

DATA MANAGEMENT SUMMARY REPORT (DM-OL) - All Parameters Tested, Samples Linked by Order

 DATE: 01/28/92
 PAGE: 1

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	CLEAN HARBORS	CHSUNYPCDX	See Below
ETC Sample No.	Company	Facility	Sample Point Date

		Sample Points, Sampling Dates, and ETC Sample No.'s								
Parameters	Units	192111 GD4001	192111 GD4002	192111 GD4003	192111 GD4004	192111 GD4005	192111 GD4006	192111 GD4007	192111 GD4008	192111 GD4009
Miscellaneous Parameters										
2,3,7,8-TCDD	ng	<	<	<	<	<	<	<	<	<
2,3,7,8-TCDF	ug	<	<	<	<	<	<	<	<	<
Decachlorobiphenyl	ug	<	<	<	<	<	<	<	<	<
Dichlorobiphenyl	ug	<	<	<	<	<	<	<	<	<
Heptachlorobiphenyl	ug	<	<	<	<	<	<	<	<	<
Hexachlorobiphenyl	ug	<	<	<	<	<	<	<	<	<
HxCDD	ng	<	<	<	<	<	<	<	<	<
HxCDF	ng	<	<	<	<	<	<	<	<	<
HxCDD	ng	<	<	<	<	<	<	<	<	<
HxCDF	ng	<	<	<	<	<	<	<	<	<
Monochlorobiphenyl	ug	<	<	<	<	<	<	<	<	<
Nonachlorobiphenyl	ug	<	<	<	<	<	<	<	<	<
OCDD	ng	<	<	<	<	<	<	<	<	<
OCDF	ng	<	<	<	<	<	<	<	<	<
Octachlorobiphenyl	ug	<	<	<	<	<	<	<	<	<
PCDD	ng	<	<	<	<	<	<	<	<	<
PCDF	ng	<	<	<	<	<	<	<	<	<
Pentachlorobiphenyl	ug	<	<	<	<	<	<	<	<	<
TCDD	ng	<	<	<	<	<	<	<	<	<
TCDF	ng	<	<	<	<	<	<	<	<	<
Tetrachlorobiphenyl	ug	<	<	<	<	<	<	<	<	<
Trichlorobiphenyl	ug	<	<	<	<	<	<	<	<	<
		GENERAL	GENERAL	GENERAL	SLUDGER	SLUDGER	SLUDGER	SLUDGER	SLUDGER	SLUDGER
		ROOM 107 - RIGHT	ROOM 105 - LEFT	ROOM 103 - LEFT	ROOM 101 - RIGHT	ROOM 109 - RIGHT	ROOM 114	ROOM 110	ROOM 112	ROOM 114
		TABLE FRONT	TABLE, LEFT	TABLE, LEFT	DESK, CENTER	RIGHT TABLE	TABLE CENTER	LEFT DESK	TABLE CENTER	TABLE CENTER
		CENTER	FRONT	FRONT	(ND)	(ND)	(ND)	(ND)	(ND)	(ND)

Footnotes: BMDL=Below Method Detection Limit NO=Parameter not detected '-'=Parameter not tested TR=Trace

	A	B	C	D	E	F	G	H	I
1	DOH ID	CHI No.	BUILDING	LEV.	ROOM	SURF.	PCBs	DIOXIN	Rept.
2	920017	D-1	Bliss	8	hall	light	24	370	f,fr
3	920018	D-2	Coykend.	8	hall	contr.box	430	14	f,fr
4	920019	D-3	Scudder	8	hall	wind.sill	8300*	230	f,fr
5	920020	A-1	Parker	1		table	5600*	-	f
6	920021	A-2	Bliss	8	hall	light	2.9	-	f
7	920022	A-3	Bliss	1	lounge	table	0.2	-	f
8	920023	A-4	Coykend.	8	hall	doortops	180*	-	f
9	920024	A-5	Coykend.	2	hall	fount. 204A	13	-	f
10	920025	A-6	Gage	3	hall	320 - table	0.26	-	f
11	920026	A-7	Gage	8	Rec.Rm.	TV	0.47	-	f
12	920027	A-8	Scudder	8	hall	light	2.6	-	f
13	920028	A-9	Scudder	1	lobby	table	0.68	-	f
14	920029		BLANK					run 2x	f
15	920031								
16	920032	SWS-22	Bliss				1100	-	f
17	920033	SWS-41	Coykend.				350	-	f
18	920034								
19	920039	0483010592	Old.Lib.	8		fixture	1.25	-	f
20	920040	2183010592	Gage		bath	ledge	1.7	-	f
21	920041	901010592	Capen			wind.sill	0.105	-	f
22	920042	19181692	Coykendl.				5.8	-	f
23	920043	19281692	Coykendl.				0.03	-	f
24	920044	20881792	Scudder				0.23	-	f
25	920045	20181792	Scudder				0.85*	-	f
26	920046	20281792	Scudder				0.1	-	f
27	920047	20381792	Scudder				0.48	-	f
28	920048	20181692	Scudder				0.94*	-	f
29	920049	20281692	Scudder				1.6	-	f
30	920050	20381692	Scudder				0.02	-	f
31	920051	20481692	Scudder				0.2	-	f
32	920052	8181692	Bouton				ND	-	f
33	920053	8281692	Bouton				ND	-	f
34	920054	8381692	Bouton				ND	-	f
35	920055	8881692	Bouton				0.014	-	f
36	920056	37181692	Bevier				0.04	-	f
37	920057	37181692	Bevier				ND	-	f
38	920058	37381692	Bevier				ND	-	f
39	920059	37881692	Bevier				0.01	-	f
40	920060	21181792	Gage				0.07	-	f
41	920061	21581792	Gage				0.01	-	f
42	920062	21281792	Gage				0.13	-	f
43	920063	21881792	Gage				0.05	-	f
44	920064	22381792	Bliss				1.4	-	f
45	920065	22181792	Bliss				210	-	f
46	920066	22581792	Bliss				0.11	-	f
47	920067	22481792	Bliss				1.2	-	f
48	920068	22681792	Bliss				5.7	-	f
49	920069	22281792	Bliss				44	-	f
50	920070								
51	920120	GAUZE	BLANK				ND	-	f
52	920163	E181892	Bardes		kitchen	AIR	ND	-	f
53	920164	26281892	Parker	SOIL		SOIL, ppm	10.8*	-	f
54	920165	9281892	Capen	8	B-8	floor	0.04	-	f
55	920166	POB 1992-8	Pond		Runoff	WATER	ND	-	f
56	920167	31A31992-65	Smiley	3		AIR	ND	-	f
57	920168	Florisil tubes	charge				-	-	-
58	920177	31C811092-7	ArtGallery		lobby	desk	0.4*	-	f
59	920178	22211192-9	Bliss	2	229		ND	0.015	f,f
60	920179	19311192-15	Coykend.	2	205	floor	ND	0.002	f,f

