

DIOXIN/FURAN SAMPLES- WIPES (ng/square meter)

(Results given are 2378-TCDD equivalences.)

<u>LOCATION</u>	<u>ID #</u>	<u>DATE</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>COMMENTS</u>
BLISS (30 CM X 30 CM)	D-1	01/01/92	WIPE	370	<u>BASEMENT HALLWAY OUTSIDE VAULT AND ELECTRIC ROOM</u>
BLISS (1 M X 1 M)	2241092-B9	04/10/92	WIPE	0.0059	<u>RM B9-RIGHT WALL</u>
BLISS (30 CM X 30 CM)	22B11192-8	01/11/92	WIPE	N/D	<u>RM B15- LEFT DESK CENTER</u>
BLISS (30 CM X 30CM)	2012192DF	01/20/92	WIPE	18	<u>LAUNDRY RM#2- ON WASHER</u>
BLISS (1 M X 1 M)	2241092-L	04/10/92	WIPE	0.47	<u>LAUNDRY#1-BASEMENT WASHING MACHINE</u>
BLISS (30 CM X 30 CM)	22B11192-7	01/11/92	WIPE	15	<u>LAUNDRY #2- (BASEMENT)ON FAR RT</u>
BLISS (1 M X 1 M)	2211592 LAUN 2 DF	11/05/92	WIPE	0.016	<u>LAUNDRY #2 WALL BETWEEN WASHING MACHINES</u>
BLISS (1 M X 1 M)	2211492-NISOL DF	11/04/92	WIPE	0.011	<u>NORTH ISOLATION-WALL</u>
BLISS (1 M X 1 M)	2211492-SISOL DF	11/04/92	WIPE	0.0069	<u>SOUTH ISOLATION-WALL</u>
BLISS (30 CM X 30 CM)	22111192-2	01/11/92	WIPE	N/D	<u>RM 102- LEFT DESK CENTER</u>
BLISS (1 M X 1 M)	2232092-112	03/20/92	WIPE	0.0091	<u>RM 112-WALL IN CLOSET</u>
BLISS (1 M X 1 M)	2241092-115	04/10/92	WIPE	0.0106	<u>RM 115-WALL</u>
BLISS (30 CM X 30 CM)	22111192-1	01/11/92	WIPE	N/D	<u>RM 120- RT DESK CENTER</u>
BLISS (1 M X 1 M)	2232092-125	03/20/92	WIPE	0.011	<u>RM 125-RIGHT WALL</u>
BLISS (1 M X 1 M)	2232092-125	03/20/92	WIPE	0.0077	<u>RM 125- WALL (RE-ANALYSIS)</u>
BLISS (1 M X 1 M)	2241092-DIRA	04/10/92	WIPE	0.0014	<u>DIRECTORS LIVING ROOM WALL (RM 126)</u>
BLISS (1 M X 1 M)	2232092-LOUNGE	03/20/92	WIPE	0.023	<u>1ST FL LOUNGE-WALL NEAR DOOR</u>

BLISS 22111192-4 (30 CM X 30 CM)	01/11/92	WIPE	3	<u>RM 205-</u> <u>LEFT DESK</u>
BLISS 2231692DF (1 M X 1 M)	03/16/92	WIPE	0.015	<u>RM 214-2ND FLOOR</u>
BLISS 2232092-214 (1 M X 1 M)	03/20/92	WIPE	0.057	<u>RM 214-LEFT WALL</u>
BLISS 2232092-214 (1 M X 1 M)	03/20/92	WIPE	0.063	<u>RM 214-WALL</u> <u>(RE-ANALYSIS)</u>
BLISS 2232092-218 (1 M X 1 M)	03/20/92	WIPE	.013	<u>RM 218-RIGHT WALL</u>
BLISS 2241092-226 (1 M X 1 M)	04/10/92	WIPE	0.0151	<u>RM 226-WALL</u>
BLISS 22111192-3 (30 CM X 30 CM)	01/11/92	WIPE	N/D	<u>RM 229-</u> <u>LEFT DESK</u>
BLISS 22311192-6 (30 CM X 30 CM)	01/11/92	WIPE	24	<u>RM 312-</u> <u>LEFT DESK CENTER</u>
BLISS 2211492-312 DF (1 M X 1 M)	11/04/92	WIPE	0.0003	<u>RM 312-WALL</u>
BLISS 2241092-321 (1 M X 1 M)	04/10/92	WIPE	0.057	<u>RM 321-BACK WALL</u>
BLISS 22311192-5 (30 CM X 30 CM)	01/11/92	WIPE	1	<u>RM 322-</u> <u>RT DESK CENTER</u>
BLISS 2241092-331 (1 M X 1 M)	04/10/92	WIPE	1.5	<u>RM 331-LEFT WALL</u>

DIOXIN/FURAN SAMPLES- AIR (pg/cubic meter)

(Results given are 2378-TCDD equivalences.)

<u>LOCATION</u>	<u>ID #</u>	<u>DATE</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>COMMENTS</u>
BLISS	2211692-S.ISO	11/06/92	AIR	0.016	<u>BASEMENT-N.ISOLATION</u>
BLISS	2211892-N.ISO	11/08/92	AIR	3.1	<u>BASEMENT-S.ISOLATION</u>
BLISS	2211892-RM 312	11/08/92	AIR	3.5	<u>RM 312- OUTSIDE</u>

	A	B	C	D	E	F	G	H	I
1	DOM ID	CHI No.	BUILDING	LEV.	ROOM	SURF.	PCBs	DIOXIN	Rept.
2	920017	D-1	Bliss	B	hall	light	24	370	f,fr
3	920018	D-2	Coykend.	B	hall	contr.box	430	14	f,fr
4	920019	D-3	Scudder	B	vault	wind.sill	8300	230	f,fr
5	920020	A-1	Parker	1		table	5600*	-	f
6	920021	A-2	Bliss	B	hall	light	2.9	-	f
7	920022	A-3	Bliss	1	lounge	table	0.2	-	f
8	920023	A-4	Coykend.	B	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	B	Rec.Rm.	TV	0.47	-	f
12	920027	A-8	Scudder	B	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.	B		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	B	B-B	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	31CB11092-7	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

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2241092-B9
 Sample ID (TCT#).....282068
 Analysis Date.....4/16/92
 Filename.....V20416H
 Analyst.....DJJ
 Sample Amount.....0.50 sample
 ICAL Date.....1/6/92
 CCAL Filename.....V20416C
 Extraction Date.....4/13/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	nd	0.0110	2378-TCDF-C13....	2.00	90
TOTAL TCDF	nd	-----	2378-TCDD-C13....	2.00	96
			12378-PeCDF-C13..	2.00	98
2378-TCDD	nd	0.0048	23478-PeCDF-C13..	2.00	93
TOTAL TCDD	nd	-----	12378-PeCDD-C13..	2.00	117
			123478-HxCDF-C13.	2.00	93
12378-PeCDF	nd	0.0084	123678-HxCDF-C13.	2.00	55
23478-PeCDF	0.0050	-----	123789-HxCDF-C13.	2.00	81
TOTAL PeCDF	0.0250	-----	234678-HxCDF-C13.	2.00	84
			123478-HxCDD-C13.	2.00	88
12378-PeCDD	nd	0.0039	123678-HxCDD-C13.	2.00	89
TOTAL PeCDD	nd	-----	1234678-HpCDF-C13	2.00	73
			1234789-HpCDF-C13	2.00	84
123478-HxCDF	nd	0.0089	1234678-HpCDD-C13	2.00	84
123678-HxCDF	nd	0.0100	OCDD-C13.....	4.00	57
123789-HxCDF	nd	0.0100			
234678-HxCDF	nd	0.0078	1234-TCDD-C13....	2.00	na
TOTAL HxCDF	nd	-----	123789-HxCDD-C13.	2.00	na
123478-HxCDD	nd	0.0042	2378-TCDD-C137...	0.20	93
123678-HxCDD	0.0027	-----			
123789-HxCDD	nd	0.0041			
TOTAL HxCDD	0.0120	-----			
1234678-HpCDF	nd	0.0290			
1234789-HpCDF	nd	0.0055			
TOTAL HpCDF	nd	-----			
1234678-HpCDD	0.1500	-----			
TOTAL HpCDD	0.2000	-----			
OCDF	0.0320	-----			
OCDD	1.6000	-----			

