0.013	U	0.013	U	0.013	U
74839	Bromomethane	0.013	U	0.013	U	0.013	U	0.013	U
75014	Vinyl chloride	0.013	U	0.013	U	0.013	U	0.013	U
75003	Chloroethane	0.013	U	0.013	U	0.013	U	0.013	U
75092	Methylene chloride	0.013	U	0.013	U	0.013	U	0.013	U
67641	Acetone	0.013	U	0.0031	J	0.02		0.0022	J
75150	Carbon disulfide	0.013	U	0.013	U	0.0023	J	0.013	U
75354	1,1-Dichloroethene	0.013	U	0.013	U	0.013	U	0.013	U
75343	1,1-Dichloroethane	0.013	U	0.013	U	0.013	U	0.013	U
540590	1,2-Dichloroethene (total)	0.013	U	0.013	U	0.013	U	0.013	U
67663	Chloroform	0.013	U	0.013	U	0.013	U	0.013	U
107062	1,2-Dichloroethane	0.013	U	0.013	U	0.013	U	0.013	U
78933	2-Butanone (MEK)	0.013	U	0.0021	J	0.0053	J	0.0022	J
71556	1,1,1-Trichloroethane	0.013	U	0.013	U	0.013	U	0.013	U
56235	Carbon tetrachloride	0.013	U	0.013	U	0.013	U	0.013	U
75274	Bromodichloromethane	0.013	U	0.013	U	0.013	U	0.013	U
78875	1,2-Dichloropropane	0.013	U	0.013	U	0.013	U	0.013	U
542756	1,3-Dichloropropene	0.013	U	0.013	U	0.013	U	0.013	U
79016	Trichloroethene	0.013	U	0.013	U	0.013	U	0.013	U
124481	Dibromochloromethane	0.013	U	0.013	U	0.013	U	0.013	U
79005	1,1,2-Trichloroethane	0.013	U	0.013	U	0.013	U	0.013	U
71432	Benzene	0.013	U	0.013	U	0.013	U	0.013	U
75252	Bromoform	0.013	U	0.013	U	0.013	U	0.013	U
108101	4-Methyl-2-pentanone	0.013	U	0.013	U	0.013	U	0.013	U
591786	2-Hexanone	0.013	U	0.013	U	0.013	U	0.013	U
127184	Tetrachloroethene	0.013	U	0.013	U	0.0019	J	0.013	U
79345	1,1,2,2-Tetrachloroethane	0.013	U	0.013	U	0.013	U	0.013	U
108883	Toluene	0.013	U	0.013	U	0.013	U	0.013	U
108907	Chlorobenzene	0.013	U	0.013	U	0.013	U	0.013	U
100414	Ethylbenzene	0.013	U	0.013	U	0.013	U	0.013	U
100425	Styrene	0.013	U	0.013	U	0.013	U	0.013	U
1330207	Xylene (total)	0.013	U	0.013	U	0.002	J	0.013	U

U - Not Detected
J - Approximate

ORIGINAL

12 th Street Landfill

Resiedntial Sediment - U.S. EPA CLP

Semi-Volatile Organic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
108952	Phenol	0.43	U	0.44	U	0.43	U	0.44	U
111444	bis(2-Chloroethyl) ether	0.43	U	0.44	U	0.43	U	0.44	U
95578	2-Chlorophenol	0.43	U	0.44	U	0.43	U	0.44	U
541731	1,3-Dichlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
106467	1,4-Dichlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
95501	1,2-Dichlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
95487	2-Methylphenol	0.43	U	0.44	U	0.43	U	0.44	U
108601	2,2'-oxybis(1-Chloropropane)	0.43	U	0.44	U	0.43	U	0.44	U
106445	4-Methylphenol	0.43	U	0.44	U	0.43	U	0.44	U
621647	N-Nitroso-di-n-propylamine	0.43	U	0.44	U	0.43	U	0.44	U
67721	Hexachloroethane	0.43	U	0.44	U	0.43	U	0.44	U
98953	Nitrobenzene	0.43	U	0.44	U	0.43	U	0.44	U
78591	Isophorone	0.43	U	0.44	U	0.43	U	0.41	J
88755	2-Nitrophenol	0.43	U	0.44	U	0.43	U	0.44	U
105679	2,4-Dimethylphenol	0.43	U	0.44	U	0.43	U	0.44	U
111911	bis(2-Chloroethoxy) methane	0.43	U	0.44	U	0.43	U	0.44	U
120832	2,4-Dichlorophenol	0.43	U	0.44	U	0.43	U	0.44	U
120821	1,2,4-Trichlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
91203	Naphthalene	0.43	U	0.44	U	0.43	U	0.44	U
106478	4-Chloroaniline	0.43	U	0.44	U	0.43	U	0.44	U
87683	Hexachlorobutadiene	0.43	U	0.44	U	0.43	U	0.44	U
59507	4-Chloro-3-methylphenol	0.43	U	0.44	U	0.43	U	0.44	U
91576	2-Methylnaphthalene	0.43	U	0.44	U	0.43	U	0.44	U
77474	Hexachlorocyclopentadiene	0.43	U	0.44	U	0.43	U	0.44	U
88062	2,4,6-Trichlorophenol	0.43	U	0.44	U	0.43	U	0.44	U
95954	2,4,5-Trichlorophenol	1.1	U	1.1	U	1.1	U	1.1	U
91587	2-Chloronapthalene	0.43	U	0.44	U	0.43	U	0.44	U
88744	2-Nitroaniline	1.1	U	1.1	U	1.1	U	1.1	U
131113	Dimethylphthalate	0.43	U	0.44	U	0.43	U	0.44	U
208968	Acenaphthylene	0.43	U	0.44	U	0.43	U	0.44	U
606202	2,6-Dinitrotoluene	0.43	U	0.44	U	0.43	U	0.44	U
99092	3-Nitroaniline	1.1	U	1.1	U	1.1	U	1.1	U
83329	Acenaphthene	0.43	U	0.44	U	0.43	U	0.44	U

U - Not Detected
J - Approximate

ORIGINAL

12 th Street Landfill
Residential Sediment - U.S. EPA CLP (continued)
Semi-Volatile Organic Analysis Data Sheet
All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
51285	2,4-Dinitrophenol	1.1	U	1.1	U	1.1	U	1.1	U
100027	4-Nitrophenol	1.1	U	1.1	U	1.1	U	1.1	U
132649	Dibenzofuran	0.43	U	0.44	U	0.43	U	0.44	U
121142	2,4-Dinitrotoluene	0.43	U	0.44	U	0.43	U	0.44	U
84662	Diethylphthalate	0.43	U	0.44	U	0.43	U	0.44	U
7005723	4-Chlorophenyl-phenylether	0.43	U	0.44	U	0.43	U	0.44	U
86737	Fluorene	0.43	U	0.44	U	0.43	U	0.44	U
100016	4-Nitroaniline	1.1	U	1.1	U	1.1	U	1.1	U
534521	4,6-Dinitro-2-methylphenol	1.1	U	1.1	U	1.1	U	1.1	U
86306	N-Nitrosodiphenylamine	0.43	U	0.44	U	0.43	U	0.44	U
101553	4-Bromophenyl-phenylether	0.43	U	0.44	U	0.43	U	0.44	U
118741	Hexachlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
87865	Pentachlorophenol	1.1	U	1.1	U	1.1	U	1.1	U
85018	Phenanthrene	0.43	U	0.44	U	0.43	U	0.044	J
120127	Anthracene	0.43	U	0.44	U	0.43	U	0.44	U
86748	Carbazole	0.43	U	0.44	U	0.43	U	0.44	U
84742	Di-n-butylphthalate	0.43	U	0.44	U	0.43	U	0.44	U
206440	Fluoranthene	0.43	U	0.44	U	0.43	U	0.081	J
129000	Pyrene	0.43	U	0.44	U	0.43	U	0.062	J
85687	Butylbenzylphthalate	0.43	U	0.44	U	0.43	U	0.072	J
91941	3,3'-Dichlorobenzidine	0.43	U	0.44	U	0.43	U	0.44	U
56553	Benzo(a)anthracene	0.43	U	0.44	U	0.43	U	0.043	
218019	Chrysene	0.065	J	0.44	U	0.43	U	0.055	J
117817	bis(2-Ethylhexyl)phthalate	0.085	J	0.13	J	0.079	J	0.81	
117840	Di-n-octylphthalate	0.43	U	0.44	U	0.43	U	0.44	U
205992	Benzo(b)fluoranthene	0.43	U	0.44	U	0.43	U	0.045	J
207089	Benzo(k)fluoranthene	0.43	U	0.44	U	0.43	U	0.44	U
50328	Benzo(a)pyrene	0.43	U	0.44	U	0.43	U	0.44	U
193395	Indeno(1,2,3-cd)pyrene	0.43	U	0.44	U	0.43	U	0.44	U
53703	Dibenz(a,h)anthracene	0.43	U	0.44	U	0.43	U	0.44	U
191242	Benzo(g,h,i)perylene	0.43	U	0.44	U	0.43	U	0.44	U

U - Not Detected
J - Approximate

ORIGINAL

12th Street Landfill

Residential Sediment - U.S. EPA CLP

Pesticide/Polychlorinated Biphenyl Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
319846	alpha-HCH	0.0032	U	0.0023	U	0.0022	U	0.0023	U
319857	beta-HCH	0.0032	U	0.0023	U	0.0022	U	0.0023	U
319868	delta-HCH	0.0032	U	0.0023	U	0.0022	U	0.0023	U
58899	gamma-HCH (Lindane)	0.0032	U	0.0023	U	0.0022	U	0.0023	U
76448	Heptachlor	0.0022	U	0.0023	U	0.0022	U	0.0023	U
309002	Aldrin	0.0022	U	0.0023	U	0.0022	U	0.0023	U
1024573	Heptachlor epoxide	0.0022	U	0.0023	U	0.0022	U	0.0023	U
959988	Endosulfan I	0.0022	U	0.0023	U	0.0022	U	0.0023	U
60571	Dieldrin	0.0043	U	0.0044	U	0.0043	U	0.0044	U
72559	4,4'-DDE	0.0043	U	0.0044	U	0.0043	U	0.0044	U
72208	Endrin	0.0043	U	0.0044	U	0.0043	U	0.0044	U
33213659	Endosulfan II	0.0043	U	0.0044	U	0.0043	U	0.0044	U
72548	4,4'-DDD	0.0043	U	0.0044	U	0.0043	U	0.0044	U
1031078	Endosulfan sulfate	0.0043	U	0.0044	U	0.0043	U	0.0044	U
50293	4,4'-DDT	0.0043	U	0.0044	U	0.0043	U	0.0044	U
72435	Methoxychlor	0.022	U	0.023	U	0.022	U	0.023	U
53494705	Endrin ketone	0.0022	U	0.0023	U	0.0022	U	0.0023	U
7421363	Endrin aldehyde	0.0043	U	0.0044	U	0.0043	U	0.0044	U
5103719	alpha-Chlordane	0.0022	U	0.0023	U	0.0011	J	0.0023	U
5103742	gamma-Chlordane	0.0022	U	0.0023	U	0.0022	U	0.0023	U
8001352	Toxaphene	0.22	U	0.23	U	0.22	U	0.23	U
12674112	Aroclor-1016	0.043	U	0.044	U	0.043	U	0.044	U
11104282	Aroclor-1221	0.088	U	0.09	U	0.088	U	0.089	U
11141165	Aroclor-1232	0.043	U	0.044	U	0.043	U	0.044	U
53469219	Aroclor-1242	0.043	U	0.044	U	0.043	U	0.044	U
12672296	Aroclor-1248	0.043	U	0.044	U	0.043	U	0.044	U
11097691	Aroclor-1254	0.043	U	0.044	U	0.043	U	0.044	U
11096825	Aroclor-1260	0.043	U	0.044	U	0.043	U	0.044	U

U - Not detected.
J - Approximate

ORIGINAL

12th Street Landfill

Residential Sediment - U.S. EPA CLP

Inorganic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
7429905	Aluminum	46,500		39,000		4,630		35,400	
7440360	Antimony	0.45	U	1		1.3		0.59	
7440382	Arsenic	8.9		26		13.1		26.4	
7440393	Barium	1,610		6,270		96.6		3,510	
7440417	Beryllium	0.53		0.79		0.78		0.82	
7440439	Cadmium	7.5		2.9		0.84	U	2.7	
7440702	Calcium	38,000		89,500		380,000		68,600	
7440473	Chromium	56.1		72.1		27.7		79.3	
7440484	Cobalt	7.7		14.6		9		14	
7440508	Copper	233		71.9		544		70.9	
7439896	Iron	13,000		17,500		13,200		18,800	
7439921	Lead	593		383		2,570		911	
7439954	Magnesium	5,620		4,240		790		3,890	
7439965	Manganese	143		431		89.7		349	
7439976	Mercury	0.058	U	0.051		0.058	U	0.065	
7440020	Nickel	35		22.2		11.4		23	
7440097	Potassium	957		2,140		182		2,130	
7782492	Selenium	0.74		0.65	U	3.9		0.64	U
7440224	Silver	0.58	U	0.59	U	0.58	U	0.58	U
7440235	Sodium	1,320		984		123		967	
7440280	Thallium	0.97	U	0.99	U	0.97	U	1.2	
7440622	Vanadium	65.6		67.3		9.7		64.2	
7440666	Zinc	13,400		10,500		776		8,850	
74908	Cyanide	3.3	U	3.4	U	3.3	U	3.3	U

ORIGINAL

DATA SUMMARY FORM: PESTICIDES AND PCBS

Case #: 27341 SDG : CWW89

Site : 12TH STREET LANDFILL

Lab. : IEANJ

Number of Soil Samples : 0

Number of Water Samples : 3

Sample Number :		CWW89		CWW90		CWW97					
Sampling Location :		TS-FB-01		TS-RB-01		TS-TP-03W					
Field QC :		Field Blank		Rinsate Blank							
Matrix :		Water		Water		Water					
Units :		ug/L		ug/L		ug/L					
Date Sampled :		08/31/1999		08/31/1999		09/01/1999					
Time Sampled :		15:30		17:15		11:20					
%Moisture :		0		0		0					
pH :											
Dilution Factor :		1.1		1.1		1.0					
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	0.050										
BETA-BHC	0.050										
DELTA-BHC	0.050										
*GAMMA-BHC (LINDANE)	0.050										
*HEPTACHLOR	0.050										
ALDRIN	0.050										
HEPTACHLOR EPOXIDE	0.050										
ENDOSULFAN I	0.050										
DIELDRIN	0.10										
4,4'-DDE	0.10										
*ENDRIN	0.10										
ENDOSULFAN II	0.10										
4,4'-DDD	0.10										
ENDOSULFAN SULFATE	0.10										
4,4'-DDT	0.10										
*METHOXYCHLOR	0.50										
ENDRIN KETONE	0.10										
ENDRIN ALDEHYDE	0.10										
ALPHA-CHLORDANE	0.050										
GAMMA-CHLORDANE	0.050										
*TOXAPHENE	5.0										
*AROCLOR-1016	1.0										
*AROCLOR-1221	2.0										
*AROCLOR-1232	1.0										
*AROCLOR-1242	1.0										
*AROCLOR-1248	1.0										
*AROCLOR-1254	1.0										
*AROCLOR-1260	1.0										

