Deffenbaugh

SDG: 6041974

EPA 8260

Data Deliverable

SDG Level D: 6041974

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Data Package completed by: Tanya Holbrook Date: 7-20-00

Sample

Summary

Sample Association Summary

EPA 8260

PASI Project #: 6041974 **Matrix:** Soil

Sample Description	PASI Sample Number
DUP	603556655
EX10	603556820
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Sample Result

Forms

Pace Sample No.:	603556697	**Date Collected:**	06/09/00
Client Sample ID:	EX2	**Date Received:**	06/09/00
Client Name:	Deffenbaugh Industries	**Date Ext./Dig. :**	
Analytical Method:	EPA 8260	**Date Analyzed:**	06/26/00
Matrix:	Soil	**Batch Number:**	84931
Percent Moisture:	2.3	**Pace Project No.:**	6041974

Compound	MDL	PQL	Units	Dilution	Results	Qualifier
1,1,1,2-Tetrachloroethane	0.785	5.1	ug/kg	1.00		U
1,1,1-Trichloroethane	1.1	5.1	ug/kg	1.00		U
1,1,2,2-Tetrachloroethane	0.898	5.1	ug/kg	1.00		U
1,1-Dichloroethene	1.06	5.1	ug/kg	1.00		U
1,2-Dichloroethane	1.21	5.1	ug/kg	1.00		U
1,4-Dioxane (P-Dioxane)		51	ug/kg	1.00		U
2-Butanone	3.31	10	ug/kg	1.00	9.2	J
2-Hexanone	3.26	100	ug/kg	1.00		U
4-Methyl-2-Pentanone	1.94	10	ug/kg	1.00		U
Acetone	16.9	20	ug/kg	1.00	45	BBBBB
Benzene	0.714	5.1	ug/kg	1.00		U
Carbon Disulfide	0.790	10	ug/kg	1.00		U
Chlorobenzene	0.765	5.1	ug/kg	1.00		U
Chloroethane	1.1	5.1	ug/kg	1.00		U
Chloromethane	1.13	5.1	ug/kg	1.00		U
cis-1,2-Dichloroethene	1.13	5.1	ug/kg	1.00		U
Ethylbenzene	0.694	5.1	ug/kg	1.00		U
Hexachlorobutadiene	1.16	5.1	ug/kg	1.00		U
Methylene Chloride	0.989	5.1	ug/kg	1.00	580	BBBBB
O-Xylene (1,2-Dimethylbenzene)	0.653	5.1	ug/kg	1.00		U
Styrene	0.796	5.1	ug/kg	1.00		U
Tetrachloroethene	0.724	5.1	ug/kg	1.00		U
Toluene	0.428	5.1	ug/kg	1.00		U
trans-1,2-Dichloroethene	1.14	5.1	ug/kg	1.00		U
Trichloroethene	1.16	5.1	ug/kg	1.00		U
Vinyl Chloride	1.41	5.1	ug/kg	1.00		U
Xylene (Total)	1.91	5.1	ug/kg	1.00		U

U - The analyte was analyzed for, but not detected above MDL.

J - The analyte was positively identified below the PQL.

B - The analyte was found in an associated method blank, as well as in the sample.

Pace Sample No.:	603556705	**Date Collected:**	06/09/00
Client Sample ID:	EX3	**Date Received:**	06/09/00
Client Name:	Deffenbaugh Industries	**Date Ext./Dig. :**	
Analytical Method:	EPA 8260	**Date Analyzed:**	06/26/00
Matrix:	Soil	**Batch Number:**	84931
Percent Moisture:	10.1	**Pace Project No.:**	6041974

Compound	MDL	PQL	Units	Dilution	Results	Qualifier
1,1,1,2-Tetrachloroethane	0.862	5.6	ug/kg	1.00		U
1,1,1-Trichloroethane	1.21	5.6	ug/kg	1.00		U
1,1,2,2-Tetrachloroethane	0.986	5.6	ug/kg	1.00		U
1,1-Dichloroethene	1.16	5.6	ug/kg	1.00		U
1,2-Dichloroethane	1.33	5.6	ug/kg	1.00		U
1,4-Dioxane (P-Dioxane)		56	ug/kg	1.00		U
2-Butanone	3.64	11	ug/kg	1.00		U
2-Hexanone	3.59	110	ug/kg	1.00		U
4-Methyl-2-Pentanone	2.13	11	ug/kg	1.00		U
Acetone	18.5	22	ug/kg	1.00	7.1	JBBBBB
Benzene	0.784	5.6	ug/kg	1.00		U
Carbon Disulfide	0.869	11	ug/kg	1.00		U
Chlorobenzene	0.840	5.6	ug/kg	1.00		U
Chloroethane	1.21	5.6	ug/kg	1.00		U
Chloromethane	1.24	5.6	ug/kg	1.00		U
cis-1,2-Dichloroethene	1.24	5.6	ug/kg	1.00		U
Ethylbenzene	0.762	5.6	ug/kg	1.00		U
Hexachlorobutadiene	1.28	5.6	ug/kg	1.00		U
Methylene Chloride	1.09	5.6	ug/kg	1.00	56	BBBBB
O-Xylene (1,2-Dimethylbenzene)	0.717	5.6	ug/kg	1.00		U
Styrene	0.874	5.6	ug/kg	1.00		U
Tetrachloroethene	0.795	5.6	ug/kg	1.00		U
Toluene	0.470	5.6	ug/kg	1.00		U
trans-1,2-Dichloroethene	1.25	5.6	ug/kg	1.00		U
Trichloroethene	1.28	5.6	ug/kg	1.00		U
Vinyl Chloride	1.55	5.6	ug/kg	1.00		U
Xylene (Total)	2.09	5.6	ug/kg	1.00		U

U - The analyte was analyzed for, but not detected above MDL.

J - The analyte was positively identified below the PQL.

B - The analyte was found in an associated method blank, as well as in the sample.

Pace Sample No.:	603556713	**Date Collected:**	06/09/00
Client Sample ID:	EX5	**Date Received:**	06/09/00
Client Name:	Deffenbaugh Industries	**Date Ext./Dig. :**	
Analytical Method:	EPA 8260	**Date Analyzed:**	06/26/00
Matrix:	Soil	**Batch Number:**	84931
Percent Moisture:	11.7	**Pace Project No.:**	6041974

Compound	MDL	PQL	Units	Dilution	Results	Qualifier
1,1,1,2-Tetrachloroethane	0.878	5.7	ug/kg	1.00		U
1,1,1-Trichloroethane	1.23	5.7	ug/kg	1.00		U
1,1,2,2-Tetrachloroethane	1.00	5.7	ug/kg	1.00		U
1,1-Dichloroethene	1.19	5.7	ug/kg	1.00		U
1,2-Dichloroethane	1.36	5.7	ug/kg	1.00		U
1,4-Dioxane (P-Dioxane)		57	ug/kg	1.00		U
2-Butanone	3.64	11	ug/kg	1.00		U
2-Hexanone	3.59	110	ug/kg	1.00		U
4-Methyl-2-Pentanone	2.13	11	ug/kg	1.00		U
Acetone	19.4	23	ug/kg	1.00	23	BBBBB
Benzene	0.798	5.7	ug/kg	1.00		U
Carbon Disulfide	0.869	11	ug/kg	1.00		U
Chlorobenzene	0.855	5.7	ug/kg	1.00		U
Chloroethane	1.23	5.7	ug/kg	1.00		U
Chloromethane	1.27	5.7	ug/kg	1.00		U
cis-1,2-Dichloroethene	1.27	5.7	ug/kg	1.00		U
Ethylbenzene	0.775	5.7	ug/kg	1.00		U
Hexachlorobutadiene	1.3	5.7	ug/kg	1.00		U
Methylene Chloride	1.11	5.7	ug/kg	1.00	84	BBBBB
O-Xylene (1,2-Dimethylbenzene)	0.730	5.7	ug/kg	1.00		U
Styrene	0.889	5.7	ug/kg	1.00		U
Tetrachloroethene	0.809	5.7	ug/kg	1.00		U
Toluene	0.479	5.7	ug/kg	1.00		U
trans-1,2-Dichloroethene	1.28	5.7	ug/kg	1.00		U
Trichloroethene	1.3	5.7	ug/kg	1.00		U
Vinyl Chloride	1.57	5.7	ug/kg	1.00		U
Xylene (Total)	2.13	5.7	ug/kg	1.00		U

U - The analyte was analyzed for, but not detected above MDL.

J - The analyte was positively identified below the PQL.

B - The analyte was found in an associated method blank, as well as in the sample.

Pace Sample No.:	603556721	**Date Collected:**	06/09/00
Client Sample ID:	EX6 SURFACE	**Date Received:**	06/09/00
Client Name:	Deffenbaugh Industries	**Date Ext./Dig. :**	
Analytical Method:	EPA 8260	**Date Analyzed:**	06/26/00
Matrix:	Soil	**Batch Number:**	84931
Percent Moisture:	3.7	**Pace Project No.:**	6041974

Compound	MDL	PQL	Units	Dilution	Results	Qualifier
1,1,1,2-Tetrachloroethane	0.801	5.2	ug/kg	1.00		U
1,1,1-Trichloroethane	1.12	5.2	ug/kg	1.00		U
1,1,2,2-Tetrachloroethane	0.915	5.2	ug/kg	1.00		U
1,1-Dichloroethene	1.08	5.2	ug/kg	1.00		U
1,2-Dichloroethane	1.24	5.2	ug/kg	1.00		U
1,4-Dioxane (P-Dioxane)		52	ug/kg	1.00		U
2-Butanone	3.31	10	ug/kg	1.00		U
2-Hexanone	3.26	100	ug/kg	1.00		U
4-Methyl-2-Pentanone	1.94	10	ug/kg	1.00		U
Acetone	17.7	21	ug/kg	1.00	14	JBBBBB
Benzene	0.728	5.2	ug/kg	1.00		U
Carbon Disulfide	0.790	10	ug/kg	1.00		U
Chlorobenzene	0.780	5.2	ug/kg	1.00		U
Chloroethane	1.12	5.2	ug/kg	1.00		U
Chloromethane	1.15	5.2	ug/kg	1.00		U
cis-1,2-Dichloroethene	1.15	5.2	ug/kg	1.00		U
Ethylbenzene	0.707	5.2	ug/kg	1.00		U
Hexachlorobutadiene	1.19	5.2	ug/kg	1.00		U
Methylene Chloride	1.01	5.2	ug/kg	1.00	22	BBBBB
O-Xylene (1.2-Dimethylbenzene)	0.666	5.2	ug/kg	1.00		U
Styrene	0.811	5.2	ug/kg	1.00		U
Tetrachloroethene	0.738	5.2	ug/kg	1.00	4.4	J
Toluene	0.437	5.2	ug/kg	1.00	11	
trans-1,2-Dichloroethene	1.16	5.2	ug/kg	1.00		U
Trichloroethene	1.19	5.2	ug/kg	1.00		U
Vinyl Chloride	1.44	5.2	ug/kg	1.00		U
Xylene (Total)	1.94	5.2	ug/kg	1.00	2.6	J

U - The analyte was analyzed for, but not detected above MDL.

J - The analyte was positively identified below the PQL.

B - The analyte was found in an associated method blank, as well as in the sample.

Pace Sample No.:	603556739	**Date Collected:**	06/09/00
Client Sample ID:	EX8 SURFACE	**Date Received:**	06/09/00
Client Name:	Deffenbaugh Industries	**Date Ext./Dig. :**	
Analytical Method:	EPA 8260	**Date Analyzed:**	06/26/00
Matrix:	Soil	**Batch Number:**	84931
Percent Moisture:	6.9	**Pace Project No.:**	6041974

Compound	MDL	PQL	Units	Dilution	Results	Qualifier
1,1,1,2-Tetrachloroethane	0.832	5.4	ug/kg	1.00		U
1,1,1-Trichloroethane	1.17	5.4	ug/kg	1.00		U
1,1,2,2-Tetrachloroethane	0.950	5.4	ug/kg	1.00		U
1,1-Dichloroethene	1.12	5.4	ug/kg	1.00		U
1,2-Dichloroethane	1.29	5.4	ug/kg	1.00		U
1,4-Dioxane (P-Dioxane)		54	ug/kg	1.00		U
2-Butanone	3.64	11	ug/kg	1.00		U
2-Hexanone	3.59	110	ug/kg	1.00		U
4-Methyl-2-Pentanone	2.13	11	ug/kg	1.00		U
Acetone	17.7	21	ug/kg	1.00	21	BBBBB
Benzene	0.756	5.4	ug/kg	1.00		U
Carbon Disulfide	0.869	11	ug/kg	1.00		U
Chlorobenzene	0.810	5.4	ug/kg	1.00		U
Chloroethane	1.17	5.4	ug/kg	1.00		U
Chloromethane	1.2	5.4	ug/kg	1.00		U
cis-1,2-Dichloroethene	1.2	5.4	ug/kg	1.00		U
Ethylbenzene	0.734	5.4	ug/kg	1.00		U
Hexachlorobutadiene	1.23	5.4	ug/kg	1.00		U
Methylene Chloride	1.05	5.4	ug/kg	1.00	2.9	JBBBBB
O-Xylene (1,2-Dimethylbenzene)	0.691	5.4	ug/kg	1.00		U
Styrene	0.842	5.4	ug/kg	1.00		U
Tetrachloroethene	0.767	5.4	ug/kg	1.00		U
Toluene	0.454	5.4	ug/kg	1.00		U
trans-1,2-Dichloroethene	1.21	5.4	ug/kg	1.00		U
Trichloroethene	1.23	5.4	ug/kg	1.00		U
Vinyl Chloride	1.49	5.4	ug/kg	1.00		U
Xylene (Total)	2.02	5.4	ug/kg	1.00		U

U - The analyte was analyzed for, but not detected above MDL.

J - The analyte was positively identified below the PQL.

B - The analyte was found in an associated method blank, as well as in the sample.

Pace Sample No.:	603556747	**Date Collected:**	06/09/00
Client Sample ID:	EX8 BASE	**Date Received:**	06/09/00
Client Name:	Deffenbaugh Industries	**Date Ext./Dig. :**	
Analytical Method:	EPA 8260	**Date Analyzed:**	06/24/00
Matrix:	Soil	**Batch Number:**	84931
Percent Moisture:	21.9	**Pace Project No.:**	6041974

Compound	MDL	PQL	Units	Dilution	Results	Qualifier
1,1,1,2-Tetrachloroethane	0.986	6.4	ug/kg	1.00		U
1,1,1-Trichloroethane	1.38	6.4	ug/kg	1.00		U
1,1,2,2-Tetrachloroethane	1.13	6.4	ug/kg	1.00		U
1,1-Dichloroethene	1.33	6.4	ug/kg	1.00		U
1,2-Dichloroethane	1.52	6.4	ug/kg	1.00		U
1,4-Dioxane (P-Dioxane)		64	ug/kg	1.00		U
2-Butanone	4.3	13	ug/kg	1.00	37	
2-Hexanone	4.24	130	ug/kg	1.00		U
4-Methyl-2-Pentanone	2.52	13	ug/kg	1.00		U
Acetone	21.9	26	ug/kg	1.00	420	BBBBB
Benzene	0.896	6.4	ug/kg	1.00		U
Carbon Disulfide	1.03	13	ug/kg	1.00		U
Chlorobenzene	0.960	6.4	ug/kg	1.00		U
Chloroethane	1.38	6.4	ug/kg	1.00		U
Chloromethane	1.42	6.4	ug/kg	1.00		U
cis-1,2-Dichloroethene	1.42	6.4	ug/kg	1.00		U
Ethylbenzene	0.870	6.4	ug/kg	1.00		U
Hexachlorobutadiene	1.46	6.4	ug/kg	1.00		U
Methylene Chloride	1.24	6.4	ug/kg	1.00	4.1	JBBBBB
O-Xylene (1,2-Dimethylbenzene)	0.819	6.4	ug/kg	1.00		U
Styrene	0.998	6.4	ug/kg	1.00		U
Tetrachloroethene	0.909	6.4	ug/kg	1.00		U
Toluene	0.538	6.4	ug/kg	1.00		U
trans-1,2-Dichloroethene	1.43	6.4	ug/kg	1.00		U
Trichloroethene	1.46	6.4	ug/kg	1.00		U
Vinyl Chloride	1.77	6.4	ug/kg	1.00		U
Xylene (Total)	2.39	6.4	ug/kg	1.00		U

U - The analyte was analyzed for, but not detected above MDL.

J - The analyte was positively identified below the PQL.

B - The analyte was found in an associated method blank, as well as in the sample.

Pace Sample No.:	603556754	**Date Collected:**	06/09/00
Client Sample ID:	EX8 MIDDLE	**Date Received:**	06/09/00
Client Name:	Deffenbaugh Industries	**Date Ext./Dig. :**	
Analytical Method:	EPA 8260	**Date Analyzed:**	06/24/00
Matrix:	Soil	**Batch Number:**	84931
Percent Moisture:	19.6	**Pace Project No.:**	6041974

Compound	MDL	PQL	Units	Dilution	Results	Qualifier
1,1,1,2-Tetrachloroethane	0.955	6.2	ug/kg	1.00		U
1,1,1-Trichloroethane	1.34	6.2	ug/kg	1.00		U
1,1,2,2-Tetrachloroethane	1.09	6.2	ug/kg	1.00		U
1,1-Dichloroethene	1.29	6.2	ug/kg	1.00		U
1,2-Dichloroethane	1.48	6.2	ug/kg	1.00		U
1,4-Dioxane (P-Dioxane)		62	ug/kg	1.00		U
2-Butanone	3.97	12	ug/kg	1.00	44	
2-Hexanone	3.91	120	ug/kg	1.00		U
4-Methyl-2-Pentanone	2.33	12	ug/kg	1.00		U
Acetone	21.1	25	ug/kg	1.00	320	BBBBB
Benzene	0.868	6.2	ug/kg	1.00	12	
Carbon Disulfide	0.948	12	ug/kg	1.00		U
Chlorobenzene	0.930	6.2	ug/kg	1.00		U
Chloroethane	1.34	6.2	ug/kg	1.00		U
Chloromethane	1.38	6.2	ug/kg	1.00		U
cis-1,2-Dichloroethene	1.38	6.2	ug/kg	1.00		U
Ethylbenzene	0.843	6.2	ug/kg	1.00	5.3	J
Hexachlorobutadiene	1.41	6.2	ug/kg	1.00		U
Methylene Chloride	1.2	6.2	ug/kg	1.00	4.1	JBBBBB
O-Xylene (1,2-Dimethylbenzene)	0.794	6.2	ug/kg	1.00	10	
Styrene	0.967	6.2	ug/kg	1.00		U
Tetrachloroethene	0.880	6.2	ug/kg	1.00		U
Toluene	0.521	6.2	ug/kg	1.00	1.6	J
trans-1,2-Dichloroethene	1.39	6.2	ug/kg	1.00		U
Trichloroethene	1.41	6.2	ug/kg	1.00		U
Vinyl Chloride	1.71	6.2	ug/kg	1.00		U
Xylene (Total)	2.32	6.2	ug/kg	1.00	24	

U - The analyte was analyzed for, but not detected above MDL.

J - The analyte was positively identified below the PQL.

B - The analyte was found in an associated method blank, as well as in the sample.

Pace Sample No.:	603556804	**Date Collected:**	06/09/00
Client Sample ID:	EX9	**Date Received:**	06/09/00
Client Name:	Deffenbaugh Industries	**Date Ext./Dig. :**	
Analytical Method:	EPA 8260	**Date Analyzed:**	06/24/00
Matrix:	Soil	**Batch Number:**	84931
Percent Moisture:	18.6	**Pace Project No.:**	6041974

Compound	MDL	PQL	Units	Dilution	Results	Qualifier
1,1,1,2-Tetrachloroethane	0.939	6.1	ug/kg	1.00		U
1,1,1-Trichloroethane	1.32	6.1	ug/kg	1.00		U
1,1,2,2-Tetrachloroethane	1.07	6.1	ug/kg	1.00		U
1,1-Dichloroethene	1.27	6.1	ug/kg	1.00		U
1,2-Dichloroethane	1.45	6.1	ug/kg	1.00		U
1,4-Dioxane (P-Dioxane)		61	ug/kg	1.00		U
2-Butanone	3.97	12	ug/kg	1.00		U
2-Hexanone	3.91	120	ug/kg	1.00		U
4-Methyl-2-Pentanone	2.33	12	ug/kg	1.00		U
Acetone	21.1	25	ug/kg	1.00	34	BBBBB
Benzene	0.854	6.1	ug/kg	1.00		U
Carbon Disulfide	0.948	12	ug/kg	1.00		U
Chlorobenzene	0.915	6.1	ug/kg	1.00		U
Chloroethane	1.32	6.1	ug/kg	1.00		U
Chloromethane	1.35	6.1	ug/kg	1.00		U
cis-1,2-Dichloroethene	1.35	6.1	ug/kg	1.00		U
Ethylbenzene	0.830	6.1	ug/kg	1.00	82	
Hexachlorobutadiene	1.39	6.1	ug/kg	1.00		U
Methylene Chloride	1.18	6.1	ug/kg	1.00	7.7	BBBBB
O-Xylene (1,2-Dimethylbenzene)	0.781	6.1	ug/kg	1.00	180	
Styrene	0.952	6.1	ug/kg	1.00		U
Tetrachloroethene	0.866	6.1	ug/kg	1.00		U
Toluene	0.512	6.1	ug/kg	1.00	38	
trans-1,2-Dichloroethene	1.37	6.1	ug/kg	1.00		U
Trichloroethene	1.39	6.1	ug/kg	1.00	11	
Vinyl Chloride	1.68	6.1	ug/kg	1.00		U
Xylene (Total)	2.28	6.1	ug/kg	1.00	440	

U - The analyte was analyzed for, but not detected above MDL.

J - The analyte was positively identified below the PQL.

B - The analyte was found in an associated method blank, as well as in the sample.

Pace Sample No.:	603556820	**Date Collected:**	06/09/00
Client Sample ID:	EX10	**Date Received:**	06/09/00
Client Name:	Deffenbaugh Industries	**Date Ext./Dig. :**	
Analytical Method:	EPA 8260	**Date Analyzed:**	06/24/00
Matrix:	Soil	**Batch Number:**	84931
Percent Moisture:	21.9	**Pace Project No.:**	6041974

Compound	MDL	PQL	Units	Dilution	Results	Qualifier
1,1,1,2-Tetrachloroethane	0.986	6.4	ug/kg	1.00		U
1,1,1-Trichloroethane	1.38	6.4	ug/kg	1.00		U
1,1,2,2-Tetrachloroethane	1.13	6.4	ug/kg	1.00		U
1,1-Dichloroethene	1.33	6.4	ug/kg	1.00		U
1,2-Dichloroethane	1.52	6.4	ug/kg	1.00		U
1,4-Dioxane (P-Dioxane)		64	ug/kg	1.00		U
2-Butanone	4.3	13	ug/kg	1.00		U
2-Hexanone	4.24	130	ug/kg	1.00		U
4-Methyl-2-Pentanone	2.52	13	ug/kg	1.00		U
Acetone	21.9	26	ug/kg	1.00	51	BBBBB
Benzene	0.896	6.4	ug/kg	1.00	190	
Carbon Disulfide	1.03	13	ug/kg	1.00		U
Chlorobenzene	0.960	6.4	ug/kg	1.00		U
Chloroethane	1.38	6.4	ug/kg	1.00		U
Chloromethane	1.42	6.4	ug/kg	1.00		U
cis-1,2-Dichloroethene	1.42	6.4	ug/kg	1.00		U
Ethylbenzene	0.870	6.4	ug/kg	1.00	930	E
Hexachlorobutadiene	1.46	6.4	ug/kg	1.00		U
Methylene Chloride	1.24	6.4	ug/kg	1.00	4.5	JBBBBB
O-Xylene (1,2-Dimethylbenzene)	0.819	6.4	ug/kg	1.00	2000	E
Styrene	0.998	6.4	ug/kg	1.00		U
Tetrachloroethene	0.909	6.4	ug/kg	1.00		U
Toluene	0.538	6.4	ug/kg	1.00	370	E
trans-1,2-Dichloroethene	1.43	6.4	ug/kg	1.00		U
Trichloroethene	1.46	6.4	ug/kg	1.00		U
Vinyl Chloride	1.77	6.4	ug/kg	1.00		U
Xylene (Total)	2.39	6.4	ug/kg	1.00	3900	E

U - The analyte was analyzed for, but not detected above MDL.

J - The analyte was positively identified below the PQL.

B - The analyte was found in an associated method blank, as well as in the sample.

Pace Sample No.:	603556838	**Date Collected:**	06/09/00
Client Sample ID:	EX12 SURFACE	**Date Received:**	06/09/00
Client Name:	Deffenbaugh Industries	**Date Ext./Dig. :**	
Analytical Method:	EPA 8260	**Date Analyzed:**	06/24/00
Matrix:	Soil	**Batch Number:**	84931
Percent Moisture:	1.7	**Pace Project No.:**	6041974

Compound	MDL	PQL	Units	Dilution	Results	Qualifier
1,1,1,2-Tetrachloroethane	0.785	5.1	ug/kg	1.00		U
1,1,1-Trichloroethane	1.1	5.1	ug/kg	1.00		U
1,1,2,2-Tetrachloroethane	0.898	5.1	ug/kg	1.00		U
1,1-Dichloroethene	1.06	5.1	ug/kg	1.00		U
1,2-Dichloroethane	1.21	5.1	ug/kg	1.00		U
1,4-Dioxane (P-Dioxane)		51	ug/kg	1.00		U
2-Butanone	3.31	10	ug/kg	1.00		U
2-Hexanone	3.26	100	ug/kg	1.00		U
4-Methyl-2-Pentanone	1.94	10	ug/kg	1.00		U
Acetone	16.9	20	ug/kg	1.00		U
Benzene	0.714	5.1	ug/kg	1.00		U
Carbon Disulfide	0.790	10	ug/kg	1.00		U
Chlorobenzene	0.765	5.1	ug/kg	1.00		U
Chloroethane	1.1	5.1	ug/kg	1.00		U
Chloromethane	1.13	5.1	ug/kg	1.00		U
cis-1,2-Dichloroethene	1.13	5.1	ug/kg	1.00		U
Ethylbenzene	0.694	5.1	ug/kg	1.00		U
Hexachlorobutadiene	1.16	5.1	ug/kg	1.00		U
Methylene Chloride	0.989	5.1	ug/kg	1.00	2.8	JBBBBB
O-Xylene (1,2-Dimethylbenzene)	0.653	5.1	ug/kg	1.00		U
Styrene	0.796	5.1	ug/kg	1.00		U
Tetrachloroethene	0.724	5.1	ug/kg	1.00		U
Toluene	0.428	5.1	ug/kg	1.00		U
trans-1,2-Dichloroethene	1.14	5.1	ug/kg	1.00		U
Trichloroethene	1.16	5.1	ug/kg	1.00		U
Vinyl Chloride	1.41	5.1	ug/kg	1.00		U
Xylene (Total)	1.91	5.1	ug/kg	1.00		U

U - The analyte was analyzed for, but not detected above MDL.

J - The analyte was positively identified below the PQL.

B - The analyte was found in an associated method blank, as well as in the sample.

Pace Sample No.:	603556846	**Date Collected:**	06/09/00
Client Sample ID:	EX13 SURFACE	**Date Received:**	06/09/00
Client Name:	Deffenbaugh Industries	**Date Ext./Dig. :**	
Analytical Method:	EPA 8260	**Date Analyzed:**	06/29/00
Matrix:	Soil	**Batch Number:**	84931
Percent Moisture:	3	**Pace Project No.:**	6041974

Compound	MDL	PQL	Units	Dilution	Results	Qualifier
1,1,1,2-Tetrachloroethane	0.801	5.2	ug/kg	1.00		U
1,1,1-Trichloroethane	1.12	5.2	ug/kg	1.00		U
1,1,2,2-Tetrachloroethane	0.915	5.2	ug/kg	1.00		U
1,1-Dichloroethene	1.08	5.2	ug/kg	1.00		U
1,2-Dichloroethane	1.24	5.2	ug/kg	1.00		U
1,4-Dioxane (P-Dioxane)		52	ug/kg	1.00		U
2-Butanone	3.31	10	ug/kg	1.00		U
2-Hexanone	3.26	100	ug/kg	1.00		U
4-Methyl-2-Pentanone	1.94	10	ug/kg	1.00		U
Acetone	17.7	21	ug/kg	1.00	57	BBBBB
Benzene	0.728	5.2	ug/kg	1.00		U
Carbon Disulfide	0.790	10	ug/kg	1.00		U
Chlorobenzene	0.780	5.2	ug/kg	1.00		U
Chloroethane	1.12	5.2	ug/kg	1.00		U
Chloromethane	1.15	5.2	ug/kg	1.00		U
cis-1,2-Dichloroethene	1.15	5.2	ug/kg	1.00		U
Ethylbenzene	0.707	5.2	ug/kg	1.00		U
Hexachlorobutadiene	1.19	5.2	ug/kg	1.00		U
Methylene Chloride	1.01	5.2	ug/kg	1.00	17	BBBBB
O-Xylene (1,2-Dimethylbenzene)	0.666	5.2	ug/kg	1.00		U
Styrene	0.811	5.2	ug/kg	1.00		U
Tetrachloroethene	0.738	5.2	ug/kg	1.00		U
Toluene	0.437	5.2	ug/kg	1.00		U
trans-1,2-Dichloroethene	1.16	5.2	ug/kg	1.00		U
Trichloroethene	1.19	5.2	ug/kg	1.00		U
Vinyl Chloride	1.44	5.2	ug/kg	1.00		U
Xylene (Total)	1.94	5.2	ug/kg	1.00		U

U - The analyte was analyzed for, but not detected above MDL.

J - The analyte was positively identified below the PQL.

B - The analyte was found in an associated method blank, as well as in the sample.

Pace Sample No.:	603556861	**Date Collected:**	06/09/00
Client Sample ID:	EX13 BASE	**Date Received:**	06/09/00
Client Name:	Deffenbaugh Industries	**Date Ext./Dig. :**	
Analytical Method:	EPA 8260	**Date Analyzed:**	06/24/00
Matrix:	Soil	**Batch Number:**	84931
Percent Moisture:	22.2	**Pace Project No.:**	6041974

Compound	MDL	PQL	Units	Dilution	Results	Qualifier
1,1,1,2-Tetrachloroethane	0.986	6.4	ug/kg	1.00		U
1,1,1-Trichloroethane	1.38	6.4	ug/kg	1.00		U
1,1,2,2-Tetrachloroethane	1.13	6.4	ug/kg	1.00		U
1,1-Dichloroethene	1.33	6.4	ug/kg	1.00		U
1,2-Dichloroethane	1.52	6.4	ug/kg	1.00		U
1,4-Dioxane (P-Dioxane)		64	ug/kg	1.00		U
2-Butanone	4.3	13	ug/kg	1.00	15	
2-Hexanone	4.24	130	ug/kg	1.00		U
4-Methyl-2-Pentanone	2.52	13	ug/kg	1.00		U
Acetone	21.9	26	ug/kg	1.00	370	BBBBB
Benzene	0.896	6.4	ug/kg	1.00	10	
Carbon Disulfide	1.03	13	ug/kg	1.00		U
Chlorobenzene	0.960	6.4	ug/kg	1.00		U
Chloroethane	1.38	6.4	ug/kg	1.00		U
Chloromethane	1.42	6.4	ug/kg	1.00		U
cis-1,2-Dichloroethene	1.42	6.4	ug/kg	1.00		U
Ethylbenzene	4.35	32	ug/kg	5.00	370	
Hexachlorobutadiene	1.46	6.4	ug/kg	1.00		U
Methylene Chloride	1.24	6.4	ug/kg	1.00	4.3	JBBBBB
O-Xylene (1,2-Dimethylbenzene)	4.1	32	ug/kg	5.00	310	
Styrene	0.998	6.4	ug/kg	1.00		U
Tetrachloroethene	0.909	6.4	ug/kg	1.00		U
Toluene	0.538	6.4	ug/kg	1.00	23	
trans-1,2-Dichloroethene	1.43	6.4	ug/kg	1.00		U
Trichloroethene	1.46	6.4	ug/kg	1.00		U
Vinyl Chloride	1.77	6.4	ug/kg	1.00		U
Xylene (Total)	12.0	32	ug/kg	5.00	2400	

U - The analyte was analyzed for, but not detected above MDL.

J - The analyte was positively identified below the PQL.

B - The analyte was found in an associated method blank, as well as in the sample.

Pace Sample No.:	603556606	**Date Collected:**	06/09/00
Client Sample ID:	EX13 MIDDLE	**Date Received:**	06/09/00
Client Name:	Deffenbaugh Industries	**Date Ext./Dig. :**	
Analytical Method:	EPA 8260	**Date Analyzed:**	06/23/00
Matrix:	Soil	**Batch Number:**	84931
Percent Moisture:	19.4	**Pace Project No.:**	6041974

Compound	MDL	PQL	Units	Dilution	Results	Qualifier
1,1,1,2-Tetrachloroethane	0.955	6.2	ug/kg	1.00		U
1,1,1-Trichloroethane	1.34	6.2	ug/kg	1.00		U
1,1,2,2-Tetrachloroethane	1.09	6.2	ug/kg	1.00		U
1,1-Dichloroethene	1.29	6.2	ug/kg	1.00		U
1,2-Dichloroethane	1.48	6.2	ug/kg	1.00		U
1,4-Dioxane (P-Dioxane)		62	ug/kg	1.00		U
2-Butanone	3.97	12	ug/kg	1.00		U
2-Hexanone	3.91	120	ug/kg	1.00		U
4-Methyl-2-Pentanone	2.33	12	ug/kg	1.00		U
Acetone	21.1	25	ug/kg	1.00	270	BBBBB
Benzene	0.868	6.2	ug/kg	1.00	170	
Carbon Disulfide	0.948	12	ug/kg	1.00		U
Chlorobenzene	0.930	6.2	ug/kg	1.00		U
Chloroethane	1.34	6.2	ug/kg	1.00		U
Chloromethane	1.38	6.2	ug/kg	1.00		U
cis-1,2-Dichloroethene	1.38	6.2	ug/kg	1.00		U
Ethylbenzene	4.22	31	ug/kg	5.00	270	
Hexachlorobutadiene	1.41	6.2	ug/kg	1.00		U
Methylene Chloride	1.2	6.2	ug/kg	1.00		U
O-Xylene (1,2-Dimethylbenzene)	3.97	31	ug/kg	5.00	2400	
Styrene	0.967	6.2	ug/kg	1.00		U
Tetrachloroethene	0.880	6.2	ug/kg	1.00		U
Toluene	2.6	31	ug/kg	5.00	740	
trans-1,2-Dichloroethene	1.39	6.2	ug/kg	1.00		U
Trichloroethene	1.41	6.2	ug/kg	1.00		U
Vinyl Chloride	1.71	6.2	ug/kg	1.00		U
Xylene (Total)	11.6	31	ug/kg	5.00	7000	

U - The analyte was analyzed for, but not detected above MDL.

J - The analyte was positively identified below the PQL.

B - The analyte was found in an associated method blank, as well as in the sample.

Pace Sample No.:	603556614	**Date Collected:**	06/09/00
Client Sample ID:	EX14 BASE	**Date Received:**	06/09/00
Client Name:	Deffenbaugh Industries	**Date Ext./Dig. :**	
Analytical Method:	EPA 8260	**Date Analyzed:**	06/23/00
Matrix:	Soil	**Batch Number:**	84931
Percent Moisture:	20.8	**Pace Project No.:**	6041974

Compound	MDL	PQL	Units	Dilution	Results	Qualifier
1,1,1,2-Tetrachloroethane	0.970	6.3	ug/kg	1.00		U
1,1,1-Trichloroethane	1.36	6.3	ug/kg	1.00		U
1,1,2,2-Tetrachloroethane	1.11	6.3	ug/kg	1.00		U
1,1-Dichloroethene	1.31	6.3	ug/kg	1.00		U
1,2-Dichloroethane	1.5	6.3	ug/kg	1.00		U
1,4-Dioxane (P-Dioxane)		63	ug/kg	1.00		U
2-Butanone	4.3	13	ug/kg	1.00	30	
2-Hexanone	4.24	130	ug/kg	1.00		U
4-Methyl-2-Pentanone	2.52	13	ug/kg	1.00		U
Acetone	21.1	25	ug/kg	1.00	470	BBBBB
Benzene	0.882	6.3	ug/kg	1.00	15	
Carbon Disulfide	1.03	13	ug/kg	1.00		U
Chlorobenzene	0.945	6.3	ug/kg	1.00		U
Chloroethane	1.36	6.3	ug/kg	1.00		U
Chloromethane	1.4	6.3	ug/kg	1.00		U
cis-1,2-Dichloroethene	1.4	6.3	ug/kg	1.00		U
Ethylbenzene	0.857	6.3	ug/kg	1.00	100	
Hexachlorobutadiene	1.44	6.3	ug/kg	1.00		U
Methylene Chloride	1.22	6.3	ug/kg	1.00		U
O-Xylene (1,2-Dimethylbenzene)	0.806	6.3	ug/kg	1.00	40	
Styrene	0.983	6.3	ug/kg	1.00		U
Tetrachloroethene	0.895	6.3	ug/kg	1.00		U
Toluene	0.529	6.3	ug/kg	1.00	11	
trans-1,2-Dichloroethene	1.41	6.3	ug/kg	1.00		U
Trichloroethene	1.44	6.3	ug/kg	1.00		U
Vinyl Chloride	1.74	6.3	ug/kg	1.00		U
Xylene (Total)	2.36	6.3	ug/kg	1.00	120	

U - The analyte was analyzed for, but not detected above MDL.

J - The analyte was positively identified below the PQL.

B - The analyte was found in an associated method blank, as well as in the sample.

Pace Sample No.:	603556622	**Date Collected:**	06/09/00
Client Sample ID:	EX14 SURFACE	**Date Received:**	06/09/00
Client Name:	Deffenbaugh Industries	**Date Ext./Dig. :**	
Analytical Method:	EPA 8260	**Date Analyzed:**	06/30/00
Matrix:	Soil	**Batch Number:**	84931
Percent Moisture:	1	**Pace Project No.:**	6041974

Compound	MDL	PQL	Units	Dilution	Results	Qualifier
1,1,1,2-Tetrachloroethane	0.770	5	ug/kg	1.00		U
1,1,1-Trichloroethane	1.08	5	ug/kg	1.00		U
1,1,2,2-Tetrachloroethane	0.880	5	ug/kg	1.00		U
1,1-Dichloroethene	1.04	5	ug/kg	1.00		U
1,2-Dichloroethane	1.19	5	ug/kg	1.00		U
1,4-Dioxane (P-Dioxane)		50	ug/kg	1.00		U
2-Butanone	3.31	10	ug/kg	1.00		U
2-Hexanone	3.26	100	ug/kg	1.00		U
4-Methyl-2-Pentanone	1.94	10	ug/kg	1.00		U
Acetone	16.9	20	ug/kg	1.00	120	BBBBB
Benzene	0.700	5	ug/kg	1.00		U
Carbon Disulfide	0.790	10	ug/kg	1.00		U
Chlorobenzene	0.750	5	ug/kg	1.00		U
Chloroethane	1.08	5	ug/kg	1.00		U
Chloromethane	1.11	5	ug/kg	1.00		U
cis-1,2-Dichloroethene	1.11	5	ug/kg	1.00		U
Ethylbenzene	0.680	5	ug/kg	1.00		U
Hexachlorobutadiene	1.14	5	ug/kg	1.00		U
Methylene Chloride	0.970	5	ug/kg	1.00	150	BBBBB
O-Xylene (1,2-Dimethylbenzene)	0.640	5	ug/kg	1.00	6.8	
Styrene	0.780	5	ug/kg	1.00		U
Tetrachloroethene	0.710	5	ug/kg	1.00		U
Toluene	0.420	5	ug/kg	1.00		U
trans-1,2-Dichloroethene	1.12	5	ug/kg	1.00		U
Trichloroethene	1.14	5	ug/kg	1.00		U
Vinyl Chloride	1.38	5	ug/kg	1.00		U
Xylene (Total)	1.87	5	ug/kg	1.00	20	

U - The analyte was analyzed for, but not detected above MDL.

J - The analyte was positively identified below the PQL.

B - The analyte was found in an associated method blank, as well as in the sample.