Total 2378-TCDD
 Equivalence = 0.0059 ng/sample
 (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

	A	B	C	D	E	F	G	H	I
61	920180	20811292-4	Scudder	8	hall	AIR,ug/m3	0.16*	-	f
62	920181	METHOD	BLANK					OC00	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		8-20	desk	0.04	-	f
94	920325		Gage		8-5	desk	0.02	-	f
95	920326		Gage		8-15	desk	0.03	-	f
96	920327		Gage		laundry		0.1	-	f
97	920328		Gage	1	Bath		0.03	-	f
98	920329		Capen	8		elec.panel	0.08	-	f
99	920340	1912192 DF	Coykendl.	8	hall	water bub.	210	3.2	f,f.
100	920341	2112192	Bliss	8		Trashcan	170	-	f
101	920342	2012192 DF	Bliss	8	laundry	washer	11	18	f,f
102	920343	21812192	Gage	8			8.8	0.012	f,f
103	920344	218A12192	Gage	8			2.9	0.17	f,f
104	920345	20812292DF	Scudder	8	outad.v.	wall	ND	ND	f,f
105	920346	211C12192	Gage	1		wall	ND	ND	f,f
106	920347	4812092	Old Lib.	1	103	table	0.02*	-	f
107	920348	4812092	Old Lib.	2	202	ledge	0.03*	-	f
108	920471	9812892-1	Capen	1	stairs	wall	ND	ND	f
109	920472	9812892-2	Capen	2	stairs	wall	ND	ND	f
110	920473	9812892-3	Capen	3	stairs	wall	0.17	0.008	f
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	,1
114	920485	Method	Blank					ND	f
115	920577	9812892-20	Capen	8	Mens	wall	0.01		
116	920578	9812892-21	Capen	8	mens	sink	0.02		
117	920579	9812892-JC1	Capen	8	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		

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2241092-L
 Sample ID (TCT#).....282067
 Analysis Date.....4/16/92
 Filename.....V20416G
 Analyst.....DJJ
 Sample Amount.....0.50 sample
 ICAL Date.....1/6/92
 CCAL Filename.....V20416C
 Extraction Date.....4/13/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.270	-----	2378-TCDF-C13....	2.00	80
TOTAL TCDF	2.000	-----	2378-TCDD-C13....	2.00	84
2378-TCDD	nd	0.035	12378-PeCDF-C13..	2.00	79
TOTAL TCDD	nd	-----	23478-PeCDF-C13..	2.00	85
12378-PeCDF	0.280	-----	12378-PeCDD-C13..	2.00	91
23478-PeCDF	0.410	-----	123478-HxCDF-C13.	2.00	84
TOTAL PeCDF	3.500	-----	123678-HxCDF-C13.	2.00	86
12378-PeCDD	nd	0.078	123789-HxCDF-C13.	2.00	77
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	79
123478-HxCDF	0.760	-----	123478-HxCDD-C13.	2.00	87
123678-HxCDF	0.280	-----	123678-HxCDD-C13.	2.00	82
123789-HxCDF	0.380	-----	1234678-HpCDF-C13	2.00	71
234678-HxCDF	0.210	-----	1234789-HpCDF-C13	2.00	71
TOTAL HxCDF	4.000	-----	1234678-HpCDD-C13	2.00	65
123478-HxCDD	0.026	-----	OCDD-C13.....	4.00	58
123678-HxCDD	0.240	-----	1234-TCDD-C13....	2.00	na
123789-HxCDD	0.070	-----	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	2.800	-----	2378-TCDD-C137...	0.20	87
1234678-HpCDF	1.300	-----			
1234789-HpCDF	0.560	-----			
TOTAL HpCDF	2.300	-----			
1234678-HpCDD	0.500	-----			
TOTAL HpCDD	1.000	-----			
OCDF	3.000	-----			
OCDD	0.740	-----			

Total 2378-TCDD
 Equivalence = 0.47 ng/sample
 (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 92-1467

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....Clean Harbors

Sample ID (Client's#)....2211592 LAUN 2 DF
 Sample ID (TCT#).....301236
 Analysis Date.....11-11-92
 Filename.....V21111G
 Analyst.....SGM
 Sample Amount.....0.50 m2
 ICAL Date.....11/2/92
 CCAL Filename.....V21111B
 Extraction Date.....11-6-92

NATIVE ISOMERS	CONC. ng/m2	DL ng/m2	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.0044	-----	2378-TCDF-C13....	2.00	80
TOTAL TCDF	0.0780	-----	2378-TCDD-C13....	2.00	84
2378-TCDD	nd	0.0028	12378-PeCDF-C13..	2.00	81
TOTAL TCDD	0.0240 *	-----	23478-PeCDF-C13..	2.00	105
12378-PeCDF	0.0049	-----	12378-PeCDD-C13..	2.00	133
23478-PeCDF	0.0071	-----	123478-HxCDF-C13.	2.00	85
TOTAL PeCDF	0.0410	-----	123678-HxCDF-C13.	2.00	90
12378-PeCDD	nd	0.0046	123789-HxCDF-C13.	2.00	49
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	90
123478-HxCDF	0.0100	-----	123478-HxCDD-C13.	2.00	94
123678-HxCDF	0.0066	-----	123678-HxCDD-C13.	2.00	81
123789-HxCDF	0.0200	-----	1234678-HpCDF-C13	2.00	75
234678-HxCDF	0.0043 *	-----	1234789-HpCDF-C13	2.00	92
TOTAL HxCDF	0.1300	-----	1234678-HpCDD-C13	2.00	85
123478-HxCDD	0.0017	-----	OCDD-C13.....	4.00	67
123678-HxCDD	0.0490	-----	1234-TCDD-C13....	2.00	na
123789-HxCDD	0.0080	-----	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	0.4300	-----	2378-TCDD-C137...	0.20	92
1234678-HpCDF	0.0500	-----			
1234789-HpCDF	0.0089 *	-----			
TOTAL HpCDF	0.0980	-----			
1234678-HpCDD	0.0650	-----			
TOTAL HpCDD	0.1200	-----			
OCDF	0.0350	-----			
OCDD	0.0780 *	-----			

Total 2378-TCDD
 Equivalence = 0.016 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 93-0326

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....Clean Harbors

Sample ID (Client's#)....2211492 - NISOL DF
 Sample ID (TCT#).....301233
 Analysis Date.....11-10-92
 Filename.....V21101
 Analyst.....MCH
 Sample Amount.....0.50 mg
 ICAL Date.....11/2/92
 CCAL Filename.....V2110C
 Extraction Date.....11-5-92