	A	B	C	D	E	F	G	H	I
61	920180	20811292-4	Scudder	B	hall	AIR, ug/m3	0.16*	-	f
62	920181	METHOD	BLANK					OCDD	f
63	920182								
64	920283		Pond		Runoff	Water	ND	-	f
65	920284	21211592	Gage	2	hall	tel.booth	0.16	-	f
66	920285	1711592-2	Health Cnt.		vault	DRIP (ug)	140000*	-	f
67	920286	171811392	Health Cnt.		vault	floor(drip)	20000*	-	f
68	920299		Gage		340	desk	ND	-	f
69	920300		Gage		305	desk	0.03	-	f
70	920301		Gage		325	desk	0.008	-	f
71	920302		Gage		310	desk	0.04	-	f
72	920303		Gage		345	desk	0.01	-	f
73	920304		Gage		330	desk	0.05	-	f
74	920305		Gage		315	desk	0.02	-	f
75	920306		Gage		320	desk	0.007	-	f
76	920307		Gage		335	desk	0.009	-	f
77	920308		Capen		101	desk	0.03	-	f
78	920309		Capen		106	desk	ND	-	f
79	920310		Gage		215	desk	0.02	-	f
80	920311		Gage		220	desk	0.008	-	f
81	920312		Gage		235	desk	0.05	-	f
82	920313		Gage		245	desk	0.03	-	f
83	920314		Gage		240	desk	0.01	-	f
84	920315		Gage		205	desk	ND	-	f
85	920316		Gage		225	desk	0.007	-	f
86	920317		Gage		210	desk	0.05	-	f
87	920318		Gage		230	desk	0.01	-	f
88	920319		Gage		130	desk	ND	-	f
89	920320		Gage		125	desk	0.02	-	f
90	920321		Gage		120	desk	0.03	-	f
91	920322		Gage		115	desk	ND	-	f
92	920323		Gage		105	desk	0.02	-	f
93	920324		Gage		B-20	desk	0.04	-	f
94	920325		Gage		B-5	desk	0.02	-	f
95	920326		Gage		B-15	desk	0.03	-	f
96	920327		Gage		laundry		0.1	-	f
97	920328		Gage	1	Bath		0.03	-	f
98	920329		Capen	B		elec.panel	0.08	-	f
99	920340	1912192 DF	Coykendl.	B	hall	water bub.	210	3.2	f, f
100	920341	2112192	Bliss	B		Trashcan	170	-	f
101	920342	2012192 DF	Bliss	B	laundry	washer	11	18	f, f
102	920343	21812192	Gage	B			8.8	0.012	f, f
103	920344	218A12192	Gage	B			2.9	0.17	f, f
104	920345	20811292-4	Scudder	B	hall	AIR, ug/m3	0.16*	-	f
105	920346	211C12192	Gage	1		wall	ND	ND	f, f
106	920347	4812092	Old Lib.	1	103	table	0.02*	-	f
107	920348	4012092	Old Lib.	2	202	ledge	0.03*	-	f
108	920471	9112892-1	Capen	1	stairs	wall	ND	ND	, i
109	920472	9212892-2	Capen	2	stairs	wall	ND	ND	, i
110	920473	9312892-3	Capen	3	stairs	wall	0.17	0.008	, i
111	920474	9812892-4	Capen	8		sink	3.4		
112	920475	9812892-5	Capen	8	hall	wall	0.4		
113	920476	20212892-6	Gage	2	hall	wall	0.17	ND	, i
114	920485	Method	Blank					ND	f
115	920577	9812892-20	Capen	B	Mens	wall	0.01		
116	920578	9812892-21	Capen	B	mens	sink	0.02		
117	920579	9812892-JC1	Capen	B	jan.clos	wall	.02*		
118	920580	9812892-S21	Capen	8	stor.#2		.01*		
119	920581	9812892-W1	Capen	8	wms rm	wall	0.02		
120	920582	9812892-W2	Capen	8	wms.rm	wall	0.01		