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits multiply the CRQL by the Dilution Factor

Revised 09/99

Case #: 27341 SDG : CWW62

Site : 12TH STREET LANDFILL

Lab. : IEANJ

Sample Number :		CXJ69									
Sampling Location :		TS-SS-02									
Field QC :											
Matrix :		Soil									
Units :		ug/Kg									
Date Sampled :		08/31/1999									
Time Sampled :		09:00									
%Moisture :		22									
pH :		7.8									
Dilution Factor :		1.0									
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	1.7										
BETA-BHC	1.7										
DELTA-BHC	1.7										
GAMMA-BHC (LINDANE)	1.7										
HEPTACHLOR	1.7										
ALDRIN	1.7	0.35	J								
HEPTACHLOR EPOXIDE	1.7										
ENDOSULFAN I	1.7										
DIELDRIN	3.3	4.5									
4,4'-DDE	3.3	1.0	J								
ENDRIN	3.3										
ENDOSULFAN II	3.3	1.6	J								
4,4'-DDD	3.3										
ENDOSULFAN SULFATE	3.3										
4,4'-DDT	3.3	2.9	J								
METHOXYCHLOR	17	9.0	J								
ENDRIN KETONE	3.3										
ENDRIN ALDEHYDE	3.3	2.3	J								
ALPHA-CHLORDANE	1.7										
GAMMA-CHLORDANE	1.7										
TOXAPHENE	170										
AROCLOR-1016	33										
AROCLOR-1221	67										
AROCLOR-1232	33										
AROCLOR-1242	33										
AROCLOR-1248	33										
AROCLOR-1254	33										
AROCLOR-1260	33	46									

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

Revised 09/99

ORIGINAL

DATA SUMMARY FORM: PESTICIDES AND PCBS

Case #: 27341 SDG : CWW62
Site : 12TH STREET LANDFILL
Lab. : IEANJ

Sample Number :		CWW91		CWW92		CWW93		CXJ67		CXJ68	
Sampling Location :		TS-SB-01		TS-SB-02		TS-SB-03		TS-SED-02		TS-SS-01	
Field QC :											
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		08/31/1999		09/01/1999		09/01/1999		08/31/1999		08/31/1999	
Time Sampled :		13:40		08:50		13:40		08:35		08:55	
%Moisture :		36		33		2		21		12	
pH :		8.1		8.1		6.9		7.5		8.0	
Dilution Factor :		1.0		1.0		1.0		0.99		1.0	
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	1.7							0.13	J		
BETA-BHC	1.7										
DELTA-BHC	1.7										
GAMMA-BHC (LINDANE)	1.7										
HEPTACHLOR	1.7										
ALDRIN	1.7										
HEPTACHLOR EPOXIDE	1.7	0.83	J			0.55	J				
ENDOSULFAN I	1.7	0.39	J			0.28	J			0.62	J
DIELDRIN	3.3	1.4	J	2.1	J	0.35	J				
4,4'-DDE	3.3	2.0	J	11	J	1.5	J			2.7	J
ENDRIN	3.3	3.4	J	12	J	2.1	J			3.6	J
ENDOSULFAN II	3.3	2.8	J	5.3	J						
4,4'-DDD	3.3	4.4	J	10	J	12	J	0.81	J	13	
ENDOSULFAN SULFATE	3.3										
4,4'-DDT	3.3	1.8	J	9.8	J			0.66	J	8.4	J
METHOXYCHLOR	17	5.2	J	16	J					87	J
ENDRIN KETONE	3.3										
ENDRIN ALDEHYDE	3.3			5.4	J	1.0	J			13	J
ALPHA-CHLORDANE	1.7	0.94	J			1.7		0.15	J		
GAMMA-CHLORDANE	1.7					0.24	J			5.4	J
TOXAPHENE	170										
AROCLOR-1016	33										
AROCLOR-1221	67										
AROCLOR-1232	33										
AROCLOR-1242	33										
AROCLOR-1248	33										
AROCLOR-1254	33	37	J	150	J	27	J			130	J
AROCLOR-1260	33			71						200	

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

Revised 09/99

Case #: 27341 SDG : CWW62 Number of Soil Samples : 11

Site : 12TH STREET LANDFILL Number of Water Samples : 0

Lab. : IEANJ

Sample Number :		CWW62		CWW84		CWW85		CWW86		CWW88	
Sampling Location :		TS-SED-01		TS-SS-03		TS-SS-04		TS-SS-05		TS-FD-01	
Field QC :								Fld. Dup. CWW88		Fld. Dup. CWW86	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		08/31/1999		08/31/1999		08/31/1999		08/31/1999		08/31/1999	
Time Sampled :		08:15		09:10		09:20		09:30		00:00	
%Moisture :		27		21		28		22		22	
pH :		7.3		8.0		7.5		7.6		7.7	
Dilution Factor :		0.99		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	1.7										
BETA-BHC	1.7										
DELTA-BHC	1.7										
GAMMA-BHC (LINDANE)	1.7										
HEPTACHLOR	1.7										
ALDRIN	1.7										
HEPTACHLOR EPOXIDE	1.7	0.64	J								
ENDOSULFAN I	1.7			1.1	J	0.94	J	0.38	J	0.36	J
DIELDRIN	3.3			4.9	J	9.4	J				
4,4'-DDE	3.3	2.0	J	2.0	J	2.2	J	1.1	J	2.0	J
ENDRIN	3.3	3.2	J	2.6	J	4.2	J	4.1	J	2.7	J
ENDOSULFAN II	3.3	5.9	J	1.9	J	5.2	J	4.3	J	2.0	J
4,4'-DDD	3.3	11		4.5		9.6		9.1	J	6.5	J
ENDOSULFAN SULFATE	3.3	1.8	J								
4,4'-DDT	3.3	1.6	J	4.3	J	6.6	J	3.7	J	3.5	J
METHOXYCHLOR	17			4.1	J	33		10	J	6.4	J
ENDRIN KETONE	3.3										
ENDRIN ALDEHYDE	3.3	12	J	4.1	J	7.4	J	2.0	J	2.2	J
ALPHA-CHLORDANE	1.7	2.6	J					1.4	J		
GAMMA-CHLORDANE	1.7	1.9	J								
TOXAPHENE	170										
AROCLOR-1016	33										
AROCLOR-1221	67										
AROCLOR-1232	33										
AROCLOR-1242	33										
AROCLOR-1248	33										
AROCLOR-1254	33										
AROCLOR-1260	33	170	J	68	J	100	J	65		68	J

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

Revised 09/99

ORIGINAL

Case #: 27341 SDG : CWW89

Site : 12TH STREET LANDFILL

Lab. : IEANJ

Sample Number :		CWW89		CWW90		CWW97					
Sampling Location :		TS-FB-01		TS-RB-01		TS-TP-03W					
Field QC :		Field Blank		Rinsate Blank							
Matrix :		Water		Water		Water					
Units :		ug/L		ug/L		ug/L					
Date Sampled :		08/31/1999		08/31/1999		09/01/1999					
Time Sampled :		15:30		17:15		11:20					
%Moisture :		N/A		N/A		N/A					
pH :											
Dilution Factor :		1.1		1.2		1.0					
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4-NITROPHENOL	25										
DIBENZOFURAN	10										
2,4-DINITROTOLUENE	10										
DIETHYLPHTHALATE	10	1	B	1	B						
4-CHLOROPHENYL-PHENYLETHER	10										
FLUORENE	10										
4-NITROANILINE	25										
4,6-DINITRO-2-METHYLPHENOL	25										
N-NITROSODIPHENYLAMINE	10										
4-BROMOPHENYL-PHENYLETHER	10										
*HEXACHLOROBENZENE	10										
*PENTACHLOROPHENOL	25										
PHENANTHRENE	10										
ANTHRACENE	10										
CARBAZOLE	10										
DI-N-BUTYLPHTHALATE	10										
FLUORANTHENE	10										
PYRENE	10										
BUTYLBENZYLPHTHALATE	10										
3,3'-DICHLOROBENZIDINE	10										
BENZO(A)ANTHRACENE	10										
CHRYSENE	10										
BIS(2-ETHYLHEXYL)PHTHALATE	10										
DI-N-OCTYLPHTHALATE	10										
BENZO(B)FLUORANTHENE	10										
BENZO(K)FLUORANTHENE	10										
BENZO(A)PYRENE	10										
INDENO(1,2,3-CD)PYRENE	10										
DIBENZ(A,H)ANTHRACENE	10										
BENZO(G,H,I)PERYLENE	10										

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits multiply the CRQL by the Dilution Factor

Case #: 27341 SDG : CWW89 Number of Soil Samples : 0

Site : 12TH STREET LANDFILL Number of Water Samples : 3

Lab. : IEANJ

Sample Number :		CWW89		CWW90		CWW97					
Sampling Location :		TS-FB-01		TS-RB-01		TS-TP-03W					
Field QC :		Field Blank		Rinsate Blank							
Matrix :		Water		Water		Water					
Units :		ug/L		ug/L		ug/L					
Date Sampled :		08/31/1999		08/31/1999		09/01/1999					
Time Sampled :		15:30		17:15		11:20					
%Moisture :		N/A		N/A		N/A					
pH :											
Dilution Factor :		1.1		1.2		1.0					
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
PHENOL	10	4	J	3	J		UJ				
BIS(2-CHLOROETHYL)ETHER	10						UJ				
2-CHLOROPHENOL	10						UJ				
*1,3-DICHLOROBENZENE	10						UJ				
*1,4-DICHLOROBENZENE	10						UJ				
1,2-DICHLOROBENZENE	10						UJ				
2-METHYLPHENOL	10						UJ				
2,2'-OXYBIS(1-CHLOROPROPANE)	10						UJ				
4-METHYLPHENOL	10						UJ				
N-NITROSO-DI-N-PROPYLAMINE	10						UJ				
HEXACHLOROETHANE	10						UJ				
NITROBENZENE	10										
ISOPHORONE	10										
2-NITROPHENOL	10										
2,4-DIMETHYLPHENOL	10										
BIS(2-CHLOROETHOXY)METHANE	10										
2,4-DICHLOROPHENOL	10										
1,2,4-TRICHLOROBENZENE	10										
NAPHTHALENE	10										
4-CHLOROANILINE	10										
HEXACHLOROBUTADIENE	10										
4-CHLORO-3-METHYLPHENOL	10										
2-METHYLNAPHTHALENE	10										
HEXACHLOROCYCLOPENTADIENE	10										
2,4,6-TRICHLOROPHENOL	10										
2,4,5-TRICHLOROPHENOL	25										
2-CHLORONAPHTHALENE	10										
2-NITROANILINE	25										
DIMETHYLPHTHALATE	10										
ACENAPHTHYLENE	10										
2,6-DINITROTOLUENE	10										
3-NITROANILINE	25										
ACENAPHTHENE	10										
2,4-DINITROPHENOL	25										

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits multiply the CRQL by the Dilution Factor Revised 09/99

ORIGINAL

Case #: 27341 SDG : CWW62

Site : 12TH STREET LANDFILL

Lab. : IEANJ

Sample Number :		CXJ69									
Sampling Location :		TS-SS-02									
Field QC :											
Matrix :		Soil									
Units :		ug/Kg									
Date Sampled :		08/31/1999									
Time Sampled :		09:00									
%Moisture :		22									
pH :		7.8									
Dilution Factor :		1.0									
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4-NITROPHENOL	830										
DIBENZOFURAN	330										
2,4-DINITROTOLUENE	330										
DIETHYLPHTHALATE	330										
4-CHLOROPHENYL-PHENYLETHER	330										
FLUORENE	330										
4-NITROANILINE	830										
4,6-DINITRO-2-METHYLPHENOL	830										
N-NITROSODIPHENYLAMINE	330										
4-BROMOPHENYL-PHENYLETHER	330										
HEXACHLOROBENZENE	330										
PENTACHLOROPHENOL	830										
PHENANTHRENE	330	210	J								
ANTHRACENE	330	61	J								
CARBAZOLE	330										
DI-N-BUTYLPHTHALATE	330	49	J								
FLUORANTHENE	330	390	J								
PYRENE	330	490									
BUTYLBENZYLPHTHALATE	330	110	J								
3,3'-DICHLOROBENZIDINE	330										
BENZO(A)ANTHRACENE	330	330	J								
CHRYSENE	330	260	J								
BIS(2-ETHYLHEXYL)PHTHALATE	330	1400									
DI-N-OCTYLPHTHALATE	330	150	J								
BENZO(B)FLUORANTHENE	330	510									
BENZO(K)FLUORANTHENE	330	180	J								
BENZO(A)PYRENE	330	300	J								
INDENO(1,2,3-CD)PYRENE	330	200	J								
DIBENZ(A,H)ANTHRACENE	330	59	J								
BENZO(G,H,I)PERYLENE	330	180	J								

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

Revised 09/99

○ - highlighted by Towle

Case #: 27341 SDG : CWW62

Site : 12TH STREET LANDFILL

Lab. : IEANJ

Sample Number :		CXJ69									
Sampling Location :		TS-SS-02									
Field QC :											
Matrix :		Soil									
Units :		ug/Kg									
Date Sampled :		08/31/1999									
Time Sampled :		09:00									
%Moisture :		22									
pH :		7.8									
Dilution Factor :		1.0									
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
PHENOL	330										
BIS(2-CHLOROETHYL)ETHER	330										
2-CHLOROPHENOL	330										
1,3-DICHLOROBENZENE	330										
1,4-DICHLOROBENZENE	330										
1,2-DICHLOROBENZENE	330										
2-METHYLPHENOL	330										
2,2'-OXYBIS(1-CHLOROPROPANE)	330										
4-METHYLPHENOL	330										
N-NITROSO-DI-N-PROPYLAMINE	330										
HEXACHLOROETHANE	330										
NITROBENZENE	330										
ISOPHORONE	330										
2-NITROPHENOL	330										
2,4-DIMETHYLPHENOL	330										
BIS(2-CHLOROETHOXY)METHANE	330										
2,4-DICHLOROPHENOL	330										
1,2,4-TRICHLOROBENZENE	330										
NAPHTHALENE	330										
4-CHLOROANILINE	330										
HEXACHLOROBUTADIENE	330										
4-CHLORO-3-METHYLPHENOL	330										
2-METHYLNAPHTHALENE	330	32	J								
HEXACHLOROCYCLOPENTADIENE	330										
2,4,6-TRICHLOROPHENOL	330										
2,4,5-TRICHLOROPHENOL	830										
2-CHLORONAPHTHALENE	330										
2-NITROANILINE	830										
DIMETHYLPHTHALATE	330										
ACENAPHTHYLENE	330	41	J								
2,6-DINITROTOLUENE	330										
3-NITROANILINE	830										
ACENAPHTHENE	330										
2,4-DINITROPHENOL	830										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