Pace Sample No.:	603556655	**Date Collected:**	06/09/00
Client Sample ID:	DUP	**Date Received:**	06/09/00
Client Name:	Deffenbaugh Industries	**Date Ext./Dig. :**	
Analytical Method:	EPA 8260	**Date Analyzed:**	06/24/00
Matrix:	Soil	**Batch Number:**	84931
Percent Moisture:	21	**Pace Project No.:**	6041974

Compound	MDL	PQL	Units	Dilution	Results	Qualifier
1,1,1,2-Tetrachloroethane	0.970	6.3	ug/kg	1.00		U
1,1,1-Trichloroethane	1.36	6.3	ug/kg	1.00		U
1,1,2,2-Tetrachloroethane	1.11	6.3	ug/kg	1.00		U
1,1-Dichloroethene	1.31	6.3	ug/kg	1.00		U
1,2-Dichloroethane	1.5	6.3	ug/kg	1.00		U
1,4-Dioxane (P-Dioxane)		63	ug/kg	1.00		U
2-Butanone	4.3	13	ug/kg	1.00		U
2-Hexanone	4.24	130	ug/kg	1.00		U
4-Methyl-2-Pentanone	2.52	13	ug/kg	1.00		U
Acetone	21.1	25	ug/kg	1.00	32	BBBBB
Benzene	0.882	6.3	ug/kg	1.00	6.9	
Carbon Disulfide	1.03	13	ug/kg	1.00		U
Chlorobenzene	0.945	6.3	ug/kg	1.00		U
Chloroethane	1.36	6.3	ug/kg	1.00		U
Chloromethane	1.4	6.3	ug/kg	1.00		U
cis-1,2-Dichloroethene	1.4	6.3	ug/kg	1.00		U
Ethylbenzene	0.857	6.3	ug/kg	1.00		U
Hexachlorobutadiene	1.44	6.3	ug/kg	1.00		U
Methylene Chloride	1.22	6.3	ug/kg	1.00	4.2	JBBBBB
O-Xylene (1,2-Dimethylbenzene)	0.806	6.3	ug/kg	1.00	43	
Styrene	0.983	6.3	ug/kg	1.00		U
Tetrachloroethene	0.895	6.3	ug/kg	1.00		U
Toluene	0.529	6.3	ug/kg	1.00		U
trans-1,2-Dichloroethene	1.41	6.3	ug/kg	1.00		U
Trichloroethene	1.44	6.3	ug/kg	1.00		U
Vinyl Chloride	1.74	6.3	ug/kg	1.00		U
Xylene (Total)	2.36	6.3	ug/kg	1.00	61	

U - The analyte was analyzed for, but not detected above MDL.

J - The analyte was positively identified below the PQL.

B - The analyte was found in an associated method blank, as well as in the sample.

Method Blanks

Forms

QC Sample Association Summary

EPA 8260

Blank

QC Sample #: 603560632 **Matrix:** Soil

PASI Project #: 6041974 **Batch #:** 84931

Sample Description	PASI Sample Number
DUP	603556655
EX13 MIDDLE	603556606
EX14 BASE	603556614
EX8 BASE	603556747

QC Sample Results

BLANK

PASI QC Sample #: 603560632 **Method:** EPA 8260

Analyte	Units	PQL	Result
1,1,1,2-Tetrachloroethane	ug/kg	5	ND
1,1,1-Trichloroethane	ug/kg	5	ND
1,1-Dichloroethene	ug/kg	5	ND
1,2-Dichloroethane	ug/kg	5	ND
1,4-Dioxane (P-Dioxane)	ug/kg	50	ND
2-Butanone	ug/kg	10	ND
2-Hexanone	ug/kg	100	ND
4-Methyl-2-Pentanone	ug/kg	10	ND
Acetone	ug/kg	20	9.6
Benzene	ug/kg	5	ND
Carbon Disulfide	ug/kg	10	ND
Chlorobenzene	ug/kg	5	ND
Chloroethane	ug/kg	5	ND
Chloromethane	ug/kg	5	ND
cis-1,2-Dichloroethene	ug/kg	5	ND
Ethylbenzene	ug/kg	5	ND
Methylene Chloride	ug/kg	5	1.6
O-Xylene (1,2-Dimethylbenzene)	ug/kg	5	ND
Styrene	ug/kg	5	ND
Toluene	ug/kg	5	ND
trans-1,2-Dichloroethene	ug/kg	5	ND
Trichloroethene	ug/kg	5	ND
Vinyl Chloride	ug/kg	5	ND
Xylene (Total)	ug/kg	5	ND

QC Sample Results

BLANK

PASI QC Sample #: 603560632 **Method:** EPA 8260

Analyte	Units	PQL	Result
1,1,1,2-Tetrachloroethane	ug/kg	5	ND
1,1,1-Trichloroethane	ug/kg	5	ND
1,1,2,2-Tetrachloroethane	ug/kg	5	ND
1,1-Dichloroethene	ug/kg	5	ND
1,2-Dichloroethane	ug/kg	5	ND
1,4-Dioxane (P-Dioxane)	ug/kg	50	ND
2-Butanone	ug/kg	10	ND
2-Hexanone	ug/kg	100	ND
4-Methyl-2-Pentanone	ug/kg	10	ND
Acetone	ug/kg	20	9.6
Benzene	ug/kg	5	ND
Carbon Disulfide	ug/kg	10	ND
Chlorobenzene	ug/kg	5	ND
Chloroethane	ug/kg	5	ND
Chloromethane	ug/kg	5	ND
cis-1,2-Dichloroethene	ug/kg	5	ND
Ethylbenzene	ug/kg	5	ND
Hexachlorobutadiene	ug/kg	5	ND
Methylene Chloride	ug/kg	5	1.6
O-Xylene (1,2-Dimethylbenzene)	ug/kg	5	ND
Styrene	ug/kg	5	ND
Tetrachloroethene	ug/kg	5	ND
Toluene	ug/kg	5	ND
trans-1,2-Dichloroethene	ug/kg	5	ND
Trichloroethene	ug/kg	5	ND
Vinyl Chloride	ug/kg	5	ND
Xylene (Total)	ug/kg	5	ND

QC Sample Association Summary

EPA 8260

Blank

QC Sample #: 603604919 **Matrix:** Soil

PASI Project #: 6041974 **Batch #:** 84931

Sample Description	PASI Sample Number
EX10	603556820
EX12 SURFACE	603556838
EX13 BASE	603556861
EX8 MIDDLE	603556754
EX9	603556804

QC Sample Results

BLANK

PASI QC Sample #: 603604919 **Method:** EPA 8260

Analyte	Units	PQL	Result
1,1,1,2-Tetrachloroethane	ug/kg	5	ND
1,1,1-Trichloroethane	ug/kg	5	ND
1,1,2,2-Tetrachloroethane	ug/kg	5	ND
1,1-Dichloroethene	ug/kg	5	ND
1,2-Dichloroethane	ug/kg	5	ND
1,4-Dioxane (P-Dioxane)	ug/kg	50	ND
2-Butanone	ug/kg	10	ND
2-Hexanone	ug/kg	100	ND
4-Methyl-2-Pentanone	ug/kg	10	ND
Acetone	ug/kg	20	15
Benzene	ug/kg	5	ND
Carbon Disulfide	ug/kg	10	ND
Chlorobenzene	ug/kg	5	ND
Chloroethane	ug/kg	5	ND
Chloromethane	ug/kg	5	ND
cis-1,2-Dichloroethene	ug/kg	5	ND
Ethylbenzene	ug/kg	5	ND
Hexachlorobutadiene	ug/kg	5	ND
Methylene Chloride	ug/kg	5	2.0
O-Xylene (1,2-Dimethylbenzene)	ug/kg	5	ND
Styrene	ug/kg	5	ND
Tetrachloroethene	ug/kg	5	ND
Toluene	ug/kg	5	ND
trans-1,2-Dichloroethene	ug/kg	5	ND
Trichloroethene	ug/kg	5	ND
Vinyl Chloride	ug/kg	5	ND
Xylene (Total)	ug/kg	5	ND

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PASI Project #: 6041974

QC Sample Association Summary

EPA 8260

Blank

QC Sample #: 603683848 **Matrix:** Soil

PASI Project #: 6041974 **Batch #:** 84931

Sample Description	PASI Sample Number
EX2	603556697
EX3	603556705
EX5	603556713
EX6 SURFACE	603556721
EX8 SURFACE	603556739

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QC Sample Results

BLANK

PASI QC Sample #: 603683848 **Method:** EPA 8260

Analyte	Units	PQL	Result
1,1,1,2-Tetrachloroethane	ug/kg	5	ND
1,1,1-Trichloroethane	ug/kg	5	ND
1,1,2,2-Tetrachloroethane	ug/kg	5	ND
1,1-Dichloroethene	ug/kg	5	ND
1,2-Dichloroethane	ug/kg	5	ND
1,4-Dioxane (P-Dioxane)	ug/kg	50	ND
2-Butanone	ug/kg	10	ND
2-Hexanone	ug/kg	100	ND
4-Methyl-2-Pentanone	ug/kg	10	ND
Acetone	ug/kg	20	12
Benzene	ug/kg	5	ND
Carbon Disulfide	ug/kg	10	ND
Chlorobenzene	ug/kg	5	ND
Chloroethane	ug/kg	5	ND
Chloromethane	ug/kg	5	ND
cis-1,2-Dichloroethene	ug/kg	5	ND
Ethylbenzene	ug/kg	5	ND
Hexachlorobutadiene	ug/kg	5	ND
Methylene Chloride	ug/kg	5	3.6
O-Xylene (1,2-Dimethylbenzene)	ug/kg	5	ND
Styrene	ug/kg	5	ND
Tetrachloroethene	ug/kg	5	ND
Toluene	ug/kg	5	ND
trans-1,2-Dichloroethene	ug/kg	5	ND
Trichloroethene	ug/kg	5	ND
Vinyl Chloride	ug/kg	5	ND
Xylene (Total)	ug/kg	5	ND

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PASI Project #: 6041974

QC Sample Association Summary

EPA 8260

Blank

QC Sample #: 603683855 **Matrix:** Soil

PASI Project #: 6041974 **Batch #:** 84931

Sample Description	PASI Sample Number
EX13 SURFACE	603556846

QC Sample Results

BLANK

PASI QC Sample #: 603683855 **Method:** EPA 8260

Analyte	Units	PQL	Result
1,1,1,2-Tetrachloroethane	ug/kg	5	ND
1,1,1-Trichloroethane	ug/kg	5	ND
1,1,2,2-Tetrachloroethane	ug/kg	5	ND
1,1-Dichloroethene	ug/kg	5	ND
1,2-Dichloroethane	ug/kg	5	ND
1,4-Dioxane (P-Dioxane)	ug/kg	50	ND
2-Butanone	ug/kg	10	ND
2-Hexanone	ug/kg	100	ND
4-Methyl-2-Pentanone	ug/kg	10	ND
Acetone	ug/kg	20	18
Benzene	ug/kg	5	ND
Carbon Disulfide	ug/kg	10	ND
Chlorobenzene	ug/kg	5	ND
Chloroethane	ug/kg	5	ND
Chloromethane	ug/kg	5	ND
cis-1,2-Dichloroethene	ug/kg	5	ND
Ethylbenzene	ug/kg	5	ND
Hexachlorobutadiene	ug/kg	5	ND
Methylene Chloride	ug/kg	5	1.7
O-Xylene (1,2-Dimethylbenzene)	ug/kg	5	ND
Styrene	ug/kg	5	ND
Tetrachloroethene	ug/kg	5	ND
Toluene	ug/kg	5	ND
trans-1,2-Dichloroethene	ug/kg	5	ND
Trichloroethene	ug/kg	5	ND
Vinyl Chloride	ug/kg	5	ND
Xylene (Total)	ug/kg	5	ND

QC Sample Association Summary

EPA 8260

Blank

QC Sample #: 603683913 **Matrix:** Soil

PASI Project #: 6041974 **Batch #:** 84931

Sample Description	PASI Sample Number
EX14 SURFACE	603556622

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QC Sample Results

BLANK

PASI QC Sample #: 603683913 **Method:** EPA 8260

Analyte	Units	PQL	Result
1,1,1,2-Tetrachloroethane	ug/kg	5	ND
1,1,1-Trichloroethane	ug/kg	5	ND
1,1,2,2-Tetrachloroethane	ug/kg	5	ND
1,1-Dichloroethene	ug/kg	5	ND
1,2-Dichloroethane	ug/kg	5	ND
1,4-Dioxane (P-Dioxane)	ug/kg	50	ND
2-Butanone	ug/kg	10	ND
2-Hexanone	ug/kg	100	ND
4-Methyl-2-Pentanone	ug/kg	10	ND
Acetone	ug/kg	20	19
Benzene	ug/kg	5	ND
Carbon Disulfide	ug/kg	10	ND
Chlorobenzene	ug/kg	5	ND
Chloroethane	ug/kg	5	ND
Chloromethane	ug/kg	5	ND
cis-1,2-Dichloroethene	ug/kg	5	ND
Ethylbenzene	ug/kg	5	ND
Hexachlorobutadiene	ug/kg	5	ND
Methylene Chloride	ug/kg	5	1.2
O-Xylene (1,2-Dimethylbenzene)	ug/kg	5	ND
Styrene	ug/kg	5	ND
Tetrachloroethene	ug/kg	5	ND
Toluene	ug/kg	5	ND
trans-1,2-Dichloroethene	ug/kg	5	ND
Trichloroethene	ug/kg	5	ND
Vinyl Chloride	ug/kg	5	ND
Xylene (Total)	ug/kg	5	ND

Laboratory Control Samples

Forms

QC Sample Association Summary

EPA 8260

LCS

QC Sample #: 603560640 **Matrix:** Soil

PASI Project #: 6041974 **Batch #:** 84931

Sample Description	PASI Sample Number
DUP	603556655
EX10	603556820
EX12 SURFACE	603556838
EX13 BASE	603556861
EX13 MIDDLE	603556606
EX13 SURFACE	603556846
EX14 BASE	603556614
EX14 SURFACE	603556622
EX2	603556697
EX3	603556705
EX5	603556713
EX6 SURFACE	603556721
EX8 BASE	603556747
EX8 MIDDLE	603556754
EX8 SURFACE	603556739
EX9	603556804

QC Sample Results

LCS

Method: EPA 8260

Analyte	Units	Result	Spike Conc.	% Recovery	Control Limits	Flag
PASI QC Sample #: 603560640						
1,1,1,2-Tetrachloroethane	ug/kg	47.82	50	96	63 - 142	
1,1,1-Trichloroethane	ug/kg	47.38	50	95	67 - 139	
1,1,2,2-Tetrachloroethane	ug/kg	46.98	50	94	48 - 146	
1,1-Dichloroethene	ug/kg	47.29	50	95	54 - 160	
1,2-Dichloroethane	ug/kg	47.81	50	96	67 - 138	
Benzene	ug/kg	47.60	50	95	74 - 130	
Chlorobenzene	ug/kg	47.61	50	95	69 - 134	
Chloroethane	ug/kg	47.15	50	94	41 - 148	
Chloromethane	ug/kg	46.93	50	94	18 - 150	
cis-1,2-Dichloroethene	ug/kg	48.19	50	96	65 - 138	
Ethylbenzene	ug/kg	48.19	50	96	71 - 135	
Hexachlorobutadiene	ug/kg	46.86	50	94	42 - 153	
Methylene Chloride	ug/kg	47.16	50	94	53 - 169	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	47.60	50	95	68 - 138	
Styrene	ug/kg	47.82	50	96	62 - 141	
Tetrachloroethene	ug/kg	46.96	50	94	61 - 146	
Toluene	ug/kg	48.18	50	96	72 - 133	
trans-1,2-Dichloroethene	ug/kg	47.29	50	95	71 - 146	
Trichloroethene	ug/kg	47.37	50	95	64 - 143	
Vinyl Chloride	ug/kg	47.00	50	94	30 - 144	

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PASI Project #: 6041974

Matrix Spike

and

Matrix Spike Duplicate

Forms

QC Sample Results

Matrix Spike/Matrix Spike Duplicate

EPA 8260

Soil

PASI MS Sample #: 603598855

PASI MSD Sample #: 603598863

PASI Orig. Sample #: 603556747 (EX8 BASE)

Analyte	Units	Spike Conc.	Original Sample Amt.	MS Result	MS % Rec.	MSD Result	MSD % Rec.	RPD	Recovery Control Limits	RPD Limit	Rec. Flag	RPD Flag
1,1-Dichloroethene	ug/kg	64.02	0	61.97	96.8	63.84	99.7	3	44 - 168	21		
Benzene	ug/kg	64.02	0	63.06	98.5	63.66	99.4	1	68 - 130	16		
Chlorobenzene	ug/kg	64.02	0	63.37	99	64.75	101	2	64 - 132	15		
Toluene	ug/kg	64.02	0	65.17	102	66.86	104	3	65 - 133	19		
Trichloroethene	ug/kg	64.02	0	57.41	89.7	57.97	90.6	1	63 - 136	24		

Holding Time

ORGANIC ANALYSES DATA SHEET 8
HOLDING TIMES

Analytical Method: EPA 8260

Lab Name: PASI - Kansas City

Contract #: 6041974

Field Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
DUP	06/09/00	06/09/00		NA		06/24/00	14	15	
EX10	06/09/00	06/09/00		NA		06/24/00	14	15	
EX12 SURFACE	06/09/00	06/09/00		NA		06/24/00	14	15	
EX13 BASE	06/09/00	06/09/00		NA		06/24/00	14	15	
EX13 MIDDLE	06/09/00	06/09/00		NA		06/23/00	14	14	
EX13 SURFACE	06/09/00	06/09/00		NA		06/29/00	14	20	
EX14 BASE	06/09/00	06/09/00		NA		06/23/00	14	14	
EX14 SURFACE	06/09/00	06/09/00		NA		06/30/00	14	21	
EX2	06/09/00	06/09/00		NA		06/26/00	14	17	
EX3	06/09/00	06/09/00		NA		06/26/00	14	17	
EX5	06/09/00	06/09/00		NA		06/26/00	14	17	
EX6 SURFACE	06/09/00	06/09/00		NA		06/26/00	14	17	
EX8 BASE	06/09/00	06/09/00		NA		06/24/00	14	15	
EX8 MIDDLE	06/09/00	06/09/00		NA		06/24/00	14	15	
EX8 SURFACE	06/09/00	06/09/00		NA		06/26/00	14	17	
EX9	06/09/00	06/09/00		NA		06/24/00	14	15	

Comments:

Surrogate Summary

Field Sample Surrogate Result Summary

Method: EPA 8260

Analyte	PASI Sample #	% Recovery	Control Limits	Flag
Sample ID: EX13 MIDDLE	603556606			
1,2-Dichloroethane-d4 (S)		102	69 - 129	
4-Bromofluorobenzene (S)		597	59 - 140	*
Dibromofluoromethane (S)		94	76 - 124	
Toluene-d8 (S)		76	76 - 123	
Sample ID: EX14 BASE	603556614			
1,2-Dichloroethane-d4 (S)		101	69 - 129	
4-Bromofluorobenzene (S)		79	59 - 140	
Dibromofluoromethane (S)		100	76 - 124	
Toluene-d8 (S)		88	76 - 123	
Sample ID: EX14 SURFACE	603556622			
1,2-Dichloroethane-d4 (S)		118	69 - 129	
4-Bromofluorobenzene (S)		97	59 - 140	
Dibromofluoromethane (S)		92	76 - 124	
Toluene-d8 (S)		88	76 - 123	
Sample ID: DUP	603556655			
1,2-Dichloroethane-d4 (S)		105	69 - 129	
4-Bromofluorobenzene (S)		72	59 - 140	
Dibromofluoromethane (S)		105	76 - 124	
Toluene-d8 (S)		86	76 - 123	
Sample ID: EX2	603556697			
1,2-Dichloroethane-d4 (S)		105	69 - 129	
4-Bromofluorobenzene (S)		95	59 - 140	
Dibromofluoromethane (S)		84	76 - 124	
Toluene-d8 (S)		95	76 - 123	
Sample ID: EX3	603556705			
1,2-Dichloroethane-d4 (S)		108	69 - 129	
4-Bromofluorobenzene (S)		96	59 - 140	
Dibromofluoromethane (S)		82	76 - 124	
Toluene-d8 (S)		96	76 - 123	
Sample ID: EX5	603556713			
1,2-Dichloroethane-d4 (S)		108	69 - 129	
4-Bromofluorobenzene (S)		92	59 - 140	
Dibromofluoromethane (S)		84	76 - 124	
Toluene-d8 (S)		92	76 - 123	

Field Sample Surrogate Result Summary

Method: EPA 8260

Analyte	PASI Sample #	% Recovery	Control Limits	Flag
Sample ID: EX6 SURFACE	603556721			
1,2-Dichloroethane-d4 (S)		120	69 - 129	
4-Bromofluorobenzene (S)		93	59 - 140	
Dibromofluoromethane (S)		92	76 - 124	
Toluene-d8 (S)		91	76 - 123	
Sample ID: EX8 SURFACE	603556739			
1,2-Dichloroethane-d4 (S)		102	69 - 129	
4-Bromofluorobenzene (S)		99	59 - 140	
Dibromofluoromethane (S)		83	76 - 124	
Toluene-d8 (S)		97	76 - 123	
Sample ID: EX8 BASE	603556747			
1,2-Dichloroethane-d4 (S)		106	69 - 129	
4-Bromofluorobenzene (S)		99	59 - 140	
Dibromofluoromethane (S)		108	76 - 124	
Toluene-d8 (S)		103	76 - 123	
Sample ID: EX8 MIDDLE	603556754			
1,2-Dichloroethane-d4 (S)		97	69 - 129	
4-Bromofluorobenzene (S)		101	59 - 140	
Dibromofluoromethane (S)		101	76 - 124	
Toluene-d8 (S)		101	76 - 123	
Sample ID: EX9	603556804			
1,2-Dichloroethane-d4 (S)		131	69 - 129	*
4-Bromofluorobenzene (S)		95	59 - 140	
Dibromofluoromethane (S)		132	76 - 124	*
Toluene-d8 (S)		75	76 - 123	*
Sample ID: EX10	603556820			
1,2-Dichloroethane-d4 (S)		95	69 - 129	
4-Bromofluorobenzene (S)		76	59 - 140	
Dibromofluoromethane (S)		94	76 - 124	
Toluene-d8 (S)		89	76 - 123	
Sample ID: EX12 SURFACE	603556838			
1,2-Dichloroethane-d4 (S)		103	69 - 129	
4-Bromofluorobenzene (S)		80	59 - 140	
Dibromofluoromethane (S)		103	76 - 124	
Toluene-d8 (S)		80	76 - 123	

Field Sample Surrogate Result Summary

Method: EPA 8260

Analyte	PASI Sample #	% Recovery	Control Limits	Flag
Sample ID: EX13 SURFACE	603556846			
1,2-Dichloroethane-d4 (S)		112	69 - 129	
4-Bromofluorobenzene (S)		95	59 - 140	
Dibromofluoromethane (S)		93	76 - 124	
Toluene-d8 (S)		92	76 - 123	
Sample ID: EX13 BASE	603556861			
1,2-Dichloroethane-d4 (S)		91	69 - 129	
4-Bromofluorobenzene (S)		66	59 - 140	
Dibromofluoromethane (S)		97	76 - 124	
Toluene-d8 (S)		91	76 - 123	

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PASI Project #: 6041974

D = Surrogate diluted below DL
*** = Surr. rec. outside control limits**

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QC Sample Surrogate Result Summary

Method: EPA 8260

Analyte			% Recovery	Control Limits	Flag
PASI QC Sample #:	603598855	MS			
4-Bromofluorobenzene (S)			106	59 - 140	
Dibromofluoromethane (S)			98	76 - 124	
Toluene-d8 (S)			101	76 - 123	
PASI QC Sample #:	603560640	LCS			
1,2-Dichloroethane-d4 (S)			100	69 - 129	
4-Bromofluorobenzene (S)			102	59 - 140	
Dibromofluoromethane (S)			101	76 - 124	
Toluene-d8 (S)			100	76 - 123	
PASI QC Sample #:	603560632	BLANK			
1,2-Dichloroethane-d4 (S)			110	69 - 129	
4-Bromofluorobenzene (S)			97	59 - 140	
Dibromofluoromethane (S)			105	76 - 124	
Toluene-d8 (S)			101	76 - 123	
PASI QC Sample #:	603604919	BLANK			
1,2-Dichloroethane-d4 (S)			98	69 - 129	
4-Bromofluorobenzene (S)			99	59 - 140	
Dibromofluoromethane (S)			99	76 - 124	
Toluene-d8 (S)			101	76 - 123	
PASI QC Sample #:	603683848	BLANK			
1,2-Dichloroethane-d4 (S)			102	69 - 129	
4-Bromofluorobenzene (S)			97	59 - 140	
Dibromofluoromethane (S)			84	76 - 124	
Toluene-d8 (S)			98	76 - 123	
PASI QC Sample #:	603683855	BLANK			
1,2-Dichloroethane-d4 (S)			99	69 - 129	
4-Bromofluorobenzene (S)			96	59 - 140	
Dibromofluoromethane (S)			84	76 - 124	
Toluene-d8 (S)			98	76 - 123	
PASI QC Sample #:	603683913	BLANK			
1,2-Dichloroethane-d4 (S)			99	69 - 129	
4-Bromofluorobenzene (S)			97	59 - 140	
Dibromofluoromethane (S)			86	76 - 124	
Toluene-d8 (S)			96	76 - 123	

Chain of Custody

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

537362

Page: 2 of 2

Required Client Information: Section A

Company: DEFFENBAUGH

Address:

Phone: 631-3300 Fax: 631-3996

Required Client Information: Section B

Report To: MICK COSSAIRT

Invoice To: RODNEY MANN

P.O.:

Project Name: TSC, KC RFI

Project Number:

Client Information (Check quote/contract):

Requested Due Date: *TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.

Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client **Section C**

Quote Reference:

Project Manager:

Project #: 6041974

Profile #:

Requested Analysis: RFI

Section D Required Client Information:

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID (One character per box. (A–Z, 0–9 / .–) Sample IDs MUST BE UNIQUE)	MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh:mm a/p	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	RFI	Remarks / Lab ID
1	EX2 2(GN)	SL	6/9/00	13:35	2	X						X	603556697
2	EX3			13:45	2								603556705
3	EX5			13:50	2								603556713
4	EX6 SURFACE			13:55	2								603556721
5	EX8 SURFACE			14:45	2								603556739
6	EX8 BASE 3(GN)			14:25	3								Additional jar for 603556747 QC
7	EX8 MIDDLE 2(GN)			14:35	2								603556754
8	EX9 2(GN)			14:00	2								603556804
9	EX10 3(GN)			14:05	3								Additional jar for 603556820 QC
10	EX12 SURFACE 2(GN)			14:50	2								603556838
11	EX13 SURFACE			15:00	2								603556846
12	EX13 BASE			14:30	2								603556861

Sample Condition		Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:				Rodney A. Mann	6/9/00	17:01	Abraham Lugo	6/9/00	1700
Received on ICE:	Y / N								
Sealed Cooler:	Y / N								
Samples Intact:	Y / N								

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JASON DAVIS/MICK COSSAIRT

SIGNATURE of SAMPLER: Mick Cossairt

DATE Signed: (MM / DD / YY) 6-9-00

ORIGINAL

SEE REVERSE SIDE FOR INSTRUCTIONS

Pace Analytical

CHAIN OF CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

537364

Page: 1 of 2

Required Client Information: Section A

Company: DEFFENBAUGH

Address:

Phone: 631-3300 Fax: 631-3996

Required Client Information: Section B

Report To: NICK COSSAIRT

Invoice To: RODNEY MANN

P.O.:

Project Name: TSC, KC - RFI

Project Number:

Client Information (Check quote/contract):

Requested Due Date: *TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.

Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client: Section C

Quote Reference:

Project Manager:

Project #: 6041974

Profile #:

Requested Analysis: RFI

Section D Required Client Information:

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID (One character per box. (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE)	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Remarks / Lab ID
1	EX13 MIDDLE 2(GN)	SL	6/9/00	14:20	2	X					X	603556606
2	EX14 BASE			14:10	2							603556614
3	EX14 SURFACE			14:55	2							603556622
4	DUP			15:05	2							603556655
5												
6												
7												
8												
9												
10												
11												
12												

Sample Condition		Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:				Rodney D. Mann	6/9/00	17:00	Abraham Jiménez	6/9/00	1700
Received on ICE:	Y / N								
Sealed Cooler:	Y / N								
Samples Intact:	Y / N								

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JASON DAVIS / NICK COSSAIRT

SIGNATURE of SAMPLER: Nick Cossairt

DATE Signed: (MM / DD / YY) 6-9-00

ORIGINAL

SEE REVERSE SIDE FOR INSTRUCTIONS

Narrative

Project Narrative

PACE Project No. ***6041974***

This report details any difficulties encountered during the preparation and analysis of samples for this project. The issues addressed will include: out-of-control QC sample parameters, instrument calibration complications, method blank contaminations, unusual sample preparation notations, dilutions required as a result of sample matrix interference or limited sample volume, and any additional information that is necessary to explain discrepancies between the data presented and the QC objectives in the QAPP.

Please note that this report only contains information regarding problems encountered with the analyses. If a particular QC element is not addressed, all specifications presented in the QAPP were satisfied for that issue.

GC/MS VOC's in Soil

QCSample No. (if applicable) **603560632**

Date Occured 6/23/00 8580

Blank contamination above limits

Narrative Comments:

The listed analytes were detected in method blank 0623blk2.

Corrective Action:
Any acetone or methylene chloride reported in the associated samples will be B-flagged.

Affected Samples	Affected Analytes
603556606	Acetone
603556614	Methylene Chloride
603556655	
603556747	

QCSample No. (if applicable) **603604919**

Date Occured 6/23/00 8581

Blank contamination above limits

Narrative Comments:

The listed analytes were detected in method blank 0623blk4.

Corrective Action:
Any acetone or methylene chloride reported in the associated samples will be B-flagged.

Affected Samples	Affected Analytes
603556754	Acetone
603556804	Methylene Chloride
603556820	
603556838	
603556861	

QCSample No. (if applicable) **603683484**

Date Occured 6/26/00 8656

Blank contamination above limits

Narrative Comments:

The listed analytes were detected in the method blank.

Corrective Action:
Any acetone or methylene chloride reported in the associated samples will be B-flagged.

Affected Samples	Affected Analytes
603556697	Acetone
603556705	Methylene Chloride
603556713	
603556721	
603556739	

QCSample No. (if applicable) **603683855**

Date Occured 6/29/00 8657

Blank contamination above limits

Narrative Comments:

The listed analytes were detected in the method blank.

Corrective Action:
Any acetone of methylene chloride reported in the associated samples will be B-flagged.

Affected Samples	Affected Analytes
603556846	Acetone Methylene Chloride

QCSample No. **603683913**
(if applicable)

Date Occured 6/30/00 8658

Blank contamination above limits

Narrative Comments:

The listed analytes were detected in the method blank.

Corrective Action:
Any acetone of methylene chloride reported in the associated samples will be B-flagged.

Affected Samples	Affected Analytes
603556622	Acetone Methylene Chloride

QCSample No.
(if applicable)

Date Occured 6/29/00 8583

Dilution/re-analysis exceeded hold time

Narrative Comments:

The client sample was run within hold time, but the dilution was run 6/29/00, 6 days outside the holding time.

Corrective Action:

Affected Samples	Affected Analytes
603556606	Ethylbenzene O-Xylene (1,2-Dimethylbenzene) Toluene Xylene (Total)

QCSample No.
(if applicable)

Date Occured 6/24/00 8590

Internal Standard Area outside specification (GC/MS)

Narrative Comments:

The area of the internal standard(s) was less than 50% of the associated continuing calibration.

Corrective Action:
The sample was originally analyzed on 6/24/00 but failed the QC parmametes. The sample was re-run 6/29/00 with all internal standards recovering within limits.

Affected Samples	Affected Analytes
603556846	1,4-Dichlorobenzene-d4 Chlorobenzene-d5 fluorobenzene

Date Occured 6/24/00 8587

Internal Standard Area outside specification (GC/MS)

Narrative Comments:

The area of the internal standard(s) was less than 50% of the associated continuing calibration.

Corrective Action:
The sample was originally analyzed on 6/24/00 but failed the QC parmametes. The sample was re-run 6/26/00 with all internal standards recovering within limits.

Affected Samples	Affected Analytes
603556697	Chlorobenzene-d5

Date Occured 6/24/00 8589

Internal Standard Area outside specification (GC/MS)

Narrative Comments:

The area of the internal standard(s) was less than 50% of the associated continuing calibration.

Corrective Action:
The sample was originally analyzed on 6/24/00 but failed the QC parmametes. The sample was re-run 6/26/00 with all internal standards recovering within limits.

Affected Samples	Affected Analytes
603556721	1,4-Dichlorobenzene-d4

Date Occured 6/24/00 8588

Internal Standard Area outside specification (GC/MS)

Narrative Comments:

The area of the internal standard(s) was less than 50% of the associated continuing calibration.

Corrective Action:
The samples were originally analyzed on 6/24/00 but failed the QC parmametes. The samples were re-run 6/26/00 with all internal standards recovering within limits.

Affected Samples	Affected Analytes
603556705	1,4-Dichlorobenzene-d4
603556713	Chlorobenzene-d5
603556739	

QCSample No.
(if applicable)

Date Occured 6/24/00 8639

Miscellaneous (Explain in detail)

Narrative Comments:

The sample was analyzed on 6/24/00 and all the QC criteria was met but carry over was suspected. One of the IS, 1,4-dichlorobenzene-d4, was marginally low on the 6/30/00 reanalysis. Data was reported from 6/30/00 run and both the chromatograms are included.
Corrective Action:

Affected Samples	Affected Analytes
603556622	

Date Occured 6/24/00 8642

Miscellaneous (Explain in detail)

Narrative Comments:

Sample was initially run on 6/24/00 but did not pass all the QC requirements. All QC met requiremnts on the 6/26/00 reanalysis and data was reported from 6/26/00. The 6/24/00 chromatograms are included.

Corrective Action:

Affected Samples	Affected Analytes
603556705	

Date Occured 6/24/00 8643

Miscellaneous (Explain in detail)

Narrative Comments:

The samples were initially analyzed on 6/24/00 but did not meet the QC requirements. The samples were reanalyzed on 6/26/00 and all QC criteria was met. Data was reported from the 6/26/00 runs. Both sets of chromatograms are included.

Corrective Action:

Affected Samples	Affected Analytes
603556721 603556739	

QCSample No.
(if applicable)

Date Occured 6/24/00 8582

Prep/analysis exceeded hold time

Narrative Comments:

Client samples were analyzed 6/24/00, 1 day outside the EPA 14 day holding time.

Corrective Action:

Affected Samples	Affected Analytes
603556655	
603556747	
603556754	
603556804	
603556820	
603556838	
603556846	
603556861	

QCSample No.
(if applicable)

Date Occured 6/23/00 8584

Surrogate recovery outlier above the upper control limit

Narrative Comments:

Corrective Action:
The sample was re-run 6/29 with all surrogates recovering within limits.

Affected Samples	Affected Analytes
603556606	4-Bromofluorobenzene (S)

QCSample No.
(if applicable)

Date Occured 6/24/00 8659

Surrogate recovery outlier above the upper control limit

Narrative Comments:

Toluene-d8 below lower control limit

Corrective Action:
No corrective action taken.

Affected Samples	Affected Analytes
603556804	1,2-Dichloroethane-d4 (S) Dibromofluoromethane (S) Toluene-d8 (S)

GC/MS VOC's in Water

QCSample No.
(if applicable)

Date Occured 5/23/00 8464

Miscellaneous (Explain in detail)

Narrative Comments:

The spcc compound 1,1,2,2-tetrachloroethane did meet the minimum average response factor of 0.3 and was not detected in the lowest calibration standard at 10 ug/L. A four point curve was used for quantitation. The average rsd of all calibration analytes used in the calibration mix was less than 20% d

Corrective Action:
No further action was taken.

Affected Samples	Affected Analytes
603556606 603556861	1,1,2,2-Tetrachloroethane

FAX TRANSMITTAL

DATE: Aug. 16th , 20000

To: Stephanie Doolan

Company Name: EPA Region 7

Fax Number: (913) 551-7947

From: RODNEY MANN

Company Name:

Deffenbaugh Industries, Inc.
P.O. Box 3220
Shawnee, Kansas 66203
Phone: (913) 631-3300 Ext. _____
Fax: (913) 631-3996

THIS TRANSMITTAL CONTAINS 2 **PAGES**

(INCLUDING COVER PAGE)

Re: RFI ISC

Comments: This is a replacement (Form I) of the raw data for EX13 Surface. The final report is correct, this form now has the dilution factor of 5 calculated in.
The original form 1 showed Acetone @ 57 & $MeCl_2$ @ 17.

Pace Sample No.:	603556846	Date Collected:	06/08/00
Client Sample ID:	EX13 SURFACE	Date Received:	06/09/00
Client Name:	Deffenbaugh Industries	Date Ext./Dig.:	
Analytical Method:	EPA 8260	Date Analyzed:	06/29/00
Matrix:	Soil	Batch Number:	84931
Percent Moisture:	3	Pace Project No.:	5041974

Compound	MDL	PQL	Units	Dilution	Results	Qualifier
1,1,1,2-Tetrachloroethane	4.00	26	ug/kg	5.00		U
1,1,1-Trichloroethane	5.52	26	ug/kg	5.00		U
1,1,2,2-Tetrachloroethane	4.58	26	ug/kg	5.00		U
1,1-Dichloroethane	5.41	26	ug/kg	5.00		U
1,2-Dichloroethane	6.19	26	ug/kg	5.00		U
1,4-Dioxane (P-Dioxane)		260	ug/kg	5.00		U
2-Butanone	17.2	52	ug/kg	5.00		U
2-Hexanone	17.0	520	ug/kg	5.00		U
4-Methyl-2-Pentanone	10.1	52	ug/kg	5.00		U
Acetone	64.3	100	ug/kg	5.00	280	B
Benzene	3.64	26	ug/kg	5.00		U
Carbon Disulfide	4.11	52	ug/kg	5.00		U
Chlorobenzene	3.9	26	ug/kg	5.00		U
Chloroethane	5.52	26	ug/kg	5.00		U
Chloromethane	5.77	26	ug/kg	5.00		U
cis-1,2-Dichloroethene	5.77	26	ug/kg	5.00		U
Ethylbenzene	3.64	26	ug/kg	5.00		U
Hexachlorobutadiene	5.93	26	ug/kg	5.00		U
Methylene Chloride	5.04	26	ug/kg	5.00	83	B
O-Xylene (1,2-Dimethylbenzene)	3.33	26	ug/kg	5.00		U
Styrene	4.06	26	ug/kg	5.00		U
Tetrachloroethene	3.69	26	ug/kg	5.00		U
Toluene	2.18	26	ug/kg	5.00		U
trans-1,2-Dichloroethene	5.82	26	ug/kg	5.00		U
Trichloroethene	5.93	20	ug/kg	5.00		U
Vinyl Chloride	7.16	26	ug/kg	5.00		U
Xylene (Total)	9.72	26	ug/kg	5.00		U

U - The analyte was analyzed for, but not detected above MDL.

J - The analyte was positively identified below the PQL.

B - The analyte was found in an associated method blank, as well as in the sample.