	A	B	C	D	E	F	G	H	I
121	920583	1912992-303D	Coykendl.	3	303	compos-8	0.56		
122	920584	1912992-311D	Coykendl.	3	311	compos-8	0.16		
123	920585	21212892-JC13D	Gage	2	jan.clos	wall	0.02		
124	920586	21212892-JC21D	Gage	3	jan.clos	floor	0.16		
125	920587	21212892-JC17	Gage	2	jan.cl 17	sink	0.01		
126	920588	21212892-JC16D	Gage	2	jan.cl 16	wall	ND		
127	920589	21112892-RR4	Gage	3	recpt.rm	table	ND		
128	920590	21112892-LR1	Gage	1	laundry	mid.dryer	1.6		
129	920666	1982492-1	Coykendl	8	ecture hal	8 chairs	0.63		
130	920667	1982492-2	Coykendl	8	18A	8 surfaces	0.35		
131	920668	1982492-3	Coykendl	8	28	8 surfaces	64		
132	920669	1982492-4	Coykendl	8	19	8 surfaces	46		
133	920670	1981392-6	Coykendl	8	18A	8 surfaces	7		
134	920671	19313092-1	Coykendl	3	302	8 surfaces	4.7		
135	920672	19313092-2	Coykendl	3	301	8 surfaces	0.28		
136	920673	19313092-3	Coykendl	3	301A	8 surfaces	1.3		
137	920674	19213092-4	Coykendl	2	202	8 surfaces	3.7		
138	920675	19213192-1	Coykendl	2	204A	8 surfaces	0.11		
139	920676	19213192-2	Coykendl	2	201	8 surfaces	8.9		
140	920677	19113192-3	Coykendl	1	120C	8 surfaces	0.18		
141	920678	19113192-4	Coykendl	1	120B	8 surfaces	0.07		
142	920679	19113192-5	Coykendl	1	108	8 surfaces	22		
143	920680	19813192-7	Coykendl	8	28	8 surfaces	170		
144	920755	20211928-1	Scudder	8	B-1		0.018		f
145	920756	2021192-8	Scudder	8	B-12	4 surfaces	0.037		f
146	920757	20211928-16	Scudder	8	B-16	4 surfaces	0.049		f
147	920758	2021192101	Scudder	1	101	4 surfaces	0.018		f
148	920759	2021192103	Scudder	1	103	4 surfaces	0.019		f
149	920760	2021192111	Scudder	1	111	4 surfaces	0.022		f
150	920761		Coykendl		Manhole 2		0.062		f
151	920762	Gauze	Blank				ND		f
152	920763	Gauze	Blank				ND		f
153	920821		Parker		Trans.Oil		100%		f
154	920822		Scudder		Trans.Oil		60%		f
155	920823		Coykendl		Trans.Oil		>100%		f
156	920824	2021892-303A	Scudder	3	303	4 Surfaces	0.05		f
157	920825	2021892-304A	Scudder	3	304	4 Surfaces	0.05		f
158	920826	2021892-305A	Scudder	3	305	4 Surfaces	0.03		f
159	920827	2021892-311A	Scudder	3	311	4 Surfaces	0.06		f
160	920828	2021892-310A	Scudder	3	310	4 Surfaces	0.07		f
161	920829	2021892-309A	Scudder	3	309	4 Surfaces	0.07		f
162	920830	2021892-308A	Scudder	3	308	4 Surfaces	0.07		f
163	920831	2021892-312A	Scudder	3	312	4 Surfaces	0.06		f
164	920832	2021892-306A	Scudder	3	306	4 Surfaces	0.05		f
165	920833	2021892-307A	Scudder	3	307	4 Surfaces	0.27		f
166	920834	Blank (wet gauze)				4 Surfaces	.18mcg		f
167	920835	Blank (dry gauze)				4 Surfaces	ND		f

PAGE 1

RESULTS OF EXAMINATION

PENDING APPROVAL

SAMPLE ID: 970345 SAMPLE RECEIVED: 92/01/22/ CHARGE: 54.00
PROGRAM: 870: STATE UNIVERSITY OF NEW YORK
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 5522
POLITICAL SUBDIVISION: NEW PALTZ V. COUNTY: ULSTER
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: 20812292DF SUNY NEW PALTZ
DESCRIPTION: SCUMMER OUTSIDE VAULT ON WALL
DESCRIPTION: WIPE AREA= 30CM X 30CM WITH HEXANE.
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: DIOX-PCG: DIOXINS AND/OR DIBENZOFURANS
SAMPLE TYPE: 172: MOIST WIPE
TIME OF SAMPLING: 92/01/22 00:01 DATE OF FINAL: 92/01/28