Revised 09/99

○ - highlighted by table

ORIGINAL

Case #: 27341 SDG : CWW62

Site : 12TH STREET LANDFILL

Lab. : IEANJ

Sample Number :		CWW91		CWW92		CWW93		CXJ67RR		CXJ68DL	
Sampling Location :		TS-SB-01		TS-SB-02		TS-SB-03		TS-SED-02		TS-SS-01	
Field QC :											
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		08/31/1999		09/01/1999		09/01/1999		08/31/1999		08/31/1999	
Time Sampled :		13:40		08:50		13:40		08:35		08:55	
%Moisture :		36		33		2		21		12	
pH :		8.1		8.1		6.9		7.5		8.0	
Dilution Factor :		1.0		1.0 / 2.0		1.0		1.0		10.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4-NITROPHENOL	830										
DIBENZOFURAN	330	85	J	50	J						
2,4-DINITROTOLUENE	330										
DIETHYLPHTHALATE	330										
4-CHLOROPHENYL-PHENYLETHER	330										
FLUORENE	330			39	J						
4-NITROANILINE	830										
4,6-DINITRO-2-METHYLPHENOL	830										
N-NITROSODIPHENYLAMINE	330										
4-BROMOPHENYL-PHENYLETHER	330										
HEXACHLOROBENZENE	330										
PENTACHLOROPHENOL	830										
PHENANTHRENE	330	57	J	440	J					220	J
ANTHRACENE	330			100	J					64	J
CARBAZOLE	330			50	J						
DI-N-BUTYLPHTHALATE	330	1100		68	J					42	J
FLUORANTHENE	330	71	J	910						450	J
PYRENE	330	110	J	1000		26	J			490	J
BUTYLBENZYLPHTHALATE	330	190	J	150	J						
3,3'-DICHLOROBENZIDINE	330										
BENZO(A)ANTHRACENE	330	50	J	640						250	J
CHRYSENE	330	62	J	610						360	J
BIS(2-ETHYLHEXYL)PHTHALATE	330	1100		3000 +		1100		28	B	22000	
DI-N-OCTYLPHTHALATE	330	290	J	190	J					86	J
BENZO(B)FLUORANTHENE	330	99	J	940						400	J
BENZO(K)FLUORANTHENE	330	42	J	320	J					210	J
BENZO(A)PYRENE	330	59	J	620						270	J
INDENO(1,2,3-CD)PYRENE	330	44	J	340	J					140	J
DIBENZ(A,H)ANTHRACENE	330			96	J						
BENZO(G,H,I)PERYLENE	330	79	J	310	J	36	J			120	J

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

Revised 09/99

+ = Result reported from diluted sample analysis.

○ - highlighted by Towle

Case #: 27341 SDG : CWW62

Site : 12TH STREET LANDFILL

Lab. : IEANJ

Sample Number :		CWW91		CWW92		CWW93		CXJ67RR		CXJ68DL	
Sampling Location :		TS-SB-01		TS-SB-02		TS-SB-03		TS-SED-02		TS-SS-01	
Field QC :											
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		08/31/1999		09/01/1999		09/01/1999		08/31/1999		08/31/1999	
Time Sampled :		13:40		08:50		13:40		08:35		08:55	
%Moisture :		36		33		2		21		12	
pH :		8.1		8.1		6.9		7.5		8.0	
Dilution Factor :		1.0		1.0 / 2.0		1.0		1.0		10.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
PHENOL	330	620	B							110	B
BIS(2-CHLOROETHYL)ETHER	330										
2-CHLOROPHENOL	330										
1,3-DICHLOROBENZENE	330										
1,4-DICHLOROBENZENE	330										
1,2-DICHLOROBENZENE	330										
2-METHYLPHENOL	330	46	J								
2,2'-OXYBIS(1-CHLOROPROPANE)	330										
4-METHYLPHENOL	330										
N-NITROSO-DI-N-PROPYLAMINE	330										
HEXACHLOROETHANE	330										
NITROBENZENE	330										
ISOPHORONE	330	57	J	65	J					24	J
2-NITROPHENOL	330										
2,4-DIMETHYLPHENOL	330										
BIS(2-CHLOROETHOXY)METHANE	330										
2,4-DICHLOROPHENOL	330										
1,2,4-TRICHLOROBENZENE	330										
NAPHTHALENE	330	50	J	84	J						
4-CHLOROANILINE	330										
HEXACHLOROBUTADIENE	330										
4-CHLORO-3-METHYLPHENOL	330										
2-METHYLNAPHTHALENE	330	130	J	1300						20	J
HEXACHLOROCYCLOPENTADIENE	330										
2,4,6-TRICHLOROPHENOL	330										
2,4,5-TRICHLOROPHENOL	830										
2-CHLORONAPHTHALENE	330										
2-NITROANILINE	830										
DIMETHYLPHTHALATE	330	54	J								
ACENAPHTHYLENE	330			92	J					45	J
2,6-DINITROTOLUENE	330										
3-NITROANILINE	830										
ACENAPHTHENE	330	69	J	65	J						
2,4-DINITROPHENOL	830										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

Revised 09/99

○ - highlighted by tonie

ORIGINAL

Case #: 27341 SDG : CWW62

Site : 12TH STREET LANDFILL

Lab. : IEANJ

Sample Number :		CWW62		CWW84		CWW85		CWW86		CWW88	
Sampling Location :		TS-SED-01		TS-SS-03		TS-SS-04		TS-SS-05		TS-FD-01	
Field QC :								Fld. Dup. CWW88		Fld. Dup. CWW86	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		08/31/1999		08/31/1999		08/31/1999		08/31/1999		08/31/1999	
Time Sampled :		08:15		09:10		09:20		09:30		00:00	
%Moisture :		27		21		28		22		22	
pH :		7.3		8.0		7.5		7.6		7.7	
Dilution Factor :		2.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4-NITROPHENOL	830										
DIBENZOFURAN	330									88	J
2,4-DINITROTOLUENE	330										
DIETHYLPHTHALATE	330										
4-CHLOROPHENYL-PHENYLETHER	330										
FLUORENE	330							41	J	110	J
4-NITROANILINE	830										
4,6-DINITRO-2-METHYLPHENOL	830										
N-NITROSODIPHENYLAMINE	330										
4-BROMOPHENYL-PHENYLETHER	330										
HEXACHLOROBENZENE	330										
PENTACHLOROPHENOL	830										
PHENANTHRENE	330	NL 81	J	250	J	200	J	470		980	
ANTHRACENE	330	35	J	65	J	140	J	110	J	230	J
CARBAZOLE	330					37	J	35	J	120	J
DI-N-BUTYLPHTHALATE	330	130	J	63	J	78	J	62	J	63	J
FLUORANTHENE	330	200	J	480		840		800		1200	
PYRENE	330	260	J	500		980		920		1400	
BUTYLBENZYLPHTHALATE	330	55	J	71	J	100	J	59	J	76	J
3,3'-DICHLOROBENZIDINE	330										
BENZO(A)ANTHRACENE	330	180	J	360	J	740		510		740	
CHRYSENE	330	160	J	300	J	900		420		630	
BIS(2-ETHYLHEXYL)PHTHALATE	330	1000		900		1400		890		980	
DI-N-OCTYLPHTHALATE	330	66	J	87	J	140	J	74	J	91	J
BENZO(B)FLUORANTHENE	330	200	J	540		2000		660		920	
BENZO(K)FLUORANTHENE	330	100	J	210	J	570		260	J	320	J
BENZO(A)PYRENE	330	170	J	370	J	1000		470		630	
INDENO(1,2,3-CD)PYRENE	330	79	J	250	J	530		270	J	290	J
DIBENZ(A,H)ANTHRACENE	330	29	J	76	J	170	J	80	J	86	J
BENZO(G,H,I)PERYLENE	330	92	J	260	J	530		270	J	320	J

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

Revised 09/99

▭ - Exceeds RBC level

◯ - highlighted by Towle.

Case #: 27341 SDG : CWW62

Site : 12TH STREET LANDFILL

Lab. : IEANJ

Number of Soil Samples : 11

Number of Water Samples : 0

Sample Number :		CWW62		CWW84		CWW85		CWW86		CWW88	
Sampling Location :		TS-SED-01		TS-SS-03		TS-SS-04		TS-SS-05		TS-FD-01	
Field QC :								Fld. Dup. CWW88		Fld. Dup. CWW86	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		08/31/1999		08/31/1999		08/31/1999		08/31/1999		08/31/1999	
Time Sampled :		08:15		09:10		09:20		09:30		00:00	
%Moisture :		27		21		28		22		22	
pH :		7.3		8.0		7.5		7.6		7.7	
Dilution Factor :		2.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
PHENOL	330	49	B	60	B						
BIS(2-CHLOROETHYL)ETHER	330										
2-CHLOROPHENOL	330										
1,3-DICHLOROBENZENE	330										
1,4-DICHLOROBENZENE	330										
1,2-DICHLOROBENZENE	330										
2-METHYLPHENOL	330										
2,2'-OXYBIS(1-CHLOROPROPANE)	330										
4-METHYLPHENOL	330										
N-NITROSO-DI-N-PROPYLAMINE	330										
HEXACHLOROETHANE	330										
NITROBENZENE	330										
ISOPHORONE	330										
2-NITROPHENOL	330										
2,4-DIMETHYLPHENOL	330										
BIS(2-CHLOROETHOXY)METHANE	330										
2,4-DICHLOROPHENOL	330										
1,2,4-TRICHLOROBENZENE	330										
NAPHTHALENE	330			36	J					120	J
4-CHLOROANILINE	330										
HEXACHLOROBUTADIENE	330										
4-CHLORO-3-METHYLPHENOL	330										
2-METHYLNAPHTHALENE	330			55	J	31	J	46	J	62	J
HEXACHLOROCYCLOPENTADIENE	330										
2,4,6-TRICHLOROPHENOL	330										
2,4,5-TRICHLOROPHENOL	830										
2-CHLORONAPHTHALENE	330										
2-NITROANILINE	830										
DIMETHYLPHTHALATE	330					51	J				
ACENAPHTHYLENE	330			40	J	120	J	47	J	54	J
2,6-DINITROTOLUENE	330										
3-NITROANILINE	830										
ACENAPHTHENE	330							36	J	180	J
2,4-DINITROPHENOL	830										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

Revised 09/99

○ - highlighted by Towle

ORIGINAL

DATA SUMMARY FORM: VOLATILES

Case #: 27341
Site : 12TH STREET LANDFILL
Lab. : IEANJ

SDG : CWW89

Number of Soil Samples : 0
Number of Water Samples : 4

Sample Number :		CWW89		CWW90		CWW96		CWW97			
Sampling Location :		TS-FB-01		TS-RB-01		TS-TB-01		TS-TP-03W			
Field QC :		Field Blank		Rinsate Blank		Trip Blank					
Matrix :		Water		Water		Water		Water			
Units :		ug/L		ug/L		ug/L		ug/L			
Date Sampled :		08/31/1999		08/31/1999		08/31/1999		09/01/1999			
Time Sampled :		15:30		17:15		08:00		11:20			
%Moisture :		N/A		N/A		N/A		N/A			
pH :											
Dilution Factor :		1.0		1.0		1.0		1.0			
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
CHLOROMETHANE	10										
BROMOMETHANE	10										
*VINYL CHLORIDE	10										
CHLOROETHANE	10										
*METHYLENE CHLORIDE	10										
ACETONE	10	93		93		90					
CARBON DISULFIDE	10										
*1,1-DICHLOROETHENE	10										
1,1-DICHLOROETHANE	10										
*TOTAL 1,2-DICHLOROETHENE	10										
CHLOROFORM	10										
*1,2-DICHLOROETHANE	10										
*2-BUTANONE	10	110		110		120					
*1,1,1-TRICHLOROETHANE	10										
*CARBON TETRACHLORIDE	10										
BROMODICHLOROMETHANE	10										
*1,2-DICHLOROPROPANE	10										
CIS-1,3-DICHLOROPROPENE	10										
TRICHLOROETHENE	10										
DIBROMOCHLOROMETHANE	10										
1,1,2-TRICHLOROETHANE	10										
*BENZENE	10										
TRANS-1,3-DICHLOROPROPENE	10										
BROMOFORM	10										
4-METHYL-2-PENTANONE	10										
2-HEXANONE	10	14		9	J	14					
*TETRACHLOROETHENE	10										
1,1,2,2-TETRACHLOROETHANE	10										
*TOLUENE	10										
*CHLOROBENZENE	10										
*ETHYLBENZENE	10										
*STYRENE	10										
*XYLENE (TOTAL)	10										

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits multiply the CRQL by the Dilution Factor

Revised 09/99

Case #: 27341 SDG : CWW62

Site : 12TH STREET LANDFILL

Lab. : IEANJ

Sample Number :		CXJ69									
Sampling Location :		TS-SS-02									
Field QC :											
Matrix :		Soil									
Units :		ug/Kg									
Date Sampled :		08/31/1999									
Time Sampled :		09:00									
%Moisture :		22									
pH :											
Dilution Factor :		1.0									
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
CHLOROMETHANE	10										
BROMOMETHANE	10										
VINYL CHLORIDE	10										
CHLOROETHANE	10										
METHYLENE CHLORIDE	10										
ACETONE	10										
CARBON DISULFIDE	10										
1,1-DICHLOROETHENE	10										
1,1-DICHLOROETHANE	10										
TOTAL 1,2-DICHLOROETHENE	10										
CHLOROFORM	10										
1,2-DICHLOROETHANE	10										
2-BUTANONE	10										
1,1,1-TRICHLOROETHANE	10										
CARBON TETRACHLORIDE	10										
BROMODICHLOROMETHANE	10										
1,2-DICHLOROPROPANE	10										
CIS-1,3-DICHLOROPROPENE	10										
TRICHLOROETHENE	10										
DIBROMOCHLOROMETHANE	10										
1,1,2-TRICHLOROETHANE	10										
BENZENE	10										
TRANS-1,3-DICHLOROPROPENE	10										
BROMOFORM	10										
4-METHYL-2-PENTANONE	10										
2-HEXANONE	10										
TETRACHLOROETHENE	10										
1,1,2,2-TETRACHLOROETHANE	10										
TOLUENE	10										
CHLOROBENZENE	10										
ETHYLBENZENE	10										
STYRENE	10										
XYLENE (TOTAL)	10										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

Revised 09/99

ORIGINAL

DATA SUMMARY FORM: VOLATILES

Case #: 27341 SDG : CWW62
Site : 12TH STREET LANDFILL
Lab. : IEANJ

Sample Number :		CWW91		CWW92		CWW93		CXJ67		CXJ68	
Sampling Location :		TS-SB-01		TS-SB-02		TS-SB-03		TS-SED-02		TS-SS-01	
Field QC :											
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		08/31/1999		09/01/1999		09/01/1999		08/31/1999		08/31/1999	
Time Sampled :		13:40		08:50		13:40		08:35		08:55	
%Moisture :		36		33		2		27		27	
pH :											
Dilution Factor :		1.0		1.0 / 10.0		1.0		1.0		1.0	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
CHLOROMETHANE	10										
BROMOMETHANE	10										
VINYL CHLORIDE	10										
CHLOROETHANE	10										
METHYLENE CHLORIDE	10	11	B	9	B	3	B	4	B	7	B
ACETONE	10										
CARBON DISULFIDE	10										
1,1-DICHLOROETHENE	10										
1,1-DICHLOROETHANE	10										
TOTAL 1,2-DICHLOROETHENE	10										
CHLOROFORM	10										
1,2-DICHLOROETHANE	10										
2-BUTANONE	10										
1,1,1-TRICHLOROETHANE	10										
CARBON TETRACHLORIDE	10										
BROMODICHLOROMETHANE	10										
1,2-DICHLOROPROPANE	10										
CIS-1,3-DICHLOROPROPENE	10										
TRICHLOROETHENE	10										
DIBROMOCHLOROMETHANE	10										
1,1,2-TRICHLOROETHANE	10										
BENZENE	10										
TRANS-1,3-DICHLOROPROPENE	10										
BROMOFORM	10										
4-METHYL-2-PENTANONE	10										
2-HEXANONE	10										
TETRACHLOROETHENE	10										
1,1,2,2-TETRACHLOROETHANE	10										
TOLUENE	10			1900 +							
CHLOROBENZENE	10										
ETHYLBENZENE	10										
STYRENE	10										
XYLENE (TOTAL)	10										

CRQL = Contract Required Quantitation Limit
To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)
+ = Result reported from diluted sample analysis.