TABLE 1
SOIL EXCAVATION DATA
INDUSTRIAL SERVICE CORPORATION
BLUE SUMMIT, MISSOURI

VOLATILE ORGANIC COMPOUNDS	SOIL (ug/kg) INDUSTRIAL	SOIL (ug/kg) RESIDENTIAL	DUP	EX1	EX2	EX3	EX4	EX5	EX6-SURF	EX6-BASE	EX8-SURF	EX8-MID	EX8-BASE	EX9	EX10	EX12-SURF	EX12-MID	EX12-BASE	EX13-SURF	EX13-MID	EX13-BASE	EX14-SURF	EX14-MID	EX14-BASE	EX7	EX11-SURF	EX11-BASE
	RISK BASED CONCENTRATIONS																										
Date Collected			9-Jun-00	24-May-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	13-Jul-00	13-Jul-00	13-Jul-00
Date Analyzed			24-Jun-00	30-May-00	26-Jun-00	26-Jun-00	20-Jun-00	26-Jun-00	26-Jun-00	20-Jun-00	26-Jun-00	24-Jun-00	24-Jun-00	24-Jun-00	24-Jun-00	24-Jun-00	22-Jun-00	22-Jun-00	28-Jun-00	23-Jun-00	24-Jun-00	30-Jun-00	20-Jun-00	23-Jun-00	27-Jul-00	27-Jul-00	27-Jul-00
Meet Holding Time			No	Yes	No	No	Yes	No	No	Yes	No	No	No	No	No	No	Yes	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes
MDNR Sampled							x			x							x	x					x				
Acetone	200,000,000	7,800,000	32(B)	73(B,J)	45(B)	7.1(B,J)	50(B)	23(B)	14(B,J)	49(B,J)	21(B)	320(B)	420(B)	34(B)	51(B)	ND	210(B)	5000(B)	280(B)	270(B)	370(B)	120(B)	24(B)	470(B)	ND	ND	ND
Benzene	100,000	12,000	6.9	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	190	ND	ND	ND	ND	170	10	ND	3.7(J)	15	ND	ND	ND
2-Butanone (MEK)	1,200,000,000	47,000,000	ND	ND	9.2(J)	ND	ND	ND	ND	ND	ND	44	37	ND	ND	ND	40	18000	ND	ND	15	ND	ND	30	ND	ND	ND
Carbon disulfide	200,000,000	7,800,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.3(J)
cis-1,2-Dichloroethene	20,000,000	780,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	83,000	7,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	41,000,000	1,600,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	2,000,000	220,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	440,000	49,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	200,000,000	7,800,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	520,000	58,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	200,000,000	7,800,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.3(J)	ND	82	930	ND	3.9(J)	280(J)	ND	270	370	ND	ND	100	ND	ND	4.3(J)
2-Hexanone	82,000,000	3,100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloro-1,3-butadiene	73,000	6,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	780,000		4.2(B,J)	19(B,J)	580(B)	56(J)	6.2(B)	84(B)	22(B)	6.5(B,J)	2.9(B,J)	4.1(B,J)	4.1(B,J)	7.7	4.5(B,J)	2.6(B,J)	94(B)	500(B,J)	63(B)	ND	4.3(B,J)	150(B)	1.9(B,J)	ND	4.3(B,J)	ND	5.1(B,J)
Methyl chloride (see Chloromethane)																											
4-Methyl-2-pentanone	160,000,000	6,300,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
O-xylene	4,100,000,000	160,000,000	43	ND	ND	ND	ND	ND	ND	ND	ND	10	ND	180	2000	ND	10(J)	900	ND	2400	810	6.6	ND	40	ND	ND	26
1,1,1,2-Tetrachloroethane	220,000	25,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	110,000	12,000	ND	ND	ND	ND	ND	ND	4.4(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	46
1,1,2,2-Tetrachloroethane	29,000	3,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	410,000,000	16,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	410,000,000	16,000,000	ND	9.4(J)	ND	ND	ND	ND	11	9.2(J)	ND	1.6(J)	ND	38	370	ND	2.4(J)	220(J)	ND	740	23	ND	ND	11	ND	ND	ND
trans-1,2-Dichloroethene	41,000,000	1,600,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	570,000,000	22,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	520,000	58,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	3,800	430	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	4,100,000,000	160,000,000	61	18(J)	ND	ND	ND	ND	2.8(J)	46	ND	24	ND	440	3900	ND	37	3000	ND	7000	2400	20	ND	120	ND	ND	61

(B)-Analyte is found in the associated blank

(J)-Detected but below the PRL, result is estimated

Bold-exceeds residential levels
Bold underlined-exceeds industrial levels

TABLE 1
SOIL EXCAVATION DATA
INDUSTRIAL SERVICE CORPORATION
BLUE SUMMIT, MISSOURI

Use these to add/check qualifiers

SEMI-VOLATILE ORGANIC COMPOUNDS	SOIL (mg/kg) INDUSTRIAL	SOIL (mg/kg) RESIDENTIAL	DUP	EX1	EX2	EX3	EX4	EX5	EX6-SURF	EX6-BASE	EX8-SURF	EX8-MID	EX8-BASE	EX9	EX10	EX12-SURF	EX12-MID	EX12-BASE	EX13-SURF	EX13-MID	EX13-BASE	EX14-SURF	EX14-MID	EX14-BASE	EX7	EX11-SURF	EX11-BASE
	RISK BASED CONCENTRATIONS																										
Date Collected			9-Jun-00	24-May-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	13-Jul-00	13-Jul-00	13-Jul-00
Date Analyzed			26-Jun-00	1-Jun-00	26-Jun-00	27-Jun-00	26-Jun-00	26-Jun-00	27-Jun-00	26-Jun-00	27-Jun-00	26-Jun-00	16-Sep-01	25-Jun-00	27-Jun-00	27-Jun-00	28-Jun-00	28-Jun-00	27-Jun-00	27-Jun-00	27-Jun-00	27-Jun-00	28-Jun-00	27-Jun-00	28-Jul-00	31-Jul-00	30-Jul-00
Acenaphthene	120,000,000	4,700,000	380(J)	ND	ND	ND	ND	75(J)	ND	ND	ND	ND	ND	96(J)	300(J)	ND	ND	1500(J)	880(J)	1100(J)	330(J)	880(J)	ND	ND	ND	ND	ND
Anthracene	610,000,000	23,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	980(J)	ND	ND	ND	ND	ND	ND	54(J)	ND	ND
Benzoic acid	6,200,000,000	310,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	7,800	870	ND	ND	ND	ND	ND	ND	ND	ND	ND	42(J)	ND	ND	ND	ND	ND	660(B,J)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	410,000	46,000	490	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	160(B,J)	490(J)	ND	250(J)	ND	1500(B,J)	1900(B,J)	ND	1900(B,J)	ND	ND	ND	ND	ND
Chrysene	780,000	87,000	120(J)	ND	ND	ND	ND	55(J)	490(J)	ND	ND	47(J)	ND	ND	ND	ND	ND	570(J)	ND	ND	180(J)	490(J)	ND	ND	ND	ND	ND
2,4-Dimethylphenol	41,000,000	1,800,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	8,200,000	310,000	ND	ND	100(J)	ND	ND	59(J)	ND	ND	ND	ND	ND	60(J)	230(J)	ND	ND	1100(J)	710(J)	880(J)	190(J)	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	180,000,000	7,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	240,000	27,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	4,100,000	160,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	3,600	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	410,000	46,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	73,000	8,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	82,000,000	3,100,000	ND	ND	ND	ND	ND	39(J)	470(J)	ND	ND	ND	ND	ND	ND	ND	ND	3100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	82,000,000	3,100,000	430	ND	ND	ND	ND	120(J)	ND	ND	ND	ND	ND	130(J)	380(J)	ND	120(J)	1300(J)	1700(J)	1300(J)	270(J)	550(J)	ND	1100(J)	ND	ND	ND
2-Methylnaphthalene	41,000,000	1,600,000	5400	ND	130(J)	ND	ND	270(J)	ND	ND	1600(J)	ND	ND	1100	5000	ND	810	3200	1700(J)	22000	4300	4200	ND	12000	86(J)	ND	ND
2-Methylphenol	100,000,000	3,900,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	1,000,000	39,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	41,000,000	1,600,000	1100	ND	58(J)	ND	ND	64(J)	ND	ND	ND	ND	ND	210(J)	1300	ND	250(J)	6900	ND	7900	1400	950(J)	ND	2600(J)	ND	ND	ND
3-Methylphenol	100,000,000	3,900,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	410,000,000	16,000,000	ND	ND	ND	ND	ND	ND	3200(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Cresol (4-methylphenol)	10,000,000	390,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyridine	2,000,000	78,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	200,000,000	7,800,000	260(J)	ND	200(J)	260(B,J)	ND	330(J)	750(B,J)	ND	ND	270(J)	330(B,J)	250(B,J)	360(B,J)	210(B,J)	ND	ND	ND	ND	340(B,J)	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	1,200,000	130,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene			1600	ND	100(J)	ND	ND	340(J)	520(J)	ND	1400(J)	ND	ND	470	1200	ND	410	5900	4100	4000(J)	1000	1900(J)	ND	2600(J)	52(J)	ND	ND
Phenol	1,200,000,000	47,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	61,000,000	2,300,000	250(J)	ND	58(J)	ND	ND	120(J)	970(J)	ND	ND	ND	ND	97(J)	300(J)	ND	120(J)	2600	1100(J)	1000(J)	330(J)	1400(J)	ND	ND	ND	ND	ND

(B)-Analyte is found in the associated blank

(J)-Detected but below the PRL, result is estimated

Bold-exceeds residential levels
Bold underlined-exceeds industrial levels

TABLE 1
SOIL EXCAVATION DATA
INDUSTRIAL SERVICE CORPORATION
BLUE SUMMIT, MISSOURI

OTHER	SOIL (ug/kg) INDUSTRIAL	SOIL (ug/kg) RESIDENTIAL	DUP	EX1	EX2	EX3	EX4	EX5	EX6-SURF	EX6-BASE	EX8-SURF	EX8-MID	EX8-BASE	EX9	EX10	EX12-SURF	EX12-MID	EX12-BASE	EX13-SURF	EX13-MID	EX13-BASE	EX14-SURF	EX14-MID	EX14-BASE	EX7	EX11-SURF	EX11-BASE
	RISK BASED CONCENTRATIONS																										
HERBICIDES																											
Date Collected			9-Jun-00	24-May-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	13-Jul-00	13-Jul-00	13-Jul-00
Date Analyzed			20-Jun-00	5-Jun-00	20-Jun-00	20-Jun-00	24-Jun-00	20-Jun-00	20-Jun-00	24-Jun-00	20-Jun-00	20-Jun-00	20-Jun-00	20-Jun-00	20-Jun-00	20-Jun-00	24-Jun-00	24-Jun-00	20-Jun-00	18-Jun-00	20-Jun-00	20-Jun-00	24-Jun-00	20-Jun-00	25-Jul-00	25-Jul-00	25-Jul-00
2,4-d	20,000,000,000	780,000,000	ND	13(B,J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30(J)	ND	ND	ND	11(J)	11(J)	7.1(J)	ND
2,4,5-TP (Silvex)	18,000,000,000	630,000,000	ND	ND	ND	2.4(J)	ND	ND	3.8(J)	ND	2.2(J)	ND	ND	ND	ND	ND	ND	ND	1.7(J)	2.8(J)	ND	3.4(J)	ND	1.2(J)	1.1(J)	1.1(J)	ND
PESTICIDES AND PCBS																											
Date Collected			9-Jun-00	24-May-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	13-Jul-00	13-Jul-00	13-Jul-00
Date Analyzed			20-Jun-00	3-Jun-00	20-Jun-00	20-Jun-00	20-Jun-00	21-Jun-00	21-Jun-00	20-Jun-00	21-Jun-00	20-Jun-00	20-Jun-00	21-Jun-00	21-Jun-00	21-Jun-00	20-Jun-00	20-Jun-00	21-Jun-00	20-Jun-00	21-Jun-00	20-Jun-00	20-Jun-00	20-Jun-00	25-Jul-00	25-Jul-00	25-Jul-00
beta-BHC	3,200	350	ND	2.0(B,J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.8	ND	ND	ND	ND
gamma-BHC	4,400	480	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	ND	ND	0.31(J)	ND	0.84(J)
Heptachlor	1,300	140	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.89(J)
PCB-1260	2,900	320	ND	65	ND	35(J)	ND	ND	480	ND	340	ND	ND	150	140	36	ND	ND	440	ND	69	ND	ND	ND	200	4000	69
Heptachlor epoxide	630	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
METALS	SOIL (mg/kg)		DUP	EX1	EX2	EX3	EX4	EX5	EX6-SURF	EX6-BASE	EX8-SURF	EX8-MID	EX8-BASE	EX9	EX10	EX12-SURF	EX12-MID	EX12-BASE	EX13-SURF	EX13-MID	EX13-BASE	EX14-SURF	EX14-MID	EX14-BASE	EX7	EX11-SURF	EX11-BASE
Date Collected			9-Jun-00	24-May-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	9-Jun-00	13-Jul-00	13-Jul-00	13-Jul-00
Date Analyzed			27-Jun-00	7-Jun-00	27-Jun-00	27-Jun-00	30-Jun-00	27-Jun-00	27-Jun-00	28-Jun-00	27-Jun-00	27-Jun-00	27-Jun-00	27-Jun-00	27-Jun-00	27-Jun-00	30-Jun-00	30-Jun-00	27-Jun-00	27-Jun-00	27-Jun-00	27-Jun-00	30-Jun-00	27-Jun-00	27-Jul-00	27-Jul-00	27-Jul-00
Aluminum	2,000,000.00	78,000.00	13500(B)	12900	18600(B)	12100(B)	10200	17700(B)	13700(B)	12400	6440(B)	16900(B)	15300(B)	11700(B)	13800(B)	3320(B)	13200	13100	2950(B)	18400(B)	16000(B)	3480(B)	15600	17300(B)	14600	9890	17600
Antimony	820.00	31.00	ND	9.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	3.8000	0.4300	13.4	ND	10.4	14.8	8.03(J)	22	14.7	8.77(J)	8.3(J)	13.4	14.8	13.2	13.1	ND	10.3	10.3	8.81(J)	12.7	11.7	7.48(J)	11	18.2	ND	10.4	12.8
Barium	140,000.00	5,500.00	254(B)	178	125(B)	278(B)	126	241(B)	298(B)	226	127(B)	229(B)	261(B)	285(B)	271(B)	202(B)	226	238	77.9(B)	255(B)	251(B)	74.7(B)	249	281(B)	448	169	221
Beryllium	4,100.00	160.00	0.61	0.702	1.13	0.857	0.983	0.98	0.862	0.622	0.344	0.734	0.725	0.63	0.851	0.201	0.685	0.668	0.188	0.773	0.703	0.219	0.727	0.787	0.711	0.526	0.867
Cadmium FOOD	2,000.00	78.00																									
Cadmium WATER	1,000.00	39.00	0.0254(B)	4.6	0(B)	2.59(B)	ND	6.39(B)	1.55(B)	0.231(J)	0.569(J)	0(B)	0.0064(B)	0.365(B,J)	0.0821(B,J)	0.855(B)	ND	0.113(J)	0.481(B,J)	0.675(B)	0(B)	0.582(B)	ND	0.223(B,J)	ND	0.563	ND
Calcium			4280	68900	14500	201000	27300	29300	37200	3080	247000	2530	3620	3740	3590	254000	16900	3500	283000	2500	3410	300000	2440	3780	8490	169000	24000
Chromium	3,100,000.00	120,000.00	15.5	23.8(B)	26.4	48.4	15.8	81.6	36.9	13.6	12.8	17.1	17.1	15.9	17.9	24.8	13.7	15.4	9.1	19.1	16	11.9	15.8	19.7	21.1	18.1	32.6
Cobalt	120,000.00	4,700.00	12(B)	8.79	16.9(B)	8.75(B)	14.4	13.8(B)	9.39(B)	11.3	4.33(J)	11.7(B)	12.1(B)	11.9(B)	12(B)	3.18(B)	6.42	12.1	2.89(B)	11.8(B)	12.2(B)	3.22(B)	11	12.5(B)	11.5	6.43	11.9
Copper	82,000.00	3,100.00	20.2	24.5	18.1	26.8	31.5	43.4	30.9	27.3	16.2	13.8	17.3	17.1	17.8	47.6	27.7	24.1	17.4	24.6	18.7	17.2	17.4	24.8	26	22.4	27.7
Iron	610,000.00	23,000.00	21200(B)	18000	24800(B)	16700(B)	15800	23600(B)	17200(B)	19800	8480(J)	19500(B)	22200(B)	20300(B)	18800(B)	7300(B)	16800	18100	6540(B)	20300(B)	21800(B)	6560(B)	20000	23600(B)	19500	14100	21400
Lead			15.7(B)	32	9.01(B)	71(B)	8.38	50.3(B)	462(B)	20	137(J)	12.8(B)	13.4(B)	17.2(B)	17.1(B)	90.7(B)	19.8	18.8	103(B)	19.1(B)	18.1(B)	54.8(B)	12	14.3(B)	15.8	141	34.4
Magnesium			3870(B)	5780	10900(B)	6710(B)	5300	5230(B)	3300(B)	3400	3650(J)	3120(B)	3970(B)	3600(B)	3770(B)	5050(B)	2780	3890	6310(B)	3250(B)	4100(B)	4580(B)	3260	4520(B)	4330	5220	4980
Manganese FOOD	290,000.00	11,000.00																									
Manganese NON-FOOD	41,000.00	1,600.00	751(B)	305	356(B)	418(B)	209	560(B)	492(B)	498	364(J)	821(B)	771(B)	1100(B)	540(B)	338(B)	122	352	375(B)	924(B)	617(B)	336(B)	837	772(B)	464	535	537
Mercury			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	41,000.00	1,600.00	24.1(B)	40.9	41.1(B)	43.3(B)	37.5	73.5(B)	24.5(B)	24.1	12.2(J)	23(B)	25.7(B)	30.9(B)	24.4(B)	12.4(B)	25.6	25.9	9.86(B)	23.5(B)	24(B)	10.5(B)	21.9	26.4(B)	25.2	17.2	35.4
Potassium			1640(B)	2380	5770(B)	2980(B)	2570	3530(B)	1580(B)	1310	1190(J)	1840(B)	1780(B)	1610(B)	1900(B)	642(B)	1440	1810	799(B)	2200(B)	2140(B)	1020(B)	1650	2110(B)	2190	1520	2730
Silver	10,000.00	390.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.213(J)	ND	ND	0.19(J)	ND	ND	ND	ND	ND
Thallium	140.00	5.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tin	1,200,000.00	47,000.00	0.454(B)	ND	0(B)	0(B)	ND	0(B)	0.11(B)	ND	0(J)	0.552(B)	0.278(B)	0(B)	0.298(B)	0(B)	ND	ND	0(B)	3.27(B,J)	0.0863(B)	0(B)	ND	1.08(B)	ND	ND	ND
Vanadium	14,000.00	550.00	34.1(B)	37.5	15.1(B)	85.1(B)	7.59	190(B)	29(B)	28.1	15(J)	38.1(B)	39.3(B)	29.9(B)	38.3(B)	7.86(B)	28.8	33	7.78(B)	40.9(B)	39.2(B)	8.71(B)	33.5	44.7(B)	35.1	24	58.4
Zinc	610,000.00	23,000.00	65.5(B)	137	59.5(B)	188(B)	24.8	405(B)	227(B)	66.4	83.7(J)	61.5(B)	78.7(B)	73.9(B)	75.8(B)	172(B)	208	110	56.9(B)	65.8(B)	71.8(B)	57.3(B)	57.7	72.8(B)	70.4	118	125
Cyanide, Total	41,000.00	1,600.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sulfide, Total			30.4	39.4	28.7	28.7	19.8	22.8	20.8	29.6	21.5	29.9	20.5	19.7	15.4	18.3	24.2	30.3	20.6	19.8	20.6	20.2	33.5	ND	3170	1740	491
Hexavalent chromium	6,100.00	230.00	0.582	0.712	0.215	0.145	0.211	0.385	0.28	0.148	0.204	0.386	0.922	0.418	0.333	0.203	0.121	0.151	0.134	0.508	0.369	ND	0.299	0.568	2.08	0.584	1.49

(B)-Analyte is found in the associated blank

(J)-Detected but below the PRL, result is estimated

Bold-exceeds residential levels
Bold underlined-exceeds industrial levels

TABLE 2
ANALYTICAL RESULTS
BORINGS BENEATH THE ON-SITE BUILDING

SEMI-VOLATILE ORGANIC COMPOUNDS	SOIL (ug/kg) INDUSTRIAL	SOIL (ug/kg) RESIDENTIAL	B17R - 0.5'	B17R - 2.5'	B17R - 5.0'	B17R - 7.5'	B18R - 0.5'	B18R - 2.5'	B19R - 0.5'	B19R - 2.5'	B19R - 5.0'	B19R - 7.5'	B19R - 10.0'	B19R - 12.5'	B19R - 15.0'	B19R - 17.5'	B19R - 20.0'	DUPLICATE
	RISK BASED CONCENTRATIONS																	
Date Collected			25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00
Date Analyzed			7-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	7-Sep-00	7-Sep-00	8-Sep-00	8-Sep-00	7-Sep-00	7-Sep-00	7-Sep-00	7-Sep-00	8-Sep-00	8-Sep-00	7-Sep-00	7-Sep-00
Acenaphthene	120,000,000	4,700,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	610,000,000	23,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	62(J)	ND	ND	ND
Benzoic acid	6,200,000,000	310,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	780	87	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	410,000	46,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	210(J)	ND	ND	ND
Chrysene	780,000	87,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	41,000,000	1,600,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	8,200,000	310,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	180,000,000	7,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	240,000	27,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	4,100,000	160,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	3,600	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	410,000	46,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	73,000	8,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	82,000,000	3,100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	120,000,000	4,700,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	41,000,000	1,600,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	100,000,000	3,900,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	1,000,000	39,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	41,000,000	1,600,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Methylphenol	100,000,000	3,900,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	410,000,000	16,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Cresol (4-methylphenol)	10,000,000	390,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyradine	2,000,000	78,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	200,000,000	7,800,000	ND	ND	54(J)	ND	ND	60(B,J)	ND	ND	ND	100(B,J)	42(B,J)	ND	140(B,J)	90(B,J)	89(B,J)	ND
N-Nitrosodiphenylamine	1,200,000	130,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	1,200,000,000	47,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	61,000,000	2,300,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PESTICIDES	SOIL (ug/kg)		B17R - 0.5'	B17R - 2.5'	B17R - 5.0'	B17R - 7.5'	B18R - 0.5'	B18R - 2.5'	B19R - 0.5'	B19R - 2.5'	B19R - 5.0'	B19R - 7.5'	B19R - 10.0'	B19R - 12.5'	B19R - 15.0'	B19R - 17.5'	B19R - 20.0'	DUPLICATE
Date Collected			25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00
Date Analyzed			14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00	14-Sep-00
beta-BHC	3,200	350	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND
gamma-BHC	4,400	490	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	1,300	140	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	630	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
METALS	SOIL (mg/kg)		B17R - 0.5'	B17R - 2.5'	B17R - 5.0'	B17R - 7.5'	B18R - 0.5'	B18R - 2.5'	B19R - 0.5'	B19R - 2.5'	B19R - 5.0'	B19R - 7.5'	B19R - 10.0'	B19R - 12.5'	B19R - 15.0'	B19R - 17.5'	B19R - 20.0'	DUPLICATE
Date Collected			25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00	25-Aug-00
Date Analyzed			8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00	8-Sep-00
Hexavalent Chrome	10,000	390	0.258	0.203	0.641	1.02	0.367	0.137	0.418	0.299	0.465	0.685	0.47	0.718	0.816	1.42	1.12	0.581

(B)-Analyte is found in the associated blank
(J)-Detected but below the PRL; result is estimated

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July 28, 2000

Mr. RODNEY MANN
Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

RE: Pace Project Number: 6041378
Client Project ID: RFI EX1

Dear Mr. MANN:

Enclosed are the analytical results for sample(s)received by the laboratory on May 24, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela Brown
Project Manager

Enclosures

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DATE: 07/28/00
PAGE: 1

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

Solid results are reported on a dry weight basis

Pace Sample No: 603500802 Date Collected: 05/24/00 Matrix: Soil
Client Sample ID: EX1 Date Received: 05/24/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
M 's-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
...uminum	12900	mg/kg	7.97	0.97	06/07/00	CAS	7429-90-5	
Antimony	9.58	mg/kg	5.32	0.97	06/07/00	CAS	7440-36-0	
Arsenic	ND	mg/kg	9.04	0.97	06/07/00	CAS	7440-38-2	
Barium	178	mg/kg	0.425	0.97	06/07/00	CAS	7440-39-3	
Beryllium	0.702	mg/kg	0.106	0.97	06/07/00	CAS	7440-41-7	
Cadmium	4.6	mg/kg	0.532	0.97	06/07/00	CAS	7440-43-9	
Calcium	68900	mg/kg	10.6	0.97	06/07/00	CAS	7440-70-2	
Chromium	23.8	mg/kg	0.744	0.97	06/07/00	CAS	7440-47-3	1
Cobalt	8.79	mg/kg	0.744	0.97	06/07/00	CAS	7440-48-4	
Copper	24.5	mg/kg	1.06	0.97	06/07/00	CAS	7440-50-8	
Iron	18000	mg/kg	4.25	0.97	06/07/00	CAS	7439-89-6	
Lead	32	mg/kg	5.32	0.97	06/07/00	CAS	7439-92-1	
Magnesium	5780	mg/kg	5.32	0.97	06/07/00	CAS	7439-95-4	
Manganese	305	mg/kg	0.744	0.97	06/07/00	CAS	7439-96-5	
Nickel	40.9	mg/kg	3.19	0.97	06/07/00	CAS	7440-02-0	
Potassium	2380	mg/kg	106	0.97	06/07/00	CAS	7440-09-7	
Silver	ND	mg/kg	0.744	0.97	06/07/00	CAS	7440-22-4	
Vanadium	37.5	mg/kg	1.28	0.97	06/07/00	CAS	7440-62-2	
Zinc	137	mg/kg	10.6	0.97	06/07/00	CAS	7440-66-6	
Tin	ND	mg/kg	26.6	0.97	06/07/00	CAS	7440-31-5	
Date Digested					05/30/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.169	1.00	06/16/00	JAH	7439-97-6	
...ium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			

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Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Pace Project Number: 6041378
Client Project ID: RFI EX1

Pace Sample No: 603500802 Date Collected: 05/24/00 Matrix: Soil
Client Sample ID: EX1 Date Received: 05/24/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Thallium	ND	mg/kg	0.517	0.94	06/06/00	CAS	7440-28-0	
Date Digested					05/30/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.712	mg/kg	0.11	0.10	06/02/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.1	1.00	06/01/00	JKS	57-12-5	
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	39.4	mg/kg	5.48	1.00	06/01/00	DOC		2
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	8.7	%		0.91	05/30/00	RLEE		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	2.0	ug/kg	2.2	1.00	06/02/00	JLO	319-85-7	1,3
gamma-BHC (Lindane)	ND	ug/kg	1.4	1.00	06/02/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.1	1.00	06/02/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	3.6	1.00	06/02/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	104	%		0.91	06/02/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	101	%		0.91	06/02/00	JLO	877-09-8	
Date Extracted					05/31/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	65	ug/kg	36	1.00	06/06/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	59	%		0.91	06/06/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	73	%		0.91	06/06/00	JLO	877-09-8	
Date Extracted					05/30/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	13	ug/kg	44	1.00	06/05/00	JLO	94-75-7	1,3
2,4,5-TP(Silvex)	ND	ug/kg	16	1.00	06/05/00	JLO	93-72-1	
hlorophenyl Acetic Acid (S)	82	%		0.91	06/05/00	JLO		

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Pace Project Number: 6041378
Client Project ID: RFI EX1

Pace Sample No: 603500802 | Date Collected: 05/24/00 | Matrix: Soil
Client Sample ID: EX1 | Date Received: 05/24/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Date Extracted					05/30/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	27	5.00	05/30/00	NLA	74-87-3	4
Vinyl Chloride	ND	ug/kg	27	5.00	05/30/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	27	5.00	05/30/00	NLA	75-00-3	
Methylene Chloride	19	ug/kg	27	5.00	05/30/00	NLA	75-09-2	1,3
1,1-Dichloroethene	ND	ug/kg	27	5.00	05/30/00	NLA	75-35-4	
trans-1,2-Dichloroethene	ND	ug/kg	27	5.00	05/30/00	NLA	156-60-5	
cis-1,2-Dichloroethene	ND	ug/kg	27	5.00	05/30/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	27	5.00	05/30/00	NLA	71-55-6	
zene	ND	ug/kg	27	5.00	05/30/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	27	5.00	05/30/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	27	5.00	05/30/00	NLA	79-01-6	
Toluene	9.4	ug/kg	27	5.00	05/30/00	NLA	108-88-3	3
Tetrachloroethene	ND	ug/kg	27	5.00	05/30/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	27	5.00	05/30/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	27	5.00	05/30/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	27	5.00	05/30/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	27	5.00	05/30/00	NLA	95-47-6	
Styrene	ND	ug/kg	27	5.00	05/30/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	27	5.00	05/30/00	NLA	79-34-5	
Hexachlorobutadiene	ND	ug/kg	27	5.00	05/30/00	NLA	87-68-3	
Acetone	73	ug/kg	110	5.00	05/30/00	NLA	67-64-1	1,3
2-Butanone	ND	ug/kg	55	5.00	05/30/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	55	5.00	05/30/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	55	5.00	05/30/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	550	5.00	05/30/00	NLA	591-78-6	
Xylene (Total)	18	ug/kg	27	5.00	05/30/00	NLA	1330-20-7	3
1,4-Dioxane (P-Dioxane)	ND	ug/kg	270	5.00	05/30/00	NLA	123-91-1	
Dibromofluoromethane (S)	92	%		0.91	05/30/00	NLA	1868-53-7	
Toluene-d8 (S)	96	%		0.91	05/30/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	98	%		0.91	05/30/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%		0.91	05/30/00	NLA	17060-07-0	

GC/MS Semivolatiles

S olatile Organics — Method: EPA 8270 — Prep Method: EPA 3550 Sonication

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Lenexa, KS 66219
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Pace Project Number: 6041378
Client Project ID: RFI EX1

Pace Sample No: 603500802 | Date Collected: 05/24/00 | Matrix: Soil
Client Sample ID: EX1 | Date Received: 05/24/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Phenol	ND	ug/kg	360	0.99	06/01/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	360	0.99	06/01/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	360	0.99	06/01/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	360	0.99	06/01/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	360	0.99	06/01/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	360	0.99	06/01/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	360	0.99	06/01/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	360	0.99	06/01/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	1700	0.99	06/01/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	360	0.99	06/01/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	360	0.99	06/01/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	360	0.99	06/01/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	360	0.99	06/01/00	WAW	83-32-9	
Benzofuran	ND	ug/kg	360	0.99	06/01/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	360	0.99	06/01/00	WAW	121-14-2	
Fluorene	ND	ug/kg	360	0.99	06/01/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	360	0.99	06/01/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	360	0.99	06/01/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	360	0.99	06/01/00	WAW	85-01-8	
Anthracene	ND	ug/kg	360	0.99	06/01/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	360	0.99	06/01/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	360	0.99	06/01/00	WAW	206-44-0	
Pyrene	ND	ug/kg	360	0.99	06/01/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	360	0.99	06/01/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	360	0.99	06/01/00	WAW	56-55-3	
Chrysene	ND	ug/kg	360	0.99	06/01/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	360	0.99	06/01/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	360	0.99	06/01/00	WAW	108-39-4	
Pyridine	ND	ug/kg	360	0.99	06/01/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	86	%		0.91	06/01/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	89	%		0.91	06/01/00	WAW	321-60-8	
Terphenyl-d14 (S)	84	%		0.91	06/01/00	WAW	1718-51-0	
Phenol-d6 (S)	84	%		0.91	06/01/00	WAW	13127-88-3	
2-Fluorophenol (S)	83	%		0.91	06/01/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	57	%		0.91	06/01/00	WAW	118-79-6	
Date Extracted					05/25/00			

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Pace Project Number: 6041378
Client Project ID: RFI EX1

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
(S)	Surrogate
App. DF	Applied Dilution Factor
[1]	Analyte is found in the associated blank as well as in the sample (CLP B-Flag).
[2]	Analysis conducted in excess of EPA recommended holding time.
[3]	Detected but below the PRL; therefore, result is an estimated concentration (CLP J-Flag).
[4]	This sample was analyzed at dilution due to low internal standard area recoveries in the straight analysis.

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QUALITY CONTROL DATA

DATE: 07/28/00

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 83763
Analysis Method: EPA 8270
Associated Pace Samples: 603500802

QC Batch Method: EPA 3550 Sonication
Analysis Description: Semivolatile Organics

METHOD BLANK: 603501305
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
Phenol	ug/kg	ND	330	
1,4-Dichlorobenzene	ug/kg	ND	330	
1,2-Dichlorobenzene	ug/kg	ND	330	
2-Methylphenol	ug/kg	ND	330	
4-Methylphenol	ug/kg	ND	330	
Hexachloroethane	ug/kg	ND	330	
Nitrobenzene	ug/kg	ND	330	
2,4-Dimethylphenol	ug/kg	ND	330	
Benzoic Acid	ug/kg	ND	1600	
Naphthalene	ug/kg	ND	330	
Hexachlorobutadiene	ug/kg	ND	330	
2-Methylnaphthalene	ug/kg	96	330	1
Acenaphthene	ug/kg	ND	330	
Dibenzofuran	ug/kg	ND	330	
2,4-Dinitrotoluene	ug/kg	ND	330	
Fluorene	ug/kg	ND	330	
N-Nitrosodiphenylamine	ug/kg	ND	330	
Hexachlorobenzene	ug/kg	ND	330	
Phenanthrene	ug/kg	60	330	1
Anthracene	ug/kg	ND	330	
Di-n-butylphthalate	ug/kg	ND	330	
Fluoranthene	ug/kg	ND	330	
Pyrene	ug/kg	44	330	1
Butylbenzylphthalate	ug/kg	ND	330	
Benzo(a)anthracene	ug/kg	ND	330	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Pace Project Number: 6041378
Client Project ID: RFI EX1

METHOD BLANK: 603501305
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
Chrysene	ug/kg	38	330	1
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	
3-Methylphenol	ug/kg	ND	330	
Pyridine	ug/kg	ND	330	
Nitrobenzene-d5 (S)	%	90		
2-Fluorobiphenyl (S)	%	93		
Terphenyl-d14 (S)	%	92		
Phenol-d6 (S)	%	88		
2-Fluorophenol (S)	%	93		
2,4,6-Tribromophenol (S)	%	116		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603501313 603501321

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Phenol	ug/kg	0	2723	1683	61.8	1749	64.3	4	
1,4-Dichlorobenzene	ug/kg	0	1815	1406	77.4	1405	77.5	0	
Acenaphthene	ug/kg	0	1815	1486	81.9	1570	86.5	5	
2,4-Dinitrotoluene	ug/kg	0	1815	1674	92.2	1871	103	11	
Pyrene	ug/kg	47.82	1815	1565	83.6	1845	99.1	17	
Nitrobenzene-d5 (S)					83		93		
2-Fluorobiphenyl (S)					84		96		
Terphenyl-d14 (S)					67		85		
Phenol-d6 (S)					74		82		
2-Fluorophenol (S)					88		96		
2,4,6-Tribromophenol (S)					77		78		

LABORATORY CONTROL SAMPLE: 603501339

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Phenol	ug/kg	2500	1331	53.2	
1,4-Dichlorobenzene	ug/kg	1667	1184	71.1	
Acenaphthene	ug/kg	1667	1387	83.2	
2,4-Dinitrotoluene	ug/kg	1667	1385	83.1	
Py.	ug/kg	1667	1614	96.9	

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QUALITY CONTROL DATA

DATE: 07/28/00

Pace Project Number: 6041378
Client Project ID: RFI EX1

LABORATORY CONTROL SAMPLE: 603501339

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Nitrobenzene-d5 (S)				90	
2-Fluorobiphenyl (S)				104	
Terphenyl-d14 (S)				94	
Phenol-d6 (S)				83	
2-Fluorophenol (S)				102	
2,4,6-Tribromophenol (S)				106	

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QUALITY CONTROL DATA

DATE: 07/28/00

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 83770
Analysis Method: EPA 8260
Associated Pace Samples: 603500802

QC Batch Method: EPA 8260
Analysis Description: GC/MS VOCs by 8260

METHOD BLANK: 603517863
Associated Pace Samples:
603500802

[illegible] ter	Units	Method Blank Result	PRL	Footnotes
Chloromethane	ug/kg	ND	5	
Vinyl Chloride	ug/kg	ND	5	
Chloroethane	ug/kg	ND	5	
Methylene Chloride	ug/kg	1.4	5	1
1,1-Dichloroethene	ug/kg	ND	5	
trans-1,2-Dichloroethene	ug/kg	ND	5	
cis-1,2-Dichloroethene	ug/kg	ND	5	
1,1,1-Trichloroethane	ug/kg	ND	5	
Benzene	ug/kg	ND	5	
1,2-Dichloroethane	ug/kg	ND	5	
Trichloroethene	ug/kg	ND	5	
Toluene	ug/kg	ND	5	
Tetrachloroethene	ug/kg	ND	5	
Chlorobenzene	ug/kg	ND	5	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5	
Ethylbenzene	ug/kg	ND	5	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	ND	5	
Styrene	ug/kg	ND	5	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5	
Hexachlorobutadiene	ug/kg	ND	5	
Acetone	ug/kg	9.3	20	1
2-Butanone	ug/kg	ND	10	
4-Methyl-2-Pentanone	ug/kg	ND	10	
Carbon Disulfide	ug/kg	ND	10	
2- [illegible] none	ug/kg	ND	100	

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QUALITY CONTROL DATA

Pace Project Number: 6041378
Client Project ID: RFI EX1

METHOD BLANK: 603517863
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
Xylene (Total)	ug/kg	ND	5	
1,4-Dioxane (P-Dioxane)	ug/kg	ND	50	
Dibromofluoromethane (S)	%	97		
Toluene-d8 (S)	%	97		
4-Bromofluorobenzene (S)	%	98		
1,2-Dichloroethane-d4 (S)	%	106		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603501529 603501537

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
1,1-Dichloroethene	ug/kg	0	273.8	309.1	113	323.1	118	4	
Benzene	ug/kg	0	273.8	277.3	101	293.0	107	5	
Trichloroethene	ug/kg	0	273.8	323.5	118	329.8	120	2	
Toluene	ug/kg	9.445	273.8	289.7	102	270.5	95.4	7	
Chlorobenzene	ug/kg	0	273.8	280.9	103	299.7	110	7	
Dibromofluoromethane (S)					101		97		
Toluene-d8 (S)					102		92		
4-Bromofluorobenzene (S)					100		92		

LABORATORY CONTROL SAMPLE: 603501545

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Chloromethane	ug/kg	50	48.78	97.6	
Vinyl Chloride	ug/kg	50	49.95	99.9	
Chloroethane	ug/kg	50	50.56	101	
Methylene Chloride	ug/kg	50	47.07	94.1	
1,1-Dichloroethene	ug/kg	50	51.44	103	
trans-1,2-Dichloroethene	ug/kg	50	50.47	101	
cis-1,2-Dichloroethene	ug/kg	50	49.87	99.7	
1,1,1-Trichloroethane	ug/kg	50	50.48	101	
Benzene	ug/kg	50	49.33	98.7	
1,2-Dichloroethane	ug/kg	50	49.52	99.0	
Trichloroethene	ug/kg	50	47.94	95.9	
Toluene	ug/kg	50	49.26	98.5	

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QUALITY CONTROL DATA

Pace Project Number: 6041378
Client Project ID: RFI EX1

LABORATORY CONTROL SAMPLE: 603501545

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Tetrachloroethene	ug/kg	50	47.50	95.0	
Chlorobenzene	ug/kg	50	49.63	99.3	
1,1,1,2-Tetrachloroethane	ug/kg	50	51.28	103	
Ethylbenzene	ug/kg	50	48.74	97.5	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	50	49.90	99.8	
Styrene	ug/kg	50	49.64	99.3	
1,1,2,2-Tetrachloroethane	ug/kg	50	47.65	95.3	
Hexachlorobutadiene	ug/kg	50	46.82	93.6	
Dibromofluoromethane (S)				101	
Toluene-d8 (S)				98	
4-Bromofluorobenzene (S)				99	
1,2-Dichloroethane-d4 (S)				102	

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QUALITY CONTROL DATA

DATE: 07/28/00

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 83821
Analysis Method:
Associated Pace Samples: 603500802

QC Batch Method:
Analysis Description: Percent Moisture

SAMPLE DUPLICATE: 603505975

Parameter	Units	603500802	Dup. Result	RPD	Footnotes
Percent Moisture	%	8.700	12.20	34	

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DATE: 07/28/00

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 83907
Analysis Method: EPA 7841
Associated Pace Samples: 603500802

QC Batch Method: EPA 3050
Analysis Description: Thallium, AAS Furnace

METHOD BLANK: 603512690
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
Thallium	mg/kg	ND	0.472	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603512716 603512724

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Thallium	mg/kg	0.02355	4.337	3.327	76.2	3.103	73.1	4	

LABORATORY CONTROL SAMPLE: 603512708

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Thallium	mg/kg	3.670	3.494	95.2	

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Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 83911
Analysis Method: EPA 6010
Associated Pace Samples: 603500802