*** THIS IS A PARTIAL REPORT, AND DATA IS ***
*** SUBJECT TO FINAL REVIEW AND REVISION. ***

ANALYSIS: DIOX-PCG DIOXINS &/OR DIBENZOFURANS (GC/MS)
DATE PRINTED: 92/01/28

FINISHED

-----PARAMETER-----	-----RESULT-----
2,3,7,8-TETRACHLORODIBENZODIOXIN	< 170. PICOGRAM
1,2,3,7,8-PENTACHLORODIBENZODIOXIN	< 220. PICOGRAM
1,2,3,6,7,8-HEXACHLORODIBENZODIOXIN	< 380. PICOGRAM
1,2,3,7,8,9-HEXACHLORODIBENZODIOXIN	< 330. PICOGRAM
1,2,3,4,7,8-HEXACHLORODIBENZODIOXIN	< 390. PICOGRAM
1,2,3,4,6,7,8-HEPTACHLORODIBENZODIOXIN	< 560. PICOGRAM
OCTACHLORODIBENZODIOXIN	< 1400. PICOGRAM
2,3,7,8-TETRACHLORODIBENZOFURAN	< 140. PICOGRAM
1,2,3,7,8-PENTACHLORODIBENZOFURAN	< 140. PICOGRAM
2,3,4,7,8-PENTACHLORODIBENZOFURAN	< 180. PICOGRAM
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	< 180. PICOGRAM
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	< 190. PICOGRAM
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	< 210. PICOGRAM
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	< 200. PICOGRAM
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	< 320. PICOGRAM
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	< 320. PICOGRAM
OCTACHLORODIBENZOFURAN	< 840. PICOGRAM
TOTAL TETRACHLORODIBENZODIOXINS	< 170. PICOGRAM
TOTAL PENTACHLORODIBENZODIOXINS	< 220. PICOGRAM
TOTAL HEXACHLORODIBENZODIOXINS	< 380. PICOGRAM
TOTAL HEPTACHLORODIBENZODIOXINS	< 560. PICOGRAM
TOTAL TETRACHLORODIBENZOFURANS	< 140. PICOGRAM
TOTAL PENTACHLORODIBENZOFURANS	< 140. PICOGRAM
TOTAL HEXACHLORODIBENZOFURANS	< 180. PICOGRAM
TOTAL HEPTACHLORODIBENZOFURANS	< 320. PICOGRAM

**** CONTINUED ON NEXT PAGE ****

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MARK KNUDSEN
C/O NY STATE DEPARTMENT OF HEALTH
MONTICELLO DISTRICT OFFICE
6 PRINCE ST.
MONTICELLO, NY 12701

SUBMITTED BY: KNUDSEN

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (TCT#).....BLANK-067
 Analysis Date.....2/14/92
 Filename.....S20214H
 Analyst.....MJK
 Sample Amount.....1.00 m2
 ICAL Date.....1/21/92
 CCAL Filename.....S20214C
 Extraction Date.....2/11/92

NATIVE ISOMERS	CONC. ng/m2	DL ng/m2	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	nd	0.0031	2378-TCDF-C13....	2.00	68
TOTAL TCDF	nd	-----	2378-TCDD-C13....	2.00	75
			12378-PeCDF-C13..	2.00	70
2378-TCDD	nd	0.0065	23478-PeCDF-C13..	2.00	78
TOTAL TCDD	nd	-----	12378-PeCDD-C13..	2.00	108
			123478-HxCDF-C13.	2.00	57
12378-PeCDF	nd	0.0055	123678-HxCDF-C13.	2.00	66
23478-PeCDF	nd	0.0033	123789-HxCDF-C13.	2.00	66
TOTAL PeCDF	nd	-----	234678-HxCDF-C13.	2.00	75
			123478-HxCDD-C13.	2.00	76
12378-PeCDD	nd	0.0019	123678-HxCDD-C13.	2.00	81
TOTAL PeCDD	nd	-----	1234678-HpCDF-C13	2.00	87
			1234789-HpCDF-C13	2.00	95
123478-HxCDF	nd	0.0019	1234678-HpCDD-C13	2.00	105
123678-HxCDF	nd	0.0012	OCDD-C13.....	4.00	89
123789-HxCDF	nd	0.0032			
234678-HxCDF	nd	0.0008	1234-TCDD-C13....	2.00	na
TOTAL HxCDF	nd	-----	123789-HxCDD-C13.	2.00	na
123478-HxCDD	nd	0.0016	2378-TCDD-C137...	0.20	74
123678-HxCDD	nd	0.0013			
123789-HxCDD	nd	0.0013			
TOTAL HxCDD	nd	-----			
1234678-HpCDF	nd	0.0016			
1234789-HpCDF	nd	0.0012			
TOTAL HpCDF	nd	-----			
1234678-HpCDD	nd	0.0071			
TOTAL HpCDD	nd	-----			
OCDF	nd	0.0059			
OCDD	0.031	-----			

Total 2378-TCDD
 Equivalence = 0.0000 ng/m2
 (Using 1989 ITE Factors)

CONC= Concentrations, calculated as described in EPA method 8290.

DL= Detection limits, calculated as described in EPA method 8290.

na= not applicable

nd= not detected

TCT Invoice Number....4410 92-1048

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2021092-DB8
 Sample ID (TCT#).....276495
 Analysis Date.....2/13/92
 Filename.....S20213I
 Analyst.....MJK
 Sample Amount.....1.00 m2
 ICAL Date.....1/21/92
 CCAL Filename.....S20213B
 Extraction Date.....2/11/92