SEE NARRATIVE FOR CODE DEFINITIONS
Revised 09/99

○ – highlighted by row

DATA SUMMARY FORM: VOLATILES

Case #: 27341 SDG : CWW62

Site : 12TH STREET LANDFILL

Lab. : IEANJ

Number of Soil Samples : 11

Number of Water Samples : 0

Sample Number :		CWW62		CWW84		CWW85		CWW86		CWW88	
Sampling Location :		TS-SED-01		TS-SS-03		TS-SS-04		TS-SS-05		TS-FD-01	
Field QC :								Fld. Dup. CWW88		Fld. Dup. CWW86	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		08/31/1999		08/31/1999		08/31/1999		08/31/1999		08/31/1999	
Time Sampled :		08:15		09:10		09:20		09:30		00:00	
%Moisture :		27		21		28		22		22	
pH :											
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
CHLOROMETHANE	10										
BROMOMETHANE	10										
VINYL CHLORIDE	10										
CHLOROETHANE	10										
METHYLENE CHLORIDE	10	5	B	6	B	4	B			4	B
ACETONE	10										
CARBON DISULFIDE	10										
1,1-DICHLOROETHENE	10										
1,1-DICHLOROETHANE	10										
TOTAL 1,2-DICHLOROETHENE	10										
CHLOROFORM	10										
1,2-DICHLOROETHANE	10										
2-BUTANONE	10										
1,1,1-TRICHLOROETHANE	10										
CARBON TETRACHLORIDE	10										
BROMODICHLOROMETHANE	10										
1,2-DICHLOROPROPANE	10										
CIS-1,3-DICHLOROPROPENE	10										
TRICHLOROETHENE	10										
DIBROMOCHLOROMETHANE	10										
1,1,2-TRICHLOROETHANE	10										
BENZENE	10										
TRANS-1,3-DICHLOROPROPENE	10										
BROMOFORM	10										
4-METHYL-2-PENTANONE	10										
2-HEXANONE	10										
TETRACHLOROETHENE	10										
1,1,2,2-TETRACHLOROETHANE	10										
TOLUENE	10										
CHLOROBENZENE	10										
ETHYLBENZENE	10										
STYRENE	10										
XYLENE (TOTAL)	10										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

Revised 09/99

ESI STUDY NUMBER : 8505
CLIENT: ROY F. WESTON
PROJECT NAME: 0002-L01
TEST DATE: FEBRUARY 24, 2000 - MARCH 9, 2000
***Eisenia foetida* SURVIVAL**

REPLICATE			SAMPLE			
	Lab Control	SS-34	SS-35	SS-36	BG-04	SS-37
A	70%	30%	70%	100%	40%	100%
B	80%	60%	90%	100%	70%	90%
C	100%	60%	70%	100%	70%	70%
D	50%	60%	70%	100%	80%	90%
E	100%	60%	60%	70%	50%	100%
F	100%	80%	40%	70%	80%	70%
G	80%	80%	40%	70%	60%	80%
H	90%	70%	70%	90%	90%	80%
I	70%	80%	50%	60%	80%	100%
J	60%	70%	50%	70%	70%	80%
MEAN	**80.0%**	**65.0%**	**61.0%**	**83.0%**	**69.0%**	**86.0%**
SURVIVAL						

ORIGINAL

ORIGINAL

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

NJ = Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.

Q = No analytical result.

ORIGINAL

DATA SUMMARY FORM: VOLATILES

Case #: 27341 SDG : CWW62

Site : 12TH STREET LANDFILL

Lab. : IEANJ

Number of Soil Samples : 11

Number of Water Samples : 0

Sample Number :		CWW62		CWW84		CWW85		CWW86		CWW88	
Sampling Location :		TS-SED-01		TS-SS-03		TS-SS-04		TS-SS-05		TS-FD-01	
Field QC :								Fld. Dup. CWW88		Fld. Dup. CWW86	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		08/31/1999		08/31/1999		08/31/1999		08/31/1999		08/31/1999	
Time Sampled :		08:15		09:10		09:20		09:30		00:00	
%Moisture :		27		21		28		22		22	
pH :											
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
CHLOROMETHANE	10										
BROMOMETHANE	10										
VINYL CHLORIDE	10										
CHLOROETHANE	10										
METHYLENE CHLORIDE	10	5	B	6	B	4	B			4	B
ACETONE	10										
CARBON DISULFIDE	10										
1,1-DICHLOROETHENE	10										
1,1-DICHLOROETHANE	10										
TOTAL 1,2-DICHLOROETHENE	10										
CHLOROFORM	10										
1,2-DICHLOROETHANE	10										
2-BUTANONE	10										
1,1,1-TRICHLOROETHANE	10										
CARBON TETRACHLORIDE	10										
BROMODICHLOROMETHANE	10										
1,2-DICHLOROPROPANE	10										
CIS-1,3-DICHLOROPROPENE	10										
TRICHLOROETHENE	10										
DIBROMOCHLOROMETHANE	10										
1,1,2-TRICHLOROETHANE	10										
BENZENE	10										
TRANS-1,3-DICHLOROPROPENE	10										
BROMOFORM	10										
4-METHYL-2-PENTANONE	10										
2-HEXANONE	10										
TETRACHLOROETHENE	10										
1,1,2,2-TETRACHLOROETHANE	10										
TOLUENE	10										
CHLOROBENZENE	10										
ETHYLBENZENE	10										
STYRENE	10										
XYLENE (TOTAL)	10										

CRQL = Contract Required Quantitation Limit

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

SEE NARRATIVE FOR CODE DEFINITIONS

Revised 09/99

ORIGINAL

DATA SUMMARY FORM: VOLATILES

Case #: 27341 SDG : CWW62
Site : 12TH STREET LANDFILL
Lab. : IEANJ

Sample Number :		CWW91		CWW92		CWW93		CXJ67		CXJ68	
Sampling Location :		TS-SB-01		TS-SB-02		TS-SB-03		TS-SED-02		TS-SS-01	
Field QC :											
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		08/31/1999		09/01/1999		09/01/1999		08/31/1999		08/31/1999	
Time Sampled :		13:40		08:50		13:40		08:35		08:55	
%Moisture :		36		33		2		27		27	
pH :											
Dilution Factor :		1.0		1.0 / 10.0		1.0		1.0		1.0	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
CHLOROMETHANE	10										
BROMOMETHANE	10										
VINYL CHLORIDE	10										
CHLOROETHANE	10										
METHYLENE CHLORIDE	10	11	B	9	B	3	B	4	B	7	B
ACETONE	10										
CARBON DISULFIDE	10										
1,1-DICHLOROETHENE	10										
1,1-DICHLOROETHANE	10										
TOTAL 1,2-DICHLOROETHENE	10										
CHLOROFORM	10										
1,2-DICHLOROETHANE	10										
2-BUTANONE	10										
1,1,1-TRICHLOROETHANE	10										
CARBON TETRACHLORIDE	10										
BROMODICHLOROMETHANE	10										
1,2-DICHLOROPROPANE	10										
CIS-1,3-DICHLOROPROPENE	10										
TRICHLOROETHENE	10										
DIBROMOCHLOROMETHANE	10										
1,1,2-TRICHLOROETHANE	10										
BENZENE	10										
TRANS-1,3-DICHLOROPROPENE	10										
BROMOFORM	10										
4-METHYL-2-PENTANONE	10										
2-HEXANONE	10										
TETRACHLOROETHENE	10										
1,1,2,2-TETRACHLOROETHANE	10										
TOLUENE	10			1900 +							
CHLOROBENZENE	10										
ETHYLBENZENE	10										
STYRENE	10										
XYLENE (TOTAL)	10										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/ :00)

Revised 09/99

+ = Result reported from diluted sample analysis.

ORIGINAL

DATA SUMMARY FORM: VOLATILES

Case #: 27341 SDG : CWW62

Site : 12TH STREET LANDFILL

Lab. : IEANJ

Sample Number :		CXJ69									
Sampling Location :		TS-SS-02									
Field QC :											
Matrix :		Soil									
Units :		ug/Kg									
Date Sampled :		08/31/1999									
Time Sampled :		09:00									
%Moisture :		22									
pH :											
Dilution Factor :		1.0									
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
CHLOROMETHANE	10										
BROMOMETHANE	10										
VINYL CHLORIDE	10										
CHLOROETHANE	10										
METHYLENE CHLORIDE	10										
ACETONE	10										
CARBON DISULFIDE	10										
1,1-DICHLOROETHENE	10										
1,1-DICHLOROETHANE	10										
TOTAL 1,2-DICHLOROETHENE	10										
CHLOROFORM	10										
1,2-DICHLOROETHANE	10										
2-BUTANONE	10										
1,1,1-TRICHLOROETHANE	10										
CARBON TETRACHLORIDE	10										
BROMODICHLOROMETHANE	10										
1,2-DICHLOROPROPANE	10										
CIS-1,3-DICHLOROPROPENE	10										
TRICHLOROETHENE	10										
DIBROMOCHLOROMETHANE	10										
1,1,2-TRICHLOROETHANE	10										
BENZENE	10										
TRANS-1,3-DICHLOROPROPENE	10										
BROMOFORM	10										
4-METHYL-2-PENTANONE	10										
2-HEXANONE	10										
TETRACHLOROETHENE	10										
1,1,2,2-TETRACHLOROETHANE	10										
TOLUENE	10										
CHLOROBENZENE	10										
ETHYLBENZENE	10										
STYRENE	10										
XYLENE (TOTAL)	10										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

Revised 09/99

ORIGINAL

DATA SUMMARY FORM: VOLATILES

Case #: 27341 SDG : CWW89

Site : 12TH STREET LANDFILL

Lab. : IEANJ

Number of Soil Samples : 0

Number of Water Samples : 4

Sample Number :		CWW89		CWW90		CWW96		CWW97			
Sampling Location :		TS-FB-01		TS-RB-01		TS-TB-01		TS-TP-03W			
Field QC :		Field Blank		Rinsate Blank		Trip Blank					
Matrix :		Water		Water		Water		Water			
Units :		ug/L		ug/L		ug/L		ug/L			
Date Sampled :		08/31/1999		08/31/1999		08/31/1999		09/01/1999			
Time Sampled :		15:30		17:15		08:00		11:20			
%Moisture :		N/A		N/A		N/A		N/A			
pH :											
Dilution Factor :		1.0		1.0		1.0		1.0			
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
CHLOROMETHANE	10										
BROMOMETHANE	10										
*VINYL CHLORIDE	10										
CHLOROETHANE	10										
*METHYLENE CHLORIDE	10										
ACETONE	10	93		93		90					
CARBON DISULFIDE	10										
*1,1-DICHLOROETHENE	10										
1,1-DICHLOROETHANE	10										
*TOTAL 1,2-DICHLOROETHENE	10										
CHLOROFORM	10										
*1,2-DICHLOROETHANE	10										
*2-BUTANONE	10	110		110		120					
*1,1,1-TRICHLOROETHANE	10										
*CARBON TETRACHLORIDE	10										
BROMODICHLOROMETHANE	10										
*1,2-DICHLOROPROPANE	10										
CIS-1,3-DICHLOROPROPENE	10										
TRICHLOROETHENE	10										
DIBROMOCHLOROMETHANE	10										
1,1,2-TRICHLOROETHANE	10										
*BENZENE	10										
TRANS-1,3-DICHLOROPROPENE	10										
BROMOFORM	10										
4-METHYL-2-PENTANONE	10										
2-HEXANONE	10	14		9	J	14					
*TETRACHLOROETHENE	10										
1,1,2,2-TETRACHLOROETHANE	10										
*TOLUENE	10										
*CHLOROBENZENE	10										
*ETHYLBENZENE	10										
*STYRENE	10										
*XYLENE (TOTAL)	10										

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits multiply the CRQL by the Dilution Factor Revised 09/99

ORIGINAL

DATA SUMMARY FORM: BNA

Case #: 27341 SDG : CWW62 Number of Soil Samples : 11
Site : 12TH STREET LANDFILL Number of Water Samples : 0
Lab. : IEANJ

Sample Number :		CWW62		CWW84		CWW85		CWW86		CWW88	
Sampling Location :		TS-SED-01		TS-SS-03		TS-SS-04		TS-SS-05		TS-FD-01	
Field QC :								Fld. Dup. CWW88		Fld. Dup. CWW86	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		08/31/1999		08/31/1999		08/31/1999		08/31/1999		08/31/1999	
Time Sampled :		08:15		09:10		09:20		09:30		00:00	
%Moisture :		27		21		28		22		22	
pH :		7.3		8.0		7.5		7.6		7.7	
Dilution Factor :		2.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
PHENOL	330	49	B	60	B						
BIS(2-CHLOROETHYL)ETHER	330										
2-CHLOROPHENOL	330										
1,3-DICHLOROBENZENE	330										
1,4-DICHLOROBENZENE	330										
1,2-DICHLOROBENZENE	330										
2-METHYLPHENOL	330										
2,2'-OXYBIS(1-CHLOROPROPANE)	330										
4-METHYLPHENOL	330										
N-NITROSO-DI-N-PROPYLAMINE	330										
HEXACHLOROETHANE	330										
NITROBENZENE	330										
ISOPHORONE	330										
2-NITROPHENOL	330										
2,4-DIMETHYLPHENOL	330										
BIS(2-CHLOROETHOXY)METHANE	330										
2,4-DICHLOROPHENOL	330										
1,2,4-TRICHLOROBENZENE	330										
NAPHTHALENE	330			36	J					120	J
4-CHLOROANILINE	330										
HEXACHLOROBUTADIENE	330										
4-CHLORO-3-METHYLPHENOL	330										
2-METHYLNAPHTHALENE	330			55	J	31	J	46	J	62	J
HEXACHLOROCYCLOPENTADIENE	330										
2,4,6-TRICHLOROPHENOL	330										
2,4,5-TRICHLOROPHENOL	830										
2-CHLORONAPHTHALENE	330										
2-NITROANILINE	830										
DIMETHYLPHTHALATE	330					51	J				
ACENAPHTHYLENE	330			40	J	120	J	47	J	54	J
2,6-DINITROTOLUENE	330										
3-NITROANILINE	830										
ACENAPHTHENE	330							36	J	180	J
2,4-DINITROPHENOL	830										