QC Batch Method: EPA 3050
Analysis Description: Metals-Standard ICP, Soil

METHOD BLANK: 603512856
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
Aluminum	mg/kg	ND	6.94	
Antimony	mg/kg	ND	4.63	
Arsenic	mg/kg	ND	7.87	
Barium	mg/kg	ND	0.37	
Beryllium	mg/kg	ND	0.0926	
Cadmium	mg/kg	ND	0.463	
Calcium	mg/kg	ND	9.26	
Chromium	mg/kg	0.697	0.648	2
Cobalt	mg/kg	ND	0.648	
Copper	mg/kg	ND	0.926	
Iron	mg/kg	ND	3.7	
Lead	mg/kg	ND	4.63	
Magnesium	mg/kg	ND	4.63	
Manganese	mg/kg	ND	0.648	
Nickel	mg/kg	ND	2.78	
Potassium	mg/kg	ND	92.6	
Silver	mg/kg	ND	0.648	
Vanadium	mg/kg	ND	1.11	
Zinc	mg/kg	ND	9.26	
Tin	mg/kg	ND	23.1	

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QUALITY CONTROL DATA

Pace Project Number: 6041378
Client Project ID: RFI EX1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603512872 603512880

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Aluminum	mg/kg	12860	1084	17460	424	16370	343	21	
Antimony	mg/kg	9.579	108.4	57.68	44.4	55.67	45.0	1	
Arsenic	mg/kg	0	108.4	63.75	58.8	64.99	63.5	8	
Barium	mg/kg	177.5	108.4	239.6	57.2	242.5	63.5	10	
Beryllium	mg/kg	0.7017	10.84	10.60	91.3	10.08	91.6	0	
Cadmium	mg/kg	4.603	10.84	13.23	79.5	12.79	80.0	1	
Calcium	mg/kg	68890	1084	67980	-84.2	78600	948	239	3,4
Chromium	mg/kg	23.81	108.4	122.5	91.0	112.6	86.7	5	
Cobalt	mg/kg	8.792	108.4	99.96	84.1	92.92	82.2	2	
Copper	mg/kg	24.45	108.4	119.3	87.4	112.6	86.1	1	
Iron	mg/kg	17970	1084	21250	303	18630	64.4	130	
Lead	mg/kg	32.00	108.4	122.5	83.5	112.6	78.7	6	
Magnesium	mg/kg	5783	1084	7644	172	6765	95.9	57	
Manganese	mg/kg	305.1	108.4	365.4	55.6	541.4	231	122	
Ni	mg/kg	40.93	108.4	133.4	85.2	121.8	79.0	8	
Potassium	mg/kg	2381	1084	4738	217	3950	153	35	
Silver	mg/kg	0	10.84	7.015	64.7	6.795	66.4	3	5,6
Vanadium	mg/kg	37.53	108.4	136.6	91.4	130.0	90.3	1	
Zinc	mg/kg	137.1	108.4	196.2	54.5	195.5	57.0	4	
Tin	mg/kg	2.743	108.4	83.70	74.7	80.03	75.5	1	

LABORATORY CONTROL SAMPLE: 603512864

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Aluminum	mg/kg	934.6	874.8	93.6	
Antimony	mg/kg	93.46	87.20	93.3	
Arsenic	mg/kg	93.46	80.65	86.3	
Barium	mg/kg	93.46	88.13	94.3	
Beryllium	mg/kg	9.346	9.196	98.4	
Cadmium	mg/kg	9.346	8.234	88.1	
Calcium	mg/kg	934.6	962.6	103	
Chromium	mg/kg	93.46	84.11	90.0	
Cobalt	mg/kg	93.46	87.48	93.6	
Copper	mg/kg	93.46	87.29	93.4	
Iron	mg/kg	934.6	915.9	98.0	
Lead	mg/kg	93.46	83.46	89.3	
Magnesium	mg/kg	934.6	857.9	91.8	
Manganese	mg/kg	93.46	87.20	93.3	
Ni	mg/kg	93.46	86.92	93.0	

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QUALITY CONTROL DATA

DATE: 07/28/00

Pace Project Number: 6041378
Client Project ID: RFI EX1

LABORATORY CONTROL SAMPLE: 603512864

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Potassium	mg/kg	934.6	845.8	90.5	
Silver	mg/kg	9.346	8.458	90.5	
Vanadium	mg/kg	93.46	88.60	94.8	
Zinc	mg/kg	93.46	89.25	95.5	
Tin	mg/kg	93.46	84.02	89.9	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 83925
Analysis Method: EPA 8082
Associated Pace Samples: 603500802

QC Batch Method: EPA 3550
Analysis Description: PCBs in Soil by 8082

METHOD BLANK: 603513631
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	ND	33	
Decachlorobiphenyl (S)	%	74		
Tetrachloro-meta-xylene (S)	%	81		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603513649 603513656

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	65.10	364.6	291.0	61.9	271.6	56.6	9	
Decachlorobiphenyl (S)					57		57		
Tetrachloro-meta-xylene (S)					71		66		

LABORATORY CONTROL SAMPLE: 603513664

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	333.3	271.0	81.3	
Decachlorobiphenyl (S)				74	
Tetrachloro-meta-xylene (S)				82	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 83987
Analysis Method: EPA 8151
Associated Pace Samples: 603500802

QC Batch Method: EPA 3550
Analysis Description: Chlorinated Herbicides

METHOD BLANK: 603517731
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
2,4-D	ug/kg	7.0	40	1
2,4,5-TP(Silvex)	ug/kg	ND	15	
Dichlorophenyl Acetic Acid (S)	%	91		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603517749 603517756

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
2,4-D	ug/kg	13.01	364.6	326.6	86.0	312.5	82.0	5	
2,4,5-TP(Silvex)	ug/kg	0	36.46	35.98	98.7	34.56	94.7	4	
Dichlorophenyl Acetic Acid (S)					99		93		

LABORATORY CONTROL SAMPLE: 603517764

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
2,4-D	ug/kg	333.3	281.3	84.4	
2,4,5-TP(Silvex)	ug/kg	33.33	33.30	99.9	
Dichlorophenyl Acetic Acid (S)				102	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18131 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 84069
Analysis Method: EPA 8081A
Associated Pace Samples: 603500802

QC Batch Method: EPA 3550
Analysis Description: Organochlorine Pesticides, GC

METHOD BLANK: 603520511
Associated Pace Samples:
603500802

ter	Units	Method Blank Result	PRL	Footnotes
beta-BHC	ug/kg	1.8	2	1.7
gamma-BHC (Lindane)	ug/kg	ND	1.3	
Heptachlor	ug/kg	ND	0.99	
Heptachlor Epoxide	ug/kg	ND	3.3	
Decachlorobiphenyl (S)	%	107		
Tetrachloro-meta-xylene (S)	%	117		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603520529 603520537

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
gamma-BHC (Lindane)	ug/kg	0	18.25	16.13	88.4	16.09	88.2	0	
Heptachlor	ug/kg	0	18.25	15.72	86.1	15.71	86.1	0	
Decachlorobiphenyl (S)					86		83		
Tetrachloro-meta-xylene (S)					81		83		

LABORATORY CONTROL SAMPLE: 603520545

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
beta-BHC	ug/kg	16.67	20.62	124	
gamma-BHC (Lindane)	ug/kg	16.67	21.54	129	
Heptachlor	ug/kg	16.67	20.29	122	

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QUALITY CONTROL DATA

DATE: 07/28/00

Pace Project Number: 6041378
Client Project ID: RFI EX1

LABORATORY CONTROL SAMPLE: 603520545

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Heptachlor Epoxide	ug/kg	16.67	20.71	124	
Decachlorobiphenyl (S)				111	
Tetrachloro-meta-xylene (S)				107	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 84162
Analysis Method: EPA 9010A
Associated Pace Samples: 603500802

QC Batch Method: EPA 9010A
Analysis Description: Cyanide, Total, Soil

METHOD BLANK: 603524265
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
Cyanide	mg/kg	ND	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603524281 603524299

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Cyanide	mg/kg	0	10.95	7.008	64.0	11.06	101	45	8

LABORATORY CONTROL SAMPLE: 603524273

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Cyanide	mg/kg	10	8.400	84.0	

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QUALITY CONTROL DATA

DATE: 07/28/00

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 84173
Analysis Method: EPA 9030A
Associated Pace Samples: 603500802

QC Batch Method: EPA 9030A
Analysis Description: Sulfides in Waste, for Soil

METHOD BLANK: 603524786
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
Sulfide	mg/kg	ND	5	

MATRIX SPIKE: 603524794

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Sulfide	mg/kg	39.42	547.5	508.1	85.6	

LABORATORY CONTROL SAMPLE: 603524810

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Sulfide	mg/kg	500	500.0	100	

SAMPLE DUPLICATE: 603524802

Parameter	Units	603500802	Dup. Result	RPD	Footnotes
Sulfide	mg/kg	39.40	36.00	9	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 84286
Analysis Method: EPA 7196 Modified
Associated Pace Samples: 603500802

QC Batch Method: EPA 7196 Modified
Analysis Description: Chromium, Hexavalent, in Soil

METHOD BLANK: 603529637
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
Chromium, Hexavalent	mg/kg	ND	0.1	

MATRIX SPIKE: 603529645

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Chromium, Hexavalent	mg/kg	0.7118	1.095	1.226	47.0	

LABORATORY CONTROL SAMPLE: 603529660

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Chromium, Hexavalent	mg/kg	1.000	0.9500	95.0	

SAMPLE DUPLICATE: 603529652

Parameter	Units	603500802	Dup. Result	RPD	Footnotes
Chromium, Hexavalent	mg/kg	0.7120	1.220	0	8

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

QC Batch ID: 84969
Analysis Method: EPA 7471
Associated Pace Samples: 603500802

QC Batch Method: EPA 7471
Analysis Description: Mercury, Soil CVAAS

METHOD BLANK: 603562216
Associated Pace Samples:
603500802

Parameter	Units	Method Blank Result	PRL	Footnotes
Mercury	mg/kg	ND	0.154	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603562224 603562232

Parameter	Units	603500802	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Mercury	mg/kg	0.01035	1.825	2.041	111	1.923	105	6	

LABORATORY CONTROL SAMPLE: 603562240

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Mercury	mg/kg	1.667	1.400	84.0	

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Pace Project Number: 6041378
Client Project ID: RFI EX1

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	Detected but below the PRL; therefore, result is an estimated concentration (CLP J-Flag).
[2]	Analyte is found in the associated blank as well as in the sample (CLP B-Flag).
[3]	The calculated RPD was outside QC acceptance limits.
[4]	The affected analytes are Ca, Fe, Mg, Mn, K.
[5]	Due to high analyte concentration & non homogeneity of the QC matrix, the MS/MSD did not provide reliable results for accuracy and precision. Sample results for this QC batch were accepted based on LCS percent recoveries.
[6]	The affected analytes are: Al, As, Ca, Fe, Mg, Mn, K.
[7]	Compound was not confirmed by the second column analysis.
[8]	The calculated RPD was outside QC acceptance limits.

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QUALITY CONTROL DATA
CROSS REFERENCE TABLE

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6041378
Client Project ID: RFI EX1
SDG Number: 6041378D

Attn: Mr. RODNEY MANN
Phone: 913-631-3300

Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603500802	EX1	EPA 3550 Sonication	83763	EPA 8270	83840
603500802	EX1	EPA 8260	83770		
603500802	EX1		83821		
603500802	EX1	EPA 3050	83907	EPA 7841	84496
603500802	EX1	EPA 3050	83911	EPA 6010	84599
603500802	EX1	EPA 3550	83925	EPA 8082	83979
603500802	EX1	EPA 3550	83987	EPA 8151	84330
603500802	EX1	EPA 3550	84069	EPA 8081A	84327
603500802	EX1	EPA 9010A	84162		
603500802	EX1	EPA 9030A	84173		
603500802	EX1	EPA 7196 Modified	84286		
603500802	EX1	EPA 7471	84969		

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July 27, 2000

Mr. Mick Cossairt
Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

RE: Pace Project Number: 6041974
Client Project ID: ISC RFI

Dear Mr. Cossairt:

Enclosed are the analytical results for sample(s)received by the laboratory on June 9, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela Brown
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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DATE: 07/27/00
PAGE: 1

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

Solid results are reported on a dry weight basis

Pace Sample No: 603556606 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX13 MIDDLE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	18400	mg/kg	8.94	0.96	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	5.96	0.96	06/27/00	CAS	7440-36-0	
Arsenic	12.7	mg/kg	10.1	0.96	06/27/00	CAS	7440-38-2	
Barium	255	mg/kg	0.477	0.96	06/27/00	CAS	7440-39-3	1
Beryllium	0.773	mg/kg	0.119	0.96	06/27/00	CAS	7440-41-7	
Cadmium	0.675	mg/kg	0.596	0.96	06/27/00	CAS	7440-43-9	1
Calcium	2500	mg/kg	11.9	0.96	06/27/00	CAS	7440-70-2	
Chromium	19.1	mg/kg	0.835	0.96	06/27/00	CAS	7440-47-3	
Cobalt	11.8	mg/kg	0.835	0.96	06/27/00	CAS	7440-48-4	1
Copper	24.6	mg/kg	1.19	0.96	06/27/00	CAS	7440-50-8	
Iron	20300	mg/kg	4.77	0.96	06/27/00	CAS	7439-89-6	1
Lead	19.1	mg/kg	5.96	0.96	06/27/00	CAS	7439-92-1	1
Magnesium	3250	mg/kg	5.96	0.96	06/27/00	CAS	7439-95-4	1
Manganese	924	mg/kg	0.835	0.96	06/27/00	CAS	7439-96-5	1
Nickel	23.5	mg/kg	3.58	0.96	06/27/00	CAS	7440-02-0	1
Potassium	2200	mg/kg	119	0.96	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.835	0.96	06/27/00	CAS	7440-22-4	
Vanadium	40.9	mg/kg	1.43	0.96	06/27/00	CAS	7440-62-2	1
Zinc	65.8	mg/kg	11.9	0.96	06/27/00	CAS	7440-66-6	1
Tin	3.27	mg/kg	29.8	0.96	06/27/00	CAS	7440-31-5	1,2
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.191	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556606 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX13 MIDDLE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Thallium	ND	mg/kg	0.579	0.94	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.508	mg/kg	0.124	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.24	1.00	06/20/00	JKS	57-12-5	
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	19.8	mg/kg	6.2	1.00	06/16/00	JKS		
cs Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	19.4	%		0.81	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	25	10.0	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	16	10.0	06/20/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	12	10.0	06/20/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	41	10.0	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	68	%		0.81	06/20/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	46	%		0.81	06/20/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	81	1.98	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	42	%		0.81	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	48	%		0.81	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	30	ug/kg	50	1.00	06/19/00	JLO	94-75-7	2
2,4,5-TP(Silvex)	2.6	ug/kg	19	1.00	06/19/00	JLO	93-72-1	2
chlorophenyl Acetic Acid (S)	82	%		0.81	06/19/00	JLO		

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556606 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX13 MIDDLE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6.2	1.00	06/23/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	6.2	1.00	06/23/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6.2	1.00	06/23/00	NLA	75-00-3	
Methylene Chloride	ND	ug/kg	6.2	1.00	06/23/00	NLA	75-09-2	
1,1-Dichloroethene	ND	ug/kg	6.2	1.00	06/23/00	NLA	75-35-4	
trans-1,2-Dichloroethene	ND	ug/kg	6.2	1.00	06/23/00	NLA	156-60-5	
cis-1,2-Dichloroethene	ND	ug/kg	6.2	1.00	06/23/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	6.2	1.00	06/23/00	NLA	71-55-6	
Benzene	170	ug/kg	6.2	1.00	06/23/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	6.2	1.00	06/23/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	6.2	1.00	06/23/00	NLA	79-01-6	
Toluene	740	ug/kg	31	5.00	06/23/00	NLA	108-88-3	4
Tetrachloroethene	ND	ug/kg	6.2	1.00	06/23/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6.2	1.00	06/23/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.2	1.00	06/23/00	NLA	630-20-6	
Ethylbenzene	270	ug/kg	31	5.00	06/23/00	NLA	100-41-4	4
O-Xylene (1,2-Dimethylbenzene)	2400	ug/kg	31	5.00	06/23/00	NLA	95-47-6	4,5
Styrene	ND	ug/kg	6.2	1.00	06/23/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.2	1.00	06/23/00	NLA	79-34-5	
Hexachlorobutadiene	ND	ug/kg	6.2	1.00	06/23/00	NLA	87-68-3	
Acetone	270	ug/kg	25	1.00	06/23/00	NLA	67-64-1	1
2-Butanone	ND	ug/kg	12	1.00	06/23/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	12	1.00	06/23/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	12	1.00	06/23/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	120	1.00	06/23/00	NLA	591-78-6	
Xylene (Total)	7000	ug/kg	31	5.00	06/23/00	NLA	1330-20-7	4,5
1,4-Dioxane (P-Dioxane)	ND	ug/kg	62	1.00	06/23/00	NLA	123-91-1	
Dibromofluoromethane (S)	94	%		0.81	06/23/00	NLA	1868-53-7	
Toluene-d8 (S)	76	%		0.81	06/23/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	597	%		0.81	06/23/00	NLA	460-00-4	6
1,2-Dichloroethane-d4 (S)	102	%		0.81	06/23/00	NLA	17060-07-0	

GC/MS Semivolatiles

Volatile Organics | Method: EPA 8270 | Prep Method: EPA 3550 Sonication

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Phone: 913.599.5665
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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556606 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX13 MIDDLE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Phenol	ND	ug/kg	4100	9.99	06/27/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	4100	9.99	06/27/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	4100	9.99	06/27/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	4100	9.99	06/27/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	4100	9.99	06/27/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	4100	9.99	06/27/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	4100	9.99	06/27/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	4100	9.99	06/27/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	20000	9.99	06/27/00	WAW	65-85-0	
Naphthalene	7800	ug/kg	4100	9.99	06/27/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	4100	9.99	06/27/00	WAW	87-68-3	
2-Methylnaphthalene	22000	ug/kg	4100	9.99	06/27/00	WAW	91-57-6	
Acenaphthene	1100	ug/kg	4100	9.99	06/27/00	WAW	83-32-9	2
[illegible]-benzofuran	860	ug/kg	4100	9.99	06/27/00	WAW	132-64-9	2
[illegible]-Dinitrotoluene	ND	ug/kg	4100	9.99	06/27/00	WAW	121-14-2	
Fluorene	1300	ug/kg	4100	9.99	06/27/00	WAW	86-73-7	2
N-Nitrosodiphenylamine	ND	ug/kg	4100	9.99	06/27/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	4100	9.99	06/27/00	WAW	118-74-1	
Phenanthrene	4000	ug/kg	4100	9.99	06/27/00	WAW	85-01-8	2
Anthracene	ND	ug/kg	4100	9.99	06/27/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	4100	9.99	06/27/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	4100	9.99	06/27/00	WAW	206-44-0	
Pyrene	1000	ug/kg	4100	9.99	06/27/00	WAW	129-00-0	2
Butylbenzylphthalate	ND	ug/kg	4100	9.99	06/27/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	4100	9.99	06/27/00	WAW	56-55-3	
Chrysene	ND	ug/kg	4100	9.99	06/27/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	1900	ug/kg	4100	9.99	06/27/00	WAW	117-81-7	1,2
3-Methylphenol	ND	ug/kg	4100	9.99	06/27/00	WAW	108-39-4	
Pyridine	ND	ug/kg	4100	9.99	06/27/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	100	%		0.81	06/27/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	88	%		0.81	06/27/00	WAW	321-60-8	
Terphenyl-d14 (S)	88	%		0.81	06/27/00	WAW	1718-51-0	
Phenol-d6 (S)	77	%		0.81	06/27/00	WAW	13127-88-3	
2-Fluorophenol (S)	55	%		0.81	06/27/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	84	%		0.81	06/27/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564931 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX6 BASE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil		Method: EPA 9030A			Prep Method: EPA 9030A			
Sulfide	29.6	mg/kg	6.16	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture		Method:			Prep Method:			
Percent Moisture	18.8	%		0.81	06/16/00	RLEE		
GC Semivolatiles								
Organochlorine Pesticides, GC		Method: EPA 8081A			Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	24	9.94	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	16	9.94	06/20/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	12	9.94	06/20/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	40	9.94	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	83	%		0.81	06/20/00	JLO	2051-24-3	4
Tetrachloro-meta-xylene (S)	61	%		0.81	06/20/00	JLO	877-09-8	
Date Extracted					06/15/00			
PCBs in Soil by 8082		Method: EPA 8082			Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	40	0.99	07/02/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	74	%		0.81	07/02/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	73	%		0.81	07/02/00	JLO	877-09-8	
Date Extracted					06/15/00			
Chlorinated Herbicides		Method: EPA 8151			Prep Method: EPA 3550			
2,4-D	ND	ug/kg	49	1.00	06/24/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	18	1.00	06/24/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	83	%		0.81	06/24/00	JLO		
Date Extracted					06/20/00			
GC/MS Volatiles								
GC/MS VOCs by 8260		Method: EPA 8260			Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	31	5.00	06/20/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	31	5.00	06/20/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	31	5.00	06/20/00	NLA	75-00-3	
Methylene Chloride	8.5	ug/kg	31	5.00	06/20/00	NLA	75-09-2	1,3
1,1-Dichloroethene	ND	ug/kg	31	5.00	06/20/00	NLA	75-35-4	
trans-1,2-Dichloroethene	ND	ug/kg	31	5.00	06/20/00	NLA	156-60-5	

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564931 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX6 BASE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	31	5.00	06/20/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	31	5.00	06/20/00	NLA	71-55-6	
Benzene	ND	ug/kg	31	5.00	06/20/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	31	5.00	06/20/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	31	5.00	06/20/00	NLA	79-01-6	
Toluene	9.2	ug/kg	31	5.00	06/20/00	NLA	108-88-3	1
Tetrachloroethene	ND	ug/kg	31	5.00	06/20/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	31	5.00	06/20/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	31	5.00	06/20/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	31	5.00	06/20/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	31	5.00	06/20/00	NLA	95-47-6	
Styrene	ND	ug/kg	31	5.00	06/20/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	31	5.00	06/20/00	NLA	79-34-5	
[illegible]achlorobutadiene	ND	ug/kg	31	5.00	06/20/00	NLA	87-68-3	
Acetone	49	ug/kg	120	5.00	06/20/00	NLA	67-64-1	1,3
2-Butanone	ND	ug/kg	62	5.00	06/20/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	62	5.00	06/20/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	62	5.00	06/20/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	620	5.00	06/20/00	NLA	591-78-6	
Xylene (Total)	46	ug/kg	31	5.00	06/20/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	310	5.00	06/20/00	NLA	123-91-1	
Dibromofluoromethane (S)	91	%		0.81	06/20/00	NLA	1868-53-7	
Toluene-d8 (S)	90	%		0.81	06/20/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	98	%		0.81	06/20/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%		0.81	06/20/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	410	1.00	06/28/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	410	1.00	06/28/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	410	1.00	06/28/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	410	1.00	06/28/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	410	1.00	06/28/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	410	1.00	06/28/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	410	1.00	06/28/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	410	1.00	06/28/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	2000	1.00	06/28/00	WAW	65-85-0
[illegible]phthalene	ND	ug/kg	410	1.00	06/28/00	WAW	91-20-3
[illegible]achlorobutadiene	ND	ug/kg	410	1.00	06/28/00	WAW	87-68-3

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DATE: 07/27/00

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564931 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX6 BASE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	ND	ug/kg	410	1.00	06/28/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	410	1.00	06/28/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	410	1.00	06/28/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	410	1.00	06/28/00	WAW	121-14-2	
Fluorene	ND	ug/kg	410	1.00	06/28/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	1.00	06/28/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	1.00	06/28/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	410	1.00	06/28/00	WAW	85-01-8	
Anthracene	ND	ug/kg	410	1.00	06/28/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	410	1.00	06/28/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	410	1.00	06/28/00	WAW	206-44-0	
Pyrene	ND	ug/kg	410	1.00	06/28/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	410	1.00	06/28/00	WAW	85-68-7	
ızo(a)anthracene	ND	ug/kg	410	1.00	06/28/00	WAW	56-55-3	
..rysene	ND	ug/kg	410	1.00	06/28/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	410	1.00	06/28/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	410	1.00	06/28/00	WAW	108-39-4	
Pyridine	ND	ug/kg	410	1.00	06/28/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	65	%		0.81	06/28/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	68	%		0.81	06/28/00	WAW	321-60-8	
Terphenyl-d14 (S)	79	%		0.81	06/28/00	WAW	1718-51-0	
Phenol-d6 (S)	69	%		0.81	06/28/00	WAW	13127-88-3	
2-Fluorophenol (S)	74	%		0.81	06/28/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	72	%		0.81	06/28/00	WAW	118-79-6	
Date Extracted					06/22/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556614 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX14 BASE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	17300	mg/kg	8.85	0.94	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	5.9	0.94	06/27/00	CAS	7440-36-0	
Arsenic	16.2	mg/kg	10	0.94	06/27/00	CAS	7440-38-2	
Barium	281	mg/kg	0.472	0.94	06/27/00	CAS	7440-39-3	1
Beryllium	0.787	mg/kg	0.118	0.94	06/27/00	CAS	7440-41-7	
Cadmium	0.223	mg/kg	0.59	0.94	06/27/00	CAS	7440-43-9	1,2
Calcium	3760	mg/kg	11.8	0.94	06/27/00	CAS	7440-70-2	
Chromium	19.7	mg/kg	0.826	0.94	06/27/00	CAS	7440-47-3	
Cobalt	12.5	mg/kg	0.826	0.94	06/27/00	CAS	7440-48-4	1
Copper	24.6	mg/kg	1.18	0.94	06/27/00	CAS	7440-50-8	
Iron	23800	mg/kg	4.72	0.94	06/27/00	CAS	7439-89-6	1
Lead	14.3	mg/kg	5.9	0.94	06/27/00	CAS	7439-92-1	1
Magnesium	4520	mg/kg	5.9	0.94	06/27/00	CAS	7439-95-4	1
Manganese	772	mg/kg	0.826	0.94	06/27/00	CAS	7439-96-5	1
Nickel	26.4	mg/kg	3.54	0.94	06/27/00	CAS	7440-02-0	1
Potassium	2110	mg/kg	118	0.94	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.826	0.94	06/27/00	CAS	7440-22-4	
Vanadium	44.7	mg/kg	1.42	0.94	06/27/00	CAS	7440-62-2	1
Zinc	72.8	mg/kg	11.8	0.94	06/27/00	CAS	7440-66-6	1
Tin	1.08	mg/kg	29.5	0.94	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.194	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.559	0.88	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.568	mg/kg	0.126	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.26	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556614 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX14 BASE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	ND	mg/kg	6.31	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	20.8	%		0.79	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	25	10.0	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	17	10.0	06/20/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	13	10.0	06/20/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	42	10.0	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	71	%		0.79	06/20/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	63	%		0.79	06/20/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	41	1.00	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	42	%		0.79	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	37	%		0.79	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	11	ug/kg	50	1.00	06/20/00	JLO	94-75-7	2
2,4,5-TP(Silvex)	1.2	ug/kg	19	1.00	06/20/00	JLO	93-72-1	2
Dichlorophenyl Acetic Acid (S)	75	%		0.79	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6.3	1.00	06/23/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	6.3	1.00	06/23/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6.3	1.00	06/23/00	NLA	75-00-3	
Methylene Chloride	ND	ug/kg	6.3	1.00	06/23/00	NLA	75-09-2	
1,1-Dichloroethene	ND	ug/kg	6.3	1.00	06/23/00	NLA	75-35-4	
trans-1,2-Dichloroethene	ND	ug/kg	6.3	1.00	06/23/00	NLA	156-60-5	

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564949 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX12 MIDDLE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	13200	mg/kg	8.99	0.99	06/30/00	JAH	7429-90-5	
Antimony	ND	mg/kg	5.99	0.99	06/30/00	JAH	7440-36-0	
Arsenic	10.3	mg/kg	10.2	0.99	06/30/00	JAH	7440-38-2	
Barium	226	mg/kg	0.479	0.99	06/30/00	JAH	7440-39-3	
Beryllium	0.685	mg/kg	0.12	0.99	06/30/00	JAH	7440-41-7	
Cadmium	ND	mg/kg	0.599	0.99	06/30/00	JAH	7440-43-9	
Calcium	18900	mg/kg	12	0.99	06/30/00	JAH	7440-70-2	
Chromium	13.7	mg/kg	0.839	0.99	06/30/00	JAH	7440-47-3	
Cobalt	8.42	mg/kg	0.839	0.99	06/30/00	JAH	7440-48-4	
per	27.7	mg/kg	1.2	0.99	06/30/00	JAH	7440-50-8	
ıron	16800	mg/kg	4.79	0.99	06/30/00	JAH	7439-89-6	
Lead	19.8	mg/kg	5.99	0.99	06/30/00	JAH	7439-92-1	
Magnesium	2760	mg/kg	5.99	0.99	06/30/00	JAH	7439-95-4	
Manganese	122	mg/kg	0.839	0.99	06/30/00	JAH	7439-96-5	
Nickel	25.6	mg/kg	3.6	0.99	06/30/00	JAH	7440-02-0	
Potassium	1440	mg/kg	120	0.99	06/30/00	JAH	7440-09-7	
Silver	ND	mg/kg	0.839	0.99	06/30/00	JAH	7440-22-4	
Vanadium	28.8	mg/kg	1.44	0.99	06/30/00	JAH	7440-62-2	
Zinc	206	mg/kg	12	0.99	06/30/00	JAH	7440-66-6	
Tin	ND	mg/kg	30	0.99	06/30/00	JAH	7440-31-5	
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.186	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.593	0.98	06/27/00	CAS	7440-28-0	
Date Digested					06/20/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.121	mg/kg	0.121	0.10	06/22/00	JKS	18540-29-9	
C· ·ide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
·nide	ND	mg/kg	1.21	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564949 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX12 MIDDLE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil		Method: EPA 9030A			Prep Method: EPA 9030A			
Sulfide	24.2	mg/kg	6.05	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture		Method:			Prep Method:			
Percent Moisture	17.4	%		0.83	06/16/00	RLEE		
GC Semivolatiles								
Organochlorine Pesticides, GC		Method: EPA 8081A			Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	24	9.94	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	16	9.94	06/20/00	JLO	58-89-9	
[illegible]otachlor	ND	ug/kg	12	9.94	06/20/00	JLO	76-44-8	
[illegible]eptachlor Epoxide	ND	ug/kg	40	9.94	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	84	%		0.83	06/20/00	JLO	2051-24-3	4
Tetrachloro-meta-xylene (S)	26	%		0.83	06/20/00	JLO	877-09-8	
Date Extracted					06/15/00			
PCBs in Soil by 8082		Method: EPA 8082			Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	400	9.94	07/02/00	JLO	11096-82-5	5
Decachlorobiphenyl (S)	81	%		0.83	07/02/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	86	%		0.83	07/02/00	JLO	877-09-8	
Date Extracted					06/15/00			
Chlorinated Herbicides		Method: EPA 8151			Prep Method: EPA 3550			
2,4-D	ND	ug/kg	48	1.00	06/24/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	18	1.00	06/24/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	80	%		0.83	06/24/00	JLO		
Date Extracted					06/20/00			
GC/MS Volatiles								
GC/MS VOCs by 8260		Method: EPA 8260			Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	12	2.00	06/22/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	12	2.00	06/22/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	12	2.00	06/22/00	NLA	75-00-3	
Methylene Chloride	94	ug/kg	12	2.00	06/22/00	NLA	75-09-2	3
[illegible] 1-Dichloroethene	ND	ug/kg	12	2.00	06/22/00	NLA	75-35-4	
[illegible]ns-1,2-Dichloroethene	ND	ug/kg	12	2.00	06/22/00	NLA	156-60-5	

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564949 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX12 MIDDLE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	12	2.00	06/22/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	12	2.00	06/22/00	NLA	71-55-6	
Benzene	ND	ug/kg	12	2.00	06/22/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	12	2.00	06/22/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	12	2.00	06/22/00	NLA	79-01-6	
Toluene	2.4	ug/kg	12	2.00	06/22/00	NLA	108-88-3	1
Tetrachloroethene	ND	ug/kg	12	2.00	06/22/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	12	2.00	06/22/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	12	2.00	06/22/00	NLA	630-20-6	
Ethylbenzene	3.9	ug/kg	12	2.00	06/22/00	NLA	100-41-4	1
O-Xylene (1,2-Dimethylbenzene)	10	ug/kg	12	2.00	06/22/00	NLA	95-47-6	1
Styrene	ND	ug/kg	12	2.00	06/22/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	12	2.00	06/22/00	NLA	79-34-5	
xachlorobutadiene	ND	ug/kg	12	2.00	06/22/00	NLA	87-68-3	
Acetone	210	ug/kg	48	2.00	06/22/00	NLA	67-64-1	3
2-Butanone	40	ug/kg	24	2.00	06/22/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	24	2.00	06/22/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	24	2.00	06/22/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	240	2.00	06/22/00	NLA	591-78-6	
Xylene (Total)	37	ug/kg	12	2.00	06/22/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	120	2.00	06/22/00	NLA	123-91-1	
Dibromofluoromethane (S)	100	%		0.83	06/22/00	NLA	1868-53-7	
Toluene-d8 (S)	100	%		0.83	06/22/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	101	%		0.83	06/22/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%		0.83	06/22/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	400	1.00	06/28/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	400	1.00	06/28/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	400	1.00	06/28/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	400	1.00	06/28/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	400	1.00	06/28/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	400	1.00	06/28/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	400	1.00	06/28/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	400	1.00	06/28/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	1900	1.00	06/28/00	WAW	65-85-0	
''phthalene	250	ug/kg	400	1.00	06/28/00	WAW	91-20-3	1
xachlorobutadiene	ND	ug/kg	400	1.00	06/28/00	WAW	87-68-3	

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564949 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX12 MIDDLE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	610	ug/kg	400	1.00	06/28/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	400	1.00	06/28/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	400	1.00	06/28/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	400	1.00	06/28/00	WAW	121-14-2	
Fluorene	120	ug/kg	400	1.00	06/28/00	WAW	86-73-7	1
N-Nitrosodiphenylamine	ND	ug/kg	400	1.00	06/28/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	400	1.00	06/28/00	WAW	118-74-1	
Phenanthrene	410	ug/kg	400	1.00	06/28/00	WAW	85-01-8	
Anthracene	ND	ug/kg	400	1.00	06/28/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	400	1.00	06/28/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	400	1.00	06/28/00	WAW	206-44-0	
Pyrene	120	ug/kg	400	1.00	06/28/00	WAW	129-00-0	1
Butylbenzylphthalate	ND	ug/kg	400	1.00	06/28/00	WAW	85-68-7	
nzo(a)anthracene	ND	ug/kg	400	1.00	06/28/00	WAW	56-55-3	
nrysene	ND	ug/kg	400	1.00	06/28/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	250	ug/kg	400	1.00	06/28/00	WAW	117-81-7	1
3-Methylphenol	ND	ug/kg	400	1.00	06/28/00	WAW	108-39-4	
Pyridine	ND	ug/kg	400	1.00	06/28/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	72	%		0.83	06/28/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	76	%		0.83	06/28/00	WAW	321-60-8	
Terphenyl-d14 (S)	67	%		0.83	06/28/00	WAW	1718-51-0	
Phenol-d6 (S)	80	%		0.83	06/28/00	WAW	13127-88-3	
2-Fluorophenol (S)	79	%		0.83	06/28/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	72	%		0.83	06/28/00	WAW	118-79-6	
Date Extracted					06/22/00			

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564956 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX12 BASE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	13100	mg/kg	8.85	0.94	06/30/00	JAH	7429-90-5	
Antimony	ND	mg/kg	5.9	0.94	06/30/00	JAH	7440-36-0	
Arsenic	10.3	mg/kg	10	0.94	06/30/00	JAH	7440-38-2	
Barium	238	mg/kg	0.472	0.94	06/30/00	JAH	7440-39-3	
Beryllium	0.688	mg/kg	0.118	0.94	06/30/00	JAH	7440-41-7	
Cadmium	0.113	mg/kg	0.59	0.94	06/30/00	JAH	7440-43-9	1
Calcium	3500	mg/kg	11.8	0.94	06/30/00	JAH	7440-70-2	
Chromium	15.4	mg/kg	0.826	0.94	06/30/00	JAH	7440-47-3	
Cobalt	12.1	mg/kg	0.826	0.94	06/30/00	JAH	7440-48-4	
Copper	24.1	mg/kg	1.18	0.94	06/30/00	JAH	7440-50-8	
Iron	18100	mg/kg	4.72	0.94	06/30/00	JAH	7439-89-6	
Lead	18.8	mg/kg	5.9	0.94	06/30/00	JAH	7439-92-1	
Magnesium	3690	mg/kg	5.9	0.94	06/30/00	JAH	7439-95-4	
Manganese	352	mg/kg	0.826	0.94	06/30/00	JAH	7439-96-5	
Nickel	25.9	mg/kg	3.54	0.94	06/30/00	JAH	7440-02-0	
Potassium	1610	mg/kg	118	0.94	06/30/00	JAH	7440-09-7	
Silver	ND	mg/kg	0.826	0.94	06/30/00	JAH	7440-22-4	
Vanadium	33	mg/kg	1.42	0.94	06/30/00	JAH	7440-62-2	
Zinc	110	mg/kg	11.8	0.94	06/30/00	JAH	7440-66-6	
Tin	ND	mg/kg	29.5	0.94	06/30/00	JAH	7440-31-5	
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.194	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.601	0.95	06/27/00	CAS	7440-28-0	
Date Digested					06/20/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.151	mg/kg	0.126	0.10	06/22/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.26	1.00	06/20/00	JKS	57-12-5	

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Pace Sample No: 603564956 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX12 BASE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	30.3	mg/kg	6.31	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	20.8	%		0.79	06/16/00	RLEE		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	25	9.83	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	16	9.83	06/20/00	JLO	58-89-9	
tachlor	ND	ug/kg	12	9.83	06/20/00	JLO	76-44-8	
heptachlor Epoxide	ND	ug/kg	41	9.83	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	71	%		0.79	06/20/00	JLO	2051-24-3	6
Tetrachloro-meta-xylene (S)	54	%		0.79	06/20/00	JLO	877-09-8	
Date Extracted					06/15/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	410	9.83	07/02/00	JLO	11096-82-5	5
Decachlorobiphenyl (S)	89	%		0.79	07/02/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	101	%		0.79	07/02/00	JLO	877-09-8	
Date Extracted					06/15/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	50	1.00	06/24/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	19	1.00	06/24/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	64	%		0.79	06/24/00	JLO		
Date Extracted					06/20/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	190	ug/kg	790	125	06/22/00	NLA	74-87-3	1
Vinyl Chloride	ND	ug/kg	790	125	06/22/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	790	125	06/22/00	NLA	75-00-3	
Methylene Chloride	500	ug/kg	790	125	06/22/00	NLA	75-09-2	1,3
1-Dichloroethene	ND	ug/kg	790	125	06/22/00	NLA	75-35-4	
ns-1,2-Dichloroethene	ND	ug/kg	790	125	06/22/00	NLA	156-60-5	

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Pace Sample No: 603564956 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX12 BASE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	790	125	06/22/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	790	125	06/22/00	NLA	71-55-6	
Benzene	ND	ug/kg	790	125	06/22/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	790	125	06/22/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	790	125	06/22/00	NLA	79-01-6	
Toluene	220	ug/kg	790	125	06/22/00	NLA	108-88-3	1
Tetrachloroethene	ND	ug/kg	790	125	06/22/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	790	125	06/22/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	790	125	06/22/00	NLA	630-20-6	
Ethylbenzene	260	ug/kg	790	125	06/22/00	NLA	100-41-4	1
O-Xylene (1,2-Dimethylbenzene)	900	ug/kg	790	125	06/22/00	NLA	95-47-6	
Styrene	ND	ug/kg	790	125	06/22/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	790	125	06/22/00	NLA	79-34-5	
Hexachlorobutadiene	ND	ug/kg	790	125	06/22/00	NLA	87-68-3	
Acetone	5000	ug/kg	3200	125	06/22/00	NLA	67-64-1	3
2-Butanone	18000	ug/kg	1600	125	06/22/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	1600	125	06/22/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	1600	125	06/22/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	16000	125	06/22/00	NLA	591-78-6	
Xylene (Total)	3000	ug/kg	790	125	06/22/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	7900	125	06/22/00	NLA	123-91-1	
Dibromofluoromethane (S)	98	%		0.79	06/22/00	NLA	1868-53-7	
Toluene-d8 (S)	99	%		0.79	06/22/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	102	%		0.79	06/22/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%		0.79	06/22/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	2100	5.00	06/28/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	2100	5.00	06/28/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	2100	5.00	06/28/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	2100	5.00	06/28/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	2100	5.00	06/28/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	2100	5.00	06/28/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	2100	5.00	06/28/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	2100	5.00	06/28/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	10000	5.00	06/28/00	WAW	65-85-0
Naphthalene	6900	ug/kg	2100	5.00	06/28/00	WAW	91-20-3
Hexachlorobutadiene	ND	ug/kg	2100	5.00	06/28/00	WAW	87-68-3