NATIVE ISOMERS	CONC. ng/m2	DL ng/m2	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.120	-----	2378-TCDF-C13....	2.00	85
TOTAL TCDF	0.240	-----	2378-TCDD-C13....	2.00	105
2378-TCDD	0.020	-----	12378-PeCDF-C13..	2.00	93
TOTAL TCDD	0.020	-----	23478-PeCDF-C13..	2.00	62
12378-PeCDF	nd	0.0170	12378-PeCDD-C13..	2.00	89
23478-PeCDF	nd	0.0150	123478-HxCDF-C13.	2.00	161
TOTAL PeCDF	0.150	-----	123678-HxCDF-C13.	2.00	124
12378-PeCDD	nd	0.0290	123789-HxCDF-C13.	2.00	164
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	143
123478-HxCDF	0.130	-----	123478-HxCDD-C13.	2.00	191
123678-HxCDF	0.014	-----	123678-HxCDD-C13.	2.00	206
123789-HxCDF	nd	0.0130	1234678-HpCDF-C13	2.00	147
234678-HxCDF	nd	0.0029	1234789-HpCDF-C13	2.00	137
TOTAL HxCDF	0.250	-----	1234678-HpCDD-C13	2.00	116
123478-HxCDD	nd	0.0050	OCDD-C13.....	4.00	181
123678-HxCDD	0.027	-----	1234-TCDD-C13....	2.00	na
123789-HxCDD	nd	0.0140	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	0.170	-----	2378-TCDD-C137...	0.20	102
1234678-HpCDF	nd	0.2200			
1234789-HpCDF	0.039	-----			
TOTAL HpCDF	0.110	-----			
1234678-HpCDD	0.140	-----			
TOTAL HpCDD	0.350	-----			
OCDF	0.320	-----			
OCDD	1.100	-----			

Total 2378-TCDD
 Equivalence = 0.052 ng/m2
 (Using 1989 ITE Factors.)

CONC= Concentrations, calculated as described in EPA method 8290.

DL= Detection limits, calculated as described in EPA method 8290.

na= not applicable

nd= not detected

TCT Invoice Number....4410 92-1048

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2021092-DB8 (1:5 DILUTION)
 Sample ID (TCT#).....276495
 Analysis Date.....2/14/92
 Filename.....S20214I
 Analyst.....MJK
 Sample Amount.....1.00 m2
 ICAL Date.....1/21/92
 CCAL Filename.....S20214C
 Extraction Date.....2/11/92

NATIVE ISOMERS	CONC. ng/m2	DL ng/m2	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.1200	-----	2378-TCDF-C13....	2.00	93
TOTAL TCDF	0.2000	-----	2378-TCDD-C13....	2.00	101
2378-TCDD	nd	0.0570	12378-PeCDF-C13..	2.00	95
TOTAL TCDD	nd	-----	23478-PeCDF-C13..	2.00	101
12378-PeCDF	nd	0.0440	12378-PeCDD-C13..	2.00	127
23478-PeCDF	nd	0.0240	123478-HxCDF-C13.	2.00	72
TOTAL PeCDF	0.0760	-----	123678-HxCDF-C13.	2.00	75
12378-PeCDD	nd	0.0440	123789-HxCDF-C13.	2.00	76
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	83
123478-HxCDF	0.1200	-----	123478-HxCDD-C13.	2.00	88
123678-HxCDF	0.0140	-----	123678-HxCDD-C13.	2.00	87
123789-HxCDF	nd	0.0120	1234678-HpCDF-C13	2.00	90
234678-HxCDF	nd	0.0099	1234789-HpCDF-C13	2.00	98
TOTAL HxCDF	0.2200	-----	1234678-HpCDD-C13	2.00	109
123478-HxCDD	nd	0.0180	OCDD-C13.....	4.00	102
123678-HxCDD	0.0340	-----	1234-TCDD-C13....	2.00	na
123789-HxCDD	0.0170	-----	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	0.1900	-----	2378-TCDD-C137...	0.20	115
1234678-HpCDF	nd	0.2800			
1234789-HpCDF	0.0310	-----			
TOTAL HpCDF	0.1100	-----			
1234678-HpCDD	0.1400	-----			
TOTAL HpCDD	0.2900	-----			
OCDF	0.3200	-----	Total 2378-TCDD		
OCDD	1.3000	-----	Equivalence = 0.034 ng/m2		
			(Using 1989 ITE Factors)		

CONC= Concentrations, calculated as described in EPA method 8290.

DL= Detection limits, calculated as described in EPA method 8290.

na= not applicable

nd= not detected

TCT Invoice Number....4410 92-1048

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2021092-D125
 Sample ID (TCT#).....276501
 Analysis Date.....2/13/92
 Filename.....S20213G
 Analyst.....DJJ
 Sample Amount.....1.00 m2
 ICAL Date.....1/21/92
 CCAL Filename.....S20213B
 Extraction Date.....2/11/92

NATIVE ISOMERS	CONC. ng/m2	DL ng/m2	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.1100	-----	2378-TCDF-C13....	2.00	87
TOTAL TCDF	0.2300	-----	2378-TCDD-C13....	2.00	104
			12378-PeCDF-C13..	2.00	94
2378-TCDD	0.0220	-----	23478-PeCDF-C13..	2.00	105
TOTAL TCDD	0.0220	-----	12378-PeCDD-C13..	2.00	129
			123478-HxCDF-C13.	2.00	80
12378-PeCDF	0.0130	-----	123678-HxCDF-C13.	2.00	61
23478-PeCDF	0.0130	-----	123789-HxCDF-C13.	2.00	81
TOTAL PeCDF	0.1300	-----	234678-HxCDF-C13.	2.00	76
			123478-HxCDD-C13.	2.00	101
12378-PeCDD	nd	0.0240	123678-HxCDD-C13.	2.00	87
TOTAL PeCDD	nd	-----	1234678-HpCDF-C13	2.00	66
			1234789-HpCDF-C13	2.00	62
123478-HxCDF	0.0410	-----	1234678-HpCDD-C13	2.00	69
123678-HxCDF	0.0150	-----	OCDD-C13.....	4.00	75
123789-HxCDF	0.0068	-----			
234678-HxCDF	nd	0.0054	1234-TCDD-C13....	2.00	na
TOTAL HxCDF	0.1200	-----	123789-HxCDD-C13.	2.00	na
123478-HxCDD	nd	0.0033	2378-TCDD-C137...	0.20	98
123678-HxCDD	0.0270	-----			
123789-HxCDD	0.0150	-----			
TOTAL HxCDD	0.0420	-----			
1234678-HpCDF	nd	0.0640			
1234789-HpCDF	0.0120	-----			
TOTAL HpCDF	0.0630	-----			
1234678-HpCDD	0.1300	-----			
TOTAL HpCDD	0.2900	-----			
OCDF	0.1200	-----			
OCDD	1.0000	-----			