DRAFT

NATIVE ISOMERS	CONC. ng/m2	DL ng/m2	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.0082	-----	2378-TCDF-C13....	2.00	93
TOTAL TCDF	0.0620 *	-----	2378-TCDD-C13....	2.00	90
2378-TCDD	nd	0.0025	12378-PeCDF-C13..	2.00	83
TOTAL TCDD	0.0390 *	-----	23478-PeCDF-C13..	2.00	106
12378-PeCDF	0.0066	-----	12378-PeCDD-C13..	2.00	123
23478-PeCDF	0.0076	-----	123478-HxCDF-C13.	2.00	95
TOTAL PeCDF	0.0190	-----	123678-HxCDF-C13.	2.00	58
12378-PeCDD	nd	0.0057	123789-HxCDF-C13.	2.00	49
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	85
123478-HxCDF	0.0110 *	-----	123478-HxCDD-C13.	2.00	97
123678-HxCDF	nd	0.0120	123678-HxCDD-C13.	2.00	90
123789-HxCDF	0.0190	-----	1234678-HpCDF-C13	2.00	68
234678-HxCDF	0.0062 *	-----	1234789-HpCDF-C13	2.00	79
TOTAL HxCDF	0.0650	-----	1234678-HpCDD-C13	2.00	80
123478-HxCDD	nd	0.0045	OCDD-C13.....	4.00	48
123678-HxCDD	nd	0.0180	1234-TCDD-C13....	2.00	na
123789-HxCDD	nd	0.0057	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	nd	-----	2378-TCDD-C137...	0.20	96
1234678-HpCDF	0.0280 *	-----			
1234789-HpCDF	nd	0.0180			
TOTAL HpCDF	0.0280 *	-----			
1234678-HpCDD	0.1500	-----			
TOTAL HpCDD	0.2400	-----			
OCDF	0.0780	-----			
OCDD	0.8500	-----			

Total 2378-TCDD
 Equivalence = 0.011 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 93-0325

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....Clean Harbors

Sample ID (Client's#)....2311492 SISOL DF
 Sample ID (TCT#).....301232
 Analysis Date.....11-10-92
 Filename.....V21110J
 Analyst.....MCH
 Sample Amount.....0.50 m2
 ICAL Date.....11/2/92
 CCAL Filename.....V21110C
 Extraction Date.....11-5-92

DRAFT

NATIVE ISOMERS	CONC. ng/m2	DL ng/m2	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.0098	-----	2378-TCDF-C13....	2.00	81
TOTAL TCDF	0.1400 *	-----	2378-TCDD-C13....	2.00	81
2378-TCDD	nd	0.0055	12378-PeCDF-C13..	2.00	76
TOTAL TCDD	0.0180	-----	23478-PeCDF-C13..	2.00	100
12378-PeCDF	0.0052	-----	12378-PeCDD-C13..	2.00	124
23478-PeCDF	0.0071	-----	123478-HxCDF-C13.	2.00	76
TOTAL PeCDF	0.0120	-----	123678-HxCDF-C13.	2.00	53
12378-PeCDD	nd	0.0063	123789-HxCDF-C13.	2.00	45
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	61
123478-HxCDF	nd	0.0450	123478-HxCDD-C13.	2.00	87
123678-HxCDF	nd	0.0031	123678-HxCDD-C13.	2.00	87
123789-HxCDF	nd	0.0200	1234678-HpCDF-C13	2.00	43
234678-HxCDF	nd	0.0093	1234789-HpCDF-C13	2.00	66
TOTAL HxCDF	0.0460	-----	1234678-HpCDD-C13	2.00	73
123478-HxCDD	nd	0.0023	OCDD-C13.....	4.00	52
123678-HxCDD	nd	0.0200	1234-TCDD-C13....	2.00	na
123789-HxCDD	nd	0.0070	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	nd	-----	2378-TCDD-C137...	0.20	83
1234678-HpCDF	nd	5.5000			
1234789-HpCDF	nd	0.1100			
TOTAL HpCDF	nd	-----			
1234678-HpCDD	0.1400	-----			
TOTAL HpCDD	0.2400	-----			
OCDF	0.0340 *	-----			
OCDD	0.7000	-----			

Total 2378-TCDD
 Equivalence = 0.0069 ng/m2
 (Using 1989 ITC 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 93-0325

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2232092-112
 Sample ID (TCT#).....280003
 Analysis Date.....3/26/92
 Filename.....820326E
 Analyst.....MJK
 Sample Amount..... 0.50 sample
 ICAL Date.....3/16/92
 CCAL Filename.....820326B
 Extraction Date.....3/21/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.0220	-----	2378-TCDF-C13....	2.00	88
TOTAL TCDF	0.0630	-----	2378-TCDD-C13....	2.00	81
2378-TCDD	nd	0.0260	12378-PeCDF-C13..	2.00	110
TOTAL TCDD	nd	-----	23478-PeCDF-C13..	2.00	132
12378-PeCDF	nd	0.0045	12378-PeCDD-C13..	2.00	100
23478-PeCDF	0.0055	-----	123478-HxCDF-C13..	2.00	86
TOTAL PeCDF	0.0055	-----	123678-HxCDF-C13..	2.00	77
12378-PeCDD	nd	0.0037	123789-HxCDF-C13..	2.00	95
TOTAL PeCDD	nd	-----	234678-HxCDF-C13..	2.00	86
123478-HxCDF	0.0071	-----	123478-HxCDD-C13..	2.00	99
123678-HxCDF	nd	0.0065	123678-HxCDD-C13..	2.00	71
123789-HxCDF	0.0083	-----	1234678-HpCDF-C13	2.00	81
234678-HxCDF	nd	0.0052	1234789-HpCDF-C13	2.00	86
TOTAL HxCDF	0.0400	-----	1234678-HpCDD-C13	2.00	85
123478-HxCDD	nd	0.0080	OCDD-C13.....	4.00	79
123678-HxCDD	nd	0.0084	1234-TCDD-C13....	2.00	na
123789-HxCDD	nd	0.0070	123789-HxCDD-C13..	2.00	na
TOTAL HxCDD	nd	-----	2378-TCDD-C137...	0.20	64
1234678-HpCDF	0.0410	-----			
1234789-HpCDF	nd	0.0100			
TOTAL HpCDF	0.0410	-----			
1234678-HpCDD	0.0560	-----			
TOTAL HpCDD	0.1100	-----			
OCDF	0.2300	-----			
OCDD	1.4000	-----			

Total 2378-TCDD
 Equivalence = 0.0091 ng/sample
 (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 92-1305

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2241092-115
 Sample ID (TCT#).....282070
 Analysis Date.....4/16/92
 Filename.....V20416J
 Analyst.....MCH
 Sample Amount.....0.50 sample
 ICAL Date.....1/6/92
 CCAL Filename.....V20416C
 Extraction Date.....4/13/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.0075	-----	2378-TCDF-C13....	2.00	102
TOTAL TCDF	0.0120	-----	2378-TCDD-C13....	2.00	119
2378-TCDD	nd	0.0056	12378-PeCDF-C13..	2.00	115
TOTAL TCDD	0.0047	-----	23478-PeCDF-C13..	2.00	104
12378-PeCDF	nd	0.0061	12378-PeCDD-C13..	2.00	115
23478-PeCDF	nd	0.0074	123478-HxCDF-C13.	2.00	108
TOTAL PeCDF	nd	-----	123678-HxCDF-C13.	2.00	98
12378-PeCDD	nd	0.0028	123789-HxCDF-C13.	2.00	96
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	104
123478-HxCDF	nd	0.0071	123478-HxCDD-C13.	2.00	123
123678-HxCDF	nd	0.0036	123678-HxCDD-C13.	2.00	90
123789-HxCDF	nd	0.0085	1234678-HpCDF-C13	2.00	88
234678-HxCDF	nd	0.0062	1234789-HpCDF-C13	2.00	96
TOTAL HxCDF	0.0085	-----	1234678-HpCDD-C13	2.00	100
123478-HxCDD	nd	0.0023	OCDD-C13.....	4.00	100
123678-HxCDD	0.0068	-----	1234-TCDD-C13....	2.00	na
123789-HxCDD	nd	0.0034	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	0.0360	-----	2378-TCDD-C137...	0.20	96
1234678-HpCDF	0.0180	-----			
1234789-HpCDF	nd	0.0079			
TOTAL HpCDF	0.0180	-----			
1234678-HpCDD	0.4600	-----			
TOTAL HpCDD	0.7300	-----			
OCDF	0.0360	-----			
OCDD	4.4000	-----			