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Client Project ID: ISC-KC RFI

Pace Sample No: 603564956 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX12 BASE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	3200	ug/kg	2100	5.00	06/28/00	WAW	91-57-6	
Acenaphthene	1500	ug/kg	2100	5.00	06/28/00	WAW	83-32-9	1
Dibenzofuran	1100	ug/kg	2100	5.00	06/28/00	WAW	132-64-9	1
2,4-Dinitrotoluene	ND	ug/kg	2100	5.00	06/28/00	WAW	121-14-2	
Fluorene	1300	ug/kg	2100	5.00	06/28/00	WAW	86-73-7	1
N-Nitrosodiphenylamine	ND	ug/kg	2100	5.00	06/28/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	2100	5.00	06/28/00	WAW	118-74-1	
Phenanthrene	5900	ug/kg	2100	5.00	06/28/00	WAW	85-01-8	
Anthracene	980	ug/kg	2100	5.00	06/28/00	WAW	120-12-7	1
Di-n-butylphthalate	ND	ug/kg	2100	5.00	06/28/00	WAW	84-74-2	
Fluoranthene	3100	ug/kg	2100	5.00	06/28/00	WAW	206-44-0	
Pyrene	2600	ug/kg	2100	5.00	06/28/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	2100	5.00	06/28/00	WAW	85-68-7	
›zo(a)anthracene	660	ug/kg	2100	5.00	06/28/00	WAW	56-55-3	1,3
›nrysene	570	ug/kg	2100	5.00	06/28/00	WAW	218-01-9	1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	2100	5.00	06/28/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	2100	5.00	06/28/00	WAW	108-39-4	
Pyridine	ND	ug/kg	2100	5.00	06/28/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	81	%		0.79	06/28/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	86	%		0.79	06/28/00	WAW	321-60-8	
Terphenyl-d14 (S)	93	%		0.79	06/28/00	WAW	1718-51-0	
Phenol-d6 (S)	87	%		0.79	06/28/00	WAW	13127-88-3	
2-Fluorophenol (S)	94	%		0.79	06/28/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	84	%		0.79	06/28/00	WAW	118-79-6	
Date Extracted					06/22/00			

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Phone: 913.599.5665
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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564964 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX14 MIDDLE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	15600	mg/kg	8.39	0.94	06/30/00	JAH	7429-90-5	
Antimony	ND	mg/kg	5.59	0.94	06/30/00	JAH	7440-36-0	
Arsenic	11	mg/kg	9.5	0.94	06/30/00	JAH	7440-38-2	
Barium	249	mg/kg	0.447	0.94	06/30/00	JAH	7440-39-3	
Beryllium	0.727	mg/kg	0.112	0.94	06/30/00	JAH	7440-41-7	
Cadmium	ND	mg/kg	0.559	0.94	06/30/00	JAH	7440-43-9	
Calcium	2440	mg/kg	11.2	0.94	06/30/00	JAH	7440-70-2	
Chromium	15.8	mg/kg	0.783	0.94	06/30/00	JAH	7440-47-3	
Cobalt	11	mg/kg	0.783	0.94	06/30/00	JAH	7440-48-4	
pper	17.4	mg/kg	1.12	0.94	06/30/00	JAH	7440-50-8	
ıron	20000	mg/kg	4.47	0.94	06/30/00	JAH	7439-89-6	
Lead	12	mg/kg	5.59	0.94	06/30/00	JAH	7439-92-1	
Magnesium	3260	mg/kg	5.59	0.94	06/30/00	JAH	7439-95-4	
Manganese	837	mg/kg	0.783	0.94	06/30/00	JAH	7439-96-5	
Nickel	21.9	mg/kg	3.35	0.94	06/30/00	JAH	7440-02-0	
Potassium	1650	mg/kg	112	0.94	06/30/00	JAH	7440-09-7	
Silver	ND	mg/kg	0.783	0.94	06/30/00	JAH	7440-22-4	
Vanadium	33.5	mg/kg	1.34	0.94	06/30/00	JAH	7440-62-2	
Zinc	57.7	mg/kg	11.2	0.94	06/30/00	JAH	7440-66-6	
Tin	ND	mg/kg	28	0.94	06/30/00	JAH	7440-31-5	
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.184	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.554	0.93	06/27/00	CAS	7440-28-0	
Date Digested					06/20/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.299	mg/kg	0.12	0.10	06/22/00	JKS	18540-29-9	
ᶜ ᵓide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
,anide	ND	mg/kg	1.2	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564964 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX14 MIDDLE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	33.5	mg/kg	5.98	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	16.4	%		0.84	06/16/00	RLEE		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	7.8	ug/kg	2.3	0.99	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.6	0.99	06/20/00	JLO	58-89-9	
Methoxychlor	ND	ug/kg	1.2	0.99	06/20/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	3.9	0.99	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	79	%		0.84	06/20/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	46	%		0.84	06/20/00	JLO	877-09-8	
Date Extracted					06/15/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	39	0.99	07/02/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	79	%		0.84	07/02/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	76	%		0.84	07/02/00	JLO	877-09-8	
Date Extracted					06/15/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	48	1.00	06/24/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	18	1.00	06/24/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	65	%		0.84	06/24/00	JLO		
Date Extracted					06/20/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6	1.00	06/20/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	6	1.00	06/20/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6	1.00	06/20/00	NLA	75-00-3	
Methylene Chloride	1.9	ug/kg	6	1.00	06/20/00	NLA	75-09-2	1,3
1,1-Dichloroethene	ND	ug/kg	6	1.00	06/20/00	NLA	75-35-4	
trans-1,2-Dichloroethene	ND	ug/kg	6	1.00	06/20/00	NLA	156-60-5	

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564964 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX14 MIDDLE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	6	1.00	06/20/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	6	1.00	06/20/00	NLA	71-55-6	
Benzene	3.7	ug/kg	6	1.00	06/20/00	NLA	71-43-2	1
1,2-Dichloroethane	ND	ug/kg	6	1.00	06/20/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	6	1.00	06/20/00	NLA	79-01-6	
Toluene	ND	ug/kg	6	1.00	06/20/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	6	1.00	06/20/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6	1.00	06/20/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6	1.00	06/20/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	6	1.00	06/20/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	6	1.00	06/20/00	NLA	95-47-6	
Styrene	ND	ug/kg	6	1.00	06/20/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6	1.00	06/20/00	NLA	79-34-5	
‹achlorobutadiene	ND	ug/kg	6	1.00	06/20/00	NLA	87-68-3	
Acetone	24	ug/kg	24	1.00	06/20/00	NLA	67-64-1	3
2-Butanone	ND	ug/kg	12	1.00	06/20/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	12	1.00	06/20/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	12	1.00	06/20/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	120	1.00	06/20/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	6	1.00	06/20/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	60	1.00	06/20/00	NLA	123-91-1	
Dibromofluoromethane (S)	86	%		0.84	06/20/00	NLA	1868-53-7	
Toluene-d8 (S)	90	%		0.84	06/20/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	92	%		0.84	06/20/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%		0.84	06/20/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	390	1.00	06/28/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	390	1.00	06/28/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	390	1.00	06/28/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	390	1.00	06/28/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	390	1.00	06/28/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	390	1.00	06/28/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	390	1.00	06/28/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	390	1.00	06/28/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	1900	1.00	06/28/00	WAW	65-85-0
‹ohthalene	ND	ug/kg	390	1.00	06/28/00	WAW	91-20-3
‹achlorobutadiene	ND	ug/kg	390	1.00	06/28/00	WAW	87-68-3

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564964 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX14 MIDDLE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	ND	ug/kg	390	1.00	06/28/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	390	1.00	06/28/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	390	1.00	06/28/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	390	1.00	06/28/00	WAW	121-14-2	
Fluorene	ND	ug/kg	390	1.00	06/28/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	390	1.00	06/28/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	390	1.00	06/28/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	390	1.00	06/28/00	WAW	85-01-8	
Anthracene	ND	ug/kg	390	1.00	06/28/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	390	1.00	06/28/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	390	1.00	06/28/00	WAW	206-44-0	
Pyrene	ND	ug/kg	390	1.00	06/28/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	390	1.00	06/28/00	WAW	85-68-7	
nzo(a)anthracene	ND	ug/kg	390	1.00	06/28/00	WAW	56-55-3	
Chrysene	ND	ug/kg	390	1.00	06/28/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	390	1.00	06/28/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	390	1.00	06/28/00	WAW	108-39-4	
Pyridine	ND	ug/kg	390	1.00	06/28/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	63	%		0.84	06/28/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	66	%		0.84	06/28/00	WAW	321-60-8	
Terphenyl-d14 (S)	89	%		0.84	06/28/00	WAW	1718-51-0	
Phenol-d6 (S)	72	%		0.84	06/28/00	WAW	13127-88-3	
2-Fluorophenol (S)	64	%		0.84	06/28/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	71	%		0.84	06/28/00	WAW	118-79-6	
Date Extracted					06/22/00			

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
(S)	Surrogate
App. DF	Applied Dilution Factor
[1]	Detected but below the PRL; therefore, result is an estimated concentration (CLP J-Flag).
[2]	This analysis had low internal standard area recoveries. The sample was reanalyzed with similar results.
[3]	Analyte is found in the associated blank as well as in the sample (CLP B-Flag).
[4]	The sample was diluted due to the presence of high levels of non_target analytes.
[5]	Elevated quantitation limits resulting from matrix interference.
[6]	The sample was diluted due to the presence of high levels of non_target analytes.

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85117
QC Batch Method: EPA 3550
Analysis Method: EPA 8081A
Analysis Description: Organochlorine Pesticides, GC
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

METHOD BLANK: 603568528
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
beta-BHC	ug/kg	ND	2	
gamma-BHC (Lindane)	ug/kg	ND	1.3	
Heptachlor	ug/kg	ND	0.99	
Heptachlor Epoxide	ug/kg	ND	3.3	
Decachlorobiphenyl (S)	%	66		
Tetrachloro-meta-xylene (S)	%	68		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603568536 603568544

Parameter	Units	603564923	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
gamma-BHC (Lindane)	ug/kg	0	20.65	15.09	73.1	15.67	76.8	5	
Heptachlor	ug/kg	0.2939	20.65	14.97	71.1	15.43	74.2	4	
Decachlorobiphenyl (S)					76		83		
Tetrachloro-meta-xylene (S)					61		63		

LABORATORY CONTROL SAMPLE: 603568551

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
beta-BHC	ug/kg	16.67	14.70	88.2	
gamma-BHC (Lindane)	ug/kg	16.67	14.48	86.9	
Heptachlor	ug/kg	16.67	14.05	84.3	

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QUALITY CONTROL DATA

DATE: 07/27/00

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

LABORATORY CONTROL SAMPLE: 603568551

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Heptachlor Epoxide	ug/kg	16.67	14.57	87.4	
Decachlorobiphenyl (S)				83	
Tetrachloro-meta-xylene (S)				79	

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QUALITY CONTROL DATA

DATE: 07/27/00

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85118
QC Batch Method: EPA 3550
Analysis Method: EPA 8082
Analysis Description: PCBs in Soil by 8082
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

METHOD BLANK: 603568569
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

ter	Units	Method Blank Result	PRL	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	ND	33	
Decachlorobiphenyl (S)	%	82		
Tetrachloro-meta-xylene (S)	%	82		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603569013 603569021

Parameter	Units	603564923	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	0	411	268.4	65.3	277.9	67.8	4	
Decachlorobiphenyl (S)					76		76		
Tetrachloro-meta-xylene (S)					88		73		

LABORATORY CONTROL SAMPLE: 603568593

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	333.3	272.6	81.8	
Decachlorobiphenyl (S)				83	
Tetrachloro-meta-xylene (S)				84	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85182
Analysis Method: EPA 8260
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

QC Batch Method: EPA 8260
Analysis Description: GC/MS VOCs by 8260

METHOD BLANK: 603600701
Associated Pace Samples:
603564949 603564956

ter	Units	Method Blank Result	PRL	Footnotes
Chloromethane	ug/kg	ND	5	
Vinyl Chloride	ug/kg	ND	5	
Chloroethane	ug/kg	ND	5	
Methylene Chloride	ug/kg	2.7	5	1
1,1-Dichloroethene	ug/kg	ND	5	
trans-1,2-Dichloroethene	ug/kg	ND	5	
cis-1,2-Dichloroethene	ug/kg	ND	5	
1,1,1-Trichloroethane	ug/kg	ND	5	
Benzene	ug/kg	ND	5	
1,2-Dichloroethane	ug/kg	ND	5	
Trichloroethene	ug/kg	ND	5	
Toluene	ug/kg	ND	5	
Tetrachloroethene	ug/kg	ND	5	
Chlorobenzene	ug/kg	ND	5	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5	
Ethylbenzene	ug/kg	ND	5	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	ND	5	
Styrene	ug/kg	ND	5	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5	
Hexachlorobutadiene	ug/kg	ND	5	
Acetone	ug/kg	19	20	1
2-Butanone	ug/kg	ND	10	
4-Methyl-2-Pentanone	ug/kg	ND	10	
Carbon Disulfide	ug/kg	ND	10	
none	ug/kg	ND	100	

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QUALITY CONTROL DATA

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

METHOD BLANK: 603600701
Associated Pace Samples:
603564949 603564956

Parameter	Units	Method Blank Result	PRL	Footnotes
Xylene (Total)	ug/kg	ND	5	
1,4-Dioxane (P-Dioxane)	ug/kg	ND	50	
Dibromofluoromethane (S)	%	99		
Toluene-d8 (S)	%	100		
4-Bromofluorobenzene (S)	%	98		
1,2-Dichloroethane-d4 (S)	%	116		

METHOD BLANK: 603600719
Associated Pace Samples:
603564923 603564931 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
Chloromethane	ug/kg	ND	5	
Vinyl Chloride	ug/kg	ND	5	
Chloroethane	ug/kg	ND	5	
Methylene Chloride	ug/kg	2.8	5	1
1,1-Dichloroethene	ug/kg	ND	5	
trans-1,2-Dichloroethene	ug/kg	ND	5	
cis-1,2-Dichloroethene	ug/kg	ND	5	
1,1,1-Trichloroethane	ug/kg	ND	5	
Benzene	ug/kg	ND	5	
1,2-Dichloroethane	ug/kg	ND	5	
Trichloroethene	ug/kg	ND	5	
Toluene	ug/kg	ND	5	
Tetrachloroethene	ug/kg	ND	5	
Chlorobenzene	ug/kg	ND	5	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5	
Ethylbenzene	ug/kg	ND	5	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	ND	5	
Styrene	ug/kg	ND	5	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5	
Hexachlorobutadiene	ug/kg	ND	5	
Acetone	ug/kg	6.4	20	1
2-[illegible]anone	ug/kg	ND	10	
4[illegible]yl-2-Pentanone	ug/kg	ND	10	

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QUALITY CONTROL DATA

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

METHOD BLANK: 603600719
Associated Pace Samples:
603564923 603564931 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
Carbon Disulfide	ug/kg	ND	10	
2-Hexanone	ug/kg	ND	100	
Xylene (Total)	ug/kg	ND	5	
1,4-Dioxane (P-Dioxane)	ug/kg	ND	50	
Dibromofluoromethane (S)	%	85		
Toluene-d8 (S)	%	93		
4-Bromofluorobenzene (S)	%	92		
1,2-Dichloroethane-d4 (S)	%	102		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603596180 603596198

cer	Units	603565557	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
1,1-Dichloroethene	ug/kg	0	50	50.95	102	52.39	105	3	
Benzene	ug/kg	0	50	55.89	112	56.24	112	1	
Trichloroethene	ug/kg	0	50	57.62	115	57.20	114	1	
Toluene	ug/kg	0	50	55.43	111	54.59	109	2	
Chlorobenzene	ug/kg	0	50	56.88	114	57.85	116	2	
Dibromofluoromethane (S)					80		79		
Toluene-d8 (S)					98		96		
4-Bromofluorobenzene (S)					95		94		

LABORATORY CONTROL SAMPLE: 603570912

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Chloromethane	ug/kg	50	53.17	106	
Vinyl Chloride	ug/kg	50	50.41	101	
Chloroethane	ug/kg	50	46.45	92.9	
Methylene Chloride	ug/kg	50	45.18	90.4	
1,1-Dichloroethene	ug/kg	50	54.30	109	
trans-1,2-Dichloroethene	ug/kg	50	53.98	108	
cis-1,2-Dichloroethene	ug/kg	50	53.28	107	
1,1,1-Trichloroethane	ug/kg	50	49.58	99.2	
Ben[illegible]ne	ug/kg	50	53.85	108	
1[illegible]chloroethane	ug/kg	50	54.77	110	

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QUALITY CONTROL DATA

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

LABORATORY CONTROL SAMPLE: 603570912

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Trichloroethene	ug/kg	50	51.67	103	
Toluene	ug/kg	50	53.27	107	
Tetrachloroethene	ug/kg	50	51.08	102	
Chlorobenzene	ug/kg	50	55.51	111	
1,1,1,2-Tetrachloroethane	ug/kg	50	51.82	104	
Ethylbenzene	ug/kg	50	56.66	113	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	50	56.24	112	
Styrene	ug/kg	50	54.01	108	
1,1,2,2-Tetrachloroethane	ug/kg	50	63.53	127	
Hexachlorobutadiene	ug/kg	50	47.67	95.3	
Dibromofluoromethane (S)				88	
Toluene-d8 (S)				96	
4-Bromofluorobenzene (S)				99	
1,2-Dichloroethane-d4 (S)				100	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85206
QC Batch Method:
Analysis Method:
Analysis Description: Percent Moisture
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

SAMPLE DUPLICATE: 603572389

Parameter	Units	603564923	Dup. Result	RPD	Footnotes
Percent Moisture	%	19.40	19.80	2	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85224
QC Batch Method: EPA 9030A
Analysis Method: EPA 9030A
Analysis Description: Sulfides in Waste, for Soil
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

METHOD BLANK: 603573155
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
Sulfide	mg/kg	ND	5	

MATRIX SPIKE: 603573163

Parameter	Units	603564923	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Sulfide	mg/kg	19.84	620.1	585.3	91.2	

LABORATORY CONTROL SAMPLE: 603573189

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Sulfide	mg/kg	500	485.0	97.0	

SAMPLE DUPLICATE: 603573171

Parameter	Units	603564923	Dup. Result	RPD	Footnotes
Sulfide	mg/kg	19.80	16.00	21	

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Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85402
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: Metals-Standard ICP, Soil
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

METHOD BLANK: 603581406
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

ter	Units	Method Blank Result	PRL	Footnotes
Aluminum	mg/kg	ND	7.43	
Antimony	mg/kg	ND	4.95	
Arsenic	mg/kg	ND	8.42	
Barium	mg/kg	ND	0.396	
Beryllium	mg/kg	ND	0.099	
Cadmium	mg/kg	ND	0.495	
Calcium	mg/kg	ND	9.9	
Chromium	mg/kg	ND	0.693	
Cobalt	mg/kg	ND	0.693	
Copper	mg/kg	ND	0.99	
Iron	mg/kg	ND	3.96	
Lead	mg/kg	ND	4.95	
Magnesium	mg/kg	ND	4.95	
Manganese	mg/kg	ND	0.693	
Nickel	mg/kg	ND	2.97	
Potassium	mg/kg	ND	99	
Silver	mg/kg	ND	0.693	
Vanadium	mg/kg	ND	1.19	
Zinc	mg/kg	ND	9.9	
Tin	mg/kg	ND	24.8	

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QUALITY CONTROL DATA

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603581422 603581430

Parameter	Units	603564923	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Aluminum	mg/kg	10230	1216	14630	362	15800	467	25	2
Antimony	mg/kg	0	121.6	30.41	25.0	30.24	25.4	2	
Arsenic	mg/kg	8.028	121.6	122.6	94.2	125.9	98.8	5	
Barium	mg/kg	125.8	121.6	190.2	53.0	217.4	76.9	37	3
Beryllium	mg/kg	0.9827	12.16	13.01	98.9	12.74	98.6	0	
Cadmium	mg/kg	0.005971	12.16	10.67	87.7	10.70	89.7	2	
Calcium	mg/kg	27280	1216	29980	222	30730	289	26	2
Chromium	mg/kg	15.83	121.6	136.9	99.6	135.7	100	1	
Cobalt	mg/kg	14.42	121.6	130.6	95.5	129.1	96.2	1	
Copper	mg/kg	31.52	121.6	144.2	92.7	154.7	103	11	
Iron	mg/kg	15840	1216	15190	-53.5	20880	423	258	2,3
Lead	mg/kg	8.377	121.6	120.7	92.4	122.1	95.3	3	
Magnesium	mg/kg	5303	1216	7144	151	6983	141	7	2
Manganese	mg/kg	208.6	121.6	336.4	105	382.1	146	32	3
[illegible]	mg/kg	37.46	121.6	154.5	96.2	156.8	100	4	
[illegible]ium	mg/kg	2567	1216	4627	170	4915	197	15	2
Silver	mg/kg	0	12.16	9.648	79.4	8.801	73.8	7	
Vanadium	mg/kg	7.594	121.6	118.4	91.2	117.9	92.5	1	
Zinc	mg/kg	24.77	121.6	127.9	84.8	128.4	86.9	2	
Tin	mg/kg	0	121.6	103.8	85.3	1008	845	163	

LABORATORY CONTROL SAMPLE: 603581414

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Aluminum	mg/kg	990.1	946.5	95.6	
Antimony	mg/kg	99.01	94.23	95.2	
Arsenic	mg/kg	99.01	94.11	95.1	
Barium	mg/kg	99.01	100.3	101	
Beryllium	mg/kg	9.901	9.940	100	
Cadmium	mg/kg	9.901	9.329	94.2	
Calcium	mg/kg	990.1	984.3	99.4	
Chromium	mg/kg	99.01	98.97	100	
Cobalt	mg/kg	99.01	98.96	100	
Copper	mg/kg	99.01	106.6	108	
Iron	mg/kg	990.1	996.3	101	
Lead	mg/kg	99.01	97.53	98.5	
Magnesium	mg/kg	990.1	952.2	96.2	
Manganese	mg/kg	99.01	99.08	100	
[illegible]	mg/kg	99.01	99.64	101	

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QUALITY CONTROL DATA

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

LABORATORY CONTROL SAMPLE: 603581414

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Potassium	mg/kg	990.1	969.2	97.9	
Silver	mg/kg	9.901	8.983	90.7	
Vanadium	mg/kg	99.01	98.73	99.7	
Zinc	mg/kg	99.01	90.80	91.7	
Tin	mg/kg	99.01	94.28	95.2	

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QUALITY CONTROL DATA

DATE: 07/27/00

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85404
QC Batch Method: EPA 3050
Analysis Method: EPA 7841
Analysis Description: Thallium, AAS Furnace
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

METHOD BLANK: 603581489
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
Thallium	mg/kg	ND	0.5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603581497 603581505

Parameter	Units	603564923	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Thallium	mg/kg	0.09830	4.770	4.148	84.9	4.376	92.3	8	

LABORATORY CONTROL SAMPLE: 603581513

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Thallium	mg/kg	3.922	3.668	93.5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556739 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX8 SURFACE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	6440	mg/kg	7.75	0.96	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	5.17	0.96	06/27/00	CAS	7440-36-0	
Arsenic	8.3	mg/kg	8.78	0.96	06/27/00	CAS	7440-38-2	2
Barium	127	mg/kg	0.413	0.96	06/27/00	CAS	7440-39-3	1
Beryllium	0.344	mg/kg	0.103	0.96	06/27/00	CAS	7440-41-7	
Cadmium	0.569	mg/kg	0.517	0.96	06/27/00	CAS	7440-43-9	1
Calcium	247000	mg/kg	10300	962	06/27/00	CAS	7440-70-2	7
Chromium	12.8	mg/kg	0.723	0.96	06/27/00	CAS	7440-47-3	
Cobalt	4.33	mg/kg	0.723	0.96	06/27/00	CAS	7440-48-4	1
Copper	16.2	mg/kg	1.03	0.96	06/27/00	CAS	7440-50-8	
Iron	8480	mg/kg	4.13	0.96	06/27/00	CAS	7439-89-6	1
Lead	137	mg/kg	5.17	0.96	06/27/00	CAS	7439-92-1	1
Magnesium	3650	mg/kg	5.17	0.96	06/27/00	CAS	7439-95-4	1
Manganese	364	mg/kg	0.723	0.96	06/27/00	CAS	7439-96-5	1
Nickel	12.2	mg/kg	3.1	0.96	06/27/00	CAS	7440-02-0	1
Potassium	1190	mg/kg	103	0.96	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.723	0.96	06/27/00	CAS	7440-22-4	
Vanadium	15	mg/kg	1.24	0.96	06/27/00	CAS	7440-62-2	1
Zinc	83.7	mg/kg	10.3	0.96	06/27/00	CAS	7440-66-6	1
Tin	0	mg/kg	25.8	0.96	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.165	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.488	0.91	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.204	mg/kg	0.107	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.07	1.00	06/20/00	JKS	57-12-5	

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QUALITY CONTROL DATA

DATE: 07/27/00

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85408
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: Mercury, Soil CVAAS
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

METHOD BLANK: 603581612
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
Mercury	mg/kg	ND	0.154	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603581638 603581646

Parameter	Units	603564923	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Mercury	mg/kg	0.01691	2.067	2.035	97.6	2.056	98.6	1	

LABORATORY CONTROL SAMPLE: 603581620

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Mercury	mg/kg	1.667	1.626	97.6	

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QUALITY CONTROL DATA

DATE: 07/27/00

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85435
QC Batch Method: EPA 9010A
Analysis Method: EPA 9010A
Analysis Description: Cyanide, Total, Soil
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

METHOD BLANK: 603582495
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
Cyanide	mg/kg	ND	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603582503 603582511

Parameter	Units	603564923	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Cyanide	mg/kg	0.2480	12.4	12.53	99.0	11.78	93.0	6	

LABORATORY CONTROL SAMPLE: 603582529

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Cyanide	mg/kg	10	9.600	96.0	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85460
QC Batch Method: EPA 3550
Analysis Method: EPA 8151
Analysis Description: Chlorinated Herbicides
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

METHOD BLANK: 603583675
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
2,4-D	ug/kg	ND	40	
2,4,5-TP(Silvex)	ug/kg	ND	15	
Dichlorophenyl Acetic Acid (S)	%	61		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603583691 603583709

Parameter	Units	603564923	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
2,4-D	ug/kg	3.294	411.2	197.1	47.1	156.5	37.2	23	4
2,4,5-TP(Silvex)	ug/kg	0	41.12	29.44	71.6	27.97	67.8	5	
Dichlorophenyl Acetic Acid (S)					79		84		

LABORATORY CONTROL SAMPLE: 603583683

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
2,4-D	ug/kg	333.3	198.8	59.6	
2,4,5-TP(Silvex)	ug/kg	33.33	28.02	84.1	
Dichlorophenyl Acetic Acid (S)				90	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85499
QC Batch Method: EPA 7196 Modified
Analysis Method: EPA 7196 Modified
Analysis Description: Chromium, Hexavalent, in Soil
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

METHOD BLANK: 603586132
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
Chromium, Hexavalent	mg/kg	ND	0.1	

MATRIX SPIKE: 603586140

Parameter	Units	603564923	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Chromium, Hexavalent	mg/kg	0.2108	1.240	1.153	76.0	

LABORATORY CONTROL SAMPLE: 603586165

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Chromium, Hexavalent	mg/kg	1.000	1.010	101	

SAMPLE DUPLICATE: 603586157

Parameter	Units	603564923	Dup. Result	RPD	Footnotes
Chromium, Hexavalent	mg/kg	0.2110	ND	NC	5

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85593
QC Batch Method: EPA 3550 Sonication
Analysis Method: EPA 8270
Analysis Description: Semivolatile Organics
Associated Pace Samples: 603564923 603564931 603564949 603564956 603564964

METHOD BLANK: 603590373
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
Phenol	ug/kg	ND	330	
1,4-Dichlorobenzene	ug/kg	ND	330	
1,2-Dichlorobenzene	ug/kg	ND	330	
2-Methylphenol	ug/kg	ND	330	
4-Methylphenol	ug/kg	ND	330	
Hexachloroethane	ug/kg	ND	330	
Nitrobenzene	ug/kg	ND	330	
2,4-Dimethylphenol	ug/kg	ND	330	
Benzoic Acid	ug/kg	ND	1600	
Naphthalene	ug/kg	ND	330	
Hexachlorobutadiene	ug/kg	ND	330	
2-Methylnaphthalene	ug/kg	ND	330	
Acenaphthene	ug/kg	ND	330	
Dibenzofuran	ug/kg	ND	330	
2,4-Dinitrotoluene	ug/kg	ND	330	
Fluorene	ug/kg	ND	330	
N-Nitrosodiphenylamine	ug/kg	ND	330	
Hexachlorobenzene	ug/kg	ND	330	
Phenanthrene	ug/kg	ND	330	
Anthracene	ug/kg	ND	330	
Di-n-butylphthalate	ug/kg	ND	330	
Fluoranthene	ug/kg	ND	330	
Pyrene	ug/kg	ND	330	
Butylbenzylphthalate	ug/kg	ND	330	
B a)anthracene	ug/kg	ND	330	

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QUALITY CONTROL DATA

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

METHOD BLANK: 603590373
Associated Pace Samples:
603564923 603564931 603564949 603564956 603564964

Parameter	Units	Method Blank Result	PRL	Footnotes
Chrysene	ug/kg	ND	330	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	
3-Methylphenol	ug/kg	ND	330	
Pyridine	ug/kg	ND	330	
Nitrobenzene-d5 (S)	%	67		
2-Fluorobiphenyl (S)	%	71		
Terphenyl-d14 (S)	%	79		
Phenol-d6 (S)	%	73		
2-Fluorophenol (S)	%	66		
2,4,6-Tribromophenol (S)	%	70		

SPIKE & MATRIX SPIKE DUPLICATE: 603590381 603590399

Parameter	Units	603564923	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Phenol	ug/kg	0	3100	2004	64.6	1772	57.2	12	
1,4-Dichlorobenzene	ug/kg	0	2067	1270	61.4	1190	57.6	6	
Acenaphthene	ug/kg	0	2067	1339	64.8	1398	67.7	4	
2,4-Dinitrotoluene	ug/kg	0	2067	1424	68.9	1497	72.4	5	
Pyrene	ug/kg	0	2067	1949	94.3	1951	94.4	0	
Nitrobenzene-d5 (S)					69		67		
2-Fluorobiphenyl (S)					68		66		
Terphenyl-d14 (S)					86		80		
Phenol-d6 (S)					77		72		
2-Fluorophenol (S)					80		69		
2,4,6-Tribromophenol (S)					70		75		

LABORATORY CONTROL SAMPLE: 603590407

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Phenol	ug/kg	2500	1438	57.5	
1,4-Dichlorobenzene	ug/kg	1667	984.1	59.0	
Acenaphthene	ug/kg	1667	1132	67.9	
2,4-Dinitrotoluene	ug/kg	1667	1176	70.6	
P	ug/kg	1667	1520	91.2	

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QUALITY CONTROL DATA

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

LABORATORY CONTROL SAMPLE: 603590407

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Nitrobenzene-d5 (S)				67	
2-Fluorobiphenyl (S)				75	
Terphenyl-d14 (S)				85	
Phenol-d6 (S)				72	
2-Fluorophenol (S)				79	
2,4,6-Tribromophenol (S)				72	

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	Detected but below the PRL; therefore, result is an estimated concentration (CLP J-Flag).
[2]	Due to high analyte concentration and noted non -homogeneity of the QC matrix, the MS/MSD did not provide reliable results for accuracy and precision. Sample results for this QC batch accepted based on LCS percent recoveries.
[3]	The calculated RPD was outside QC acceptance limits.
[4]	The calculated RPD was outside QC acceptance limits.
[5]	RPD outlier due to turbidity of sample.

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QUALITY CONTROL DATA
CROSS REFERENCE TABLE

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603564923	EX4	EPA 3550	85117	EPA 8081A	85322
603564931	EX6 BASE	EPA 3550	85117	EPA 8081A	85322
603564949	EX12 MIDDLE	EPA 3550	85117	EPA 8081A	85322
603564956	EX12 BASE	EPA 3550	85117	EPA 8081A	85322
603564964	EX14 MIDDLE	EPA 3550	85117	EPA 8081A	85322
603564923	EX4	EPA 3550	85118	EPA 8082	85332
603564931	EX6 BASE	EPA 3550	85118	EPA 8082	85332
603564949	EX12 MIDDLE	EPA 3550	85118	EPA 8082	85332
603564956	EX12 BASE	EPA 3550	85118	EPA 8082	85332
603564964	EX14 MIDDLE	EPA 3550	85118	EPA 8082	85332
603564923	EX4	EPA 8260	85182		
603564931	EX6 BASE	EPA 8260	85182		
603564949	EX12 MIDDLE	EPA 8260	85182		
603564956	EX12 BASE	EPA 8260	85182		
603564964	EX14 MIDDLE	EPA 8260	85182		
603564923	EX4		85206		
603564931	EX6 BASE		85206		
603564949	EX12 MIDDLE		85206		
603564956	EX12 BASE		85206		
603564964	EX14 MIDDLE		85206		
603564923	EX4	EPA 9030A	85224		
603564931	EX6 BASE	EPA 9030A	85224		
603564949	EX12 MIDDLE	EPA 9030A	85224		
603564956	EX12 BASE	EPA 9030A	85224		
603564964	EX14 MIDDLE	EPA 9030A	85224		
603564923	EX4	EPA 3050	85402	EPA 6010	85963

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Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603564931	EX6 BASE	EPA 3050	85402	EPA 6010	85963
603564949	EX12 MIDDLE	EPA 3050	85402	EPA 6010	85963
603564956	EX12 BASE	EPA 3050	85402	EPA 6010	85963
603564964	EX14 MIDDLE	EPA 3050	85402	EPA 6010	85963
603564923	EX4	EPA 3050	85404	EPA 7841	85772
603564931	EX6 BASE	EPA 3050	85404	EPA 7841	85772
603564949	EX12 MIDDLE	EPA 3050	85404	EPA 7841	85772
603564956	EX12 BASE	EPA 3050	85404	EPA 7841	85772
603564964	EX14 MIDDLE	EPA 3050	85404	EPA 7841	85772
603564923	EX4	EPA 7471	85408		
603564931	EX6 BASE	EPA 7471	85408		
603564949	EX12 MIDDLE	EPA 7471	85408		
603564956	EX12 BASE	EPA 7471	85408		
603564964	EX14 MIDDLE	EPA 7471	85408		
603564923	EX4	EPA 9010A	85435		
603564931	EX6 BASE	EPA 9010A	85435		
603564949	EX12 MIDDLE	EPA 9010A	85435		
603564956	EX12 BASE	EPA 9010A	85435		
603564964	EX14 MIDDLE	EPA 9010A	85435		
603564923	EX4	EPA 3550	85460	EPA 8151	85638
603564931	EX6 BASE	EPA 3550	85460	EPA 8151	85638
603564949	EX12 MIDDLE	EPA 3550	85460	EPA 8151	85638
603564956	EX12 BASE	EPA 3550	85460	EPA 8151	85638
603564964	EX14 MIDDLE	EPA 3550	85460	EPA 8151	85638
603564923	EX4	EPA 7196 Modified	85499		
603564931	EX6 BASE	EPA 7196 Modified	85499		
603564949	EX12 MIDDLE	EPA 7196 Modified	85499		
603564956	EX12 BASE	EPA 7196 Modified	85499		
603564964	EX14 MIDDLE	EPA 7196 Modified	85499		
603564923	EX4	EPA 3550 Sonication	85593	EPA 8270	85981
603564931	EX6 BASE	EPA 3550 Sonication	85593	EPA 8270	85981
603564949	EX12 MIDDLE	EPA 3550 Sonication	85593	EPA 8270	85981
603564956	EX12 BASE	EPA 3550 Sonication	85593	EPA 8270	85981
603564964	EX14 MIDDLE	EPA 3550 Sonication	85593	EPA 8270	85981

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July 27, 2000

Mr. Mick Cossairt
Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

RE: Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Dear Mr. Cossairt:

Enclosed are the analytical results for sample(s)received by the laboratory on June 13, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela Brown
Project Manager

Enclosures

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DATE: 07/27/00
PAGE: 1

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

Solid results are reported on a dry weight basis

Pace Sample No: 603564923 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX4 Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
ls-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	10200	mg/kg	8.61	0.93	06/30/00	JAH	7429-90-5	
Antimony	ND	mg/kg	5.74	0.93	06/30/00	JAH	7440-36-0	
Arsenic	8.03	mg/kg	9.76	0.93	06/30/00	JAH	7440-38-2	1
Barium	126	mg/kg	0.459	0.93	06/30/00	JAH	7440-39-3	
Beryllium	0.983	mg/kg	0.115	0.93	06/30/00	JAH	7440-41-7	
Cadmium	ND	mg/kg	0.574	0.93	06/30/00	JAH	7440-43-9	
Calcium	27300	mg/kg	11.5	0.93	06/30/00	JAH	7440-70-2	
Chromium	15.8	mg/kg	0.804	0.93	06/30/00	JAH	7440-47-3	
Cobalt	14.4	mg/kg	0.804	0.93	06/30/00	JAH	7440-48-4	
Copper	31.5	mg/kg	1.15	0.93	06/30/00	JAH	7440-50-8	
Iron	15800	mg/kg	4.59	0.93	06/30/00	JAH	7439-89-6	
Lead	8.38	mg/kg	5.74	0.93	06/30/00	JAH	7439-92-1	
Magnesium	5300	mg/kg	5.74	0.93	06/30/00	JAH	7439-95-4	
Manganese	209	mg/kg	0.804	0.93	06/30/00	JAH	7439-96-5	
Nickel	37.5	mg/kg	3.44	0.93	06/30/00	JAH	7440-02-0	
Potassium	2570	mg/kg	115	0.93	06/30/00	JAH	7440-09-7	
Silver	ND	mg/kg	0.804	0.93	06/30/00	JAH	7440-22-4	
Vanadium	7.59	mg/kg	1.38	0.93	06/30/00	JAH	7440-62-2	
Zinc	24.8	mg/kg	11.5	0.93	06/30/00	JAH	7440-66-6	
Tin	ND	mg/kg	28.7	0.93	06/30/00	JAH	7440-31-5	
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.191	1.00	06/23/00	SYW	7439-97-6	
lium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564923 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX4 Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Thallium	ND	mg/kg	0.579	0.94	06/27/00	CAS	7440-28-0	
Date Digested					06/20/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.211	mg/kg	0.124	0.10	06/22/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.24	1.00	06/20/00	JKS	57-12-5	
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	19.8	mg/kg	6.2	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	19.4	%		0.81	06/16/00	RLEE		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	2.4	0.99	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.6	0.99	06/20/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.2	0.99	06/20/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4	0.99	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	78	%		0.81	06/20/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	67	%		0.81	06/20/00	JLO	877-09-8	
Date Extracted					06/15/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	40	0.99	07/02/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	79	%		0.81	07/02/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	75	%		0.81	07/02/00	JLO	877-09-8	
Date Extracted					06/15/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	50	1.00	06/24/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	19	1.00	06/24/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	54	%		0.81	06/24/00	JLO		