Total 2378-TCDD
 Equivalence = 0.053 ng/m2
 (Using 1989 ITE Factors)

CONC= Concentrations, calculated as described in EPA method 8290.

DL= Detection limits, calculated as described in EPA method 8290.

na= not applicable

nd= not detected

TCT Invoice Number....4410 92-1048

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2021092-D214
 Sample ID (TCT#).....276499
 Analysis Date.....2/13/92
 Filename.....S20213E
 Analyst.....DJJ
 Sample Amount.....1.00 m2
 ICAL Date.....1/21/92
 CCAL Filename.....S20213B
 Extraction Date.....2/11/92

NATIVE ISOMERS	CONC. ng/m2	DL ng/m2	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.075	-----	2378-TCDF-C13....	2.00	101
TOTAL TCDF	0.075	-----	2378-TCDD-C13....	2.00	121
			12378-PeCDF-C13..	2.00	78
2378-TCDD	0.017	-----	23478-PeCDF-C13..	2.00	78
TOTAL TCDD	0.017	-----	12378-PeCDD-C13..	2.00	76
			123478-HxCDF-C13.	2.00	146
12378-PeCDF	nd	0.0160	123678-HxCDF-C13.	2.00	95
23478-PeCDF	nd	0.0086	123789-HxCDF-C13.	2.00	108
TOTAL PeCDF	nd	-----	234678-HxCDF-C13.	2.00	71
			123478-HxCDD-C13.	2.00	77
12378-PeCDD	nd	0.0150	123678-HxCDD-C13.	2.00	116
TOTAL PeCDD	nd	-----	1234678-HpCDF-C13	2.00	129
			1234789-HpCDF-C13	2.00	163
123478-HxCDF	nd	0.0082	1234678-HpCDD-C13	2.00	181
123678-HxCDF	nd	0.0077	OCDD-C13.....	4.00	203
123789-HxCDF	nd	0.0120			
234678-HxCDF	nd	0.0230	1234-TCDD-C13....	2.00	na
TOTAL HxCDF	0.069	-----	123789-HxCDD-C13.	2.00	na
123478-HxCDD	nd	0.0230	2378-TCDD-C137...	0.20	111
123678-HxCDD	nd	0.0140			
123789-HxCDD	nd	0.0065			
TOTAL HxCDD	0.150	-----			
1234678-HpCDF	nd	0.0730			
1234789-HpCDF	nd	0.0160			
TOTAL HpCDF	0.066	-----			
1234678-HpCDD	0.140	-----			
TOTAL HpCDD	0.260	-----			
OCDF	0.110	-----			
OCDD	0.850	-----			

Total 2378-TCDD
 Equivalence = 0.027 ng/m2
 (Using 1989 ITE Factors)

CONC= Concentrations, calculated as described in EPA method 8290.

DL= Detection limits, calculated as described in EPA method 8290.

na= not applicable

nd= not detected

TCT Invoice Number....4410 92-1048

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2021092-D214 (1:5 DILUTION)
 Sample ID (TCT#).....276499
 Analysis Date.....2/18/92
 Filename.....V20218E
 Analyst.....MJK
 Sample Amount.....1.00 m2
 ICAL Date.....1/6/92
 CCAL Filename.....V20218B
 Extraction Date.....2/11/92

NATIVE ISOMERS	CONC. ng/m2	DL ng/m2	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.0590	-----	2378-TCDF-C13....	2.00	107
TOTAL TCDF	0.1300	-----	2378-TCDD-C13....	2.00	116
			12378-PeCDF-C13..	2.00	102
2378-TCDD	0.0120	-----	23478-PeCDF-C13..	2.00	110
TOTAL TCDD	0.0120	-----	12378-PeCDD-C13..	2.00	90
			123478-HxCDF-C13.	2.00	117
12378-PeCDF	0.0061	-----	123678-HxCDF-C13.	2.00	123
23478-PeCDF	0.0059	-----	123789-HxCDF-C13.	2.00	95
TOTAL PeCDF	0.0120	-----	234678-HxCDF-C13.	2.00	89
			123478-HxCDD-C13.	2.00	129
12378-PeCDD	nd	0.0055	123678-HxCDD-C13.	2.00	77
TOTAL PeCDD	nd	-----	1234678-HpCDF-C13	2.00	97
			1234789-HpCDF-C13	2.00	106
123478-HxCDF	0.0110	-----	1234678-HpCDD-C13	2.00	101
123678-HxCDF	nd	0.0063	OCDD-C13.....	4.00	78
123789-HxCDF	nd	0.0120			
234678-HxCDF	nd	0.0130	1234-TCDD-C13....	2.00	na
TOTAL HxCDF	0.0480	-----	123789-HxCDD-C13.	2.00	na
123478-HxCDD	nd	0.0036	2378-TCDD-C137...	0.20	99
123678-HxCDD	0.0220	-----			
123789-HxCDD	nd	0.0076			
TOTAL HxCDD	0.1400	-----			
1234678-HpCDF	0.0620	-----			
1234789-HpCDF	0.0110	-----			
TOTAL HpCDF	0.0730	-----			
1234678-HpCDD	0.1400	-----			
TOTAL HpCDD	0.2900	-----			
OCDF	0.1300	-----	Total 2378-TCDD		
OCDD	1.0000	-----	Equivalence = 0.028 ng/m2		
			(Using 1989 ITE Factors)		

CONC= Concentrations, calculated as described in EPA method 8290.