Total 2378-TCDD
 Equivalence = 0.0106 ng/sample
 (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 92-1467

- ETC -

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

DATE: 01/28/92
PAGE: 2

Chain of Custody Data Required for ETC Data Management Summary Report

See below ETC Sample No.	CLEAN HARBORS	CHSUNYPCDX	Facility	See below Sample Point	Date
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Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.									
		2211192-1 920111 GD3993	2211192-2 920111 GD3994	2221192-3 920111 GD3995	2221192-4 920111 GD3996	2231192-5 920111 GD3997	2231192-6 920111 GD3998	2231192-7 920111 GD3999	2281192-7 920111 GD4000		
Miscellaneous Parameters											
2,3,7,8-TCDF	ng	.94	.72	.74	.74	.82	.92	.84	.88		
2,3,7,8-TCDF	ug	.19	.17	.15	.22	.15	.15	.84	.50		
Decachlorobiphenyl	ug	.79	.61	.51	.71	.79	.68	.84	.50		
Dichlorobiphenyl	ug	43	35	28	50	50	35	39	39		
Heptachlorobiphenyl	ug	12	9	8	11	12	10	7	7		
Hexachlorobiphenyl	ug	6	6	1	2	6	2	9	9		
HxCDD	ng	.37	.52	.29	.30	.39	.22	.67	.50		
HxCDF	ng	.19	.19	.18	1.0	.62	5.2	4.8	4.8		
HxCDF	ng	.28	.33	.29	.30	.24	.62	4.8	4.8		
Monochlorobiphenyl	ug	.20	.27	.26	.24	.42	8.0	8.4	14		
Monochlorobiphenyl	ug	.36	.27	.26	.31	.42	8.0	8.4	14		
OCDD	ng	50	50	50	50	50	50	50	50		
OCDF	ng	.51	.81	.78	.86	.60	1.8	7.3	7.3		
Octachlorobiphenyl	ug	1.7	.90	.78	.82	.96	5.0	4.9	4.9		
PCDD	ng	50	50	50	50	50	42	48	48		
PCDF	ng	.53	.46	.71	.50	.46	.64	.57	.57		
Pentachlorobiphenyl	ug	.28	.16	.14	.14	.10	1.2	1.0	1.0		
TCDD	ng	7.9	6.0	5.1	7.4	7.0	6.9	11.0	11.0		
TCDF	ng	.94	.72	.74	.72	.82	9.0	8.4	8.4		
Tetrachlorobiphenyl	ug	.19	.17	.15	.22	.15	11.0	3.5	3.5		
Trichlorobiphenyl	ug	3.3	2.5	2.1	2.9	3.2	2.8	2.0	2.0		
Trichlorobiphenyl	ug	1.5	1.1	.94	1.3	1.5	1.2	.91	.91		

Facilities: BMD, Biber, Methyloctetene, ml 1 Parameter not tested 1 Refuse

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Center

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Plant Desk
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Room 305-201
Plant Center

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Room 522
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 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2232092-125
 Sample ID (TCT#).....280004
 Analysis Date.....3/26/92
 Filename.....S20326F
 Analyst.....DJJ
 Sample Amount.....0.50 sample
 ICAL Date.....3/16/92
 CCAL Filename.....S20326B
 Extraction Date.....3/21/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.0270	-----	2378-TCDF-C13....	2.00	134
TOTAL TCDF	0.0870	-----	2378-TCDD-C13....	2.00	128
2378-TCDD	nd	0.0090	12378-PeCDF-C13..	2.00	159
TOTAL TCDD	nd	-----	23478-PeCDF-C13..	2.00	176
12378-PeCDF	0.0058	-----	12378-PeCDD-C13..	2.00	165
23478-PeCDF	0.0110	-----	123478-HxCDF-C13.	2.00	107
TOTAL PeCDF	0.0530	-----	123678-HxCDF-C13.	2.00	92
12378-PeCDD	nd	0.0012	123789-HxCDF-C13.	2.00	88
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	91
123478-HxCDF	0.0071	-----	123478-HxCDD-C13.	2.00	126
123678-HxCDF	nd	0.0043	123678-HxCDD-C13.	2.00	99
123789-HxCDF	0.0150	-----	1234678-HpCDF-C13	2.00	95
234678-HxCDF	nd	0.0069	1234789-HpCDF-C13	2.00	115
TOTAL HxCDF	0.0460	-----	1234678-HpCDD-C13	2.00	106
123478-HxCDD	nd	0.0018	OCDD-C13.....	4.00	94
123678-HxCDD	nd	0.0054	1234-TCDD-C13....	2.00	na
123789-HxCDD	nd	0.0047	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	0.0140	-----	2378-TCDD-C137...	0.20	83
1234678-HpCDF	nd	0.0150			
1234789-HpCDF	nd	0.0036			
TOTAL HpCDF	nd	-----			
1234678-HpCDD	0.0340	-----			
TOTAL HpCDD	0.0660	-----			
OCDF	nd	0.0210			
OCDD	0.3900	-----			

Total 2378-TCDD
 Equivalence = 0.011 ng/sample
 (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

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2232092-125 (RE-ANALYSIS)
 Sample ID (TCT#).....280004
 Analysis Date.....4/1/92
 Filename.....S20401E
 Analyst.....DJD
 Sample Amount.....0.50 sample
 ICAL Date.....3/31/92
 CCAL Filename.....S20401C
 Extraction Date.....3/21/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERED
2378-TCDF	0.0430	-----	2378-TCDF-C13....	2.00	
TOTAL TCDF	0.0830	-----	2378-TCDD-C13....	2.00	
2378-TCDD	nd	0.0160	12378-PeCDF-C13..	2.00	
TOTAL TCDD	nd	-----	23478-PeCDF-C13..	2.00	
12378-PeCDF	nd	0.0072	12378-PeCDD-C13..	2.00	
23478-PeCDF	nd	0.0052	123478-HxCDF-C13.	2.00	
TOTAL PeCDF	0.0560	-----	123678-HxCDF-C13.	2.00	
12378-PeCDD	nd	0.0017	123789-HxCDF-C13.	2.00	
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	
123478-HxCDF	0.0100	-----	123478-HxCDD-C13.	2.00	
123678-HxCDF	0.0051	-----	123678-HxCDD-C13.	2.00	
123789-HxCDF	0.0100	-----	1234678-HpCDF-C13	2.00	
234678-HxCDF	nd	0.0031	1234789-HpCDF-C13	2.00	
TOTAL HxCDF	0.0500	-----	1234678-HpCDD-C13	2.00	
123478-HxCDD	nd	0.0041	OCDD-C13.....	4.00	
123678-HxCDD	nd	0.0076			
123789-HxCDD	nd	0.0042			
TOTAL HxCDD	0.0220	-----	1234-TCDD-C13....	2.00	
1234678-HpCDF	0.0130	-----	123789-HxCDD-C13.	2.00	
1234789-HpCDF	nd	0.0065			
TOTAL HpCDF	0.0130	-----	2378-TCDD-C137...	0.20	
1234678-HpCDD	0.0280	-----			
TOTAL HpCDD	0.0570	-----			
OCDF	0.0220	-----			
OCDD	0.4200	-----			