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100) Revised 09/99

ORIGINAL

Case #: 27341 SDG : CWW62

Site : 12TH STREET LANDFILL

Lab. : IEANJ

Sample Number :		CWW62		CWW84		CWW85		CWW86		CWW88	
Sampling Location :		TS-SED-01		TS-SS-03		TS-SS-04		TS-SS-05		TS-FD-01	
Field QC :								Fld. Dup. CWW88		Fld. Dup. CWW86	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		08/31/1999		08/31/1999		08/31/1999		08/31/1999		08/31/1999	
Time Sampled :		08:15		09:10		09:20		09:30		00:00	
%Moisture :		27		21		28		22		22	
pH :		7.3		8.0		7.5		7.6		7.7	
Dilution Factor :		2.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4-NITROPHENOL	830										
DIBENZOFURAN	330									88	J
2,4-DINITROTOLUENE	330										
DIETHYLPHTHALATE	330										
4-CHLOROPHENYL-PHENYLETHER	330										
FLUORENE	330							41	J	110	J
4-NITROANILINE	830										
4,6-DINITRO-2-METHYLPHENOL	830										
N-NITROSODIPHENYLAMINE	330										
4-BROMOPHENYL-PHENYLETHER	330										
HEXACHLOROBENZENE	330										
PENTACHLOROPHENOL	830										
PHENANTHRENE	330	81	J	250	J	200	J	470		980	
ANTHRACENE	330	35	J	65	J	140	J	110	J	230	J
CARBAZOLE	330					37	J	35	J	120	J
DI-N-BUTYLPHTHALATE	330	130	J	63	J	78	J	62	J	63	J
FLUORANTHENE	330	200	J	480		840		800		1200	
PYRENE	330	260	J	500		990		920		1400	
BUTYLBENZYLPHTHALATE	330	55	J	71	J	100	J	59	J	76	J
3,3'-DICHLOROBENZIDINE	330										
BENZO(A)ANTHRACENE	330	180	J	360	J	740		510		740	
CHRYSENE	330	160	J	300	J	900		420		630	
BIS(2-ETHYLHEXYL)PHTHALATE	330	1000		900		1400		890		980	
DI-N-OCTYLPHTHALATE	330	66	J	87	J	140	J	74	J	91	J
BENZO(B)FLUORANTHENE	330	200	J	540		2000		660		920	
BENZO(K)FLUORANTHENE	330	100	J	210	J	570		260	J	320	J
BENZO(A)PYRENE	330	170	J	370	J	1000		470		630	
INDENO(1,2,3-CD)PYRENE	330	79	J	250	J	530		270	J	290	J
DIBENZ(A,H)ANTHRACENE	330	29	J	76	J	170	J	80	J	86	J
BENZO(G,H,I)PERYLENE	330	92	J	260	J	530		270	J	320	J

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

Revised 09/99

ORIGINAL

Case #: 27341 SDG : CWW62

Site : 12TH STREET LANDFILL

Lab. : IEANJ

Sample Number :		CWW91		CWW92		CWW93		CXJ67RR		CXJ68DL	
Sampling Location :		TS-SB-01		TS-SB-02		TS-SB-03		TS-SED-02		TS-SS-01	
Field QC :											
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		08/31/1999		09/01/1999		09/01/1999		08/31/1999		08/31/1999	
Time Sampled :		13:40		08:50		13:40		08:35		08:55	
%Moisture :		36		33		2		21		12	
pH :		8.1		8.1		6.9		7.5		8.0	
Dilution Factor :		1.0		1.0 / 2.0		1.0		1.0		10.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
PHENOL	330	620	B							110	B
BIS(2-CHLOROETHYL)ETHER	330										
2-CHLOROPHENOL	330										
1,3-DICHLOROBENZENE	330										
1,4-DICHLOROBENZENE	330										
1,2-DICHLOROBENZENE	330										
2-METHYLPHENOL	330	46	J								
2,2'-OXYBIS(1-CHLOROPROPANE)	330										
4-METHYLPHENOL	330										
N-NITROSO-DI-N-PROPYLAMINE	330										
HEXACHLOROETHANE	330										
NITROBENZENE	330										
ISOPHORONE	330	57	J	65	J					24	J
2-NITROPHENOL	330										
2,4-DIMETHYLPHENOL	330										
BIS(2-CHLOROETHOXY)METHANE	330										
2,4-DICHLOROPHENOL	330										
1,2,4-TRICHLOROBENZENE	330										
NAPHTHALENE	330	50	J	84	J						
4-CHLOROANILINE	330										
HEXACHLOROBUTADIENE	330										
4-CHLORO-3-METHYLPHENOL	330										
2-METHYLNAPHTHALENE	330	130	J	1300						20	J
HEXACHLOROCYCLOPENTADIENE	330										
2,4,6-TRICHLOROPHENOL	330										
2,4,5-TRICHLOROPHENOL	830										
2-CHLORONAPHTHALENE	330										
2-NITROANILINE	830										
DIMETHYLPHTHALATE	330	54	J								
ACENAPHTHYLENE	330			92	J					45	J
2,6-DINITROTOLUENE	330										
3-NITROANILINE	830										
ACENAPHTHENE	330	69	J	65	J						
2,4-DINITROPHENOL	830										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

Revised 09/99

ORIGINAL

Case #: 27341 SDG : CWW62

Site : 12TH STREET LANDFILL

Lab. : IEANJ

Sample Number :		CWW91		CWW92		CWW93		CXJ67RR		CXJ68DL	
Sampling Location :		TS-SB-01		TS-SB-02		TS-SB-03		TS-SED-02		TS-SS-01	
Field QC :											
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		08/31/1999		09/01/1999		09/01/1999		08/31/1999		08/31/1999	
Time Sampled :		13:40		08:50		13:40		08:35		08:55	
%Moisture :		36		33		2		21		12	
pH :		8.1		8.1		6.9		7.5		8.0	
Dilution Factor :		1.0		1.0 / 2.0		1.0		1.0		10.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4-NITROPHENOL	830										
DIBENZOFURAN	330	85	J	50	J						
2,4-DINITROTOLUENE	330										
DIETHYLPHTHALATE	330										
4-CHLOROPHENYL-PHENYLETHER	330										
FLUORENE	330			39	J						
4-NITROANILINE	830										
4,6-DINITRO-2-METHYLPHENOL	830										
N-NITROSODIPHENYLAMINE	330										
4-BROMOPHENYL-PHENYLETHER	330										
HEXACHLOROBENZENE	330										
PENTACHLOROPHENOL	830										
PHENANTHRENE	330	57	J	440	J					220	J
ANTHRACENE	330			100	J					64	J
CARBAZOLE	330			50	J						
DI-N-BUTYLPHTHALATE	330	1100		68	J					42	J
FLUORANTHENE	330	71	J	910						450	J
PYRENE	330	110	J	1000		26	J			490	J
BUTYLBENZYLPHTHALATE	330	190	J	150	J						
3,3'-DICHLOROBENZIDINE	330										
BENZO(A)ANTHRACENE	330	50	J	640						250	J
CHRYSENE	330	62	J	610						360	J
BIS(2-ETHYLHEXYL)PHTHALATE	330	1100		3000 +		1100		28	B	22000	
DI-N-OCTYLPHTHALATE	330	290	J	190	J					88	J
BENZO(B)FLUORANTHENE	330	99	J	940						400	J
BENZO(K)FLUORANTHENE	330	42	J	320	J					210	J
BENZO(A)PYRENE	330	59	J	620						270	J
INDENO(1,2,3-CD)PYRENE	330	44	J	340	J					140	J
DIBENZ(A,H)ANTHRACENE	330			96	J						
BENZO(G,H,I)PERYLENE	330	79	J	310	J	36	J			120	J

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

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+ = Result reported from diluted sample analysis.

ORIGINAL

Case #: 27341 SDG : CWW62

Site : 12TH STREET LANDFILL

Lab. : IEANJ

Sample Number :		CXJ69									
Sampling Location :		TS-SS-02									
Field QC :											
Matrix :		Soil									
Units :		ug/Kg									
Date Sampled :		08/31/1999									
Time Sampled :		09:00									
%Moisture :		22									
pH :		7.8									
Dilution Factor :		1.0									
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
PHENOL	330										
BIS(2-CHLOROETHYL)ETHER	330										
2-CHLOROPHENOL	330										
1,3-DICHLOROBENZENE	330										
1,4-DICHLOROBENZENE	330										
1,2-DICHLOROBENZENE	330										
2-METHYLPHENOL	330										
2,2'-OXYBIS(1-CHLOROPROPANE)	330										
4-METHYLPHENOL	330										
N-NITROSO-DI-N-PROPYLAMINE	330										
HEXACHLOROETHANE	330										
NITROBENZENE	330										
ISOPHORONE	330										
2-NITROPHENOL	330										
2,4-DIMETHYLPHENOL	330										
BIS(2-CHLOROETHOXY)METHANE	330										
2,4-DICHLOROPHENOL	330										
1,2,4-TRICHLOROBENZENE	330										
NAPHTHALENE	330										
4-CHLOROANILINE	330										
HEXACHLOROBUTADIENE	330										
4-CHLORO-3-METHYLPHENOL	330										
2-METHYLNAPHTHALENE	330	32	J								
HEXACHLOROCYCLOPENTADIENE	330										
2,4,6-TRICHLOROPHENOL	330										
2,4,5-TRICHLOROPHENOL	830										
2-CHLORONAPHTHALENE	330										
2-NITROANILINE	830										
DIMETHYLPHTHALATE	330										
ACENAPHTHYLENE	330	41	J								
2,6-DINITROTOLUENE	330										
3-NITROANILINE	830										
ACENAPHTHENE	330										
2,4-DINITROPHENOL	830										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

Revised 09/99

ORIGINAL

Case #: 27341 SDG : CWW62

Site : 12TH STREET LANDFILL

Lab. : IEANJ

Sample Number :		CXJ69									
Sampling Location :		TS-SS-02									
Field QC :											
Matrix :		Soil									
Units :		ug/Kg									
Date Sampled :		08/31/1999									
Time Sampled :		09:00									
%Moisture :		22									
pH :		7.8									
Dilution Factor :		1.0									
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4-NITROPHENOL	830										
DIBENZOFURAN	330										
2,4-DINITROTOLUENE	330										
DIETHYLPHTHALATE	330										
4-CHLOROPHENYL-PHENYLETHER	330										
FLUORENE	330										
4-NITROANILINE	830										
4,6-DINITRO-2-METHYLPHENOL	830										
N-NITROSODIPHENYLAMINE	330										
4-BROMOPHENYL-PHENYLETHER	330										
HEXACHLOROBENZENE	330										
PENTACHLOROPHENOL	830										
PHENANTHRENE	330	210	J								
ANTHRACENE	330	61	J								
CARBAZOLE	330										
DI-N-BUTYLPHTHALATE	330	49	J								
FLUORANTHENE	330	390	J								
PYRENE	330	490									
BUTYLBENZYLPHTHALATE	330	110	J								
3,3'-DICHLOROBENZIDINE	330										
BENZO(A)ANTHRACENE	330	330	J								
CHRYSENE	330	260	J								
BIS(2-ETHYLHEXYL)PHTHALATE	330	1400									
DI-N-OCTYLPHTHALATE	330	150	J								
BENZO(B)FLUORANTHENE	330	510									
BENZO(K)FLUORANTHENE	330	160	J								
BENZO(A)PYRENE	330	300	J								
INDENO(1,2,3-CD)PYRENE	330	200	J								
DIBENZ(A,H)ANTHRACENE	330	59	J								
BENZO(G,H,I)PERYLENE	330	180	J								

CRQL = Contract Required Quantitation Limit

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

SEE NARRATIVE FOR CODE DEFINITIONS

Revised 09/99

ORIGINAL

DATA SUMMARY FORM: BNA

Case #: 27341 SDG : CWW89 Number of Soil Samples : 0

Site : 12TH STREET LANDFILL Number of Water Samples : 3

Lab. : IEANJ

Sample Number :		CWW89		CWW90		CWW97					
Sampling Location :		TS-FB-01		TS-RB-01		TS-TP-03W					
Field QC :		Field Blank		Rinsate Blank							
Matrix :		Water		Water		Water					
Units :		ug/L		ug/L		ug/L					
Date Sampled :		08/31/1999		08/31/1999		09/01/1999					
Time Sampled :		15:30		17:15		11:20					
%Moisture :		N/A		N/A		N/A					
pH :											
Dilution Factor :		1.1		1.2		1.0					
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
PHENOL	10	4	J	3	J		UJ				
BIS(2-CHLOROETHYL)ETHER	10						UJ				
2-CHLOROPHENOL	10						UJ				
*1,3-DICHLOROBENZENE	10						UJ				
*1,4-DICHLOROBENZENE	10						UJ				
1,2-DICHLOROBENZENE	10						UJ				
2-METHYLPHENOL	10						UJ				
2,2'-OXYBIS(1-CHLOROPROPANE)	10						UJ				
4-METHYLPHENOL	10						UJ				
N-NITROSO-DI-N-PROPYLAMINE	10						UJ				
HEXACHLOROETHANE	10						UJ				
NITROBENZENE	10										
ISOPHORONE	10										
2-NITROPHENOL	10										
2,4-DIMETHYLPHENOL	10										
BIS(2-CHLOROETHOXY)METHANE	10										
2,4-DICHLOROPHENOL	10										
1,2,4-TRICHLOROBENZENE	10										
NAPHTHALENE	10										
4-CHLOROANILINE	10										
HEXACHLOROBUTADIENE	10										
4-CHLORO-3-METHYLPHENOL	10										
2-METHYLNAPHTHALENE	10										
HEXACHLOROCYCLOPENTADIENE	10										
2,4,6-TRICHLOROPHENOL	10										
2,4,5-TRICHLOROPHENOL	25										
2-CHLORONAPHTHALENE	10										
2-NITROANILINE	25										
DIMETHYLPHTHALATE	10										
ACENAPHTHYLENE	10										
2,6-DINITROTOLUENE	10										
3-NITROANILINE	25										
ACENAPHTHENE	10										
2,4-DINITROPHENOL	25										

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits multiply the CRQL by the Dilution Factor Revised 09/99