DL= Detection limits, calculated as described in EPA method 8290.

na= not applicable

nd= not detected

TCT Invoice Number....4410 92-1048

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2021092-D314
 Sample ID (TCT#).....276500
 Analysis Date.....2/13/92
 Filename.....S20213F
 Analyst.....DJJ
 Sample Amount.....1.00 m2
 ICAL Date.....1/21/92
 CCAL Filename.....S20213B
 Extraction Date.....2/11/92

NATIVE ISOMERS	CONC. ng/m2	DL ng/m2	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.1300	-----	2378-TCDF-C13....	2.00	85
TOTAL TCDF	0.2400	-----	2378-TCDD-C13....	2.00	100
2378-TCDD	0.0200	-----	12378-PeCDF-C13..	2.00	105
TOTAL TCDD	0.0200	-----	23478-PeCDF-C13..	2.00	71
12378-PeCDF	0.0140	-----	12378-PeCDD-C13..	2.00	134
23478-PeCDF	0.0120	-----	123478-HxCDF-C13.	2.00	135
TOTAL PeCDF	0.0590	-----	123678-HxCDF-C13.	2.00	103
12378-PeCDD	nd	0.0450	123789-HxCDF-C13.	2.00	136
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	114
123478-HxCDF	0.0360	-----	123478-HxCDD-C13.	2.00	156
123678-HxCDF	0.0140	-----	123678-HxCDD-C13.	2.00	134
123789-HxCDF	nd	0.0044	1234678-HpCDF-C13	2.00	108
234678-HxCDF	0.0250	-----	1234789-HpCDF-C13	2.00	97
TOTAL HxCDF	0.1500	-----	1234678-HpCDD-C13	2.00	110
123478-HxCDD	nd	0.0051	OCDD-C13.....	4.00	118
123678-HxCDD	0.0330	-----	1234-TCDD-C13....	2.00	na
123789-HxCDD	0.0079	-----	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	0.2700	-----	2378-TCDD-C137...	0.20	99
1234678-HpCDF	nd	0.1500			
1234789-HpCDF	nd	0.0120			
TOTAL HpCDF	0.0300	-----			
1234678-HpCDD	0.2900	-----			
TOTAL HpCDD	0.7600	-----			
OCDF	0.1200	-----			
OCDD	3.2000	-----			

Total 2378-TCDD
 Equivalence = 0.058 ng/m2
 (Using 1989 ITE Factors)

CONC= Concentrations, calculated as described in EPA method 8290.

DL= Detection limits, calculated as described in EPA method 8290.

na= not applicable

d= not detected

TCT Invoice Number....4410 92-1048

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2021092-D1ST STAIR
 Sample ID (TCT#).....276497
 Analysis Date.....2/13/92
 Filename.....S20213H
 Analyst.....MTK
 Sample Amount.....1.00 m2
 ICAL Date.....1/21/92
 CCAL Filename.....S20213B
 Extraction Date.....2/11/92

NATIVE ISOMERS	CONC. ng/m2	DL ng/m2	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.079	-----	2378-TCDF-C13....	2.00	80
TOTAL TCDF	0.110	-----	2378-TCDD-C13....	2.00	103
2378-TCDD	nd	0.0170	12378-PeCDF-C13..	2.00	85
TOTAL TCDD	nd	-----	23478-PeCDF-C13..	2.00	104
12378-PeCDF	nd	0.0081	12378-PeCDD-C13..	2.00	127
23478-PeCDF	nd	0.0055	123478-HxCDF-C13.	2.00	111
TOTAL PeCDF	nd	-----	123678-HxCDF-C13.	2.00	76
12378-PeCDD	nd	0.0064	123789-HxCDF-C13.	2.00	105
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	94
123478-HxCDF	nd	0.0089	123478-HxCDD-C13.	2.00	116
123678-HxCDF	nd	0.0065	123478-HpCDF-C13.	2.00	66
123789-HxCDF	nd	0.0071	1234678-HpCDD-C13.	2.00	46
234678-HxCDF	nd	0.0100	1234789-HpCDF-C13.	2.00	26
TOTAL HxCDF	nd	-----	1234678-HpCDD-C13.	2.00	38
123478-HxCDD	nd	0.0076	OCDD-C13.....	4.00	107
123678-HxCDD	nd	0.0340	1234-TCDD-C13....	2.00	na
123789-HxCDD	nd	0.0180	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	0.140	-----	2378-TCDD-C137...	0.20	96
1234678-HpCDF	nd	0.0150			
1234789-HpCDF	nd	0.0360			
TOTAL HpCDF	nd	-----			
1234678-HpCDD	nd	0.0870			
TOTAL HpCDD	nd	-----			
OCDF	nd	0.0180			
OCDD	0.180	-----			

Total 2378-TCDD
 Equivalence = 0.0081 ng/m2
 (Using 1989 ITE Factors)

CONC= Concentrations, calculated as described in EPA method 8290.