Total 2378-TCDD
 Equivalence = 0.0077 ng/sam
 (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 92-1305

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2241092-DIRA
 Sample ID (TCT#).....282069
 Analysis Date.....4/16/92
 Filename.....V20416I
 Analyst.....MH
 Sample Amount.....0.50 sample
 ICAL Date.....1/6/92
 CCAL Filename.....V20416C
 Extraction Date.....4/13/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	nd	0.0089	2378-TCDF-C13....	2.00	80
TOTAL TCDF	0.0073	-----	2378-TCDD-C13....	2.00	93
			12378-PeCDF-C13..	2.00	86
2378-TCDD	nd	0.0220	23478-PeCDF-C13..	2.00	81
TOTAL TCDD	nd	-----	12378-PeCDD-C13..	2.00	81
			123478-HxCDF-C13.	2.00	82
12378-PeCDF	nd	0.0110	123678-HxCDF-C13.	2.00	70
23478-PeCDF	nd	0.0130	123789-HxCDF-C13.	2.00	80
TOTAL PeCDF	0.0140	-----	234678-HxCDF-C13.	2.00	82
			123478-HxCDD-C13.	2.00	97
12378-PeCDD	nd	0.0065	123678-HxCDD-C13.	2.00	81
TOTAL PeCDD	nd	-----	1234678-HpCDF-C13	2.00	71
			1234789-HpCDF-C13	2.00	82
123478-HxCDF	nd	0.0033	1234678-HpCDD-C13	2.00	83
123678-HxCDF	nd	0.0045	OCDD-C13.....	4.00	73
123789-HxCDF	nd	0.0079			
234678-HxCDF	nd	0.0083	1234-TCDD-C13....	2.00	na
TOTAL HxCDF	nd	-----	123789-HxCDD-C13.	2.00	na
123478-HxCDD	nd	0.0022	2378-TCDD-C137...	0.20	92
123678-HxCDD	nd	0.0030			
123789-HxCDD	nd	0.0042			
TOTAL HxCDD	nd	-----			
1234678-HpCDF	nd	0.0090			
1234789-HpCDF	nd	0.0081			
TOTAL HpCDF	nd	-----			
1234678-HpCDD	0.0980	-----			
TOTAL HpCDD	0.1300	-----			
OCDF	0.0110	-----			
OCDD	0.3900	-----			

Total 2378-TCDD
 Equivalence = 0.0014 ng/sample
 (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 92-1467

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2232092-LOUNGE
 Sample ID (TCT#).....280002
 Analysis Date.....3/26/92
 Filename.....S20326D
 Analyst.....DJJ
 Sample Amount..... 0.50 sample
 ICAL Date.....3/16/92
 CCAL Filename.....S20326B
 Extraction Date.....3/21/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVER
2378-TCDF	0.0480	-----	2378-TCDF-C13....	2.00	125
TOTAL TCDF	0.3000	-----	2378-TCDD-C13....	2.00	121
2378-TCDD	nd	0.0120	12378-PeCDF-C13..	2.00	126
TOTAL TCDD	nd	-----	23478-PeCDF-C13..	2.00	147
12378-PeCDF	0.0120	-----	12378-PeCDD-C13..	2.00	112
23478-PeCDF	0.0200	-----	123478-HxCDF-C13.	2.00	133
TOTAL PeCDF	0.1300	-----	123678-HxCDF-C13.	2.00	113
12378-PeCDD	nd	0.0048	123789-HxCDF-C13.	2.00	134
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	142
123478-HxCDF	0.0160	-----	123478-HxCDD-C13.	2.00	127
123678-HxCDF	0.0058	-----	123678-HxCDD-C13.	2.00	110
123789-HxCDF	0.0110	-----	1234678-HpCDF-C13	2.00	114
234678-HxCDF	nd	0.0054	1234789-HpCDF-C13	2.00	131
TOTAL HxCDF	0.0790	-----	1234678-HpCDD-C13	2.00	110
123478-HxCDD	nd	0.0018	OCDD-C13.....	4.00	113
123678-HxCDD	nd	0.0063	1234-TCDD-C13....	2.00	na
123789-HxCDD	nd	0.0066	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	0.0230	-----	2378-TCDD-C137...	0.20	108
1234678-HpCDF	0.0410	-----			
1234789-HpCDF	nd	0.0058			
TOTAL HpCDF	0.0880	-----			
1234678-HpCDD	0.0940	-----			
TOTAL HpCDD	0.2500	-----			
OCDF	0.2100	-----			
OCDD	2.6000	-----			

Total 2378-TCDD
 Equivalence = 0.023 ng/sample
 (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

	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	B	hall	light	26	370	f,fr
3	920018	D-2	Coykend.	B	hall	contr.box	430	14	f,fr
4	920019	D-3	Scudder	B	vault	wind.sill	8300	230	f,fr
5	920020	A-1	Parker	1		table	5600*	-	f
6	920021	A-2	Bliss	B	hall	light	2.9	-	f
7	920022	A-3	Bliss	1	lounge	table	0.2	-	f
8	920023	A-4	Coykend.	B	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	B	Rec.Rm.	TV	0.47	-	f
12	920027	A-8	Scudder	B	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.	B		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	Coykend.				5.8	-	f
23	920043	19281692	Coykend.				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	B	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

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Client Identification....2232092-214
 Sample ID (TCT#).....280005
 Analysis Date.....3/26/92
 Filename.....S20326G
 Analyst.....DJJ
 Sample Amount.....0.50 sample
 ICAL Date.....3/16/92
 CCAL Filename.....S20326B
 Extraction Date.....3/21/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVER
2378-TCDF	0.0660	-----	2378-TCDF-C13....	2.00	124
TOTAL TCDF	0.3800	-----	2378-TCDD-C13....	2.00	112
2378-TCDD	nd	0.0180	12378-PeCDF-C13..	2.00	169
TOTAL TCDD	0.0033	-----	23478-PeCDF-C13..	2.00	199
12378-PeCDF	0.0600	-----	12378-PeCDD-C13..	2.00	185
23478-PeCDF	0.0530	-----	123478-HxCDF-C13.	2.00	91
TOTAL PeCDF	0.5400	-----	123678-HxCDF-C13.	2.00	74
12378-PeCDD	0.0057	-----	123789-HxCDF-C13.	2.00	54
TOTAL PeCDD	0.0130	-----	234678-HxCDF-C13.	2.00	73
123478-HxCDF	0.0510	-----	123478-HxCDD-C13.	2.00	62
123678-HxCDF	0.0370	-----	123678-HxCDD-C13.	2.00	76
123789-HxCDF	0.0500	-----	1234678-HpCDF-C13	2.00	77
234678-HxCDF	0.0110	-----	1234789-HpCDF-C13	2.00	100
TOTAL HxCDF	0.4700	-----	1234678-HpCDD-C13	2.00	80
123478-HxCDD	nd	0.0170	OCDD-C13.....	4.00	37
123678-HxCDD	nd	0.0080	1234-TCDD-C13....	2.00	na
123789-HxCDD	nd	0.0130	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	0.0520	-----	2378-TCDD-C137...	0.20	78
1234678-HpCDF	0.0980	-----			
1234789-HpCDF	0.0500	-----			
TOTAL HpCDF	0.1900	-----			
1234678-HpCDD	0.0640	-----			
TOTAL HpCDD	0.1200	-----			
OCDF	0.2600	-----			
OCDD	0.3800	-----			