DATA SUMMARY FORM: BNA

Case #: 27341 SDG : CWW89
Site : 12TH STREET LANDFILL
Lab. : IEANJ

Sample Number :		CWW89		CWW90		CWW97					
Sampling Location :		TS-FB-01		TS-RB-01		TS-TP-03W					
Field QC :		Field Blank		Rinsate Blank							
Matrix :		Water		Water		Water					
Units :		ug/L		ug/L		ug/L					
Date Sampled :		08/31/1999		08/31/1999		09/01/1999					
Time Sampled :		15:30		17:15		11:20					
%Moisture :		N/A		N/A		N/A					
pH :											
Dilution Factor :		1.1		1.2		1.0					
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4-NITROPHENOL	25										
DIBENZOFURAN	10										
2,4-DINITROTOLUENE	10										
DIETHYLPHTHALATE	10	1	B	1	B						
4-CHLOROPHENYL-PHENYLETHER	10										
FLUORENE	10										
4-NITROANILINE	25										
4,6-DINITRO-2-METHYLPHENOL	25										
N-NITROSODIPHENYLAMINE	10										
4-BROMOPHENYL-PHENYLETHER	10										
*HEXACHLOROBENZENE	10										
*PENTACHLOROPHENOL	25										
PHENANTHRENE	10										
ANTHRACENE	10										
CARBAZOLE	10										
DI-N-BUTYLPHTHALATE	10										
FLUORANTHENE	10										
PYRENE	10										
BUTYLBENZYLPHTHALATE	10										
3,3'-DICHLOROBENZIDINE	10										
BENZO(A)ANTHRACENE	10										
CHRYSENE	10										
BIS(2-ETHYLHEXYL)PHTHALATE	10										
DI-N-OCTYLPHTHALATE	10										
BENZO(B)FLUORANTHENE	10										
BENZO(K)FLUORANTHENE	10										
BENZO(A)PYRENE	10										
INDENO(1,2,3-CD)PYRENE	10										
DIBENZ(A,H)ANTHRACENE	10										
BENZO(G,H,I)PERYLENE	10										

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits multiply the CRQL by the Dilution Factor Revised 09/99

ORIGINAL

DATA SUMMARY FORM: PESTICIDES AND PCBS

Case #: 27341 SDG : CWW62 Number of Soil Samples : 11
Site : 12TH STREET LANDFILL Number of Water Samples : 0
Lab. : IEANJ

Sample Number :		CWW62		CWW84		CWW85		CWW86		CWW88	
Sampling Location :		TS-SED-01		TS-SS-03		TS-SS-04		TS-SS-05		TS-FD-01	
Field QC :								Fld. Dup. CWW88		Fld. Dup. CWW86	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		08/31/1999		08/31/1999		08/31/1999		08/31/1999		08/31/1999	
Time Sampled :		08:15		09:10		09:20		09:30		00:00	
%Moisture :		27		21		28		22		22	
pH :		7.3		8.0		7.5		7.6		7.7	
Dilution Factor :		0.99		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	1.7										
BETA-BHC	1.7										
DELTA-BHC	1.7										
GAMMA-BHC (LINDANE)	1.7										
HEPTACHLOR	1.7										
ALDRIN	1.7										
HEPTACHLOR EPOXIDE	1.7	0.64	J								
ENDOSULFAN I	1.7			1.1	J	0.94	J	0.38	J	0.36	J
DIELDRIN	3.3			4.9	J	9.4	J				
4,4'-DDE	3.3	2.0	J	2.0	J	2.2	J	1.1	J	2.0	J
ENDRIN	3.3	3.2	J	2.6	J	4.2	J	4.1	J	2.7	J
ENDOSULFAN II	3.3	5.9	J	1.9	J	5.2	J	4.3	J	2.0	J
4,4'-DDD	3.3	11		4.5		9.6		9.1	J	6.5	J
ENDOSULFAN SULFATE	3.3	1.6	J								
4,4'-DDT	3.3	1.6	J	4.3	J	6.6	J	3.7	J	3.5	J
METHOXYCHLOR	17			4.1	J	33		10	J	6.4	J
ENDRIN KETONE	3.3										
ENDRIN ALDEHYDE	3.3	12	J	4.1	J	7.4	J	2.0	J	2.2	J
ALPHA-CHLORDANE	1.7	2.6	J					1.4	J		
GAMMA-CHLORDANE	1.7	1.9	J								
TOXAPHENE	170										
AROCLOR-1016	33										
AROCLOR-1221	67										
AROCLOR-1232	33										
AROCLOR-1242	33										
AROCLOR-1248	33										
AROCLOR-1254	33										
AROCLOR-1260	33	170	J	68	J	100	J	65		68	J

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

Revised 09/99

DATA SUMMARY FORM: PESTICIDES AND PCBS

Case #: 27341 SDG : CWW62
Site : 12TH STREET LANDFILL
Lab. : IEANJ

Sample Number :		CWW91		CWW92		CWW93		CXJ67		CXJ68	
Sampling Location :		TS-SB-01		TS-SB-02		TS-SB-03		TS-SED-02		TS-SS-01	
Field QC :											
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		08/31/1999		09/01/1999		09/01/1999		08/31/1999		08/31/1999	
Time Sampled :		13:40		08:50		13:40		08:35		08:55	
%Moisture :		36		33		2		21		12	
pH :		8.1		8.1		6.9		7.5		8.0	
Dilution Factor :		1.0		1.0		1.0		0.99		1.0	
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	1.7							0.13	J		
BETA-BHC	1.7										
DELTA-BHC	1.7										
GAMMA-BHC (LINDANE)	1.7										
HEPTACHLOR	1.7										
ALDRIN	1.7										
HEPTACHLOR EPOXIDE	1.7	0.83	J			0.55	J				
ENDOSULFAN I	1.7	0.39	J			0.28	J			0.62	J
DIELDRIN	3.3	1.4	J	2.1	J	0.35	J				
4,4'-DDE	3.3	2.0	J	11	J	1.5	J			2.7	J
ENDRIN	3.3	3.4	J	12	J	2.1	J			3.6	J
ENDOSULFAN II	3.3	2.8	J	5.3	J						
4,4'-DDD	3.3	4.4	J	10	J	12	J	0.81	J	13	
ENDOSULFAN SULFATE	3.3										
4,4'-DDT	3.3	1.8	J	9.8	J			0.66	J	8.4	J
METHOXYCHLOR	17	5.2	J	16	J					87	J
ENDRIN KETONE	3.3										
ENDRIN ALDEHYDE	3.3			5.4	J	1.0	J			13	J
ALPHA-CHLORDANE	1.7	0.94	J			1.7		0.15	J		
GAMMA-CHLORDANE	1.7					0.24	J			5.4	J
TOXAPHENE	170										
AROCLOR-1016	33										
AROCLOR-1221	67										
AROCLOR-1232	33										
AROCLOR-1242	33										
AROCLOR-1248	33										
AROCLOR-1254	33	37	J	150	J	27	J			130	J
AROCLOR-1260	33			71						200	

CRQL = Contract Required Quantitation Limit

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

SEE NARRATIVE FOR CODE DEFINITIONS

Revised 09/99

ORIGINAL

DATA SUMMARY FORM: PESTICIDES AND PCBS

Case #: 27341 SDG : CVW62
Site : 12TH STREET LANDFILL
Lab. : IEANJ

Sample Number :		CXJ69									
Sampling Location :		TS-SS-02									
Field QC :											
Matrix :		Soil									
Units :		ug/Kg									
Date Sampled :		08/31/1999									
Time Sampled :		09:00									
%Moisture :		22									
pH :		7.8									
Dilution Factor :		1.0									
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	1.7										
BETA-BHC	1.7										
DELTA-BHC	1.7										
GAMMA-BHC (LINDANE)	1.7										
HEPTACHLOR	1.7										
ALDRIN	1.7	0.35	J								
HEPTACHLOR EPOXIDE	1.7										
ENDOSULFAN I	1.7										
DIELDRIN	3.3	4.5									
4,4'-DDE	3.3	1.0	J								
ENDRIN	3.3										
ENDOSULFAN II	3.3	1.6	J								
4,4'-DDD	3.3										
ENDOSULFAN SULFATE	3.3										
4,4'-DDT	3.3	2.9	J								
METHOXYCHLOR	17	9.0	J								
ENDRIN KETONE	3.3										
ENDRIN ALDEHYDE	3.3	2.3	J								
ALPHA-CHLORDANE	1.7										
GAMMA-CHLORDANE	1.7										
TOXAPHENE	170										
AROCLOR-1016	33										
AROCLOR-1221	67										
AROCLOR-1232	33										
AROCLOR-1242	33										
AROCLOR-1248	33										
AROCLOR-1254	33										
AROCLOR-1260	33	48									

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor/((100 - %Moisture)/100)

Revised 09/99

ORIGINAL

DATA SUMMARY FORM: PESTICIDES AND PCBS

Case #: 27341 SDG : CWW89 Number of Soil Samples : 0
Site : 12TH STREET LANDFILL Number of Water Samples : 3
Lab. : IEANJ

Sample Number :		CWW89		CWW90		CWW97					
Sampling Location :		TS-FB-01		TS-RB-01		TS-TP-03W					
Field QC :		Field Blank		Rinsate Blank							
Matrix :		Water		Water		Water					
Units :		ug/L		ug/L		ug/L					
Date Sampled :		08/31/1999		08/31/1999		09/01/1999					
Time Sampled :		15:30		17:15		11:20					
%Moisture :		0		0		0					
pH :											
Dilution Factor :		1.1		1.1		1.0					
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALPHA-BHC	0.050										
BETA-BHC	0.050										
DELTA-BHC	0.050										
*GAMMA-BHC (LINDANE)	0.050										
*HEPTACHLOR	0.050										
ALDRIN	0.050										
HEPTACHLOR EPOXIDE	0.050										
ENDOSULFAN I	0.050										
DIELDRIN	0.10										
4,4'-DDE	0.10										
*ENDRIN	0.10										
ENDOSULFAN II	0.10										
4,4'-DDD	0.10										
ENDOSULFAN SULFATE	0.10										
4,4'-DDT	0.10										
*METHOXYCHLOR	0.50										
ENDRIN KETONE	0.10										
ENDRIN ALDEHYDE	0.10										
ALPHA-CHLORDANE	0.050										
GAMMA-CHLORDANE	0.050										
*TOXAPHENE	5.0										
*AROCLOR-1016	1.0										
*AROCLOR-1221	2.0										
*AROCLOR-1232	1.0										
*AROCLOR-1242	1.0										
*AROCLOR-1248	1.0										
*AROCLOR-1254	1.0										
*AROCLOR-1260	1.0										

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits multiply the CRQL by the Dilution Factor Revised 09/99

GLOSSARY OF DATA QUALIFIER CODES

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

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

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.

[] = Analyte present. As values approach the IDL the quantitation may not be accurate.

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

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

Q = No analytical result.

DATA SUMMARY FORM: I N O R G A N I C S

Site Name: 12TH STREET LANDFILL

WATER SAMPLES
(ug/L)

Case #: 27341 Sampling Date(s): 08/31/1999 - 09/01/1999

SDG #: MCWY47

+ Due to dilution, sample quantitation limit is affected.
See dilution table for specifics.

	Sample No.	MCYC03		MCYC04		MCYC10																	
	Dilution Factor	1.00		1.00		1.00 / 25.00																	
	Location	TS-FB-01		TS-RB-01		TS-TP-03W																	
		SAMPLE IS A FIELD BLANK		SAMPLE IS A RINSATE BLANK																			
CRDL	ANALYTE																						
200	Aluminum		UL		UL		UL																
60	Antimony	[3.2]	B			[4.1]	B																
10	*Arsenic					[5.2]																	
200	Barium					[144]																	
5	Beryllium																						
5	*Cadmium																						
5000	Calcium		UL		UL	319000																	
10	*Chromium																						
50	Cobalt					[2.5]																	
25	Copper																						
100	Iron					20800																	
3	*Lead	40.4	L	10.4	L	5.3	B																
5000	Magnesium		UL		UL	74300																	
15	Manganese					882																	
0.2	Mercury				UL	[0.11]																	
40	*Nickel					[18.3]																	
5000	Potassium	[42.5]				22100																	
5	Selenium					14.3																	
10	Silver																						
5000	Sodium	[2880]	J	[2850]	J	679000 +	J																
10	Thallium		UL		UL		UL																
50	Vanadium																						
20	Zinc	[6.0]	B	[4.4]	B	75.5	J																
10	*Cyanide		UL		UL		UL																

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 02/98

DATA SUMMARY FORM: I N O R G A N I C S

Site Name: 12TH STREET LANDFILL

SOIL SAMPLES
(mg/Kg)

Case #: 27341 Sampling Date(s): 08/31/1999 - 09/01/99
SDG #: MCWY47

+ Due to dilution, sample quantitation limit is affected.
See dilution table for specifics.

	Sample No.	MCWY47		MCWY48		MCYB96		MCYB97		MCYB98		MCYB99		MCYC00		MCYC02		MCYC05		MCYC06	
	Dilution Factor	1.00		1.00		1.00 / 50.00		1.00 / 20.00		1.00 / 5.00		1.00		1.00 / 5.00		1.00 / 5.00		1.00 / 5.00		1.00/5.00/100	
	% Solids	78.2		73.5		86.3		81.0		78.6		72.9		80.5		78.9		61.9		88.0	
	Location	TS-SED-02		TS-SED-01		TS-SS-01		TS-SS-02		TS-SS-03		TS-SS-04		TS-SS-05		TS-FD-01		TS-SB-01		TS-SB-02	
														DUPLICATE OF MCYC02		DUPLICATE OF MCYC00					
CRDL	ANALYTE																				
40	Aluminum	16100		13300		23700		13400		13300		14700		16300		15100		45100		25200	
12	Antimony	[0.86]	B	[6.6]	L	[1.2]	B	[2.4]	B	[4.9]	L	[2.0]	B	[4.5]	L	[3.0]	B	[5.1]	B	[2.7]	B
2	Arsenic	5.9	K	15.7	K	33.6	K	48.8	K	117	K	24.0	K	96.3	K	96.9	K	16.2	K	29.4	K
40	Barium	67.1	J	164	J	485	J	200	J	334	J	193	J	235	J	255	J	1810	J	196	J
1	Beryllium	[0.58]		[0.62]		[0.43]		[0.61]		[0.63]		[0.60]		[0.73]		[0.69]		[0.67]		[0.44]	
1	Cadmium	1.5		4.1		6.5		4.6		6.5		4.0		7.1		7.2		7.6		6.0	
1000	Calcium	1300		2770		12800		7190		6870		14800		14900		20600		22900		9910	
2	Chromium	36.1	J	68.6	J	288	J	160	J	172	J	71.9	J	336	J	461	J	158	J	187	J
10	Cobalt	[8.8]		[11.1]		19.3		52.7		86.3		14.8		86.7		92.7		[14.4]		21.1	
5	Copper	24.5	J	213	J	277	J	263	J	470	J	347	J	353	J	374	J	198	J	273	J
20	Iron	52800	J	40800	J	34000	J	59500	J	82300 +	J	51900	J	88800 +	J	80900 +	J	22300	J	58300	J
0.6	*Lead	1120	J	8370	J	206000 +	J	139000 +	J	7460	J	11100	J	4590	J	5630	J	7670	J	264000 +	J
1000	Magnesium	4050		3350		2920		3950		3420		3180		3930		4450		4060		2140	
3	Manganese	247	J	253	J	435	J	372	J	403	J	348	J	589	J	637	J	272	J	413	J
0.1	Mercury			[0.06]		0.15		0.14		0.23		0.17		0.27		0.34				0.19	
8	Nickel	18.6	J	38.3	J	42.6	J	33.7	J	40.3	J	51.8	J	36.3	J	38.1	J	30.1	J	36.3	J
1000	Potassium	2070		1330		[1130]		1800		1610		[1160]		1560		1460		[963]		[710]	
1	Selenium	[0.86]	J	2.6	J	5.0	J	7.2	J	9.2	J	5.4	J	13.2	J	16.3	J	4.6	J	3.3	J
2	Silver					[1.3]		[1.7]		[1.8]		[0.33]		[1.8]		[1.9]		[0.45]		[1.3]	
1000	Sodium	[780]	B	[1040]	B	[662]	B	[501]	B	[487]	B	[949]	B	[550]	B	[524]	B	1650	B	[608]	B
2	Thallium	5.2		3.8	K			4.3	K	8.5		4.7	K	8.0		6.6		[1.1]	K	[1.2]	K
10	Vanadium	56.0		35.9		39.6		39.6		47.7		43.3		53.0		52.1		60.3		32.1	
4	Zinc	153		1180		6120 +		1820		2280		2110		2310		2900		13000 +		5050 +	
1	Cyanide		UL		UL	[0.29]	L	[0.15]	L	[0.21]	L	[0.17]	L	[0.22]	L	[0.23]	L		UL	[0.17]	L

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 02/98

DATA SUMMARY FORM: I N O R G A N I C S

Site Name: 12TH STREET LANDFILL

SOIL SAMPLES
(mg/Kg)

Case #: 27341 Sampling Date(s): 08/31/1999 - 09/01/1999
SDG #: MCWY47

+ Due to dilution, sample quantitation limit is affected.
See dilution table for specifics.