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564923 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX4 Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Date Extracted					06/20/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6.2	1.00	06/20/00	NLA	74-87-3	2
Vinyl Chloride	ND	ug/kg	6.2	1.00	06/20/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6.2	1.00	06/20/00	NLA	75-00-3	
Methylene Chloride	6.2	ug/kg	6.2	1.00	06/20/00	NLA	75-09-2	3
1.1-Dichloroethene	ND	ug/kg	6.2	1.00	06/20/00	NLA	75-35-4	
trans-1.2-Dichloroethene	ND	ug/kg	6.2	1.00	06/20/00	NLA	156-60-5	
cis-1.2-Dichloroethene	ND	ug/kg	6.2	1.00	06/20/00	NLA	156-59-2	
1.1.1-Trichloroethane	ND	ug/kg	6.2	1.00	06/20/00	NLA	71-55-6	
nzene	ND	ug/kg	6.2	1.00	06/20/00	NLA	71-43-2	
1.2-Dichloroethane	ND	ug/kg	6.2	1.00	06/20/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	6.2	1.00	06/20/00	NLA	79-01-6	
Toluene	ND	ug/kg	6.2	1.00	06/20/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	6.2	1.00	06/20/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6.2	1.00	06/20/00	NLA	108-90-7	
1.1.1.2-Tetrachloroethane	ND	ug/kg	6.2	1.00	06/20/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	6.2	1.00	06/20/00	NLA	100-41-4	
O-Xylene (1.2-Dimethylbenzene)	ND	ug/kg	6.2	1.00	06/20/00	NLA	95-47-6	
Styrene	ND	ug/kg	6.2	1.00	06/20/00	NLA	100-42-5	
1.1.2.2-Tetrachloroethane	ND	ug/kg	6.2	1.00	06/20/00	NLA	79-34-5	
Hexachlorobutadiene	ND	ug/kg	6.2	1.00	06/20/00	NLA	87-68-3	
Acetone	50	ug/kg	25	1.00	06/20/00	NLA	67-64-1	3
2-Butanone	ND	ug/kg	12	1.00	06/20/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	12	1.00	06/20/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	12	1.00	06/20/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	120	1.00	06/20/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	6.2	1.00	06/20/00	NLA	1330-20-7	
1.4-Dioxane (P-Dioxane)	ND	ug/kg	62	1.00	06/20/00	NLA	123-91-1	
Dibromofluoromethane (S)	92	%		0.81	06/20/00	NLA	1868-53-7	
Toluene-d8 (S)	86	%		0.81	06/20/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	80	%		0.81	06/20/00	NLA	460-00-4	
1.2-Dichloroethane-d4 (S)	112	%		0.81	06/20/00	NLA	17060-07-0	

GC/MS Semivolatiles

volatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564923 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX4 Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Phenol	ND	ug/kg	410	1.00	06/28/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	410	1.00	06/28/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	410	1.00	06/28/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	410	1.00	06/28/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	410	1.00	06/28/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	410	1.00	06/28/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	410	1.00	06/28/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	410	1.00	06/28/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	1.00	06/28/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	410	1.00	06/28/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	410	1.00	06/28/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	410	1.00	06/28/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	410	1.00	06/28/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	410	1.00	06/28/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	410	1.00	06/28/00	WAW	121-14-2	
Fluorene	ND	ug/kg	410	1.00	06/28/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	1.00	06/28/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	1.00	06/28/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	410	1.00	06/28/00	WAW	85-01-8	
Anthracene	ND	ug/kg	410	1.00	06/28/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	410	1.00	06/28/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	410	1.00	06/28/00	WAW	206-44-0	
Pyrene	ND	ug/kg	410	1.00	06/28/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	410	1.00	06/28/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	410	1.00	06/28/00	WAW	56-55-3	
Chrysene	ND	ug/kg	410	1.00	06/28/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	410	1.00	06/28/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	410	1.00	06/28/00	WAW	108-39-4	
Pyridine	ND	ug/kg	410	1.00	06/28/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	62	%		0.81	06/28/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	64	%		0.81	06/28/00	WAW	321-60-8	
Terphenyl-d14 (S)	82	%		0.81	06/28/00	WAW	1718-51-0	
Phenol-d6 (S)	68	%		0.81	06/28/00	WAW	13127-88-3	
2-Fluorophenol (S)	74	%		0.81	06/28/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	63	%		0.81	06/28/00	WAW	118-79-6	
Date Extracted					06/22/00			

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Pace Project Number: 6042058
Client Project ID: ISC-KC RFI

Pace Sample No: 603564931 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX6 BASE Date Received: 06/13/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	12400	mg/kg	8.8	0.95	06/30/00	JAH	7429-90-5	
Antimony	ND	mg/kg	5.87	0.95	06/30/00	JAH	7440-36-0	
Arsenic	9.77	mg/kg	9.98	0.95	06/30/00	JAH	7440-38-2	1
Barium	226	mg/kg	0.469	0.95	06/30/00	JAH	7440-39-3	
Beryllium	0.622	mg/kg	0.117	0.95	06/30/00	JAH	7440-41-7	
Cadmium	0.231	mg/kg	0.587	0.95	06/30/00	JAH	7440-43-9	1
Calcium	3080	mg/kg	11.7	0.95	06/30/00	JAH	7440-70-2	
Chromium	13.6	mg/kg	0.822	0.95	06/30/00	JAH	7440-47-3	
Cobalt	11.3	mg/kg	0.822	0.95	06/30/00	JAH	7440-48-4	
Copper	27.3	mg/kg	1.17	0.95	06/30/00	JAH	7440-50-8	
Iron	19800	mg/kg	4.69	0.95	06/30/00	JAH	7439-89-6	
Lead	20	mg/kg	5.87	0.95	06/30/00	JAH	7439-92-1	
Magnesium	3400	mg/kg	5.87	0.95	06/30/00	JAH	7439-95-4	
Manganese	498	mg/kg	0.822	0.95	06/30/00	JAH	7439-96-5	
Nickel	24.1	mg/kg	3.52	0.95	06/30/00	JAH	7440-02-0	
Potassium	1310	mg/kg	117	0.95	06/30/00	JAH	7440-09-7	
Silver	ND	mg/kg	0.822	0.95	06/30/00	JAH	7440-22-4	
Vanadium	28.1	mg/kg	1.41	0.95	06/30/00	JAH	7440-62-2	
Zinc	68.4	mg/kg	11.7	0.95	06/30/00	JAH	7440-66-6	
Tin	ND	mg/kg	29.3	0.95	06/30/00	JAH	7440-31-5	
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.19	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.592	0.96	06/27/00	CAS	7440-28-0	
Date Digested					06/20/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.148	mg/kg	0.123	0.10	06/22/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.23	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556614 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX14 BASE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	6.3	1.00	06/23/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	6.3	1.00	06/23/00	NLA	71-55-6	
Benzene	15	ug/kg	6.3	1.00	06/23/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	6.3	1.00	06/23/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	6.3	1.00	06/23/00	NLA	79-01-6	
Toluene	11	ug/kg	6.3	1.00	06/23/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	6.3	1.00	06/23/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6.3	1.00	06/23/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.3	1.00	06/23/00	NLA	630-20-6	
Ethylbenzene	100	ug/kg	6.3	1.00	06/23/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	40	ug/kg	6.3	1.00	06/23/00	NLA	95-47-6	
Styrene	ND	ug/kg	6.3	1.00	06/23/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.3	1.00	06/23/00	NLA	79-34-5	
Hexachlorobutadiene	ND	ug/kg	6.3	1.00	06/23/00	NLA	87-68-3	
Acetone	470	ug/kg	25	1.00	06/23/00	NLA	67-64-1	1
2-Butanone	30	ug/kg	13	1.00	06/23/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	13	1.00	06/23/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	13	1.00	06/23/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	130	1.00	06/23/00	NLA	591-78-6	
Xylene (Total)	120	ug/kg	6.3	1.00	06/23/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	63	1.00	06/23/00	NLA	123-91-1	
Dibromofluoromethane (S)	100	%		0.79	06/23/00	NLA	1868-53-7	
Toluene-d8 (S)	88	%		0.79	06/23/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	79	%		0.79	06/23/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%		0.79	06/23/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	4100	9.93	06/27/00	MSR	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	4100	9.93	06/27/00	MSR	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	4100	9.93	06/27/00	MSR	95-50-1	
2-Methylphenol	ND	ug/kg	4100	9.93	06/27/00	MSR	95-48-7	
4-Methylphenol	ND	ug/kg	4100	9.93	06/27/00	MSR	106-44-5	
Hexachloroethane	ND	ug/kg	4100	9.93	06/27/00	MSR	67-72-1	
Nitrobenzene	ND	ug/kg	4100	9.93	06/27/00	MSR	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	4100	9.93	06/27/00	MSR	105-67-9	
Benzoic Acid	ND	ug/kg	20000	9.93	06/27/00	MSR	65-85-0	
Naphthalene	2600	ug/kg	4100	9.93	06/27/00	MSR	91-20-3	2
Hexachlorobutadiene	ND	ug/kg	4100	9.93	06/27/00	MSR	87-68-3	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556614 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX14 BASE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	12000	ug/kg	4100	9.93	06/27/00	MSR	91-57-6	
Acenaphthene	ND	ug/kg	4100	9.93	06/27/00	MSR	83-32-9	
Dibenzofuran	ND	ug/kg	4100	9.93	06/27/00	MSR	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	4100	9.93	06/27/00	MSR	121-14-2	
Fluorene	1100	ug/kg	4100	9.93	06/27/00	MSR	86-73-7	2
N-Nitrosodiphenylamine	ND	ug/kg	4100	9.93	06/27/00	MSR	86-30-6	
Hexachlorobenzene	ND	ug/kg	4100	9.93	06/27/00	MSR	118-74-1	
Phenanthrene	2600	ug/kg	4100	9.93	06/27/00	MSR	85-01-8	2
Anthracene	ND	ug/kg	4100	9.93	06/27/00	MSR	120-12-7	
Di-n-butylphthalate	ND	ug/kg	4100	9.93	06/27/00	MSR	84-74-2	
Fluoranthene	ND	ug/kg	4100	9.93	06/27/00	MSR	206-44-0	
Pyrene	ND	ug/kg	4100	9.93	06/27/00	MSR	129-00-0	
Butylbenzylphthalate	ND	ug/kg	4100	9.93	06/27/00	MSR	85-68-7	
nzo(a)anthracene	ND	ug/kg	4100	9.93	06/27/00	MSR	56-55-3	
ysene	ND	ug/kg	4100	9.93	06/27/00	MSR	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	4100	9.93	06/27/00	MSR	117-81-7	
3-Methylphenol	ND	ug/kg	4100	9.93	06/27/00	MSR	108-39-4	
Pyridine	ND	ug/kg	4100	9.93	06/27/00	MSR	110-86-1	
Nitrobenzene-d5 (S)	84	%		0.79	06/27/00	MSR	4165-60-0	
2-Fluorobiphenyl (S)	77	%		0.79	06/27/00	MSR	321-60-8	
Terphenyl-d14 (S)	78	%		0.79	06/27/00	MSR	1718-51-0	
Phenol-d6 (S)	72	%		0.79	06/27/00	MSR	13127-88-3	
2-Fluorophenol (S)	70	%		0.79	06/27/00	MSR	367-12-4	
2,4,6-Tribromophenol (S)	76	%		0.79	06/27/00	MSR	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556622 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX14 SURFACE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	3480	mg/kg	7.21	0.95	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	4.81	0.95	06/27/00	CAS	7440-36-0	
Arsenic	7.48	mg/kg	8.18	0.95	06/27/00	CAS	7440-38-2	2
Barium	74.7	mg/kg	0.385	0.95	06/27/00	CAS	7440-39-3	1
Beryllium	0.219	mg/kg	0.0962	0.95	06/27/00	CAS	7440-41-7	
Cadmium	0.582	mg/kg	0.481	0.95	06/27/00	CAS	7440-43-9	1
Calcium	300000	mg/kg	9620	952	06/27/00	CAS	7440-70-2	7
Chromium	11.9	mg/kg	0.673	0.95	06/27/00	CAS	7440-47-3	
Cobalt	3.22	mg/kg	0.673	0.95	06/27/00	CAS	7440-48-4	1
Copper	17.2	mg/kg	0.962	0.95	06/27/00	CAS	7440-50-8	
Iron	6560	mg/kg	3.85	0.95	06/27/00	CAS	7439-89-6	1
Lead	54.8	mg/kg	4.81	0.95	06/27/00	CAS	7439-92-1	1
Magnesium	4580	mg/kg	4.81	0.95	06/27/00	CAS	7439-95-4	1
Manganese	336	mg/kg	0.673	0.95	06/27/00	CAS	7439-96-5	1
Nickel	10.5	mg/kg	2.89	0.95	06/27/00	CAS	7440-02-0	1
Potassium	1020	mg/kg	96.2	0.95	06/27/00	CAS	7440-09-7	1
Silver	0.19	mg/kg	0.673	0.95	06/27/00	CAS	7440-22-4	2
Vanadium	8.71	mg/kg	1.15	0.95	06/27/00	CAS	7440-62-2	1
Zinc	57.3	mg/kg	9.62	0.95	06/27/00	CAS	7440-66-6	1
Tin	0	mg/kg	24	0.95	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.156	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.463	0.92	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	ND	mg/kg	0.101	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.01	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556622 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX14 SURFACE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil		Method: EPA 9030A			Prep Method: EPA 9030A			
Sulfide	20.2	mg/kg	5.05	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture		Method:			Prep Method:			
Percent Moisture	1.0	%		0.99	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC		Method: EPA 8081A			Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	20	10.0	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	13	ug/kg	13	10.0	06/20/00	JLO	58-89-9	
ptachlor	ND	ug/kg	10	10.0	06/20/00	JLO	76-44-8	
ptachlor Epoxide	ND	ug/kg	33	10.0	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	74	%		0.99	06/20/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	54	%		0.99	06/20/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082		Method: EPA 8082			Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	170	4.96	06/15/00	JLO	11096-82-5	8
Decachlorobiphenyl (S)	45	%		0.99	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	53	%		0.99	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides		Method: EPA 8151			Prep Method: EPA 3550			
2,4-D	ND	ug/kg	40	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	3.4	ug/kg	15	1.00	06/20/00	JLO	93-72-1	2
Dichlorophenyl Acetic Acid (S)	64	%		0.99	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260		Method: EPA 8260			Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	5	1.00	06/30/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	5	1.00	06/30/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	5	1.00	06/30/00	NLA	75-00-3	
Methylene Chloride	150	ug/kg	5	1.00	06/30/00	NLA	75-09-2	1
1,1-Dichloroethene	ND	ug/kg	5	1.00	06/30/00	NLA	75-35-4	
ans-1,2-Dichloroethene	ND	ug/kg	5	1.00	06/30/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556622 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX14 SURFACE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	5	1.00	06/30/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	5	1.00	06/30/00	NLA	71-55-6	
Benzene	ND	ug/kg	5	1.00	06/30/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	5	1.00	06/30/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	5	1.00	06/30/00	NLA	79-01-6	
Toluene	ND	ug/kg	5	1.00	06/30/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	5	1.00	06/30/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	5	1.00	06/30/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5	1.00	06/30/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	5	1.00	06/30/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	6.8	ug/kg	5	1.00	06/30/00	NLA	95-47-6	
Styrene	ND	ug/kg	5	1.00	06/30/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5	1.00	06/30/00	NLA	79-34-5	
Hexachlorobutadiene	ND	ug/kg	5	1.00	06/30/00	NLA	87-68-3	
etone	120	ug/kg	20	1.00	06/30/00	NLA	67-64-1	1
2-Butanone	ND	ug/kg	10	1.00	06/30/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	10	1.00	06/30/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	10	1.00	06/30/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	100	1.00	06/30/00	NLA	591-78-6	
Xylene (Total)	20	ug/kg	5	1.00	06/30/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	50	1.00	06/30/00	NLA	123-91-1	
Dibromofluoromethane (S)	92	%		0.99	06/30/00	NLA	1868-53-7	
Toluene-d8 (S)	88	%		0.99	06/30/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	97	%		0.99	06/30/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%		0.99	06/30/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	3300	9.83	06/27/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	3300	9.83	06/27/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	3300	9.83	06/27/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	3300	9.83	06/27/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	3300	9.83	06/27/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	3300	9.83	06/27/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	3300	9.83	06/27/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	3300	9.83	06/27/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	16000	9.83	06/27/00	WAW	65-85-0	
Naphthalene	950	ug/kg	3300	9.83	06/27/00	WAW	91-20-3	2
xachlorobutadiene	ND	ug/kg	3300	9.83	06/27/00	WAW	87-68-3	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556622 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX14 SURFACE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	4200	ug/kg	3300	9.83	06/27/00	WAW	91-57-6	
Acenaphthene	680	ug/kg	3300	9.83	06/27/00	WAW	83-32-9	2
Dibenzofuran	ND	ug/kg	3300	9.83	06/27/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	3300	9.83	06/27/00	WAW	121-14-2	
Fluorene	550	ug/kg	3300	9.83	06/27/00	WAW	86-73-7	2
N-Nitrosodiphenylamine	ND	ug/kg	3300	9.83	06/27/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	3300	9.83	06/27/00	WAW	118-74-1	
Phenanthrene	1900	ug/kg	3300	9.83	06/27/00	WAW	85-01-8	2
Anthracene	ND	ug/kg	3300	9.83	06/27/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	3300	9.83	06/27/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	3300	9.83	06/27/00	WAW	206-44-0	
Pyrene	1400	ug/kg	3300	9.83	06/27/00	WAW	129-00-0	2
Butylbenzylphthalate	ND	ug/kg	3300	9.83	06/27/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	3300	9.83	06/27/00	WAW	56-55-3	
Chrysene	490	ug/kg	3300	9.83	06/27/00	WAW	218-01-9	2
bis(2-Ethylhexyl)phthalate	1900	ug/kg	3300	9.83	06/27/00	WAW	117-81-7	1,2
3-Methylphenol	ND	ug/kg	3300	9.83	06/27/00	WAW	108-39-4	
Pyridine	ND	ug/kg	3300	9.83	06/27/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	80	%		0.99	06/27/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	85	%		0.99	06/27/00	WAW	321-60-8	
Terphenyl-d14 (S)	83	%		0.99	06/27/00	WAW	1718-51-0	
Phenol-d6 (S)	80	%		0.99	06/27/00	WAW	13127-88-3	
2-Fluorophenol (S)	63	%		0.99	06/27/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	85	%		0.99	06/27/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556655 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: DUP | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	13500	mg/kg	9.21	0.97	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	6.14	0.97	06/27/00	CAS	7440-36-0	
Arsenic	13.4	mg/kg	10.4	0.97	06/27/00	CAS	7440-38-2	
Barium	254	mg/kg	0.491	0.97	06/27/00	CAS	7440-39-3	1
Beryllium	0.61	mg/kg	0.123	0.97	06/27/00	CAS	7440-41-7	
Cadmium	0.0254	mg/kg	0.614	0.97	06/27/00	CAS	7440-43-9	1
Calcium	4260	mg/kg	12.3	0.97	06/27/00	CAS	7440-70-2	
Chromium	15.5	mg/kg	0.86	0.97	06/27/00	CAS	7440-47-3	
Cobalt	12	mg/kg	0.86	0.97	06/27/00	CAS	7440-48-4	1
Copper	20.2	mg/kg	1.23	0.97	06/27/00	CAS	7440-50-8	
Iron	21200	mg/kg	4.91	0.97	06/27/00	CAS	7439-89-6	1
Lead	15.7	mg/kg	6.14	0.97	06/27/00	CAS	7439-92-1	1
Magnesium	3870	mg/kg	6.14	0.97	06/27/00	CAS	7439-95-4	1
Manganese	751	mg/kg	0.86	0.97	06/27/00	CAS	7439-96-5	1
Nickel	24.1	mg/kg	3.69	0.97	06/27/00	CAS	7440-02-0	1
Potassium	1640	mg/kg	123	0.97	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.86	0.97	06/27/00	CAS	7440-22-4	
Vanadium	34.1	mg/kg	1.47	0.97	06/27/00	CAS	7440-62-2	1
Zinc	65.5	mg/kg	12.3	0.97	06/27/00	CAS	7440-66-6	1
Tin	0.454	mg/kg	30.7	0.97	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.195	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.614	0.97	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.582	mg/kg	0.127	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.27	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556655 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: DUP Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil		Method: EPA 9030A			Prep Method: EPA 9030A			
Sulfide	30.4	mg/kg	6.33	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture		Method:			Prep Method:			
Percent Moisture	21.0	%		0.79	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC		Method: EPA 8081A			Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	25	10.0	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	17	10.0	06/20/00	JLO	58-89-9	
·ptachlor	ND	ug/kg	13	10.0	06/20/00	JLO	76-44-8	
ptachlor Epoxide	ND	ug/kg	42	10.0	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	69	%		0.79	06/20/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	73	%		0.79	06/20/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082		Method: EPA 8082			Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	42	1.00	06/14/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	55	%		0.79	06/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	44	%		0.79	06/14/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides		Method: EPA 8151			Prep Method: EPA 3550			
2,4-D	ND	ug/kg	51	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	19	1.00	06/20/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	81	%		0.79	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260		Method: EPA 8260			Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6.3	1.00	06/24/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	6.3	1.00	06/24/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6.3	1.00	06/24/00	NLA	75-00-3	
Methylene Chloride	4.2	ug/kg	6.3	1.00	06/24/00	NLA	75-09-2	1.2
1,1-Dichloroethene	ND	ug/kg	6.3	1.00	06/24/00	NLA	75-35-4	
ans-1,2-Dichloroethene	ND	ug/kg	6.3	1.00	06/24/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556655 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: DUP | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	6.3	1.00	06/24/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	6.3	1.00	06/24/00	NLA	71-55-6	
Benzene	6.9	ug/kg	6.3	1.00	06/24/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	6.3	1.00	06/24/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	6.3	1.00	06/24/00	NLA	79-01-6	
Toluene	ND	ug/kg	6.3	1.00	06/24/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	6.3	1.00	06/24/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6.3	1.00	06/24/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.3	1.00	06/24/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	6.3	1.00	06/24/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	43	ug/kg	6.3	1.00	06/24/00	NLA	95-47-6	
Styrene	ND	ug/kg	6.3	1.00	06/24/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.3	1.00	06/24/00	NLA	79-34-5	
xachlorobutadiene	ND	ug/kg	6.3	1.00	06/24/00	NLA	87-68-3	
etone	32	ug/kg	25	1.00	06/24/00	NLA	67-64-1	1
2-Butanone	ND	ug/kg	13	1.00	06/24/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	13	1.00	06/24/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	13	1.00	06/24/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	130	1.00	06/24/00	NLA	591-78-6	
Xylene (Total)	61	ug/kg	6.3	1.00	06/24/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	63	1.00	06/24/00	NLA	123-91-1	
Dibromofluoromethane (S)	105	%		0.79	06/24/00	NLA	1868-53-7	
Toluene-d8 (S)	86	%		0.79	06/24/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	72	%		0.79	06/24/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%		0.79	06/24/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication		
Phenol	ND	ug/kg	410	0.99	06/26/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	410	0.99	06/26/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	410	0.99	06/26/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	410	0.99	06/26/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	410	0.99	06/26/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	410	0.99	06/26/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	410	0.99	06/26/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	410	0.99	06/26/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	2000	0.99	06/26/00	WAW	65-85-0
Naphthalene	1100	ug/kg	410	0.99	06/26/00	WAW	91-20-3
xachlorobutadiene	ND	ug/kg	410	0.99	06/26/00	WAW	87-68-3

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556655 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: DUP | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	5400	ug/kg	410	0.99	06/26/00	WAW	91-57-6	5
Acenaphthene	380	ug/kg	410	0.99	06/26/00	WAW	83-32-9	2
Dibenzofuran	ND	ug/kg	410	0.99	06/26/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	410	0.99	06/26/00	WAW	121-14-2	
Fluorene	430	ug/kg	410	0.99	06/26/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	0.99	06/26/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	0.99	06/26/00	WAW	118-74-1	
Phenanthrene	1600	ug/kg	410	0.99	06/26/00	WAW	85-01-8	
Anthracene	ND	ug/kg	410	0.99	06/26/00	WAW	120-12-7	
Di-n-butylphthalate	260	ug/kg	410	0.99	06/26/00	WAW	84-74-2	2
Fluoranthene	ND	ug/kg	410	0.99	06/26/00	WAW	206-44-0	
Pyrene	250	ug/kg	410	0.99	06/26/00	WAW	129-00-0	2
Butylbenzylphthalate	ND	ug/kg	410	0.99	06/26/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	410	0.99	06/26/00	WAW	56-55-3	
Chrysene	120	ug/kg	410	0.99	06/26/00	WAW	218-01-9	2
bis(2-Ethylhexyl)phthalate	490	ug/kg	410	0.99	06/26/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	410	0.99	06/26/00	WAW	108-39-4	
Pyridine	ND	ug/kg	410	0.99	06/26/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	76	%		0.79	06/26/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	78	%		0.79	06/26/00	WAW	321-60-8	
Terphenyl-d14 (S)	72	%		0.79	06/26/00	WAW	1718-51-0	
Phenol-d6 (S)	79	%		0.79	06/26/00	WAW	13127-88-3	
2-Fluorophenol (S)	69	%		0.79	06/26/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	60	%		0.79	06/26/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556697 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX2 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	18600	mg/kg	7.24	0.94	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	4.83	0.94	06/27/00	CAS	7440-36-0	
Arsenic	10.4	mg/kg	8.21	0.94	06/27/00	CAS	7440-38-2	
Barium	125	mg/kg	0.386	0.94	06/27/00	CAS	7440-39-3	1
Beryllium	1.13	mg/kg	0.0966	0.94	06/27/00	CAS	7440-41-7	
Cadmium	0	mg/kg	0.483	0.94	06/27/00	CAS	7440-43-9	1
Calcium	14500	mg/kg	9.66	0.94	06/27/00	CAS	7440-70-2	
Chromium	26.4	mg/kg	0.676	0.94	06/27/00	CAS	7440-47-3	
Cobalt	16.9	mg/kg	0.676	0.94	06/27/00	CAS	7440-48-4	1
Copper	18.1	mg/kg	0.966	0.94	06/27/00	CAS	7440-50-8	
Iron	24800	mg/kg	3.86	0.94	06/27/00	CAS	7439-89-6	1
Lead	9.01	mg/kg	4.83	0.94	06/27/00	CAS	7439-92-1	1
Magnesium	10900	mg/kg	4.83	0.94	06/27/00	CAS	7439-95-4	1
Manganese	356	mg/kg	0.676	0.94	06/27/00	CAS	7439-96-5	1
Nickel	41.1	mg/kg	2.9	0.94	06/27/00	CAS	7440-02-0	1
Potassium	5770	mg/kg	96.6	0.94	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.676	0.94	06/27/00	CAS	7440-22-4	
Vanadium	15.1	mg/kg	1.16	0.94	06/27/00	CAS	7440-62-2	1
Zinc	59.5	mg/kg	9.66	0.94	06/27/00	CAS	7440-66-6	1
Tin	0	mg/kg	24.1	0.94	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.158	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.512	1.00	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.215	mg/kg	0.102	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.02	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556697 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX2 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil		Method: EPA 9030A			Prep Method: EPA 9030A			
Sulfide	28.7	mg/kg	5.12	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture		Method:			Prep Method:			
Percent Moisture	2.3	%		0.98	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC		Method: EPA 8081A			Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	20	10.0	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	14	10.0	06/20/00	JLO	58-89-9	
·ptachlor	ND	ug/kg	10	10.0	06/20/00	JLO	76-44-8	
.ptachlor Epoxide	ND	ug/kg	34	10.0	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	78	%		0.98	06/20/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	80	%		0.98	06/20/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082		Method: EPA 8082			Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	34	1.00	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	45	%		0.98	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	52	%		0.98	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides		Method: EPA 8151			Prep Method: EPA 3550			
2,4-D	ND	ug/kg	41	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	15	1.00	06/20/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	62	%		0.98	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260		Method: EPA 8260			Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	5.1	1.00	06/26/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	5.1	1.00	06/26/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	5.1	1.00	06/26/00	NLA	75-00-3	
Methylene Chloride	580	ug/kg	5.1	1.00	06/26/00	NLA	75-09-2	1,5
1,1-Dichloroethene	ND	ug/kg	5.1	1.00	06/26/00	NLA	75-35-4	
ans-1,2-Dichloroethene	ND	ug/kg	5.1	1.00	06/26/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556697 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX2 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	5.1	1.00	06/26/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	5.1	1.00	06/26/00	NLA	71-55-6	
Benzene	ND	ug/kg	5.1	1.00	06/26/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	5.1	1.00	06/26/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	5.1	1.00	06/26/00	NLA	79-01-6	
Toluene	ND	ug/kg	5.1	1.00	06/26/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	5.1	1.00	06/26/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	5.1	1.00	06/26/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.1	1.00	06/26/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	5.1	1.00	06/26/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	5.1	1.00	06/26/00	NLA	95-47-6	
Styrene	ND	ug/kg	5.1	1.00	06/26/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.1	1.00	06/26/00	NLA	79-34-5	
Hexachlorobutadiene	ND	ug/kg	5.1	1.00	06/26/00	NLA	87-68-3	
Acetone	45	ug/kg	20	1.00	06/26/00	NLA	67-64-1	1
2-Butanone	9.2	ug/kg	10	1.00	06/26/00	NLA	78-93-3	2
4-Methyl-2-Pentanone	ND	ug/kg	10	1.00	06/26/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	10	1.00	06/26/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	100	1.00	06/26/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	5.1	1.00	06/26/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	51	1.00	06/26/00	NLA	123-91-1	
Dibromofluoromethane (S)	84	%		0.98	06/26/00	NLA	1868-53-7	
Toluene-d8 (S)	95	%		0.98	06/26/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	95	%		0.98	06/26/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%		0.98	06/26/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	340	1.00	06/25/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	340	1.00	06/25/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	340	1.00	06/25/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	340	1.00	06/25/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	340	1.00	06/25/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	340	1.00	06/25/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	340	1.00	06/25/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	340	1.00	06/25/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	1600	1.00	06/25/00	WAW	65-85-0	
Naphthalene	58	ug/kg	340	1.00	06/25/00	WAW	91-20-3	2
Hexachlorobutadiene	ND	ug/kg	340	1.00	06/25/00	WAW	87-68-3	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556697 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX2 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	130	ug/kg	340	1.00	06/25/00	WAW	91-57-6	2
Acenaphthene	ND	ug/kg	340	1.00	06/25/00	WAW	83-32-9	
Dibenzofuran	100	ug/kg	340	1.00	06/25/00	WAW	132-64-9	2
2,4-Dinitrotoluene	ND	ug/kg	340	1.00	06/25/00	WAW	121-14-2	
Fluorene	ND	ug/kg	340	1.00	06/25/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	340	1.00	06/25/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	340	1.00	06/25/00	WAW	118-74-1	
Phenanthrene	100	ug/kg	340	1.00	06/25/00	WAW	85-01-8	2
Anthracene	ND	ug/kg	340	1.00	06/25/00	WAW	120-12-7	
Di-n-butylphthalate	200	ug/kg	340	1.00	06/25/00	WAW	84-74-2	2
Fluoranthene	ND	ug/kg	340	1.00	06/25/00	WAW	206-44-0	
Pyrene	56	ug/kg	340	1.00	06/25/00	WAW	129-00-0	2
Butylbenzylphthalate	ND	ug/kg	340	1.00	06/25/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	340	1.00	06/25/00	WAW	56-55-3	
Chrysene	ND	ug/kg	340	1.00	06/25/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	340	1.00	06/25/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	340	1.00	06/25/00	WAW	108-39-4	
Pyridine	ND	ug/kg	340	1.00	06/25/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	66	%		0.98	06/25/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	67	%		0.98	06/25/00	WAW	321-60-8	
Terphenyl-d14 (S)	75	%		0.98	06/25/00	WAW	1718-51-0	
Phenol-d6 (S)	67	%		0.98	06/25/00	WAW	13127-88-3	
2-Fluorophenol (S)	63	%		0.98	06/25/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	72	%		0.98	06/25/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556705 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX3 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	12100	mg/kg	7.87	0.94	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	5.25	0.94	06/27/00	CAS	7440-36-0	
Arsenic	14.8	mg/kg	8.92	0.94	06/27/00	CAS	7440-38-2	
Barium	278	mg/kg	0.42	0.94	06/27/00	CAS	7440-39-3	1
Beryllium	0.657	mg/kg	0.105	0.94	06/27/00	CAS	7440-41-7	
Cadmium	2.59	mg/kg	0.525	0.94	06/27/00	CAS	7440-43-9	1
Calcium	201000	mg/kg	10500	943	06/27/00	CAS	7440-70-2	9
Chromium	48.4	mg/kg	0.734	0.94	06/27/00	CAS	7440-47-3	
Cobalt	8.75	mg/kg	0.734	0.94	06/27/00	CAS	7440-48-4	1
Copper	26.8	mg/kg	1.05	0.94	06/27/00	CAS	7440-50-8	
Iron	16700	mg/kg	4.2	0.94	06/27/00	CAS	7439-89-6	1
Lead	71	mg/kg	5.25	0.94	06/27/00	CAS	7439-92-1	1
Magnesium	6710	mg/kg	5.25	0.94	06/27/00	CAS	7439-95-4	1
Manganese	418	mg/kg	0.734	0.94	06/27/00	CAS	7439-96-5	1
Nickel	43.3	mg/kg	3.15	0.94	06/27/00	CAS	7440-02-0	1
Potassium	2980	mg/kg	105	0.94	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.734	0.94	06/27/00	CAS	7440-22-4	
Vanadium	85.1	mg/kg	1.26	0.94	06/27/00	CAS	7440-62-2	1
Zinc	188	mg/kg	10.5	0.94	06/27/00	CAS	7440-66-6	1
Tin	0	mg/kg	26.2	0.94	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.171	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.55	0.99	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.145	mg/kg	0.111	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.11	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556705 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX3 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil		Method: EPA 9030A			Prep Method: EPA 9030A			
Sulfide	26.7	mg/kg	5.56	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture		Method:			Prep Method:			
Percent Moisture	10.1	%		0.90	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC		Method: EPA 8081A			Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	22	10.0	06/20/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	15	10.0	06/20/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	11	10.0	06/20/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	37	10.0	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	72	%		0.90	06/20/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	74	%		0.90	06/20/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082		Method: EPA 8082			Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	35	ug/kg	36	0.99	06/15/00	JLO	11096-82-5	2
Decachlorobiphenyl (S)	47	%		0.90	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	52	%		0.90	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides		Method: EPA 8151			Prep Method: EPA 3550			
2,4-D	ND	ug/kg	44	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	2.4	ug/kg	17	1.00	06/20/00	JLO	93-72-1	2
Dichlorophenyl Acetic Acid (S)	82	%		0.90	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260		Method: EPA 8260			Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	5.6	1.00	06/26/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	5.6	1.00	06/26/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	5.6	1.00	06/26/00	NLA	75-00-3	
Methylene Chloride	56	ug/kg	5.6	1.00	06/26/00	NLA	75-09-2	1
1,1-Dichloroethene	ND	ug/kg	5.6	1.00	06/26/00	NLA	75-35-4	
trans-1,2-Dichloroethene	ND	ug/kg	5.6	1.00	06/26/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556705 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX3 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	5.6	1.00	06/26/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	5.6	1.00	06/26/00	NLA	71-55-6	
Benzene	ND	ug/kg	5.6	1.00	06/26/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	5.6	1.00	06/26/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	5.6	1.00	06/26/00	NLA	79-01-6	
Toluene	ND	ug/kg	5.6	1.00	06/26/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	5.6	1.00	06/26/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	5.6	1.00	06/26/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.6	1.00	06/26/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	5.6	1.00	06/26/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	5.6	1.00	06/26/00	NLA	95-47-6	
Styrene	ND	ug/kg	5.6	1.00	06/26/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.6	1.00	06/26/00	NLA	79-34-5	
xachlorobutadiene	ND	ug/kg	5.6	1.00	06/26/00	NLA	87-68-3	
etone	7.1	ug/kg	22	1.00	06/26/00	NLA	67-64-1	1,2
2-Butanone	ND	ug/kg	11	1.00	06/26/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	11	1.00	06/26/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	11	1.00	06/26/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	110	1.00	06/26/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	5.6	1.00	06/26/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	56	1.00	06/26/00	NLA	123-91-1	
Dibromofluoromethane (S)	82	%		0.90	06/26/00	NLA	1868-53-7	
Toluene-d8 (S)	96	%		0.90	06/26/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	96	%		0.90	06/26/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%		0.90	06/26/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	360	0.99	06/27/00	MSR	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	360	0.99	06/27/00	MSR	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	360	0.99	06/27/00	MSR	95-50-1
2-Methylphenol	ND	ug/kg	360	0.99	06/27/00	MSR	95-48-7
4-Methylphenol	ND	ug/kg	360	0.99	06/27/00	MSR	106-44-5
Hexachloroethane	ND	ug/kg	360	0.99	06/27/00	MSR	67-72-1
Nitrobenzene	ND	ug/kg	360	0.99	06/27/00	MSR	98-95-3
2,4-Dimethylphenol	ND	ug/kg	360	0.99	06/27/00	MSR	105-67-9
Benzoic Acid	ND	ug/kg	1800	0.99	06/27/00	MSR	65-85-0
Naphthalene	ND	ug/kg	360	0.99	06/27/00	MSR	91-20-3
xachlorobutadiene	ND	ug/kg	360	0.99	06/27/00	MSR	87-68-3