DL= Detection limits, calculated as described in EPA method 8290.

na= not applicable

nd= not detected

TCT Invoice Number....4410 92-1048

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2021092-D2ND STAIR
 Sample ID (TCT#).....276496
 Analysis Date.....2/13/92
 Filename.....S20213J
 Analyst.....MJK
 Sample Amount.....1.00 m2
 ICAL Date.....1/21/92
 CCAL Filename.....S20213B
 Extraction Date.....2/11/92

NATIVE ISOMERS	CONC. ng/m2	DL ng/m2	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.090	-----	2378-TCDF-C13....	2.00	53
TOTAL TCDF	0.140	-----	2378-TCDD-C13....	2.00	62
			12378-PeCDF-C13..	2.00	65
2378-TCDD	0.021	-----	23478-PeCDF-C13..	2.00	44
TOTAL TCDD	0.021	-----	12378-PeCDD-C13..	2.00	68
			123478-HxCDF-C13..	2.00	120
12378-PeCDF	nd	0.0200	123678-HxCDF-C13..	2.00	92
23478-PeCDF	nd	0.0190	123789-HxCDF-C13..	2.00	122
TOTAL PeCDF	nd	-----	234678-HxCDF-C13..	2.00	102
			123478-HxCDD-C13..	2.00	140
12378-PeCDD	nd	0.0150	123678-HxCDD-C13..	2.00	151
TOTAL PeCDD	nd	-----	1234678-HpCDF-C13	2.00	80
			1234789-HpCDF-C13	2.00	71
123478-HxCDF	nd	0.0058	1234678-HpCDD-C13	2.00	80
123678-HxCDF	nd	0.0072	OCDD-C13.....	4.00	130
123789-HxCDF	nd	0.0043			
234678-HxCDF	nd	0.0055	1234-TCDD-C13....	2.00	na
TOTAL HxCDF	nd	-----	123789-HxCDD-C13..	2.00	na
123478-HxCDD	nd	0.0045	2378-TCDD-C137...	0.20	57
123678-HxCDD	nd	0.0180			
123789-HxCDD	nd	0.0092			
TOTAL HxCDD	0.110	-----			
1234678-HpCDF	nd	0.0160			
1234789-HpCDF	nd	0.0150			
TOTAL HpCDF	nd	-----			
1234678-HpCDD	0.073	-----			
TOTAL HpCDD	0.150	-----			
OCDF	nd	0.0074			
OCDD	0.290	-----			

Total 2378-TCDD
 Equivalence = 0.031 ng/m2
 (Using 1989 ITE Factors)

CONC= Concentrations, calculated as described in EPA method 8290.

DL= Detection limits, calculated as described in EPA method 8290.

na= not applicable

nd= not detected

TCT Invoice Number....4410 92-1048

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2021092-D3RD STAIR
 Sample ID (TCT#).....276498
 Analysis Date.....2/13/92
 Filename.....S20213D
 Analyst.....MJK
 Sample Amount.....1.00 m2
 ICAL Date.....1/21/92
 CCAL Filename.....S20213B
 Extraction Date.....2/11/92

NATIVE ISOMERS	CONC. ng/m2	DL ng/m2	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.0990	-----	2378-TCDF-C13....	2.00	70
TOTAL TCDF	0.1500	-----	2378-TCDD-C13....	2.00	85
			12378-PeCDF-C13..	2.00	80
2378-TCDD	0.0210	-----	23478-PeCDF-C13..	2.00	83
TOTAL TCDD	0.0210	-----	12378-PeCDD-C13..	2.00	102
			123478-HxCDF-C13..	2.00	65
12378-PeCDF	nd	0.0098	123678-HxCDF-C13..	2.00	61
23478-PeCDF	nd	0.0110	123789-HxCDF-C13..	2.00	72
TOTAL PeCDF	nd	-----	234678-HxCDF-C13..	2.00	70
			123478-HxCDD-C13..	2.00	63
12378-PeCDD	nd	0.0079	123678-HxCDD-C13..	2.00	100
TOTAL PeCDD	nd	-----	1234678-HpCDF-C13	2.00	25
			1234789-HpCDF-C13	2.00	37
123478-HxCDF	nd	0.0021	1234678-HpCDD-C13	2.00	77
123678-HxCDF	nd	0.0053	OCDD-C13.....	4.00	56
123789-HxCDF	nd	0.0073			
234678-HxCDF	nd	0.0038	1234-TCDD-C13....	2.00	na
TOTAL HxCDF	nd	-----	123789-HxCDD-C13..	2.00	na
123478-HxCDD	nd	0.0023	2378-TCDD-C137...	0.20	77
123678-HxCDD	0.0240	-----			
123789-HxCDD	0.0094	-----			
TOTAL HxCDD	0.1700	-----			
1234678-HpCDF	nd	0.0270			
1234789-HpCDF	nd	0.0810			
TOTAL HpCDF	nd	-----			
1234678-HpCDD	0.0240	-----			
TOTAL HpCDD	0.0590	-----			
OCDF	nd	0.0130			
OCDD	0.1900	-----			

Total 2378-TCDD
 Equivalence = 0.035 ng/m2
 (Using 1989 ITE Factors)

CONC= Concentrations, calculated as described in EPA method 8290.
 DL= Detection limits, calculated as described in EPA method 8290.
 na= not applicable
 nd= not detected

TCT Invoice Number....4410 92-1048