Sample No.	MCYC07		
Dilution Factor	1.00 / 10.00		
% Solids	70.0		
Location	TS-SB-03		
CRDL	ANALYTE		
40	Aluminum	5030	
12	Antimony	[14.3]	L
2	Arsenic	27.8	K
40	Barium	116	J
1	Beryllium		
1	Cadmium	14.7	
1000	Calcium	8980	
2	Chromium	95.4	J
10	Cobalt	53.5	
5	Copper	1590	J
20	Iron	456000 +	J
0.6	*Lead	148	J
1000	Magnesium	1400	
3	Manganese	2810	J
0.1	Mercury	[0.07]	
8	Nickel	111	J
1000	Potassium	[396]	
1	Selenium	3.8	J
2	Silver	[0.67]	
1000	Sodium	[612]	B
2	Thallium	38.7	
10	Vanadium	21.0	
4	Zinc	1510	
1	Cyanide		UL

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 02/98

12 th Street Landfill

Industrial Soil - U.S. EPA CLP

Volatile Organic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	Q
74873	Chloromethane	0.11	U	0.011	U	0.0023	J	0.58	U
74839	Bromomethane	0.11	U	0.011	U	0.001	U	0.58	U
75014	Vinyl chloride	0.11	U	0.011	U	0.001	U	0.58	U
75003	Chloroethane	0.11	U	0.011	U	0.001	U	0.58	U
75092	Methylene chloride	0.42		0.011	U	0.067		0.58	U
67641	Acetone	0.019	J	0.0086	J	0.032		0.58	U
75150	Carbon disulfide	1.2		0.022		0.001	U	0.58	U
75354	1,1-Dichloroethene	0.11	U	0.011	U	0.001	U	0.58	U
75343	1,1-Dichloroethane	0.11	U	0.011	U	0.001	U	0.58	U
540590	1,2-Dichloroethene (total)	0.11	U	0.011	U	0.001	U	0.58	U
67663	Chloroform	0.11	U	0.0015	J	0.001	U	0.58	U
107062	1,2-Dichloroethane	0.11	U	0.011	U	0.001	U	0.58	U
78933	2-Butanone (MEK)	0.11	U	0.0023	J	0.001	U	0.58	U
71556	1,1,1-Trichloroethane	0.11	U	0.011	U	0.001	U	0.58	U
56235	Carbon tetrachloride	0.11	U	0.011	U	0.001	U	0.58	U
75274	Bromodichloromethane	0.11	U	0.011	U	0.001	U	0.58	U
78875	1,2-Dichloropropane	0.11	U	0.011	U	0.001	U	0.58	U
542756	1,3-Dichloropropene	0.11	U	0.011	U	0.001	U	0.58	U
79016	Trichloroethene	0.11	U	0.011	U	0.001	U	0.58	U
124481	Dibromochloromethane	0.11	U	0.011	U	0.001	U	0.58	U
79005	1,1,2-Trichloroethane	0.11	U	0.011	U	0.001	U	0.58	U
71432	Benzene	0.069	J	0.011	U	0.001	U	0.58	U
75252	Bromoform	0.11	U	0.011	U	0.001	U	0.58	U
108101	4-Methyl-2-pentanone	0.11	U	0.011	U	0.001	U	0.58	U
591786	2-Hexanone	0.11	U	0.011	U	0.001	U	0.58	U
127184	Tetrachloroethene	0.11	U	0.0058	J	0.001	U	0.58	U
79345	1,1,2,2-Tetrachloroethane	0.11	U	0.011	U	0.001	U	0.58	U
108883	Toluene	730		21		0.065		1,200	
108907	Chlorobenzene	0.11	U	0.011	U	0.001	U	0.58	U
100414	Ethylbenzene	0.046	J	0.0034	J	0.001	U	0.58	U
100425	Styrene	0.11	U	0.011	U	0.001	U	0.58	U
1330207	Xylene (total)	0.067	J	0.017		0.0046	J	0.58	U

U - Not Detected
J - Approximate

12 th Street Landfill

Industrial Soil - U.S. EPA CLP

Semi-Volatile Organic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	Q
108952	Phenol	70	U	9.1	U	530	U	210	
111444	bis(2-Chloroethyl) ether	70	U	9.1	U	530	U	19	U
95578	2-Chlorophenol	70	U	9.1	U	530	U	19	U
541731	1,3-Dichlorobenzene	70	U	9.1	U	530	U	19	U
106467	1,4-Dichlorobenzene	70	U	9.1	U	530	U	19	U
95501	1,2-Dichlorobenzene	70	U	9.1	U	530	U	19	U
95487	2-Methylphenol	70	U	9.1	U	530	U	19	U
108601	2,2'-oxybis(1-Chloropropane)	70	U	9.1	U	530	U	19	U
106445	4-Methylphenol	70	U	9.1	U	530	U	19	U
621647	N-Nitroso-di-n-propylamine	70	U	9.1	U	530	U	19	U
67721	Hexachloroethane	70	U	9.1	U	530	U	19	U
98953	Nitrobenzene	70	U	9.1	U	530	U	19	U
78591	Isophorone	70	U	9.1	U	530	U	19	U
88755	2-Nitrophenol	70	U	9.1	U	530	U	19	U
105679	2,4-Dimethylphenol	70	U	9.1	U	530	U	19	U
111911	bis(2-Chloroethoxy) methane	70	U	9.1	U	530	U	19	U
120832	2,4-Dichlorophenol	70	U	9.1	U	530	U	19	U
120821	1,2,4-Trichlorobenzene	70	U	9.1	U	530	U	19	U
91203	Naphthalene	70	U	1.6	J	530	U	19	U
106478	4-Chloroaniline	70	U	9.1	U	530	U	19	U
87683	Hexachlorobutadiene	70	U	9.1	U	530	U	19	U
59507	4-Chloro-3-methylphenol	70	U	9.1	U	530	U	19	U
91576	2-Methylnaphthalene	710		58		530	U	19	U
77474	Hexachlorocyclopentadiene	70	U	9.1	U	530	U	19	U
88062	2,4,6-Trichlorophenol	70	U	9.1	U	530	U	19	U
95954	2,4,5-Trichlorophenol	180	U	23	U	1,300	U	49	U
91587	2-Chloronapthalene	70	U	9.1	U	530	U	19	U
88744	2-Nitroaniline	180	U	23	U	1,300	U	49	U
131113	Dimethylphthalate	70	U	9.1	U	530	U	19	U
208968	Acenaphthylene	70	U	9.1	U	530	U	19	U
606202	2,6-Dinitrotoluene	70	U	9.1	U	530	U	19	U
99092	3-Nitroaniline	180	U	23	U	1,300	U	49	U
83329	Acenaphthene	450		9.1	U	75	J	19	U

U - Not Detected
J - Approximate

ORIGINAL

12 th Street Landfill
Industrial Soil - U.S. EPA CLP (continued)
Semi-Volatile Organic Analysis Data Sheet
All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	Q
51285	2,4-Dinitrophenol	180	U	23	U	1,300	U	49	U
100027	4-Nitrophenol	180	U	23	U	1,300	U	49	U
132649	Dibenzofuran	470		9.1	U	530	U	19	U
121142	2,4-Dinitrotoluene	70	U	9.1	U	530	U	19	U
84662	Diethylphthalate	70	U	9.1	U	530	U	19	U
7005723	4-Chlorophenyl-phenylether	70	U	9.1	U	530	U	19	U
86737	Fluorene	90		9.1	J	530	U	19	U
100016	4-Nitroaniline	180	U	23	U	1,300	U	49	U
534521	4,6-Dinitro-2-methylphenol	180	U	23	U	1,300	U	49	U
86306	N-Nitrosodiphenylamine	70	U	9.1	U	530	U	19	U
101553	4-Bromophenyl-phenylether	70	U	9.1	U	530	U	19	U
118741	Hexachlorobenzene	70	U	9.1	U	530	U	19	U
87865	Pentachlorophenol	180	U	23	U	1,300	U	49	U
85018	Phenanthrene	70	U	9.1	U	530	U	19	U
120127	Anthracene	70	U	9.1	U	530	U	19	U
86748	Carbazole	70	U	9.1	U	530	U	19	U
84742	Di-n-butylphthalate	70	U	9.1	U	530	U	19	U
206440	Fluoranthene	70	U	9.1	U	530	U	19	U
129000	Pyrene	70	U	9.1	U	530	U	19	U
85687	Butylbenzylphthalate	70	U	9.1	U	530	U	19	U
91941	3,3'-Dichlorobenzidine	70	U	9.1	U	530	U	19	U
56553	Benzo(a)anthracene	70	U	9.1	U	530	U	19	U
218019	Chrysene	70	U	9.1	U	530	U	19	U
117817	bis(2-Ethylhexyl)phthalate	70	U	68		530	U	20	
117840	Di-n-octylphthalate	70	U	9.1	U	530	U	19	U
205992	Benzo(b)fluoranthene	70	U	9.1	U	530	U	19	U
207089	Benzo(k)fluoranthene	70	U	9.1	U	530	U	19	U
50328	Benzo(a)pyrene	70	U	9.1	U	530	U	19	U
193395	Indeno(1,2,3-cd)pyrene	70	U	9.1	U	530	U	19	U
53703	Dibenz(a,h)anthracene	70	U	9.1	U	530	U	19	U
191242	Benzo(g,h,i)perylene	70	U	9.1	U	530	U	19	U

U - Not Detected
J - Approximate

ORIGINAL

12th Street Landfill

Industrial Soil - U.S. EPA CLP

Pesticide/Polychlorinated Biphenyl Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	Q
319846	alpha-HCH	0.18	U	0.0094	U	0.17	U	0.02	U
319857	beta-HCH	0.18	U	0.0094	U	0.17	U	0.02	U
319868	delta-HCH	0.18	U	0.0094	U	0.17	U	0.02	U
58899	gamma-HCH (Lindane)	0.18	U	0.0094	U	0.17	U	0.02	U
76448	Heptachlor	0.18	U	0.0094	U	0.17	U	0.02	U
309002	Aldrin	0.18	U	0.0094	U	0.17	U	0.02	U
1024573	Heptachlor epoxide	0.18	U	0.0094	U	0.17	U	0.015	J
959988	Endosulfan I	0.18	U	0.0094	U	0.17	U	0.02	U
60571	Dieldrin	0.35	U	0.018	U	0.33	U	0.039	U
72559	4,4'-DDE	0.35	U	0.013	J	0.33	U	0.039	U
72208	Endrin	0.35	U	0.02		0.33	U	0.039	U
33213659	Endosulfan II	0.35	U	0.018	U	0.33	U	0.039	U
72548	4,4'-DDD	0.35	U	0.018	U	0.33	U	0.039	U
1031078	Endosulfan sulfate	0.35	U	0.018	U	0.33	U	0.039	U
50293	4,4'-DDT	0.35	U	0.014	J	0.33	U	0.039	U
72435	Methoxychlor	1.8	U	0.094	U	1.7	U	0.2	U
53494705	Endrin ketone	0.18	U	0.0094	U	0.17	U	0.02	U
7421363	Endrin aldehyde	0.35	U	0.018	U	0.33	U	0.026	J
5103719	alpha-Chlordane	0.18	U	0.0094	U	0.17	U	0.02	U
5103742	gamma-Chlordane	0.18	U	0.0094	U	0.17	U	0.02	U
8001352	Toxaphene	18	U	0.94	U	17	U	2	U
12674112	Aroclor-1016	3.5	U	0.18	U	3.3	U	0.39	U
11104282	Aroclor-1221	7.1	U	0.37	U	6.7	U	0.78	U
11141165	Aroclor-1232	3.5	U	0.18	U	3.3	U	0.39	U
53469219	Aroclor-1242	3.5	U	0.18	U	3.3	U	0.39	U
12672296	Aroclor-1248	3.5	U	0.18	U	3.3	U	0.39	U
11097691	Aroclor-1254	3.5	U	0.18	U	3.3	U	0.39	U
11096825	Aroclor-1260	3.5	U	0.18	U	3.3	U	0.39	U

U - Not detected.
J - Approximate

ORIGINAL

12th Street Landfill

Industrial Soil - U.S. EPA CLP

Inorganic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	
7429905	Aluminum	1,150		17,300				6,450	
7440360	Antimony	0.36	U	1.7				1.2	
7440382	Arsenic	5.1		15.3				19.7	
7440393	Barium	17.3		218				194	
7440417	Beryllium	0.051		0.3				0.3	
7440439	Cadmium	2		3.8				21.2	
7440702	Calcium	564		8,890				4,000	
7440473	Chromium	7.9		146				38.9	
7440484	Cobalt	3.5		8.9				14.8	
7440508	Copper	16.5		192				171	
7439896	Iron	10,300		17,600				48,800	
7439921	Lead	207		106,000				3,970	
7439954	Magnesium	2,010		2,100				1,290	
7439965	Manganese	19.6		167				519	
7439976	Mercury	0		0.23				0.18	
7440020	Nickel	0.14		25				36.9	
7440097	Potassium	240		552				557	
7782492	Selenium	0.84		2.9				1.2	
7440224	Silver	0.47	U	1.1				0.51	U
7440235	Sodium	779		323				165	
7440280	Thallium	0.79	U	4.8				0.87	U
7440622	Vanadium	9		24.5				23.1	
7440666	Zinc	13,600		4,110				1,490	
74908	Cyanide	2.7	U	3.3	U	2.5	U	2.9	U

U - Not detected

Note: There was insufficient sample to analyze sample TS-DC-03 for metals.