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556705 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX3 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	ND	ug/kg	360	0.99	06/27/00	MSR	91-57-6	
Acenaphthene	ND	ug/kg	360	0.99	06/27/00	MSR	83-32-9	
Dibenzofuran	ND	ug/kg	360	0.99	06/27/00	MSR	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	360	0.99	06/27/00	MSR	121-14-2	
Fluorene	ND	ug/kg	360	0.99	06/27/00	MSR	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	360	0.99	06/27/00	MSR	86-30-6	
Hexachlorobenzene	ND	ug/kg	360	0.99	06/27/00	MSR	118-74-1	
Phenanthrene	ND	ug/kg	360	0.99	06/27/00	MSR	85-01-8	
Anthracene	ND	ug/kg	360	0.99	06/27/00	MSR	120-12-7	
Di-n-butylphthalate	260	ug/kg	360	0.99	06/27/00	MSR	84-74-2	1,2
Fluoranthene	ND	ug/kg	360	0.99	06/27/00	MSR	206-44-0	
Pyrene	ND	ug/kg	360	0.99	06/27/00	MSR	129-00-0	
Butylbenzylphthalate	ND	ug/kg	360	0.99	06/27/00	MSR	85-68-7	
nzo(a)anthracene	ND	ug/kg	360	0.99	06/27/00	MSR	56-55-3	
rysene	ND	ug/kg	360	0.99	06/27/00	MSR	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	360	0.99	06/27/00	MSR	117-81-7	
3-Methylphenol	ND	ug/kg	360	0.99	06/27/00	MSR	108-39-4	
Pyridine	ND	ug/kg	360	0.99	06/27/00	MSR	110-86-1	
Nitrobenzene-d5 (S)	79	%		0.90	06/27/00	MSR	4165-60-0	
2-Fluorobiphenyl (S)	78	%		0.90	06/27/00	MSR	321-60-8	
Terphenyl-d14 (S)	77	%		0.90	06/27/00	MSR	1718-51-0	
Phenol-d6 (S)	81	%		0.90	06/27/00	MSR	13127-88-3	
2-Fluorophenol (S)	78	%		0.90	06/27/00	MSR	367-12-4	
2,4,6-Tribromophenol (S)	77	%		0.90	06/27/00	MSR	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556713 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX5 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil		Method: EPA 9030A			Prep Method: EPA 9030A			
Sulfide	22.6	mg/kg	5.66	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture		Method:			Prep Method:			
Percent Moisture	11.7	%		0.88	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC		Method: EPA 8081A			Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	22	10.0	06/21/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	15	10.0	06/21/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	11	10.0	06/21/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	37	10.0	06/21/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	80	%		0.88	06/21/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	50	%		0.88	06/21/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082		Method: EPA 8082			Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	37	0.99	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	44	%		0.88	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	49	%		0.88	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides		Method: EPA 8151			Prep Method: EPA 3550			
2,4-D	ND	ug/kg	45	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	17	1.00	06/20/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	37	%		0.88	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260		Method: EPA 8260			Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	5.7	1.00	06/26/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	5.7	1.00	06/26/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	5.7	1.00	06/26/00	NLA	75-00-3	
Methylene Chloride	84	ug/kg	5.7	1.00	06/26/00	NLA	75-09-2	1
1,1-Dichloroethene	ND	ug/kg	5.7	1.00	06/26/00	NLA	75-35-4	
trans-1,2-Dichloroethene	ND	ug/kg	5.7	1.00	06/26/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556713 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX5 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	5.7	1.00	06/26/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	5.7	1.00	06/26/00	NLA	71-55-6	
Benzene	ND	ug/kg	5.7	1.00	06/26/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	5.7	1.00	06/26/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	5.7	1.00	06/26/00	NLA	79-01-6	
Toluene	ND	ug/kg	5.7	1.00	06/26/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	5.7	1.00	06/26/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	5.7	1.00	06/26/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.7	1.00	06/26/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	5.7	1.00	06/26/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	5.7	1.00	06/26/00	NLA	95-47-6	
Styrene	ND	ug/kg	5.7	1.00	06/26/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.7	1.00	06/26/00	NLA	79-34-5	
'exachlorobutadiene	ND	ug/kg	5.7	1.00	06/26/00	NLA	87-68-3	
etone	23	ug/kg	23	1.00	06/26/00	NLA	67-64-1	1
2-Butanone	ND	ug/kg	11	1.00	06/26/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	11	1.00	06/26/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	11	1.00	06/26/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	110	1.00	06/26/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	5.7	1.00	06/26/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	57	1.00	06/26/00	NLA	123-91-1	
Dibromofluoromethane (S)	84	%		0.88	06/26/00	NLA	1868-53-7	
Toluene-d8 (S)	92	%		0.88	06/26/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	92	%		0.88	06/26/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%		0.88	06/26/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	370	1.00	06/26/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	370	1.00	06/26/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	370	1.00	06/26/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	370	1.00	06/26/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	370	1.00	06/26/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	370	1.00	06/26/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	370	1.00	06/26/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	370	1.00	06/26/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	1800	1.00	06/26/00	WAW	65-85-0	
Naphthalene	64	ug/kg	370	1.00	06/26/00	WAW	91-20-3	2
xachlorobutadiene	ND	ug/kg	370	1.00	06/26/00	WAW	87-68-3	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556713 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX5 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	270	ug/kg	370	1.00	06/26/00	WAW	91-57-6	2
Acenaphthene	75	ug/kg	370	1.00	06/26/00	WAW	83-32-9	2
Dibenzofuran	59	ug/kg	370	1.00	06/26/00	WAW	132-64-9	2
2,4-Dinitrotoluene	ND	ug/kg	370	1.00	06/26/00	WAW	121-14-2	
Fluorene	120	ug/kg	370	1.00	06/26/00	WAW	86-73-7	2
N-Nitrosodiphenylamine	ND	ug/kg	370	1.00	06/26/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	370	1.00	06/26/00	WAW	118-74-1	
Phenanthrene	340	ug/kg	370	1.00	06/26/00	WAW	85-01-8	2
Anthracene	ND	ug/kg	370	1.00	06/26/00	WAW	120-12-7	
Di-n-butylphthalate	330	ug/kg	370	1.00	06/26/00	WAW	84-74-2	2
Fluoranthene	39	ug/kg	370	1.00	06/26/00	WAW	206-44-0	2
Pyrene	120	ug/kg	370	1.00	06/26/00	WAW	129-00-0	2
Butylbenzylphthalate	ND	ug/kg	370	1.00	06/26/00	WAW	85-68-7	
nzo(a)anthracene	ND	ug/kg	370	1.00	06/26/00	WAW	56-55-3	
rysene	55	ug/kg	370	1.00	06/26/00	WAW	218-01-9	2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	370	1.00	06/26/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	370	1.00	06/26/00	WAW	108-39-4	
Pyridine	ND	ug/kg	370	1.00	06/26/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	87	%		0.88	06/26/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	96	%		0.88	06/26/00	WAW	321-60-8	
Terphenyl-d14 (S)	85	%		0.88	06/26/00	WAW	1718-51-0	
Phenol-d6 (S)	97	%		0.88	06/26/00	WAW	13127-88-3	
2-Fluorophenol (S)	83	%		0.88	06/26/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	85	%		0.88	06/26/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556721 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX6 SURFACE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	13700	mg/kg	7.56	0.97	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	5.04	0.97	06/27/00	CAS	7440-36-0	
Arsenic	14.7	mg/kg	8.57	0.97	06/27/00	CAS	7440-38-2	
Barium	296	mg/kg	0.403	0.97	06/27/00	CAS	7440-39-3	1
Beryllium	0.662	mg/kg	0.101	0.97	06/27/00	CAS	7440-41-7	
Cadmium	1.55	mg/kg	0.504	0.97	06/27/00	CAS	7440-43-9	1
Calcium	37200	mg/kg	10.1	0.97	06/27/00	CAS	7440-70-2	
Chromium	36.9	mg/kg	0.705	0.97	06/27/00	CAS	7440-47-3	
Cobalt	9.39	mg/kg	0.705	0.97	06/27/00	CAS	7440-48-4	1
Copper	30.9	mg/kg	1.01	0.97	06/27/00	CAS	7440-50-8	
Iron	17200	mg/kg	4.03	0.97	06/27/00	CAS	7439-89-6	1
Lead	462	mg/kg	5.04	0.97	06/27/00	CAS	7439-92-1	1
Magnesium	3300	mg/kg	5.04	0.97	06/27/00	CAS	7439-95-4	1
Manganese	492	mg/kg	0.705	0.97	06/27/00	CAS	7439-96-5	1
Nickel	24.5	mg/kg	3.02	0.97	06/27/00	CAS	7440-02-0	1
Potassium	1560	mg/kg	101	0.97	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.705	0.97	06/27/00	CAS	7440-22-4	
Vanadium	29	mg/kg	1.21	0.97	06/27/00	CAS	7440-62-2	1
Zinc	227	mg/kg	10.1	0.97	06/27/00	CAS	7440-66-6	1
Tin	0.11	mg/kg	25.2	0.97	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.16	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.514	0.99	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.28	mg/kg	0.104	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.04	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556721 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX6 SURFACE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	20.8	mg/kg	5.19	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	3.7	%		0.96	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	21	10.0	06/21/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	14	10.0	06/21/00	JLO	58-89-9	
·ptachlor	ND	ug/kg	10	10.0	06/21/00	JLO	76-44-8	
·ptachlor Epoxide	ND	ug/kg	34	10.0	06/21/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	64	%		0.96	06/21/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	37	%		0.96	06/21/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	460	ug/kg	68	1.99	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	40	%		0.96	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	44	%		0.96	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	42	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	3.6	ug/kg	16	1.00	06/20/00	JLO	93-72-1	2
Dichlorophenyl Acetic Acid (S)	60	%		0.96	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	5.2	1.00	06/26/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	5.2	1.00	06/26/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	5.2	1.00	06/26/00	NLA	75-00-3	
Methylene Chloride	22	ug/kg	5.2	1.00	06/26/00	NLA	75-09-2	1
1,1-Dichloroethene	ND	ug/kg	5.2	1.00	06/26/00	NLA	75-35-4	
ans-1,2-Dichloroethene	ND	ug/kg	5.2	1.00	06/26/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556721 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX6 SURFACE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1.00	06/26/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1.00	06/26/00	NLA	71-55-6	
Benzene	ND	ug/kg	5.2	1.00	06/26/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	5.2	1.00	06/26/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	5.2	1.00	06/26/00	NLA	79-01-6	
Toluene	11	ug/kg	5.2	1.00	06/26/00	NLA	108-88-3	
Tetrachloroethene	4.4	ug/kg	5.2	1.00	06/26/00	NLA	127-18-4	2
Chlorobenzene	ND	ug/kg	5.2	1.00	06/26/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1.00	06/26/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	5.2	1.00	06/26/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	5.2	1.00	06/26/00	NLA	95-47-6	
Styrene	ND	ug/kg	5.2	1.00	06/26/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1.00	06/26/00	NLA	79-34-5	
'xachlorobutadiene	ND	ug/kg	5.2	1.00	06/26/00	NLA	87-68-3	
etone	14	ug/kg	21	1.00	06/26/00	NLA	67-64-1	1,2
2-Butanone	ND	ug/kg	10	1.00	06/26/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	10	1.00	06/26/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	10	1.00	06/26/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	100	1.00	06/26/00	NLA	591-78-6	
Xylene (Total)	2.6	ug/kg	5.2	1.00	06/26/00	NLA	1330-20-7	2
1,4-Dioxane (P-Dioxane)	ND	ug/kg	52	1.00	06/26/00	NLA	123-91-1	
Dibromofluoromethane (S)	92	%		0.96	06/26/00	NLA	1868-53-7	
Toluene-d8 (S)	91	%		0.96	06/26/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	93	%		0.96	06/26/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%		0.96	06/26/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication		
Phenol	ND	ug/kg	3400	9.92	06/27/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	3400	9.92	06/27/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	3400	9.92	06/27/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	3400	9.92	06/27/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	3400	9.92	06/27/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	3400	9.92	06/27/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	3400	9.92	06/27/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	3400	9.92	06/27/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	16000	9.92	06/27/00	WAW	65-85-0
Naphthalene	ND	ug/kg	3400	9.92	06/27/00	WAW	91-20-3
'achlorobutadiene	ND	ug/kg	3400	9.92	06/27/00	WAW	87-68-3

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556721 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX6 SURFACE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	ND	ug/kg	3400	9.92	06/27/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	3400	9.92	06/27/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	3400	9.92	06/27/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	3400	9.92	06/27/00	WAW	121-14-2	
Fluorene	ND	ug/kg	3400	9.92	06/27/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	3400	9.92	06/27/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	3400	9.92	06/27/00	WAW	118-74-1	
Phenanthrene	520	ug/kg	3400	9.92	06/27/00	WAW	85-01-8	2
Anthracene	ND	ug/kg	3400	9.92	06/27/00	WAW	120-12-7	
Di-n-butylphthalate	750	ug/kg	3400	9.92	06/27/00	WAW	84-74-2	1,2
Fluoranthene	470	ug/kg	3400	9.92	06/27/00	WAW	206-44-0	2
Pyrene	970	ug/kg	3400	9.92	06/27/00	WAW	129-00-0	2
Butylbenzylphthalate	3200	ug/kg	3400	9.92	06/27/00	WAW	85-68-7	2
nzo(a)anthracene	ND	ug/kg	3400	9.92	06/27/00	WAW	56-55-3	
rysene	490	ug/kg	3400	9.92	06/27/00	WAW	218-01-9	2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	3400	9.92	06/27/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	3400	9.92	06/27/00	WAW	108-39-4	
Pyridine	ND	ug/kg	3400	9.92	06/27/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	87	%		0.96	06/27/00	WAW	4165-60-0	10
2-Fluorobiphenyl (S)	84	%		0.96	06/27/00	WAW	321-60-8	
Terphenyl-d14 (S)	82	%		0.96	06/27/00	WAW	1718-51-0	
Phenol-d6 (S)	80	%		0.96	06/27/00	WAW	13127-88-3	
2-Fluorophenol (S)	75	%		0.96	06/27/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	85	%		0.96	06/27/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556739 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX8 SURFACE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	21.5	mg/kg	5.37	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	6.9	%		0.93	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	21	10.0	06/21/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	14	10.0	06/21/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	11	10.0	06/21/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	35	10.0	06/21/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	62	%		0.93	06/21/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	31	%		0.93	06/21/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	340	ug/kg	35	0.99	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	42	%		0.93	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	44	%		0.93	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	43	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	2.2	ug/kg	16	1.00	06/20/00	JLO	93-72-1	2
Dichlorophenyl Acetic Acid (S)	77	%		0.93	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	5.4	1.00	06/26/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	5.4	1.00	06/26/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	5.4	1.00	06/26/00	NLA	75-00-3	
Methylene Chloride	2.9	ug/kg	5.4	1.00	06/26/00	NLA	75-09-2	1,2
1,1-Dichloroethene	ND	ug/kg	5.4	1.00	06/26/00	NLA	75-35-4	
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1.00	06/26/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556739 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX8 SURFACE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1.00	06/26/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1.00	06/26/00	NLA	71-55-6	
Benzene	ND	ug/kg	5.4	1.00	06/26/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	5.4	1.00	06/26/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	5.4	1.00	06/26/00	NLA	79-01-6	
Toluene	ND	ug/kg	5.4	1.00	06/26/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	5.4	1.00	06/26/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	5.4	1.00	06/26/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	1.00	06/26/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	5.4	1.00	06/26/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	5.4	1.00	06/26/00	NLA	95-47-6	
Styrene	ND	ug/kg	5.4	1.00	06/26/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	1.00	06/26/00	NLA	79-34-5	
xachlorobutadiene	ND	ug/kg	5.4	1.00	06/26/00	NLA	87-68-3	
etone	21	ug/kg	21	1.00	06/26/00	NLA	67-64-1	1
2-Butanone	ND	ug/kg	11	1.00	06/26/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	11	1.00	06/26/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	11	1.00	06/26/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	110	1.00	06/26/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	5.4	1.00	06/26/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	54	1.00	06/26/00	NLA	123-91-1	
Dibromofluoromethane (S)	83	%		0.93	06/26/00	NLA	1868-53-7	
Toluene-d8 (S)	97	%		0.93	06/26/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	99	%		0.93	06/26/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%		0.93	06/26/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	3500	9.91	06/27/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	3500	9.91	06/27/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	3500	9.91	06/27/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	3500	9.91	06/27/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	3500	9.91	06/27/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	3500	9.91	06/27/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	3500	9.91	06/27/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	3500	9.91	06/27/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	17000	9.91	06/27/00	WAW	65-85-0
Naphthalene	ND	ug/kg	3500	9.91	06/27/00	WAW	91-20-3
xachlorobutadiene	ND	ug/kg	3500	9.91	06/27/00	WAW	87-68-3

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556739 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX8 SURFACE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	1600	ug/kg	3500	9.91	06/27/00	WAW	91-57-6	2
Acenaphthene	ND	ug/kg	3500	9.91	06/27/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	3500	9.91	06/27/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	3500	9.91	06/27/00	WAW	121-14-2	
Fluorene	ND	ug/kg	3500	9.91	06/27/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	3500	9.91	06/27/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	3500	9.91	06/27/00	WAW	118-74-1	
Phenanthrene	1400	ug/kg	3500	9.91	06/27/00	WAW	85-01-8	2
Anthracene	ND	ug/kg	3500	9.91	06/27/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	3500	9.91	06/27/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	3500	9.91	06/27/00	WAW	206-44-0	
Pyrene	ND	ug/kg	3500	9.91	06/27/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	3500	9.91	06/27/00	WAW	85-68-7	
nzo(a)anthracene	ND	ug/kg	3500	9.91	06/27/00	WAW	56-55-3	
rysene	ND	ug/kg	3500	9.91	06/27/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	3500	9.91	06/27/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	3500	9.91	06/27/00	WAW	108-39-4	
Pyridine	ND	ug/kg	3500	9.91	06/27/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	103	%		0.93	06/27/00	WAW	4165-60-0	10
2-Fluorobiphenyl (S)	105	%		0.93	06/27/00	WAW	321-60-8	
Terphenyl-d14 (S)	98	%		0.93	06/27/00	WAW	1718-51-0	
Phenol-d6 (S)	88	%		0.93	06/27/00	WAW	13127-88-3	
2-Fluorophenol (S)	71	%		0.93	06/27/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	109	%		0.93	06/27/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556747 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX8 BASE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	15300	mg/kg	8.89	0.93	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	5.93	0.93	06/27/00	CAS	7440-36-0	
Arsenic	14.6	mg/kg	10.1	0.93	06/27/00	CAS	7440-38-2	
Barium	261	mg/kg	0.474	0.93	06/27/00	CAS	7440-39-3	1
Beryllium	0.725	mg/kg	0.119	0.93	06/27/00	CAS	7440-41-7	
Cadmium	0.0064	mg/kg	0.593	0.93	06/27/00	CAS	7440-43-9	1
Calcium	3620	mg/kg	11.9	0.93	06/27/00	CAS	7440-70-2	
Chromium	17.1	mg/kg	0.83	0.93	06/27/00	CAS	7440-47-3	
Cobalt	12.1	mg/kg	0.83	0.93	06/27/00	CAS	7440-48-4	1
Copper	17.3	mg/kg	1.19	0.93	06/27/00	CAS	7440-50-8	
Iron	22200	mg/kg	4.74	0.93	06/27/00	CAS	7439-89-6	1
Lead	13.4	mg/kg	5.93	0.93	06/27/00	CAS	7439-92-1	1
Magnesium	3970	mg/kg	5.93	0.93	06/27/00	CAS	7439-95-4	1
Manganese	771	mg/kg	0.83	0.93	06/27/00	CAS	7439-96-5	1
Nickel	25.7	mg/kg	3.56	0.93	06/27/00	CAS	7440-02-0	1
Potassium	1780	mg/kg	119	0.93	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.83	0.93	06/27/00	CAS	7440-22-4	
Vanadium	39.3	mg/kg	1.42	0.93	06/27/00	CAS	7440-62-2	1
Zinc	78.7	mg/kg	11.9	0.93	06/27/00	CAS	7440-66-6	1
Tin	0.278	mg/kg	29.6	0.93	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.197	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.598	0.94	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.922	mg/kg	0.128	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.28	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556747 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX8 BASE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	20.5	mg/kg	6.4	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	21.9	%		0.78	06/13/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	2.5	1.00	06/20/00	JLO	319-85-7	11
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	06/20/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.3	1.00	06/20/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.2	1.00	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	78	%		0.78	06/20/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	56	%		0.78	06/20/00	JLO	877-09-8	
Date Extracted					06/19/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	42	1.00	06/28/00	JLO	11096-82-5	12
Decachlorobiphenyl (S)	63	%		0.78	06/28/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	49	%		0.78	06/28/00	JLO	877-09-8	
Date Extracted					06/19/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	51	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	19	1.00	06/20/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	80	%		0.78	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	6.4	1.00	06/24/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	75-00-3	
Methylene Chloride	4.1	ug/kg	6.4	1.00	06/24/00	NLA	75-09-2	1,2
1,1-Dichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	75-35-4	
trans-1,2-Dichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556747 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX8 BASE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	71-55-6	
Benzene	ND	ug/kg	6.4	1.00	06/24/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	79-01-6	
Toluene	ND	ug/kg	6.4	1.00	06/24/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6.4	1.00	06/24/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	6.4	1.00	06/24/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	6.4	1.00	06/24/00	NLA	95-47-6	
Styrene	ND	ug/kg	6.4	1.00	06/24/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	79-34-5	
xachlorobutadiene	ND	ug/kg	6.4	1.00	06/24/00	NLA	87-68-3	
.etone	420	ug/kg	26	1.00	06/24/00	NLA	67-64-1	1
2-Butanone	37	ug/kg	13	1.00	06/24/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	13	1.00	06/24/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	13	1.00	06/24/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	130	1.00	06/24/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	6.4	1.00	06/24/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	64	1.00	06/24/00	NLA	123-91-1	
Dibromofluoromethane (S)	108	%		0.78	06/24/00	NLA	1868-53-7	
Toluene-d8 (S)	103	%		0.78	06/24/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	99	%		0.78	06/24/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%		0.78	06/24/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	420	0.99	06/25/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	420	0.99	06/25/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	420	0.99	06/25/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	420	0.99	06/25/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	420	0.99	06/25/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	420	0.99	06/25/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	420	0.99	06/25/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	420	0.99	06/25/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	2000	0.99	06/25/00	WAW	65-85-0
Naphthalene	ND	ug/kg	420	0.99	06/25/00	WAW	91-20-3
xachlorobutadiene	ND	ug/kg	420	0.99	06/25/00	WAW	87-68-3

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556747 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX8 BASE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	ND	ug/kg	420	0.99	06/25/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	420	0.99	06/25/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	420	0.99	06/25/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	420	0.99	06/25/00	WAW	121-14-2	
Fluorene	ND	ug/kg	420	0.99	06/25/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	420	0.99	06/25/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	420	0.99	06/25/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	420	0.99	06/25/00	WAW	85-01-8	
Anthracene	ND	ug/kg	420	0.99	06/25/00	WAW	120-12-7	
Di-n-butylphthalate	330	ug/kg	420	0.99	06/25/00	WAW	84-74-2	1,2
Fluoranthene	ND	ug/kg	420	0.99	06/25/00	WAW	206-44-0	
Pyrene	ND	ug/kg	420	0.99	06/25/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	420	0.99	06/25/00	WAW	85-68-7	
nzo(a)anthracene	ND	ug/kg	420	0.99	06/25/00	WAW	56-55-3	
ysene	ND	ug/kg	420	0.99	06/25/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	420	0.99	06/25/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	420	0.99	06/25/00	WAW	108-39-4	
Pyridine	ND	ug/kg	420	0.99	06/25/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	68	%		0.78	06/25/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	68	%		0.78	06/25/00	WAW	321-60-8	
Terphenyl-d14 (S)	78	%		0.78	06/25/00	WAW	1718-51-0	
Phenol-d6 (S)	71	%		0.78	06/25/00	WAW	13127-88-3	
2-Fluorophenol (S)	69	%		0.78	06/25/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	90	%		0.78	06/25/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556754 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX8 MIDDLE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	16900	mg/kg	8.97	0.96	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	5.98	0.96	06/27/00	CAS	7440-36-0	
Arsenic	13.4	mg/kg	10.2	0.96	06/27/00	CAS	7440-38-2	
Barium	229	mg/kg	0.478	0.96	06/27/00	CAS	7440-39-3	1
Beryllium	0.734	mg/kg	0.12	0.96	06/27/00	CAS	7440-41-7	
Cadmium	0	mg/kg	0.598	0.96	06/27/00	CAS	7440-43-9	1
Calcium	2530	mg/kg	12	0.96	06/27/00	CAS	7440-70-2	
Chromium	17.1	mg/kg	0.837	0.96	06/27/00	CAS	7440-47-3	
Cobalt	11.7	mg/kg	0.837	0.96	06/27/00	CAS	7440-48-4	1
·pper	13.8	mg/kg	1.2	0.96	06/27/00	CAS	7440-50-8	
on	19500	mg/kg	4.78	0.96	06/27/00	CAS	7439-89-6	1
Lead	12.6	mg/kg	5.98	0.96	06/27/00	CAS	7439-92-1	1
Magnesium	3120	mg/kg	5.98	0.96	06/27/00	CAS	7439-95-4	1
Manganese	821	mg/kg	0.837	0.96	06/27/00	CAS	7439-96-5	1
Nickel	23	mg/kg	3.59	0.96	06/27/00	CAS	7440-02-0	1
Potassium	1840	mg/kg	120	0.96	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.837	0.96	06/27/00	CAS	7440-22-4	
Vanadium	36.1	mg/kg	1.44	0.96	06/27/00	CAS	7440-62-2	1
Zinc	61.5	mg/kg	12	0.96	06/27/00	CAS	7440-66-6	1
Tin	0.552	mg/kg	29.9	0.96	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.192	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.56	0.90	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.386	mg/kg	0.124	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
anide	ND	mg/kg	1.24	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556754 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX8 MIDDLE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil		Method: EPA 9030A			Prep Method: EPA 9030A			
Sulfide	29.9	mg/kg	6.22	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture		Method:			Prep Method:			
Percent Moisture	19.6	%		0.80	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC		Method: EPA 8081A			Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	2.5	1.00	06/20/00	JLO	319-85-7	11
gamma-BHC (Lindane)	ND	ug/kg	1.6	1.00	06/20/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.2	1.00	06/20/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.1	1.00	06/20/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	82	%		0.80	06/20/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	48	%		0.80	06/20/00	JLO	877-09-8	
Date Extracted					06/19/00			
PCBs in Soil by 8082		Method: EPA 8082			Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	ND	ug/kg	41	1.00	06/28/00	JLO	11096-82-5	13
Decachlorobiphenyl (S)	59	%		0.80	06/28/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	52	%		0.80	06/28/00	JLO	877-09-8	
Date Extracted					06/19/00			
Chlorinated Herbicides		Method: EPA 8151			Prep Method: EPA 3550			
2,4-D	ND	ug/kg	50	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	19	1.00	06/20/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	75	%		0.80	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260		Method: EPA 8260			Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6.2	1.00	06/24/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	6.2	1.00	06/24/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6.2	1.00	06/24/00	NLA	75-00-3	
Methylene Chloride	4.1	ug/kg	6.2	1.00	06/24/00	NLA	75-09-2	1,2
1,1-Dichloroethene	ND	ug/kg	6.2	1.00	06/24/00	NLA	75-35-4	
trans-1,2-Dichloroethene	ND	ug/kg	6.2	1.00	06/24/00	NLA	156-60-5	

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Client Project ID: ISC RFI

Pace Sample No: 603556754 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX8 MIDDLE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	6.2	1.00	06/24/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	6.2	1.00	06/24/00	NLA	71-55-6	
Benzene	12	ug/kg	6.2	1.00	06/24/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	6.2	1.00	06/24/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	6.2	1.00	06/24/00	NLA	79-01-6	
Toluene	1.6	ug/kg	6.2	1.00	06/24/00	NLA	108-88-3	2
Tetrachloroethene	ND	ug/kg	6.2	1.00	06/24/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6.2	1.00	06/24/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.2	1.00	06/24/00	NLA	630-20-6	
Ethylbenzene	5.3	ug/kg	6.2	1.00	06/24/00	NLA	100-41-4	2
O-Xylene (1,2-Dimethylbenzene)	10	ug/kg	6.2	1.00	06/24/00	NLA	95-47-6	
Styrene	ND	ug/kg	6.2	1.00	06/24/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.2	1.00	06/24/00	NLA	79-34-5	
xachlorobutadiene	ND	ug/kg	6.2	1.00	06/24/00	NLA	87-68-3	
etone	320	ug/kg	25	1.00	06/24/00	NLA	67-64-1	1
2-Butanone	44	ug/kg	12	1.00	06/24/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	12	1.00	06/24/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	12	1.00	06/24/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	120	1.00	06/24/00	NLA	591-78-6	
Xylene (Total)	24	ug/kg	6.2	1.00	06/24/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	62	1.00	06/24/00	NLA	123-91-1	
Dibromofluoromethane (S)	101	%		0.80	06/24/00	NLA	1868-53-7	
Toluene-d8 (S)	101	%		0.80	06/24/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	101	%		0.80	06/24/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%		0.80	06/24/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	410	1.00	06/25/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	410	1.00	06/25/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	410	1.00	06/25/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	410	1.00	06/25/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	410	1.00	06/25/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	410	1.00	06/25/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	410	1.00	06/25/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	410	1.00	06/25/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	2000	1.00	06/25/00	WAW	65-85-0
Naphthalene	ND	ug/kg	410	1.00	06/25/00	WAW	91-20-3
xachlorobutadiene	ND	ug/kg	410	1.00	06/25/00	WAW	87-68-3

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556754 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX8 MIDDLE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	ND	ug/kg	410	1.00	06/25/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	410	1.00	06/25/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	410	1.00	06/25/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	410	1.00	06/25/00	WAW	121-14-2	
Fluorene	ND	ug/kg	410	1.00	06/25/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	1.00	06/25/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	1.00	06/25/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	410	1.00	06/25/00	WAW	85-01-8	
Anthracene	ND	ug/kg	410	1.00	06/25/00	WAW	120-12-7	
Di-n-butylphthalate	270	ug/kg	410	1.00	06/25/00	WAW	84-74-2	2
Fluoranthene	ND	ug/kg	410	1.00	06/25/00	WAW	206-44-0	
Pyrene	ND	ug/kg	410	1.00	06/25/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	410	1.00	06/25/00	WAW	85-68-7	
nzo(a)anthracene	42	ug/kg	410	1.00	06/25/00	WAW	56-55-3	2
rysene	47	ug/kg	410	1.00	06/25/00	WAW	218-01-9	2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	410	1.00	06/25/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	410	1.00	06/25/00	WAW	108-39-4	
Pyridine	ND	ug/kg	410	1.00	06/25/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	69	%		0.80	06/25/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	68	%		0.80	06/25/00	WAW	321-60-8	
Terphenyl-d14 (S)	70	%		0.80	06/25/00	WAW	1718-51-0	
Phenol-d6 (S)	71	%		0.80	06/25/00	WAW	13127-88-3	
2-Fluorophenol (S)	73	%		0.80	06/25/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	80	%		0.80	06/25/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556804 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX9 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	11700	mg/kg	8.69	0.94	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	5.79	0.94	06/27/00	CAS	7440-36-0	
Arsenic	13.2	mg/kg	9.85	0.94	06/27/00	CAS	7440-38-2	
Barium	285	mg/kg	0.464	0.94	06/27/00	CAS	7440-39-3	1
Beryllium	0.63	mg/kg	0.116	0.94	06/27/00	CAS	7440-41-7	
Cadmium	0.365	mg/kg	0.579	0.94	06/27/00	CAS	7440-43-9	1,2
Calcium	3740	mg/kg	11.6	0.94	06/27/00	CAS	7440-70-2	
Chromium	15.9	mg/kg	0.811	0.94	06/27/00	CAS	7440-47-3	
Cobalt	11.9	mg/kg	0.811	0.94	06/27/00	CAS	7440-48-4	1
Copper	17.1	mg/kg	1.16	0.94	06/27/00	CAS	7440-50-8	
Iron	20300	mg/kg	4.64	0.94	06/27/00	CAS	7439-89-6	1
Lead	17.2	mg/kg	5.79	0.94	06/27/00	CAS	7439-92-1	1
Magnesium	3600	mg/kg	5.79	0.94	06/27/00	CAS	7439-95-4	1
Manganese	1100	mg/kg	0.811	0.94	06/27/00	CAS	7439-96-5	1
Nickel	30.9	mg/kg	3.48	0.94	06/27/00	CAS	7440-02-0	1
Potassium	1610	mg/kg	116	0.94	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.811	0.94	06/27/00	CAS	7440-22-4	
Vanadium	29.9	mg/kg	1.39	0.94	06/27/00	CAS	7440-62-2	1
Zinc	73.9	mg/kg	11.6	0.94	06/27/00	CAS	7440-66-6	1
Tin	0	mg/kg	29	0.94	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.189	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.563	0.92	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.418	mg/kg	0.123	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.23	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556804 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX9 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	19.7	mg/kg	6.14	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	18.6	%		0.81	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	24	10.0	06/21/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	16	10.0	06/21/00	JLO	58-89-9	
ptachlor	ND	ug/kg	12	10.0	06/21/00	JLO	76-44-8	
eptachlor Epoxide	ND	ug/kg	41	10.0	06/21/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	78	%		0.81	06/21/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	66	%		0.81	06/21/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	150	ug/kg	40	0.98	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	50	%		0.81	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	51	%		0.81	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	49	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	18	1.00	06/20/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	84	%		0.81	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6.1	1.00	06/24/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	6.1	1.00	06/24/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6.1	1.00	06/24/00	NLA	75-00-3	
Methylene Chloride	7.7	ug/kg	6.1	1.00	06/24/00	NLA	75-09-2	
1-Dichloroethene	ND	ug/kg	6.1	1.00	06/24/00	NLA	75-35-4	
ans-1,2-Dichloroethene	ND	ug/kg	6.1	1.00	06/24/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556804 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX9 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	6.1	1.00	06/24/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	6.1	1.00	06/24/00	NLA	71-55-6	
Benzene	ND	ug/kg	6.1	1.00	06/24/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	6.1	1.00	06/24/00	NLA	107-06-2	
Trichloroethene	11	ug/kg	6.1	1.00	06/24/00	NLA	79-01-6	
Toluene	38	ug/kg	6.1	1.00	06/24/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	6.1	1.00	06/24/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6.1	1.00	06/24/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.1	1.00	06/24/00	NLA	630-20-6	
Ethylbenzene	82	ug/kg	6.1	1.00	06/24/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	180	ug/kg	6.1	1.00	06/24/00	NLA	95-47-6	
Styrene	ND	ug/kg	6.1	1.00	06/24/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.1	1.00	06/24/00	NLA	79-34-5	
:achlorobutadiene	ND	ug/kg	6.1	1.00	06/24/00	NLA	87-68-3	
_etone	34	ug/kg	25	1.00	06/24/00	NLA	67-64-1	1
2-Butanone	ND	ug/kg	12	1.00	06/24/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	12	1.00	06/24/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	12	1.00	06/24/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	120	1.00	06/24/00	NLA	591-78-6	
Xylene (Total)	440	ug/kg	6.1	1.00	06/24/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	61	1.00	06/24/00	NLA	123-91-1	
Dibromofluoromethane (S)	132	%		0.81	06/24/00	NLA	1868-53-7	6
Toluene-d8 (S)	75	%		0.81	06/24/00	NLA	2037-26-5	14
4-Bromofluorobenzene (S)	95	%		0.81	06/24/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	131	%		0.81	06/24/00	NLA	17060-07-0	6

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	390	0.97	06/25/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	390	0.97	06/25/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	390	0.97	06/25/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	390	0.97	06/25/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	390	0.97	06/25/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	390	0.97	06/25/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	390	0.97	06/25/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	390	0.97	06/25/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	1900	0.97	06/25/00	WAW	65-85-0
"aphthalene	210	ug/kg	390	0.97	06/25/00	WAW	91-20-3
:achlorobutadiene	ND	ug/kg	390	0.97	06/25/00	WAW	87-68-3

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556804 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX9 | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	1100	ug/kg	390	0.97	06/25/00	WAW	91-57-6	
Acenaphthene	96	ug/kg	390	0.97	06/25/00	WAW	83-32-9	2
Dibenzofuran	80	ug/kg	390	0.97	06/25/00	WAW	132-64-9	2
2,4-Dinitrotoluene	ND	ug/kg	390	0.97	06/25/00	WAW	121-14-2	
Fluorene	130	ug/kg	390	0.97	06/25/00	WAW	86-73-7	2
N-Nitrosodiphenylamine	ND	ug/kg	390	0.97	06/25/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	390	0.97	06/25/00	WAW	118-74-1	
Phenanthrene	470	ug/kg	390	0.97	06/25/00	WAW	85-01-8	
Anthracene	ND	ug/kg	390	0.97	06/25/00	WAW	120-12-7	
Di-n-butylphthalate	250	ug/kg	390	0.97	06/25/00	WAW	84-74-2	1,2
Fluoranthene	ND	ug/kg	390	0.97	06/25/00	WAW	206-44-0	
Pyrene	97	ug/kg	390	0.97	06/25/00	WAW	129-00-0	2
Butylbenzylphthalate	ND	ug/kg	390	0.97	06/25/00	WAW	85-68-7	
nzo(a)anthracene	ND	ug/kg	390	0.97	06/25/00	WAW	56-55-3	
nrysene	ND	ug/kg	390	0.97	06/25/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	160	ug/kg	390	0.97	06/25/00	WAW	117-81-7	1,2
3-Methylphenol	ND	ug/kg	390	0.97	06/25/00	WAW	108-39-4	
Pyridine	ND	ug/kg	390	0.97	06/25/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	82	%		0.81	06/25/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	79	%		0.81	06/25/00	WAW	321-60-8	
Terphenyl-d14 (S)	75	%		0.81	06/25/00	WAW	1718-51-0	
Phenol-d6 (S)	83	%		0.81	06/25/00	WAW	13127-88-3	
2-Fluorophenol (S)	76	%		0.81	06/25/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	81	%		0.81	06/25/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556820 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX10 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	13600	mg/kg	9.42	0.98	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	6.28	0.98	06/27/00	CAS	7440-36-0	
Arsenic	13.1	mg/kg	10.7	0.98	06/27/00	CAS	7440-38-2	
Barium	271	mg/kg	0.502	0.98	06/27/00	CAS	7440-39-3	1
Beryllium	0.651	mg/kg	0.126	0.98	06/27/00	CAS	7440-41-7	
Cadmium	0.0821	mg/kg	0.628	0.98	06/27/00	CAS	7440-43-9	1,2
Calcium	3590	mg/kg	12.6	0.98	06/27/00	CAS	7440-70-2	
Chromium	17.9	mg/kg	0.879	0.98	06/27/00	CAS	7440-47-3	
Cobalt	12	mg/kg	0.879	0.98	06/27/00	CAS	7440-48-4	1
ɔper	17.8	mg/kg	1.26	0.98	06/27/00	CAS	7440-50-8	
on	18800	mg/kg	5.02	0.98	06/27/00	CAS	7439-89-6	1
Lead	17.1	mg/kg	6.28	0.98	06/27/00	CAS	7439-92-1	1
Magnesium	3770	mg/kg	6.28	0.98	06/27/00	CAS	7439-95-4	1
Manganese	540	mg/kg	0.879	0.98	06/27/00	CAS	7439-96-5	1
Nickel	24.4	mg/kg	3.77	0.98	06/27/00	CAS	7440-02-0	1
Potassium	1900	mg/kg	126	0.98	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.879	0.98	06/27/00	CAS	7440-22-4	
Vanadium	38.3	mg/kg	1.51	0.98	06/27/00	CAS	7440-62-2	1
Zinc	75.8	mg/kg	12.6	0.98	06/27/00	CAS	7440-66-6	1
Tin	0.296	mg/kg	31.4	0.98	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.197	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.628	0.98	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.333	mg/kg	0.128	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
anide	ND	mg/kg	1.28	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556820 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX10 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	15.4	mg/kg	6.4	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	21.9	%		0.78	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	25	10.0	06/21/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	17	10.0	06/21/00	JLO	58-89-9	
ptachlor	ND	ug/kg	13	10.0	06/21/00	JLO	76-44-8	
eptachlor Epoxide	ND	ug/kg	42	10.0	06/21/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	75	%		0.78	06/21/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	66	%		0.78	06/21/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	140	ug/kg	42	0.99	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	43	%		0.78	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	44	%		0.78	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	51	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	19	1.00	06/20/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	36	%		0.78	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	6.4	1.00	06/24/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	75-00-3	
Methylene Chloride	4.5	ug/kg	6.4	1.00	06/24/00	NLA	75-09-2	1,2
1,1-Dichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	75-35-4	
ans-1,2-Dichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556820 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX10 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	71-55-6	
Benzene	190	ug/kg	6.4	1.00	06/24/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	79-01-6	
Toluene	370	ug/kg	6.4	1.00	06/24/00	NLA	108-88-3	5
Tetrachloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6.4	1.00	06/24/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	630-20-6	
Ethylbenzene	930	ug/kg	6.4	1.00	06/24/00	NLA	100-41-4	5
O-Xylene (1,2-Dimethylbenzene)	2000	ug/kg	6.4	1.00	06/24/00	NLA	95-47-6	5
Styrene	ND	ug/kg	6.4	1.00	06/24/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	79-34-5	
xachlorobutadiene	ND	ug/kg	6.4	1.00	06/24/00	NLA	87-68-3	
.cetone	51	ug/kg	26	1.00	06/24/00	NLA	67-64-1	1
2-Butanone	ND	ug/kg	13	1.00	06/24/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	13	1.00	06/24/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	13	1.00	06/24/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	130	1.00	06/24/00	NLA	591-78-6	
Xylene (Total)	3900	ug/kg	6.4	1.00	06/24/00	NLA	1330-20-7	5
1,4-Dioxane (P-Dioxane)	ND	ug/kg	64	1.00	06/24/00	NLA	123-91-1	
Dibromofluoromethane (S)	94	%		0.78	06/24/00	NLA	1868-53-7	
Toluene-d8 (S)	89	%		0.78	06/24/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	76	%		0.78	06/24/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%		0.78	06/24/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	830	1.97	06/27/00	MSR	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	830	1.97	06/27/00	MSR	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	830	1.97	06/27/00	MSR	95-50-1	
2-Methylphenol	ND	ug/kg	830	1.97	06/27/00	MSR	95-48-7	
4-Methylphenol	ND	ug/kg	830	1.97	06/27/00	MSR	106-44-5	
Hexachloroethane	ND	ug/kg	830	1.97	06/27/00	MSR	67-72-1	
Nitrobenzene	ND	ug/kg	830	1.97	06/27/00	MSR	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	830	1.97	06/27/00	MSR	105-67-9	
Benzoic Acid	ND	ug/kg	4000	1.97	06/27/00	MSR	65-85-0	
Naphthalene	1300	ug/kg	830	1.97	06/27/00	MSR	91-20-3	
xachlorobutadiene	ND	ug/kg	830	1.97	06/27/00	MSR	87-68-3	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556820 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX10 Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	5000	ug/kg	830	1.97	06/27/00	MSR	91-57-6	
Acenaphthene	300	ug/kg	830	1.97	06/27/00	MSR	83-32-9	2
Dibenzofuran	230	ug/kg	830	1.97	06/27/00	MSR	132-64-9	2
2,4-Dinitrotoluene	ND	ug/kg	830	1.97	06/27/00	MSR	121-14-2	
Fluorene	390	ug/kg	830	1.97	06/27/00	MSR	86-73-7	2
N-Nitrosodiphenylamine	ND	ug/kg	830	1.97	06/27/00	MSR	86-30-6	
Hexachlorobenzene	ND	ug/kg	830	1.97	06/27/00	MSR	118-74-1	
Phenanthrene	1200	ug/kg	830	1.97	06/27/00	MSR	85-01-8	
Anthracene	ND	ug/kg	830	1.97	06/27/00	MSR	120-12-7	
Di-n-butylphthalate	360	ug/kg	830	1.97	06/27/00	MSR	84-74-2	1,2
Fluoranthene	ND	ug/kg	830	1.97	06/27/00	MSR	206-44-0	
Pyrene	300	ug/kg	830	1.97	06/27/00	MSR	129-00-0	2
Butylbenzylphthalate	ND	ug/kg	830	1.97	06/27/00	MSR	85-68-7	
nzo(a)anthracene	ND	ug/kg	830	1.97	06/27/00	MSR	56-55-3	
rysene	ND	ug/kg	830	1.97	06/27/00	MSR	218-01-9	
bis(2-Ethylhexyl)phthalate	490	ug/kg	830	1.97	06/27/00	MSR	117-81-7	2
3-Methylphenol	ND	ug/kg	830	1.97	06/27/00	MSR	108-39-4	
Pyridine	ND	ug/kg	830	1.97	06/27/00	MSR	110-86-1	
Nitrobenzene-d5 (S)	95	%		0.78	06/27/00	MSR	4165-60-0	
2-Fluorobiphenyl (S)	95	%		0.78	06/27/00	MSR	321-60-8	
Terphenyl-d14 (S)	86	%		0.78	06/27/00	MSR	1718-51-0	
Phenol-d6 (S)	97	%		0.78	06/27/00	MSR	13127-88-3	
2-Fluorophenol (S)	95	%		0.78	06/27/00	MSR	367-12-4	
2,4,6-Tribromophenol (S)	90	%		0.78	06/27/00	MSR	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556838 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX12 SURFACE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	3320	mg/kg	7.2	0.94	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	4.8	0.94	06/27/00	CAS	7440-36-0	
Arsenic	ND	mg/kg	8.16	0.94	06/27/00	CAS	7440-38-2	
Barium	202	mg/kg	0.384	0.94	06/27/00	CAS	7440-39-3	1
Beryllium	0.201	mg/kg	0.096	0.94	06/27/00	CAS	7440-41-7	
Cadmium	0.855	mg/kg	0.48	0.94	06/27/00	CAS	7440-43-9	1
Calcium	254000	mg/kg	9600	943	06/27/00	CAS	7440-70-2	15
Chromium	24.8	mg/kg	0.672	0.94	06/27/00	CAS	7440-47-3	
Cobalt	3.18	mg/kg	0.672	0.94	06/27/00	CAS	7440-48-4	1
Copper	47.6	mg/kg	0.96	0.94	06/27/00	CAS	7440-50-8	
Iron	7300	mg/kg	3.84	0.94	06/27/00	CAS	7439-89-6	1
Lead	90.7	mg/kg	4.8	0.94	06/27/00	CAS	7439-92-1	1
Magnesium	5050	mg/kg	4.8	0.94	06/27/00	CAS	7439-95-4	1
Manganese	338	mg/kg	0.672	0.94	06/27/00	CAS	7439-96-5	1
Nickel	12.4	mg/kg	2.88	0.94	06/27/00	CAS	7440-02-0	1
Potassium	642	mg/kg	96	0.94	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.672	0.94	06/27/00	CAS	7440-22-4	
Vanadium	7.66	mg/kg	1.15	0.94	06/27/00	CAS	7440-62-2	1
Zinc	172	mg/kg	9.6	0.94	06/27/00	CAS	7440-66-6	1
Tin	0	mg/kg	24	0.94	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.157	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.462	0.91	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.203	mg/kg	0.102	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.02	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556838 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX12 SURFACE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	16.3	mg/kg	5.09	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	1.7	%		0.98	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	20	10.0	06/21/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	13	10.0	06/21/00	JLO	58-89-9	
›tachlor	ND	ug/kg	10	10.0	06/21/00	JLO	76-44-8	
ptachlor Epoxide	ND	ug/kg	34	10.0	06/21/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	63	%		0.98	06/21/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	74	%		0.98	06/21/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	36	ug/kg	33	0.98	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	42	%		0.98	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	58	%		0.98	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	41	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	15	1.00	06/20/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	92	%		0.98	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	5.1	1.00	06/24/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	5.1	1.00	06/24/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	5.1	1.00	06/24/00	NLA	75-00-3	
Methylene Chloride	2.8	ug/kg	5.1	1.00	06/24/00	NLA	75-09-2	1,2
1-Dichloroethene	ND	ug/kg	5.1	1.00	06/24/00	NLA	75-35-4	
›ns-1,2-Dichloroethene	ND	ug/kg	5.1	1.00	06/24/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556838 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX12 SURFACE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	5.1	1.00	06/24/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	5.1	1.00	06/24/00	NLA	71-55-6	
Benzene	ND	ug/kg	5.1	1.00	06/24/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	5.1	1.00	06/24/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	5.1	1.00	06/24/00	NLA	79-01-6	
Toluene	ND	ug/kg	5.1	1.00	06/24/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	5.1	1.00	06/24/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	5.1	1.00	06/24/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.1	1.00	06/24/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	5.1	1.00	06/24/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	5.1	1.00	06/24/00	NLA	95-47-6	
Styrene	ND	ug/kg	5.1	1.00	06/24/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.1	1.00	06/24/00	NLA	79-34-5	
xachlorobutadiene	ND	ug/kg	5.1	1.00	06/24/00	NLA	87-68-3	
cetone	ND	ug/kg	20	1.00	06/24/00	NLA	67-64-1	
2-Butanone	ND	ug/kg	10	1.00	06/24/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	10	1.00	06/24/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	10	1.00	06/24/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	100	1.00	06/24/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	5.1	1.00	06/24/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	51	1.00	06/24/00	NLA	123-91-1	
Dibromofluoromethane (S)	103	%		0.98	06/24/00	NLA	1868-53-7	
Toluene-d8 (S)	80	%		0.98	06/24/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	80	%		0.98	06/24/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%		0.98	06/24/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics — Method: EPA 8270 — Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	330	0.97	06/27/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	330	0.97	06/27/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	330	0.97	06/27/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	330	0.97	06/27/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	330	0.97	06/27/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	330	0.97	06/27/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	330	0.97	06/27/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	330	0.97	06/27/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	1600	0.97	06/27/00	WAW	65-85-0
phthalene	ND	ug/kg	330	0.97	06/27/00	WAW	91-20-3
xachlorobutadiene	ND	ug/kg	330	0.97	06/27/00	WAW	87-68-3