Total 2378-TCDD
 Equivalence = 0.057 ng/sample
 (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 92-1305

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

sample ID (Client's#)....2232092-214 (RE-ANALYSIS)
 Sample ID (TCT#).....280005
 Analysis Date.....3/31/92
 Filename.....S20331I
 Analyst.....MH
 Sample Amount.....0.50 sample
 ICAL Date.....3/31/92
 CCAL Filename.....S20331C
 Extraction Date.....3/21/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCE RECOV
2378-TCDF	0.0810	-----	2378-TCDF-C13....	2.00	1
TOTAL TCDF	0.5200	-----	2378-TCDD-C13....	2.00	1
2378-TCDD	nd	0.0180	12378-PeCDF-C13..	2.00	1
TOTAL TCDD	nd	-----	23478-PeCDF-C13..	2.00	1
12378-PeCDF	0.0610	-----	12378-PeCDD-C13..	2.00	1
23478-PeCDF	0.0600	-----	123478-HxCDF-C13.	2.00	1
TOTAL PeCDF	0.6000	-----	123678-HxCDF-C13.	2.00	1
12378-PeCDD	nd	0.0068	123789-HxCDF-C13.	2.00	1
TOTAL PeCDD	0.0150	-----	234678-HxCDF-C13.	2.00	1
123478-HxCDF	0.0650	-----	123478-HxCDD-C13.	2.00	1
123678-HxCDF	0.0400	-----	123678-HxCDD-C13.	2.00	1
123789-HxCDF	0.0500	-----	1234678-HpCDF-C13	2.00	1
234678-HxCDF	0.0120	-----	1234789-HpCDF-C13	2.00	1
TOTAL HxCDF	0.4400	-----	1234678-HpCDD-C13	2.00	1
123478-HxCDD	0.0042	-----	OCDD-C13.....	4.00	1
123678-HxCDD	0.0077	-----	1234-TCDD-C13....	2.00	1
123789-HxCDD	0.0055	-----	123789-HxCDD-C13.	2.00	1
TOTAL HxCDD	0.0440	-----	2378-TCDD-C137...	0.20	1
1234678-HpCDF	0.1200	-----			
1234789-HpCDF	0.0610	-----			
TOTAL HpCDF	0.3000	-----			
1234678-HpCDD	0.0780	-----			
TOTAL HpCDD	0.1300	-----			
OCDF	0.2600	-----			
OCDD	0.4900	-----			

Total 2378-TCDD
 Equivalence = 0.063 ng/sar
 (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 92-1305

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2232092-218
 Sample ID (TCT#).....280006
 Analysis Date.....3/26/92
 Filename.....S20326H
 Analyst.....DJJ
 Sample Amount..... 0.50 sample
 ICAL Date.....3/16/92
 CCAL Filename.....S20326B
 Extraction Date.....3/21/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVER
2378-TCDF	0.0170	-----	2378-TCDF-C13....	2.00	105
TOTAL TCDF	0.0440	-----	2378-TCDD-C13....	2.00	108
2378-TCDD	nd	0.0140	12378-PeCDF-C13..	2.00	110
TOTAL TCDD	nd	-----	23478-PeCDF-C13..	2.00	121
12378-PeCDF	nd	0.0071	12378-PeCDD-C13..	2.00	100
23478-PeCDF	0.0057	-----	123478-HxCDF-C13..	2.00	108
TOTAL PeCDF	0.0330	-----	123678-HxCDF-C13..	2.00	94
12378-PeCDD	nd	0.0043	123789-HxCDF-C13..	2.00	53
TOTAL PeCDD	nd	-----	234678-HxCDF-C13..	2.00	87
123478-HxCDF	nd	0.0075	123478-HxCDD-C13..	2.00	96
123678-HxCDF	nd	0.0035	123678-HxCDD-C13..	2.00	84
123789-HxCDF	nd	0.0190	1234678-HpCDF-C13	2.00	76
234678-HxCDF	nd	0.0050	1234789-HpCDF-C13	2.00	95
TOTAL HxCDF	0.0200	-----	1234678-HpCDD-C13	2.00	81
123478-HxCDD	nd	0.0120	OCDD-C13.....	4.00	104
123678-HxCDD	nd	0.0097	1234-TCDD-C13....	2.00	na
123789-HxCDD	nd	0.0074	123789-HxCDD-C13..	2.00	na
TOTAL HxCDD	0.0470	-----	2378-TCDD-C137...	0.20	79
1234678-HpCDF	0.0250	-----			
1234789-HpCDF	nd	0.0095			
TOTAL HpCDF	0.0250	-----			
1234678-HpCDD	0.5700	-----			
TOTAL HpCDD	0.8800	-----			
OCDF	0.0250	-----			
OCDD	2.3000	-----			

Total 2378-TCDD
 Equivalence = 0.013 ng/sample
 (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

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2241092-226
 Sample ID (TCT#).....282071
 Analysis Date.....4/16/92
 Filename.....V20416K
 Analyst.....MCH
 Sample Amount.....0.50 sample
 ICAL Date.....1/6/92
 CCAL Filename.....V20416C
 Extraction Date.....4/13/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	nd	0.0057	2378-TCDF-C13....	2.00	87
TOTAL TCDF	0.0140	-----	2378-TCDD C13....	2.00	98
2378-TCDD	nd	0.0072	12378-PeCDF-C13..	2.00	95
TOTAL TCDD	nd	-----	23478-PeCDF-C13..	2.00	88
12378-PeCDF	nd	0.0053	12378-PeCDD-C13..	2.00	100
23478-PeCDF	nd	0.0056	123478-HxCDF-C13.	2.00	92
TOTAL PeCDF	nd	-----	123678-HxCDF-C13.	2.00	61
12378-PeCDD	nd	0.0028	123789-HxCDF-C13.	2.00	84
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	89
123478-HxCDF	0.0057	-----	123478-HxCDD-C13.	2.00	81
123678-HxCDF	nd	0.0064	123678-HxCDD-C13.	2.00	91
123789-HxCDF	0.0086	-----	1234678-HpCDF-C13	2.00	83
234678-HxCDF	nd	0.0018	1234789-HpCDF-C13	2.00	93
TOTAL HxCDF	0.0580	-----	1234678-HpCDD-C13	2.00	97
123478-HxCDD	nd	0.0015	OCDD-C13.....	4.00	52
123678-HxCDD	0.0083	-----	1234-TCDD-C13....	2.00	na
123789-HxCDD	nd	0.0056	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	0.0250	-----	2378-TCDD-C137...	0.20	99
1234678-HpCDF	0.0770	-----			
1234789-HpCDF	nd	0.0110			
TOTAL HpCDF	0.1200	-----			
1234678-HpCDD	0.7400	-----			
TOTAL HpCDD	1.1000	-----			
OCDF	0.1900	-----			
OCDD	4.5000	-----			

Total 2378-TCDD
 Equivalence = 0.0151 ng/sample
 (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 92-1467