Shaded areas exceed EPA Region III Risk Based Concentrations (RBCs)

ORIGINAL

12 th Street Landfill

Residential Sediment - U.S. EPA CLP

Volatile Organic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
74873	Chloromethane	0.013	U	0.013	U	0.013	U	0.013	U
74839	Bromomethane	0.013	U	0.013	U	0.013	U	0.013	U
75014	Vinyl chloride	0.013	U	0.013	U	0.013	U	0.013	U
75003	Chloroethane	0.013	U	0.013	U	0.013	U	0.013	U
75092	Methylene chloride	0.013	U	0.013	U	0.013	U	0.013	U
67641	Acetone	0.013	U	0.0031	J	0.02		0.0022	J
75150	Carbon disulfide	0.013	U	0.013	U	0.0023	J	0.013	U
75354	1,1-Dichloroethene	0.013	U	0.013	U	0.013	U	0.013	U
75343	1,1-Dichloroethane	0.013	U	0.013	U	0.013	U	0.013	U
540590	1,2-Dichloroethene (total)	0.013	U	0.013	U	0.013	U	0.013	U
67663	Chloroform	0.013	U	0.013	U	0.013	U	0.013	U
107062	1,2-Dichloroethane	0.013	U	0.013	U	0.013	U	0.013	U
78933	2-Butanone (MEK)	0.013	U	0.0021	J	0.0053	J	0.0022	J
71556	1,1,1-Trichloroethane	0.013	U	0.013	U	0.013	U	0.013	U
56235	Carbon tetrachloride	0.013	U	0.013	U	0.013	U	0.013	U
75274	Bromodichloromethane	0.013	U	0.013	U	0.013	U	0.013	U
78875	1,2-Dichloropropane	0.013	U	0.013	U	0.013	U	0.013	U
542756	1,3-Dichloropropene	0.013	U	0.013	U	0.013	U	0.013	U
79016	Trichloroethene	0.013	U	0.013	U	0.013	U	0.013	U
124481	Dibromochloromethane	0.013	U	0.013	U	0.013	U	0.013	U
79005	1,1,2-Trichloroethane	0.013	U	0.013	U	0.013	U	0.013	U
71432	Benzene	0.013	U	0.013	U	0.013	U	0.013	U
75252	Bromoform	0.013	U	0.013	U	0.013	U	0.013	U
108101	4-Methyl-2-pentanone	0.013	U	0.013	U	0.013	U	0.013	U
591786	2-Hexanone	0.013	U	0.013	U	0.013	U	0.013	U
127184	Tetrachloroethene	0.013	U	0.013	U	0.0019	J	0.013	U
79345	1,1,2,2-Tetrachloroethane	0.013	U	0.013	U	0.013	U	0.013	U
108883	Toluene	0.013	U	0.013	U	0.013	U	0.013	U
108907	Chlorobenzene	0.013	U	0.013	U	0.013	U	0.013	U
100414	Ethylbenzene	0.013	U	0.013	U	0.013	U	0.013	U
100425	Styrene	0.013	U	0.013	U	0.013	U	0.013	U
1330207	Xylene (total)	0.013	U	0.013	U	0.002	J	0.013	U

U - Not Detected

J - Approximate

ORIGINAL

12 th Street Landfill

Resiedntial Sediment - U.S. EPA CLP

Semi-Volatile Organic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
108952	Phenol	0.43	U	0.44	U	0.43	U	0.44	U
111444	bis(2-Chloroethyl) ether	0.43	U	0.44	U	0.43	U	0.44	U
95578	2-Chlorophenol	0.43	U	0.44	U	0.43	U	0.44	U
541731	1,3-Dichlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
106467	1,4-Dichlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
95501	1,2-Dichlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
95487	2-Methylphenol	0.43	U	0.44	U	0.43	U	0.44	U
108601	2,2'-oxybis(1-Chloropropane)	0.43	U	0.44	U	0.43	U	0.44	U
106445	4-Methylphenol	0.43	U	0.44	U	0.43	U	0.44	U
621647	N-Nitroso-di-n-propylamine	0.43	U	0.44	U	0.43	U	0.44	U
67721	Hexachloroethane	0.43	U	0.44	U	0.43	U	0.44	U
98953	Nitrobenzene	0.43	U	0.44	U	0.43	U	0.44	U
78591	Isophorone	0.43	U	0.44	U	0.43	U	0.41	J
88755	2-Nitrophenol	0.43	U	0.44	U	0.43	U	0.44	U
105679	2,4-Dimethylphenol	0.43	U	0.44	U	0.43	U	0.44	U
111911	bis(2-Chloroethoxy) methane	0.43	U	0.44	U	0.43	U	0.44	U
120832	2,4-Dichlorophenol	0.43	U	0.44	U	0.43	U	0.44	U
120821	1,2,4-Trichlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
91203	Naphthalene	0.43	U	0.44	U	0.43	U	0.44	U
106478	4-Chloroaniline	0.43	U	0.44	U	0.43	U	0.44	U
87683	Hexachlorobutadiene	0.43	U	0.44	U	0.43	U	0.44	U
59507	4-Chloro-3-methylphenol	0.43	U	0.44	U	0.43	U	0.44	U
91576	2-Methylnaphthalene	0.43	U	0.44	U	0.43	U	0.44	U
77474	Hexachlorocyclopentadiene	0.43	U	0.44	U	0.43	U	0.44	U
88062	2,4,6-Trichlorophenol	0.43	U	0.44	U	0.43	U	0.44	U
95954	2,4,5-Trichlorophenol	1.1	U	1.1	U	1.1	U	1.1	U
91587	2-Chloronapthalene	0.43	U	0.44	U	0.43	U	0.44	U
88744	2-Nitroaniline	1.1	U	1.1	U	1.1	U	1.1	U
131113	Dimethylphthalate	0.43	U	0.44	U	0.43	U	0.44	U
208968	Acenaphthylene	0.43	U	0.44	U	0.43	U	0.44	U
606202	2,6-Dinitrotoluene	0.43	U	0.44	U	0.43	U	0.44	U
99092	3-Nitroaniline	1.1	U	1.1	U	1.1	U	1.1	U
83329	Acenaphthene	0.43	U	0.44	U	0.43	U	0.44	U

U - Not Detected
J - Approximate

ORIGINAL

12 th Street Landfill
Residential Sediment - U.S. EPA CLP (continued)
Semi-Volatile Organic Analysis Data Sheet
All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
51285	2,4-Dinitrophenol	1.1	U	1.1	U	1.1	U	1.1	U
100027	4-Nitrophenol	1.1	U	1.1	U	1.1	U	1.1	U
132649	Dibenzofuran	0.43	U	0.44	U	0.43	U	0.44	U
121142	2,4-Dinitrotoluene	0.43	U	0.44	U	0.43	U	0.44	U
84662	Diethylphthalate	0.43	U	0.44	U	0.43	U	0.44	U
7005723	4-Chlorophenyl-phenylether	0.43	U	0.44	U	0.43	U	0.44	U
86737	Fluorene	0.43	U	0.44	U	0.43	U	0.44	U
100016	4-Nitroaniline	1.1	U	1.1	U	1.1	U	1.1	U
534521	4,6-Dinitro-2-methylphenol	1.1	U	1.1	U	1.1	U	1.1	U
86306	N-Nitrosodiphenylamine	0.43	U	0.44	U	0.43	U	0.44	U
101553	4-Bromophenyl-phenylether	0.43	U	0.44	U	0.43	U	0.44	U
118741	Hexachlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
87865	Pentachlorophenol	1.1	U	1.1	U	1.1	U	1.1	U
85018	Phenanthrene	0.43	U	0.44	U	0.43	U	0.044	J
120127	Anthracene	0.43	U	0.44	U	0.43	U	0.44	U
86748	Carbazole	0.43	U	0.44	U	0.43	U	0.44	U
84742	Di-n-butylphthalate	0.43	U	0.44	U	0.43	U	0.44	U
206440	Fluoranthene	0.43	U	0.44	U	0.43	U	0.081	J
129000	Pyrene	0.43	U	0.44	U	0.43	U	0.062	J
85687	Butylbenzylphthalate	0.43	U	0.44	U	0.43	U	0.072	J
91941	3,3'-Dichlorobenzidine	0.43	U	0.44	U	0.43	U	0.44	U
56553	Benzo(a)anthracene	0.43	U	0.44	U	0.43	U	0.043	
218019	Chrysene	0.065	J	0.44	U	0.43	U	0.055	J
117817	bis(2-Ethylhexyl)phthalate	0.085	J	0.13	J	0.079	J	0.81	
117840	Di-n-octylphthalate	0.43	U	0.44	U	0.43	U	0.44	U
205992	Benzo(b)fluoranthene	0.43	U	0.44	U	0.43	U	0.045	J
207089	Benzo(k)fluoranthene	0.43	U	0.44	U	0.43	U	0.44	U
50328	Benzo(a)pyrene	0.43	U	0.44	U	0.43	U	0.44	U
193395	Indeno(1,2,3-cd)pyrene	0.43	U	0.44	U	0.43	U	0.44	U
53703	Dibenz(a,h)anthracene	0.43	U	0.44	U	0.43	U	0.44	U
191242	Benzo(g,h,i)perylene	0.43	U	0.44	U	0.43	U	0.44	U

U - Not Detected
J - Approximate

ORIGINAL

12th Street Landfill

Residential Sediment - U.S. EPA CLP

Pesticide/Polychlorinated Biphenyl Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
319846	alpha-HCH	0.0032	U	0.0023	U	0.0022	U	0.0023	U
319857	beta-HCH	0.0032	U	0.0023	U	0.0022	U	0.0023	U
319868	delta-HCH	0.0032	U	0.0023	U	0.0022	U	0.0023	U
58899	gamma-HCH (Lindane)	0.0032	U	0.0023	U	0.0022	U	0.0023	U
76448	Heptachlor	0.0022	U	0.0023	U	0.0022	U	0.0023	U
309002	Aldrin	0.0022	U	0.0023	U	0.0022	U	0.0023	U
1024573	Heptachlor epoxide	0.0022	U	0.0023	U	0.0022	U	0.0023	U
959988	Endosulfan I	0.0022	U	0.0023	U	0.0022	U	0.0023	U
60571	Dieldrin	0.0043	U	0.0044	U	0.0043	U	0.0044	U
72559	4,4'-DDE	0.0043	U	0.0044	U	0.0043	U	0.0044	U
72208	Endrin	0.0043	U	0.0044	U	0.0043	U	0.0044	U
33213659	Endosulfan II	0.0043	U	0.0044	U	0.0043	U	0.0044	U
72548	4,4'-DDD	0.0043	U	0.0044	U	0.0043	U	0.0044	U
1031078	Endosulfan sulfate	0.0043	U	0.0044	U	0.0043	U	0.0044	U
50293	4,4'-DDT	0.0043	U	0.0044	U	0.0043	U	0.0044	U
72435	Methoxychlor	0.022	U	0.023	U	0.022	U	0.023	U
53494705	Endrin ketone	0.0022	U	0.0023	U	0.0022	U	0.0023	U
7421363	Endrin aldehyde	0.0043	U	0.0044	U	0.0043	U	0.0044	U
5103719	alpha-Chlordane	0.0022	U	0.0023	U	0.0011	J	0.0023	U
5103742	gamma-Chlordane	0.0022	U	0.0023	U	0.0022	U	0.0023	U
8001352	Toxaphene	0.22	U	0.23	U	0.22	U	0.23	U
12674112	Aroclor-1016	0.043	U	0.044	U	0.043	U	0.044	U
11104282	Aroclor-1221	0.088	U	0.09	U	0.088	U	0.089	U
11141165	Aroclor-1232	0.043	U	0.044	U	0.043	U	0.044	U
53469219	Aroclor-1242	0.043	U	0.044	U	0.043	U	0.044	U
12672296	Aroclor-1248	0.043	U	0.044	U	0.043	U	0.044	U
11097691	Aroclor-1254	0.043	U	0.044	U	0.043	U	0.044	U
11096825	Aroclor-1260	0.043	U	0.044	U	0.043	U	0.044	U

U - Not detected.

J - Approximate

ORIGINAL

12th Street Landfill

Residential Sediment - U.S. EPA CLP

Inorganic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
7429905	Aluminum	46,500		39,000		4,630		35,400	
7440360	Antimony	0.45	U	1		1.3		0.59	
7440382	Arsenic	8.9		26		13.1		26.4	
7440393	Barium	1,610		6,270		96.6		3,510	
7440417	Beryllium	0.53		0.79		0.78		0.82	
7440439	Cadmium	7.5		2.9		0.84	U	2.7	
7440702	Calcium	38,000		89,500		380,000		68,600	
7440473	Chromium	56.1		72.1		27.7		79.3	
7440484	Cobalt	7.7		14.6		9		14	
7440508	Copper	233		71.9		544		70.9	
7439896	Iron	13,000		17,500		13,200		18,800	
7439921	Lead	593		383		2,570		911	
7439954	Magnesium	5,620		4,240		790		3,890	
7439965	Manganese	143		431		89.7		349	
7439976	Mercury	0.058	U	0.051		0.058	U	0.065	
7440020	Nickel	35		22.2		11.4		23	
7440097	Potassium	957		2,140		182		2,130	
7782492	Selenium	0.74		0.65	U	3.9		0.64	U
7440224	Silver	0.58	U	0.59	U	0.58	U	0.58	U
7440235	Sodium	1,320		984		123		967	
7440280	Thallium	0.97	U	0.99	U	0.97	U	1.2	
7440622	Vanadium	65.6		67.3		9.7		64.2	
7440666	Zinc	13,400		10,500		776		8,850	
74908	Cyanide	3.3	U	3.4	U	3.3	U	3.3	U

ORIGINAL

12th Street Landfill Site
XRF Data vs. CLP Data
LEAD
(ppm)

SAMPLE NUMBER	XRF LEAD	CLP LEAD
TS-SED-07	4,674	19,500
TS-SED-10	128	277
TS-SED-11	232	508
TS-SED-14	14.9	14.9
TS-SED-15	161	181
TS-SED-17	77	461
TS-SED-18	1,140	5,620
TS-SED-19	30.8	21.6
TS-SED-23	2,985	3,170
TS-SED-27	29	36.6
TS-SED-28	58.5	29.2
TS-SED-29	21.1	26.5
TS-SS-08	4,251	6,890
TS-SS-09	13,889	33,500
TS-SS-10	6,115	9,330
TS-SS-12	8,602	7,780

NOTE: UNVALIDATED CLP DATA

WESTON MANAGERS DESIGNERS/CONSULTANTS

SHEET ____ of ____

CLIENT/SUBJECT _____ W.O. NO. _____

TASK DESCRIPTION _____ Wednesday / thursday _____ TASK NO. _____

PREPARED BY _____ DEPT _____ DATE _____

MATH CHECK BY _____ DEPT _____ DATE _____

METHOD REV. BY _____ DEPT _____ DATE _____

APPROVED BY _____ DEPT _____ DATE _____

[As, chr, copper, + lead, zinc]

Confirmation data in lead confirm.

XRF - Good data

SS-8 6890 ppm

SS-9 33,500

SS-10 9,330

SS-12 7,780

Sed-7 19,500

Sed-11 508

Sed-10 277

Sed-15 181

Sed-17 461

Sed-14 14.9

Sed-18 5620

Sed-19 21.6

Sed-23 3170

Sed-27 36.6

Sed-28 29.2

Sed-29 26.5

sediment sampling depth

area 7-9

23-

Bio *SS-9 high

*SS-28 low

*SS-31 low (bg) (30 or 32) TY for

SS-12 next highest

SS-14 unknown pick one

RFW 10-05-003/A-5/85
512-5643