 TWIN CITY TESTING CORPORATION
 * PCB/PCDD ANALYSIS RESULTS *

 Client....Clean Harbors

Sample ID (Client's#)....2211492 - 312 DF
 Sample ID (TCT#).....301234
 Analysis Date.....11-10-92
 File Name.....V21110H
 Analyst.....MCH
 Sample Amount.....0.50 m2
 ICAL Date.....11/2/92
 CCAL File Name.....V21110C
 Extraction Date.....11-5-92

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NATIVE ISOMERS	CONC. ng/m2	DL ng/m2	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	nd	0.0060	2378-TCDF-C13....	2.00	96
TOTAL TCDF	0.0200 *	-----	2378-TCDD-C13....	2.00	96
2378-TCDD	nd	0.0034	12378-PeCDF-C13...	2.00	87
TOTAL TCDD	0.0230 *	-----	23478-PeCDF-C13..	2.00	117
12378-PeCDF	nd	0.0066	12378-PeCDD-C13..	2.00	123
23478-PeCDF	nd	0.0039	123478-HxCDF-C13.	2.00	80
TOTAL PeCDF	nd	-----	123678-HxCDF-C13.	2.00	92
12378-PeCDD	nd	0.0053	123789-HxCDF-C13.	2.00	91
TOTAL PeCDD	nd	-----	234678-HxCDF-C13.	2.00	97
123478-HxCDF	nd	0.0031	123478-HxCDD-C13.	2.00	102
123678-HxCDF	nd	0.0026	123678-HxCDD-C13.	2.00	99
123789-HxCDF	nd	0.0120	1234678-HpCDF-C13	2.00	90
234678-HxCDF	nd	0.0024	1234789-HpCDF-C13	2.00	118
TOTAL HxCDF	nd	-----	1234678-HpCDD-C13	2.00	109
123478-HxCDD	nd	0.0009	OCDD-C13.....	4.00	100
123678-HxCDD	nd	0.0021	1234-TCDD-C13....	2.00	na
123789-HxCDD	nd	0.0016	123789-HxCDD-C13.	2.00	na
TOTAL HxCDD	nd	-----	2378-TCDD-C137...	0.20	97
1234678-HpCDF	0.0054 *	-----			
1234789-HpCDF	nd	0.0046			
TOTAL HpCDF	0.0054 *	-----			
1234678-HpCDD	0.0140 *	-----			
TOTAL HpCDD	0.0140 *	-----			
OCDF	nd	0.0110			
OCDD	0.0790 *	-----			

Total 2378-TCDD
 Equivalence = 0.0003 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 93-0325

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2241092-321
 Sample ID (TCT#).....282072
 Analysis Date.....4/17/92
 Filename.....V20417E
 Analyst.....MJK
 Sample Amount.....0.50 sample
 ICAL Date.....1/6/92
 CCAL Filename.....V20417C
 Extraction Date.....4/13/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.0340	-----	2378-TCDF-C13....	2.00	73
TOTAL TCDF	0.0860	-----	2378-TCDD-C13....	2.00	80
2378-TCDD	nd	0.0210	12378-PeCDF-C13..	2.00	93
TOTAL TCDD	nd	-----	23478-PeCDF-C13..	2.00	95
12378-PeCDF	0.0210	-----	12378-PeCDD-C13..	2.00	90
23478-PeCDF	0.0230	-----	123478-HxCDF-C13..	2.00	83
TOTAL PeCDF	0.1400	-----	123678-HxCDF-C13..	2.00	73
12378-PeCDD	nd	0.0120	123789-HxCDF-C13..	2.00	67
TOTAL PeCDD	nd	-----	234678-HxCDF-C13..	2.00	76
123478-HxCDF	0.0220	-----	123478-HxCDD-C13..	2.00	80
123678-HxCDF	0.0120	-----	123678-HxCDD-C13..	2.00	77
123789-HxCDF	0.0250	-----	1234678-HpCDF-C13	2.00	65
234678-HxCDF	0.0120	-----	1234789-HpCDF-C13	2.00	74
TOTAL HxCDF	0.1100	-----	1234678-HpCDD-C13	2.00	67
123478-HxCDD	nd	0.0034	OCDD-C13.....	4.00	53
123678-HxCDD	0.0210	-----	1234-TCDD-C13....	2.00	na
123789-HxCDD	0.0053	-----	123789-HxCDD-C13..	2.00	na
TOTAL HxCDD	0.1800	-----	2378-TCDD-C137...	0.20	89
1234678-HpCDF	0.1800	-----			
1234789-HpCDF	0.0250	-----			
TOTAL HpCDF	0.4400	-----			
1234678-HpCDD	1.9000	-----			
TOTAL HpCDD	3.3000	-----			
OCDF	0.6500	-----			
OCDD	9.9000	-----			

Total 2378-TCDD
 Equivalence = 0.057 ng/sample
 (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 92-1467

ETC

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

DATE: 01/28/91
PAGE: 2

Chain of Custody Data Required for ETC Data Management Summary Report

See below ETC Sample No.	CHSUNYPCOX Facility	See below Sample Point	Date
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Parameters	Units	Sample Points, Sampling Dates, and ETC Sample Nos.									
		2211192-1 920111 GD3993	2211192-2 920111 GD3994	2221192-3 920111 GD3995	2221192-4 920111 GD3996	2231192-5 920111 GD3997	2231192-6 920111 GD3998	2261192-7 920111 GD3999	2261192-8 920111 GD4000		
Miscellaneous Parameters		/									
2,3,7,8-TCDF	ng	.94	.74	.74	.74	.82	.82	.84	.84	.88	.88
2,3,7,8-TCDF	ng	.19	.15	.15	.22	.15	.15	.24	.24	.50	.50
Decachlorobiphenyl	ug	.79	.51	.51	.71	.79	.79	.84	.84	.84	.84
Dichlorobiphenyl	ug	43	28	28	11	12	12	39	39	39	39
Heptachlorobiphenyl	ug	12	6	6	2	6	6	7	7	7	7
Hexachlorobiphenyl	ug	31	16	16	30	39	39	50	50	50	50
HxCDF	ng	19	12	12	1	6	6	8	8	8	8
HxCDF	ng	.28	.33	.18	1.0	.24	.24	.24	.24	.24	.24
Monochlorobiphenyl	ug	.20	.14	.29	.94	.42	.42	.42	.42	.42	.42
Nonachlorobiphenyl	ug	.36	.27	.23	.32	.36	.36	.36	.36	.36	.36
OCDF	ng	51	50	50	50	50	50	50	50	50	50
OCDF	ng	1.7	.81	.78	.82	.96	.96	.96	.96	.96	.96
Octachlorobiphenyl	ug	53	43	44	50	46	46	46	46	46	46
PCDF	ng	25	28	28	2.1	.60	.60	.60	.60	.60	.60
Pentachlorobiphenyl	ug	7.9	6.0	5.7	9.4	7.9	7.9	7.9	7.9	7.9	7.9
TCDF	ng	.94	.72	.72	.74	.82	.82	.82	.82	.82	.82
Tetrachlorobiphenyl	ug	19	17	15	2.2	.15	.15	.15	.15	.15	.15
Trichlorobiphenyl	ug	1.9	1.1	.94	1.3	1.5	1.5	1.5	1.5	1.5	1.5

Parameter not tested (N/A) Parameter not tested (N/A) Parameter not tested (N/A)

 TWIN CITY TESTING CORPORATION
 * PCDF/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

Sample ID (Client's#)....2241092-331
 Sample ID (TCT#).....282073
 Analysis Date.....4/17/92
 Filename.....V20417F
 Analyst.....MJK
 Sample Amount.....0.50 sample
 ICAL Date.....1/6/92
 CCAL Filename.....V20417C
 Extraction Date.....4/13/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.15	-----	2378-TCDF-C13....	2.00	226
TOTAL TCDF	0.15	-----	2378-TCDD-C13....	2.00	152
			12378-PeCDF-C13..	2.00	50
2378-TCDD	0.15	-----	23478-PeCDF-C13..	2.00	139
TOTAL TCDD	0.15	-----	12378-PeCDD-C13..	2.00	46
			123478-HxCDF-C13.	2.00	379
12378-PeCDF	0.77	-----	123678-HxCDF-C13.	2.00	405
23478-PeCDF	0.83	-----	123789-HxCDF-C13.	2.00	195
TOTAL PeCDF	1.60	-----	234678-HxCDF-C13.	2.00	190
			123478-HxCDD-C13.	2.00	286
12378-PeCDD	0.62	-----	123678-HxCDD-C13.	2.00	227
TOTAL PeCDD	0.62	-----	1234678-HpCDF-C13	2.00	208
			1234789-HpCDF-C13	2.00	640
123478-HxCDF	0.82	-----	1234678-HpCDD-C13	2.00	491
123678-HxCDF	0.80	-----	OCDD-C13.....	4.00	958
123789-HxCDF	0.81	-----			
234678-HxCDF	0.78	-----	1234-TCDD-C13....	2.00	na
TOTAL HxCDF	3.20	-----	123789-HxCDD-C13.	2.00	na
123478-HxCDD	0.74	-----	2378-TCDD-C137...	0.20	61
123678-HxCDD	0.96	-----			
123789-HxCDD	0.71	-----			
TOTAL HxCDD	2.40	-----			
1234678-HpCDF	0.91	-----			
1234789-HpCDF	0.82	-----			
TOTAL HpCDF	1.70	-----			
1234678-HpCDD	0.99	-----			
TOTAL HpCDD	0.99	-----			
OCDF	1.90	-----	Total 2378-TCDD		
OCDD	3.90	-----	Equivalence =	1.5 ng/sample	
			(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 92-1467

 TWIN CITY TESTING CORPORATION
 * PCB/PCDD ANALYSIS RESULTS *

 Client....CLEAN HARBORS

DRAFT

Sample ID (Client's#)....2211692 - S.ISO
 Sample ID (TCT#).....301352
 Analysis Date.....11/11/92
 Filename.....7211118
 Analyst.....MCH
 Sample Amount.....0.50 sample
 ICAL Date.....11/11/92
 CCAL Filename.....7211117
 Extraction Date.....11/7/92

NATIVE ISOMERS	CONC. ng/sample	DL ng/sample	INTERNAL STANDARDS	ng's ADDED	PERCENT RECOVERY
2378-TCDF	0.0072	-----	2378-TCDF-C13....	10.00	73
TOTAL TCDF	0.1300	-----	2378-TCDD-C13....	10.00	72
2378-TCDD	nd	0.0210	12378-PeCDF-C13..	10.00	71
TOTAL TCDD	0.0480	-----	12378-PeCDD-C13..	10.00	80
12378-PeCDF	0.0110	-----	123678-HxCDF-C13.	10.00	56
23478-PeCDF	0.0120	-----	123678-HxCDD-C13.	10.00	51
TOTAL PeCDF	0.0530	-----	1234678-HpCDF-C13	10.00	54
12378-PeCDD	nd	0.0110	1234678-HpCDD-C13	10.00	61
TOTAL PeCDD	nd	-----	OCDD-C13.....	20.00	47
123478-HxCDF	0.0140	-----	RECOVERY STANDARDS		
123678-HxCDF	nd	0.0084	1234-TCDD-C13....	10.00	na
123789-HxCDF	0.0099	-----	123789-HxCDD-C13.	10.00	na
234678-HxCDF	nd	0.0110	SURROGATE STANDARDS		
TOTAL HxCDF	0.0380	-----	2378-TCDD-C137...	5.00	61
123478-HxCDD	0.0070	-----	23478-PeCDF-C13..	5.00	91
123678-HxCDD	0.0420	-----	123478-HxCDF-C13.	5.00	90
123789-HxCDD	nd	0.0200	123478-HxCDD-C13.	5.00	120
TOTAL HxCDD	0.2600	-----	1234789-HpCDF-C13	5.00	92
1234678-HpCDF	0.0330	-----			
1234789-HpCDF	0.0170	-----			
TOTAL HpCDF	0.0650	-----			
1234678-HpCDD	0.0670	-----			
TOTAL HpCDD	0.1200	-----			
OCDF	0.0470	-----			
OCDD	0.1600	-----			

Total 2378-TCDD
 Equivalence = 0.016 ng/sample
 (Using 1989 ITE Factors)

CONC= Concentrations, calculated as described in EPA Method 23.
 DL= Detection limits, calculated as described in EPA Method 23.
 na= not applicable
 nd= not detected

TCT Invoice Number....4410 93-0341

 TWIN CITY TESTING CORPORATION
 * PCB/PCDD ANALYSIS RESULTS *

 Client....Clean Harbor

Sample ID (Client's#)....2211892 - N.ISO
 Sample ID (TCT#).....301391
 Analysis Date.....11-12-92
 Filename.....V21112K
 Analyst.....MCH
 Sample Amount.....0.50 sample
 ICAL Date.....11/12/92
 CCAL Filename.....V21112K
 Extraction Date.....11-9-92

NATIVE ISOMERS	CONC. pg/sample	DL pg/sample	INTERNAL STANDARDS	pg's ADDED	PERCENT RECOVERY
2378-TCDF	nd	5.0	2378-TCDF-C13....	10000	87
TOTAL TCDF	42.0	-----	2378-TCDD-C13....	10000	107
2378-TCDD	nd	9.7	12378-PeCDF-C13..	10000	95
TOTAL TCDD	43.0	-----	12378-PeCDD-C13..	10000	141
12378-PeCDF	nd	3.3	123678-HxCDF-C13.	10000	68
23478-PeCDF	nd	4.3	123678-HxCDD-C13.	10000	82
TOTAL PeCDF	nd	-----	1234678-HpCDF-C13	10000	84
12378-PeCDD	nd	2.7	1234678-HpCDD-C13	10000	95
TOTAL PeCDD	nd	-----	OCDD-C13.....	20000	84
123478-HxCDF	nd	2.5	RECOVERY STANDARDS		
123678-HxCDF	6.8	-----	1234-TCDD-C13....	10000	na
123789-HxCDF	nd	14.0	123789-HxCDD-C13.	10000	na
234678-HxCDF	nd	3.3	SURROGATE STANDARDS		
TOTAL HxCDF	11.0	-----	2378-TCDD-C137...	5000	62
123478-HxCDD	nd	3.9	23478-PeCDF-C13..	5000	110
123678-HxCDD	15.0	-----	123478-HxCDF-C13.	5000	94
123789-HxCDD	4.9	-----	123478-HxCDD-C13.	5000	112
TOTAL HxCDD	130.0	-----	1234789-HpCDF-C13	5000	87
1234678-HpCDF	nd	95.0	Total 2378-TCDD Equivalence = 3.1 pg/sample (Using 1989 ITE Factors)		
1234789-HpCDF	nd	6.7			
TOTAL HpCDF	nd	-----			
1234678-HpCDD	37.0	-----			
TOTAL HpCDD	80.0	-----			
OCDF	8.5	-----			
OCDD	93.0	-----			

CONC= Concentrations, calculated as described in EPA Method 23.

DL= Detection limits, calculated as described in EPA Method 23.

na= not applicable

nd= not detected

TCT Invoice Number....4410 93-0343