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556838 | Date Collected: 06/09/00 | Matrix: Soil
Client Sample ID: EX12 SURFACE | Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	ND	ug/kg	330	0.97	06/27/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	330	0.97	06/27/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	330	0.97	06/27/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	330	0.97	06/27/00	WAW	121-14-2	
Fluorene	ND	ug/kg	330	0.97	06/27/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	330	0.97	06/27/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	330	0.97	06/27/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	330	0.97	06/27/00	WAW	85-01-8	
Anthracene	ND	ug/kg	330	0.97	06/27/00	WAW	120-12-7	
Di-n-butylphthalate	210	ug/kg	330	0.97	06/27/00	WAW	84-74-2	1,2
Fluoranthene	ND	ug/kg	330	0.97	06/27/00	WAW	206-44-0	
Pyrene	ND	ug/kg	330	0.97	06/27/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	330	0.97	06/27/00	WAW	85-68-7	
nzo(a)anthracene	ND	ug/kg	330	0.97	06/27/00	WAW	56-55-3	
rysene	ND	ug/kg	330	0.97	06/27/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	330	0.97	06/27/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	330	0.97	06/27/00	WAW	108-39-4	
Pyridine	ND	ug/kg	330	0.97	06/27/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	89	%		0.98	06/27/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	88	%		0.98	06/27/00	WAW	321-60-8	
Terphenyl-d14 (S)	75	%		0.98	06/27/00	WAW	1718-51-0	
Phenol-d6 (S)	93	%		0.98	06/27/00	WAW	13127-88-3	
2-Fluorophenol (S)	90	%		0.98	06/27/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	91	%		0.98	06/27/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556846 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX13 SURFACE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	2950	mg/kg	7.44	0.96	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	4.96	0.96	06/27/00	CAS	7440-36-0	
Arsenic	6.61	mg/kg	8.43	0.96	06/27/00	CAS	7440-38-2	2
Barium	77.9	mg/kg	0.397	0.96	06/27/00	CAS	7440-39-3	1
Beryllium	0.188	mg/kg	0.0991	0.96	06/27/00	CAS	7440-41-7	
Cadmium	0.481	mg/kg	0.496	0.96	06/27/00	CAS	7440-43-9	1,2
Calcium	283000	mg/kg	9910	962	06/27/00	CAS	7440-70-2	7
Chromium	9.1	mg/kg	0.694	0.96	06/27/00	CAS	7440-47-3	
Cobalt	2.89	mg/kg	0.694	0.96	06/27/00	CAS	7440-48-4	1
Copper	17.4	mg/kg	0.991	0.96	06/27/00	CAS	7440-50-8	
Iron	6540	mg/kg	3.97	0.96	06/27/00	CAS	7439-89-6	1
Lead	103	mg/kg	4.96	0.96	06/27/00	CAS	7439-92-1	1
Magnesium	6310	mg/kg	4.96	0.96	06/27/00	CAS	7439-95-4	1
Manganese	375	mg/kg	0.694	0.96	06/27/00	CAS	7439-96-5	1
Nickel	9.86	mg/kg	2.97	0.96	06/27/00	CAS	7440-02-0	1
Potassium	799	mg/kg	99.1	0.96	06/27/00	CAS	7440-09-7	1
Silver	0.213	mg/kg	0.694	0.96	06/27/00	CAS	7440-22-4	2
Vanadium	7.78	mg/kg	1.19	0.96	06/27/00	CAS	7440-62-2	1
Zinc	56.9	mg/kg	9.91	0.96	06/27/00	CAS	7440-66-6	1
Tin	0	mg/kg	24.8	0.96	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.159	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.51	0.99	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.134	mg/kg	0.103	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.03	1.00	06/20/00	JKS	57-12-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556846 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX13 SURFACE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	20.6	mg/kg	5.16	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	3.0	%		0.97	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	20	10.0	06/21/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	14	10.0	06/21/00	JLO	58-89-9	
›tachlor	ND	ug/kg	10	10.0	06/21/00	JLO	76-44-8	
.eptachlor Epoxide	ND	ug/kg	34	10.0	06/21/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	71	%		0.97	06/21/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	58	%		0.97	06/21/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	440	ug/kg	170	4.95	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	39	%		0.97	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	55	%		0.97	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	41	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	1.7	ug/kg	15	1.00	06/20/00	JLO	93-72-1	2
Dichlorophenyl Acetic Acid (S)	38	%		0.97	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	26	5.00	06/29/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	26	5.00	06/29/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	26	5.00	06/29/00	NLA	75-00-3	
Methylene Chloride	83	ug/kg	26	5.00	06/29/00	NLA	75-09-2	1
1-Dichloroethene	ND	ug/kg	26	5.00	06/29/00	NLA	75-35-4	
ans-1,2-Dichloroethene	ND	ug/kg	26	5.00	06/29/00	NLA	156-60-5	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556846 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX13 SURFACE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	26	5.00	06/29/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	26	5.00	06/29/00	NLA	71-55-6	
Benzene	ND	ug/kg	26	5.00	06/29/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	26	5.00	06/29/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	26	5.00	06/29/00	NLA	79-01-6	
Toluene	ND	ug/kg	26	5.00	06/29/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	26	5.00	06/29/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	26	5.00	06/29/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	26	5.00	06/29/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	26	5.00	06/29/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	26	5.00	06/29/00	NLA	95-47-6	
Styrene	ND	ug/kg	26	5.00	06/29/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	26	5.00	06/29/00	NLA	79-34-5	
xachlorobutadiene	ND	ug/kg	26	5.00	06/29/00	NLA	87-68-3	
cetone	280	ug/kg	100	5.00	06/29/00	NLA	67-64-1	1
2-Butanone	ND	ug/kg	52	5.00	06/29/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	52	5.00	06/29/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	52	5.00	06/29/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	520	5.00	06/29/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	26	5.00	06/29/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	260	5.00	06/29/00	NLA	123-91-1	
Dibromofluoromethane (S)	93	%		0.97	06/29/00	NLA	1868-53-7	
Toluene-d8 (S)	92	%		0.97	06/29/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	95	%		0.97	06/29/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%		0.97	06/29/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	3300	9.74	06/27/00	WAW	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	3300	9.74	06/27/00	WAW	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	3300	9.74	06/27/00	WAW	95-50-1
2-Methylphenol	ND	ug/kg	3300	9.74	06/27/00	WAW	95-48-7
4-Methylphenol	ND	ug/kg	3300	9.74	06/27/00	WAW	106-44-5
Hexachloroethane	ND	ug/kg	3300	9.74	06/27/00	WAW	67-72-1
Nitrobenzene	ND	ug/kg	3300	9.74	06/27/00	WAW	98-95-3
2,4-Dimethylphenol	ND	ug/kg	3300	9.74	06/27/00	WAW	105-67-9
Benzoic Acid	ND	ug/kg	16000	9.74	06/27/00	WAW	65-85-0
phthalene	ND	ug/kg	3300	9.74	06/27/00	WAW	91-20-3
xachlorobutadiene	ND	ug/kg	3300	9.74	06/27/00	WAW	87-68-3

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556846 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX13 SURFACE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	1700	ug/kg	3300	9.74	06/27/00	WAW	91-57-6	2
Acenaphthene	880	ug/kg	3300	9.74	06/27/00	WAW	83-32-9	2
Dibenzofuran	710	ug/kg	3300	9.74	06/27/00	WAW	132-64-9	2
2,4-Dinitrotoluene	ND	ug/kg	3300	9.74	06/27/00	WAW	121-14-2	
Fluorene	1700	ug/kg	3300	9.74	06/27/00	WAW	86-73-7	2
N-Nitrosodiphenylamine	ND	ug/kg	3300	9.74	06/27/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	3300	9.74	06/27/00	WAW	118-74-1	
Phenanthrene	4100	ug/kg	3300	9.74	06/27/00	WAW	85-01-8	
Anthracene	ND	ug/kg	3300	9.74	06/27/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	3300	9.74	06/27/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	3300	9.74	06/27/00	WAW	206-44-0	
Pyrene	1100	ug/kg	3300	9.74	06/27/00	WAW	129-00-0	2
Butylbenzylphthalate	ND	ug/kg	3300	9.74	06/27/00	WAW	85-68-7	
nzo(a)anthracene	ND	ug/kg	3300	9.74	06/27/00	WAW	56-55-3	
nrysene	ND	ug/kg	3300	9.74	06/27/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	1500	ug/kg	3300	9.74	06/27/00	WAW	117-81-7	1,2
3-Methylphenol	ND	ug/kg	3300	9.74	06/27/00	WAW	108-39-4	
Pyridine	ND	ug/kg	3300	9.74	06/27/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	101	%		0.97	06/27/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	98	%		0.97	06/27/00	WAW	321-60-8	
Terphenyl-d14 (S)	95	%		0.97	06/27/00	WAW	1718-51-0	
Phenol-d6 (S)	91	%		0.97	06/27/00	WAW	13127-88-3	
2-Fluorophenol (S)	77	%		0.97	06/27/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	95	%		0.97	06/27/00	WAW	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556861 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX13 BASE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	16000	mg/kg	9.19	0.95	06/27/00	CAS	7429-90-5	1
Antimony	ND	mg/kg	6.12	0.95	06/27/00	CAS	7440-36-0	
Arsenic	11.7	mg/kg	10.4	0.95	06/27/00	CAS	7440-38-2	
Barium	251	mg/kg	0.49	0.95	06/27/00	CAS	7440-39-3	1
Beryllium	0.703	mg/kg	0.122	0.95	06/27/00	CAS	7440-41-7	
Cadmium	0	mg/kg	0.612	0.95	06/27/00	CAS	7440-43-9	1
Calcium	3410	mg/kg	12.2	0.95	06/27/00	CAS	7440-70-2	
Chromium	18	mg/kg	0.857	0.95	06/27/00	CAS	7440-47-3	
Cobalt	12.2	mg/kg	0.857	0.95	06/27/00	CAS	7440-48-4	1
Copper	16.7	mg/kg	1.22	0.95	06/27/00	CAS	7440-50-8	
Iron	21800	mg/kg	4.9	0.95	06/27/00	CAS	7439-89-6	1
Lead	16.1	mg/kg	6.12	0.95	06/27/00	CAS	7439-92-1	1
Magnesium	4100	mg/kg	6.12	0.95	06/27/00	CAS	7439-95-4	1
Manganese	617	mg/kg	0.857	0.95	06/27/00	CAS	7439-96-5	1
Nickel	24	mg/kg	3.67	0.95	06/27/00	CAS	7440-02-0	1
Potassium	2140	mg/kg	122	0.95	06/27/00	CAS	7440-09-7	1
Silver	ND	mg/kg	0.857	0.95	06/27/00	CAS	7440-22-4	
Vanadium	39.2	mg/kg	1.47	0.95	06/27/00	CAS	7440-62-2	1
Zinc	71.8	mg/kg	12.2	0.95	06/27/00	CAS	7440-66-6	1
Tin	0.0663	mg/kg	30.6	0.95	06/27/00	CAS	7440-31-5	1
Date Digested					06/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.198	1.00	06/23/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.643	1.00	06/27/00	CAS	7440-28-0	
Date Digested					06/12/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.399	mg/kg	0.129	0.10	06/14/00	JKS	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.29	1.00	06/20/00	JKS	57-12-5	

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Pace Sample No: 603556861 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX13 BASE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	20.6	mg/kg	6.43	1.00	06/16/00	JKS		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	22.2	%		0.78	06/16/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	25	10.0	06/21/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	17	10.0	06/21/00	JLO	58-89-9	
ptachlor	ND	ug/kg	13	10.0	06/21/00	JLO	76-44-8	
eptachlor Epoxide	ND	ug/kg	42	10.0	06/21/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	63	%		0.78	06/21/00	JLO	2051-24-3	3
Tetrachloro-meta-xylene (S)	66	%		0.78	06/21/00	JLO	877-09-8	
Date Extracted					06/12/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	69	ug/kg	42	1.00	06/15/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	48	%		0.78	06/15/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	48	%		0.78	06/15/00	JLO	877-09-8	
Date Extracted					06/12/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	51	1.00	06/20/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	19	1.00	06/20/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	40	%		0.78	06/20/00	JLO		
Date Extracted					06/15/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	6.4	1.00	06/24/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	75-00-3	
Methylene Chloride	4.3	ug/kg	6.4	1.00	06/24/00	NLA	75-09-2	1.2
1-Dichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	75-35-4	
ans-1,2-Dichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	156-60-5	

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Client Sample ID: EX13 BASE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	71-55-6	
Benzene	10	ug/kg	6.4	1.00	06/24/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	79-01-6	
Toluene	23	ug/kg	6.4	1.00	06/24/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	6.4	1.00	06/24/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6.4	1.00	06/24/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	630-20-6	
Ethylbenzene	370	ug/kg	32	5.00	06/24/00	NLA	100-41-4	4
O-Xylene (1,2-Dimethylbenzene)	810	ug/kg	32	5.00	06/24/00	NLA	95-47-6	4
Styrene	ND	ug/kg	6.4	1.00	06/24/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.4	1.00	06/24/00	NLA	79-34-5	
Hexachlorobutadiene	ND	ug/kg	6.4	1.00	06/24/00	NLA	87-68-3	
Acetone	370	ug/kg	26	1.00	06/24/00	NLA	67-64-1	1
2-Butanone	15	ug/kg	13	1.00	06/24/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	13	1.00	06/24/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	13	1.00	06/24/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	130	1.00	06/24/00	NLA	591-78-6	
Xylene (Total)	2400	ug/kg	32	5.00	06/24/00	NLA	1330-20-7	4
1,4-Dioxane (P-Dioxane)	ND	ug/kg	64	1.00	06/24/00	NLA	123-91-1	
Dibromofluoromethane (S)	97	%		0.78	06/24/00	NLA	1868-53-7	
Toluene-d8 (S)	91	%		0.78	06/24/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	66	%		0.78	06/24/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%		0.78	06/24/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

Phenol	ND	ug/kg	840	1.99	06/27/00	MSR	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	840	1.99	06/27/00	MSR	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	840	1.99	06/27/00	MSR	95-50-1
2-Methylphenol	ND	ug/kg	840	1.99	06/27/00	MSR	95-48-7
4-Methylphenol	ND	ug/kg	840	1.99	06/27/00	MSR	106-44-5
Hexachloroethane	ND	ug/kg	840	1.99	06/27/00	MSR	67-72-1
Nitrobenzene	ND	ug/kg	840	1.99	06/27/00	MSR	98-95-3
2,4-Dimethylphenol	ND	ug/kg	840	1.99	06/27/00	MSR	105-67-9
Benzoic Acid	ND	ug/kg	4100	1.99	06/27/00	MSR	65-85-0
Naphthalene	1400	ug/kg	840	1.99	06/27/00	MSR	91-20-3
Hexachlorobutadiene	ND	ug/kg	840	1.99	06/27/00	MSR	87-68-3

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Phone: 913.599.5665
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Pace Project Number: 6041974
Client Project ID: ISC RFI

Pace Sample No: 603556861 Date Collected: 06/09/00 Matrix: Soil
Client Sample ID: EX13 BASE Date Received: 06/09/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	4300	ug/kg	840	1.99	06/27/00	MSR	91-57-6	
Acenaphthene	330	ug/kg	840	1.99	06/27/00	MSR	83-32-9	2
Dibenzofuran	190	ug/kg	840	1.99	06/27/00	MSR	132-64-9	2
2,4-Dinitrotoluene	ND	ug/kg	840	1.99	06/27/00	MSR	121-14-2	
Fluorene	270	ug/kg	840	1.99	06/27/00	MSR	86-73-7	2
N-Nitrosodiphenylamine	ND	ug/kg	840	1.99	06/27/00	MSR	86-30-6	
Hexachlorobenzene	ND	ug/kg	840	1.99	06/27/00	MSR	118-74-1	
Phenanthrene	1000	ug/kg	840	1.99	06/27/00	MSR	85-01-8	
Anthracene	ND	ug/kg	840	1.99	06/27/00	MSR	120-12-7	
Di-n-butylphthalate	340	ug/kg	840	1.99	06/27/00	MSR	84-74-2	1,2
Fluoranthene	ND	ug/kg	840	1.99	06/27/00	MSR	206-44-0	
Pyrene	330	ug/kg	840	1.99	06/27/00	MSR	129-00-0	2
Butylbenzylphthalate	ND	ug/kg	840	1.99	06/27/00	MSR	85-68-7	
nzo(a)anthracene	ND	ug/kg	840	1.99	06/27/00	MSR	56-55-3	
nrysene	180	ug/kg	840	1.99	06/27/00	MSR	218-01-9	2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	840	1.99	06/27/00	MSR	117-81-7	
3-Methylphenol	ND	ug/kg	840	1.99	06/27/00	MSR	108-39-4	
Pyridine	ND	ug/kg	840	1.99	06/27/00	MSR	110-86-1	
Nitrobenzene-d5 (S)	94	%		0.78	06/27/00	MSR	4165-60-0	
2-Fluorobiphenyl (S)	86	%		0.78	06/27/00	MSR	321-60-8	
Terphenyl-d14 (S)	88	%		0.78	06/27/00	MSR	1718-51-0	
Phenol-d6 (S)	93	%		0.78	06/27/00	MSR	13127-88-3	
2-Fluorophenol (S)	95	%		0.78	06/27/00	MSR	367-12-4	
2,4,6-Tribromophenol (S)	86	%		0.78	06/27/00	MSR	118-79-6	
Date Extracted					06/13/00			

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Pace Project Number: 6041974
Client Project ID: ISC RFI

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
(S)	Surrogate
App. DF	Applied Dilution Factor
[1]	Analyte is found in the associated blank as well as in the sample (CLP B-Flag).
[2]	Detected but below the PRL; therefore, result is an estimated concentration (CLP J-Flag).
[3]	The sample was diluted due to the presence of high levels of non_target analytes.
[4]	This result is from a 1:5 dilution on 6/29/00.
[5]	Compound concentration exceeds the calibration range of the instrument (CLP E-Flag).
[6]	The surrogate recovery value exceeded the established laboratory control limit value.
[7]	Due to high analyte concentration, this sample was reported from the 06/28/00 analytical run. The dilution factor was necessary to bring it within the instument limitations.
[8]	Elevated quantitation limits resulting from matrix interference.
[9]	Due to high analyte concentration, this sample was reported from the 06/28/00 analytical run. The dilution factor was necessary to bring it within the instument limitations.
	Elevated detection limits due to difficult sample matrix.
[11]	This sample is associated to LCS 603616582.
[12]	This sample is associated to LCS 603612565.
[13]	This LCS is associated to LCS 603612565.
[14]	The surrogate recovery value is below the established laboratory control limit value.
[15]	Due to high analyte concentration, this sample was reported from the 06/28/00 analytical run. The dilution factor was necessary to bring it within the instument limitations.

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 84852
Analysis Method: EPA 7841
Associated Pace Samples: 603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

QC Batch Method: EPA 3050
Analysis Description: Thallium, AAS Furnace

METHOD BLANK: 603558883
Associated Pace Samples: 603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
Thallium	mg/kg	ND	0.472	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603558891 603558909

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Thallium	mg/kg	0.4788	4.878	4.653	85.6	4.337	82.9	3	

LABORATORY CONTROL SAMPLE: 603558917

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Thallium	mg/kg	3.540	3.216	90.9	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 84909
QC Batch Method: EPA 3550
Analysis Method: EPA 8082
Analysis Description: PCBs in Soil by 8082
Associated Pace Samples: 603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556804 603556820 603556838 603556846 603556754 603556861

METHOD BLANK: 603560038
Associated Pace Samples:
603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556804 603556820 603556838 603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	ND	33	
Decachlorobiphenyl (S)	%	82		
Tetrachloro-meta-xylene (S)	%	69		

METHOD BLANK: 603612557
Associated Pace Samples:
603556747 603556754

Parameter	Units	Method Blank Result	PRL	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	ND	33	
Decachlorobiphenyl (S)	%	71		
Tetrachloro-meta-xylene (S)	%	76		

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QUALITY CONTROL DATA

DATE: 07/27/00

Pace Project Number: 6041974
Client Project ID: ISC RFI

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603560046 603560053

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	0	417.9	264.7	63.4	0	0	200	
Decachlorobiphenyl (S)					62		0		1
Tetrachloro-meta-xylene (S)					45		0		

LABORATORY CONTROL SAMPLE: 603560061

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	333.3	276.4	82.9	
Decachlorobiphenyl (S)				83	
Tetrachloro-meta-xylene (S)				71	

TORY CONTROL SAMPLE: 603612565

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	333.3	249.7	74.9	
Decachlorobiphenyl (S)				71	
Tetrachloro-meta-xylene (S)				68	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 84910
QC Batch Method: EPA 3550
Analysis Method: EPA 8081A
Analysis Description: Organochlorine Pesticides, GC
Associated Pace Samples: 603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556754 603556804 603556820 603556838 603556846 603556861

METHOD BLANK: 603560079
Associated Pace Samples:
603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556804 603556820 603556838 603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
beta-BHC	ug/kg	ND	2	
gamma-BHC (Lindane)	ug/kg	ND	1.3	
Heptachlor	ug/kg	ND	0.99	
Heptachlor Epoxide	ug/kg	ND	3.3	
Decachlorobiphenyl (S)	%	60		
Tetrachloro-meta-xylene (S)	%	62		

METHOD BLANK: 603616574
Associated Pace Samples:
603556747 603556754

Parameter	Units	Method Blank Result	PRL	Footnotes
beta-BHC	ug/kg	ND	2	
gamma-BHC (Lindane)	ug/kg	ND	1.3	
Heptachlor	ug/kg	ND	0.99	
Heptachlor Epoxide	ug/kg	ND	3.3	
D[illegible]-[illegible]hlorobiphenyl (S)	%	85		
T[illegible]-[illegible]hloro-meta-xylene (S)	%	78		

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603560087 603560095

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
gamma-BHC (Lindane)	ug/kg	0	21.34	15.67	73.4	18.72	87.7	18	
Heptachlor	ug/kg	0	21.34	15.10	70.8	18.21	85.3	19	
Decachlorobiphenyl (S)					72		88		
Tetrachloro-meta-xylene (S)					55		60		

LABORATORY CONTROL SAMPLE: 603560103

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
beta-BHC	ug/kg	16.67	13.15	78.9	
gamma-BHC (Lindane)	ug/kg	16.67	12.83	77.0	
Heptachlor	ug/kg	16.67	12.59	75.5	
Heptachlor Epoxide	ug/kg	16.67	12.97	77.8	
[illegible]lorobiphenyl (S)				73	
[illegible]chloro-meta-xylene (S)				68	

LABORATORY CONTROL SAMPLE: 603616582

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
beta-BHC	ug/kg	16.67	15.90	95.4	
gamma-BHC (Lindane)	ug/kg	16.67	12.64	75.8	
Heptachlor	ug/kg	16.67	12.34	74.0	
Heptachlor Epoxide	ug/kg	16.67	13.52	81.1	
Decachlorobiphenyl (S)				77	
Tetrachloro-meta-xylene (S)				69	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 84931
Analysis Method: EPA 8260
Associated Pace Samples:

QC Batch Method: EPA 8260
Analysis Description: GC/MS VOCs by 8260

603556606	603556614	603556622	603556655	603556697
603556705	603556713	603556721	603556739	603556747
603556754	603556804	603556820	603556838	603556846
603556861				

METHOD BLANK: 603560632
Associated Pace Samples:

603556606 603556614 603556655 603556747

Parameter	Units	Method Blank Result	PRL	Footnotes
Chloromethane	ug/kg	ND	5	
Vinyl Chloride	ug/kg	ND	5	
Chloroethane	ug/kg	ND	5	
Methylene Chloride	ug/kg	1.6	5	2
1,1-Dichloroethene	ug/kg	ND	5	
trans-1,2-Dichloroethene	ug/kg	ND	5	
cis-1,2-Dichloroethene	ug/kg	ND	5	
1,1,1-Trichloroethane	ug/kg	ND	5	
Benzene	ug/kg	ND	5	
1,2-Dichloroethane	ug/kg	ND	5	
Trichloroethene	ug/kg	ND	5	
Toluene	ug/kg	ND	5	
Tetrachloroethene	ug/kg	ND	5	
Chlorobenzene	ug/kg	ND	5	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5	
Ethylbenzene	ug/kg	ND	5	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	ND	5	
Styrene	ug/kg	ND	5	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5	
Hexachlorobutadiene	ug/kg	ND	5	
Ac[illegible]e	ug/kg	9.6	20	2
2[illegible]none	ug/kg	ND	10	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

METHOD BLANK: 603560632
Associated Pace Samples:
603556606 603556614 603556655 603556747

Parameter	Units	Method Blank Result	PRL	Footnotes
4-Methyl-2-Pentanone	ug/kg	ND	10	
Carbon Disulfide	ug/kg	ND	10	
2-Hexanone	ug/kg	ND	100	
Xylene (Total)	ug/kg	ND	5	
1,4-Dioxane (P-Dioxane)	ug/kg	ND	50	
Dibromofluoromethane (S)	%	105		
Toluene-d8 (S)	%	101		
4-Bromofluorobenzene (S)	%	97		
1,2-Dichloroethane-d4 (S)	%	110		

BLANK: 603604919
Associated Pace Samples:
603556754 603556804 603556820 603556838 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
Chloromethane	ug/kg	ND	5	
Vinyl Chloride	ug/kg	ND	5	
Chloroethane	ug/kg	ND	5	
Methylene Chloride	ug/kg	2.0	5	2
1,1-Dichloroethene	ug/kg	ND	5	
trans-1,2-Dichloroethene	ug/kg	ND	5	
cis-1,2-Dichloroethene	ug/kg	ND	5	
1,1,1-Trichloroethane	ug/kg	ND	5	
Benzene	ug/kg	ND	5	
1,2-Dichloroethane	ug/kg	ND	5	
Trichloroethene	ug/kg	ND	5	
Toluene	ug/kg	ND	5	
Tetrachloroethene	ug/kg	ND	5	
Chlorobenzene	ug/kg	ND	5	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5	
Ethylbenzene	ug/kg	ND	5	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	ND	5	
Styrene	ug/kg	ND	5	
1 2-Tetrachloroethane	ug/kg	ND	5	
Hk ilorobutadiene	ug/kg	ND	5	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

METHOD BLANK: 603604919
Associated Pace Samples:

603556754 603556804 603556820 603556838 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
Acetone	ug/kg	15	20	2
2-Butanone	ug/kg	ND	10	
4-Methyl-2-Pentanone	ug/kg	ND	10	
Carbon Disulfide	ug/kg	ND	10	
2-Hexanone	ug/kg	ND	100	
Xylene (Total)	ug/kg	ND	5	
1,4-Dioxane (P-Dioxane)	ug/kg	ND	50	
Dibromofluoromethane (S)	%	99		
Toluene-d8 (S)	%	101		
4-Bromofluorobenzene (S)	%	99		
1,2-Dichloroethane-d4 (S)	%	98		

METHOD BLANK: 603683848
Associated Pace Samples:

603556697 603556705 603556713 603556721 603556739

Parameter	Units	Method Blank Result	PRL	Footnotes
Chloromethane	ug/kg	ND	5	
Vinyl Chloride	ug/kg	ND	5	
Chloroethane	ug/kg	ND	5	
Methylene Chloride	ug/kg	3.6	5	2
1,1-Dichloroethene	ug/kg	ND	5	
trans-1,2-Dichloroethene	ug/kg	ND	5	
cis-1,2-Dichloroethene	ug/kg	ND	5	
1,1,1-Trichloroethane	ug/kg	ND	5	
Benzene	ug/kg	ND	5	
1,2-Dichloroethane	ug/kg	ND	5	
Trichloroethene	ug/kg	ND	5	
Toluene	ug/kg	ND	5	
Tetrachloroethene	ug/kg	ND	5	
Chlorobenzene	ug/kg	ND	5	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5	
Ethylbenzene	ug/kg	ND	5	
O [illegible]ene (1,2-Dimethylbenzene)	ug/kg	ND	5	
S[illegible]e	ug/kg	ND	5	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

METHOD BLANK: 603683848
Associated Pace Samples:
603556697 603556705 603556713 603556721 603556739

Parameter	Units	Method Blank Result	PRL	Footnotes
1,1,2,2-Tetrachloroethane	ug/kg	ND	5	
Hexachlorobutadiene	ug/kg	ND	5	
Acetone	ug/kg	12	20	2
2-Butanone	ug/kg	ND	10	
4-Methyl-2-Pentanone	ug/kg	ND	10	
Carbon Disulfide	ug/kg	ND	10	
2-Hexanone	ug/kg	ND	100	
Xylene (Total)	ug/kg	ND	5	
1,4-Dioxane (P-Dioxane)	ug/kg	ND	50	
Dibromofluoromethane (S)	%	84		
Toluene-d8 (S)	%	98		
[illegible]ofluorobenzene (S)	%	97		
[illegible]chloroethane-d4 (S)	%	102		

METHOD BLANK: 603683855
Associated Pace Samples:
603556846

Parameter	Units	Method Blank Result	PRL	Footnotes
Chloromethane	ug/kg	ND	5	
Vinyl Chloride	ug/kg	ND	5	
Chloroethane	ug/kg	ND	5	
Methylene Chloride	ug/kg	1.7	5	2
1,1-Dichloroethene	ug/kg	ND	5	
trans-1,2-Dichloroethene	ug/kg	ND	5	
cis-1,2-Dichloroethene	ug/kg	ND	5	
1,1,1-Trichloroethane	ug/kg	ND	5	
Benzene	ug/kg	ND	5	
1,2-Dichloroethane	ug/kg	ND	5	
Trichloroethene	ug/kg	ND	5	
Toluene	ug/kg	ND	5	
Tetrachloroethene	ug/kg	ND	5	
Chlorobenzene	ug/kg	ND	5	
1[illegible]2-Tetrachloroethane	ug/kg	ND	5	
E[illegible]enzene	ug/kg	ND	5	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

METHOD BLANK: 603683855
Associated Pace Samples:
603556846

Parameter	Units	Method Blank Result	PRL	Footnotes
O-Xylene (1,2-Dimethylbenzene)	ug/kg	ND	5	
Styrene	ug/kg	ND	5	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5	
Hexachlorobutadiene	ug/kg	ND	5	
Acetone	ug/kg	18	20	2
2-Butanone	ug/kg	ND	10	
4-Methyl-2-Pentanone	ug/kg	ND	10	
Carbon Disulfide	ug/kg	ND	10	
2-Hexanone	ug/kg	ND	100	
Xylene (Total)	ug/kg	ND	5	
1,4-Dioxane (P-Dioxane)	ug/kg	ND	50	
[illegible]ofluoromethane (S)	%	84		
[illegible]ene-d8 (S)	%	98		
4-Bromofluorobenzene (S)	%	96		
1,2-Dichloroethane-d4 (S)	%	99		

METHOD BLANK: 603683913
Associated Pace Samples:
603556622

Parameter	Units	Method Blank Result	PRL	Footnotes
Chloromethane	ug/kg	ND	5	
Vinyl Chloride	ug/kg	ND	5	
Chloroethane	ug/kg	ND	5	
Methylene Chloride	ug/kg	1.2	5	2
1,1-Dichloroethene	ug/kg	ND	5	
trans-1,2-Dichloroethene	ug/kg	ND	5	
cis-1,2-Dichloroethene	ug/kg	ND	5	
1,1,1-Trichloroethane	ug/kg	ND	5	
Benzene	ug/kg	ND	5	
1,2-Dichloroethane	ug/kg	ND	5	
Trichloroethene	ug/kg	ND	5	
Toluene	ug/kg	ND	5	
T[illegible]chloroethene	ug/kg	ND	5	
C[illegible]benzene	ug/kg	ND	5	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

METHOD BLANK: 603683913
Associated Pace Samples:
603556622

Parameter	Units	Method Blank Result	PRL	Footnotes
1,1,1,2-Tetrachloroethane	ug/kg	ND	5	
Ethylbenzene	ug/kg	ND	5	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	ND	5	
Styrene	ug/kg	ND	5	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5	
Hexachlorobutadiene	ug/kg	ND	5	
Acetone	ug/kg	19	20	2
2-Butanone	ug/kg	ND	10	
4-Methyl-2-Pentanone	ug/kg	ND	10	
Carbon Disulfide	ug/kg	ND	10	
2-Hexanone	ug/kg	ND	100	
(Total)	ug/kg	ND	5	
Dioxane (P-Dioxane)	ug/kg	ND	50	
Dibromofluoromethane (S)	%	86		
Toluene-d8 (S)	%	96		
4-Bromofluorobenzene (S)	%	97		
1,2-Dichloroethane-d4 (S)	%	99		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603598855 603598863

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
1,1-Dichloroethene	ug/kg	0	64.02	61.97	96.8	63.84	99.7	3	
Benzene	ug/kg	0	64.02	63.06	98.5	63.66	99.4	1	
Trichloroethene	ug/kg	0	64.02	57.41	89.7	57.97	90.6	1	
Toluene	ug/kg	0	64.02	65.17	102	66.86	104	3	
Chlorobenzene	ug/kg	0	64.02	63.37	99.0	64.75	101	2	
Dibromofluoromethane (S)					98		97		
Toluene-d8 (S)					101		101		
4-Bromofluorobenzene (S)					106		106		

LABORATORY CONTROL SAMPLE: 603560640

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
C. methane	ug/kg	50	46.93	93.9	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

LABORATORY CONTROL SAMPLE: 603560640

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Vinyl Chloride	ug/kg	50	47.00	94.0	
Chloroethane	ug/kg	50	47.15	94.3	
Methylene Chloride	ug/kg	50	47.16	94.3	
1,1-Dichloroethene	ug/kg	50	47.29	94.6	
trans-1,2-Dichloroethene	ug/kg	50	47.29	94.6	
cis-1,2-Dichloroethene	ug/kg	50	48.19	96.4	
1,1,1-Trichloroethane	ug/kg	50	47.38	94.8	
Benzene	ug/kg	50	47.60	95.2	
1,2-Dichloroethane	ug/kg	50	47.81	95.6	
Trichloroethene	ug/kg	50	47.37	94.7	
Toluene	ug/kg	50	48.18	96.4	
Tetrachloroethene	ug/kg	50	46.96	93.9	
Chlorobenzene	ug/kg	50	47.61	95.2	
1,1,1,2-Tetrachloroethane	ug/kg	50	47.82	95.6	
[illegible]enzene	ug/kg	50	48.19	96.4	
[illegible]ene (1,2-Dimethylbenzene)	ug/kg	50	47.60	95.2	
Styrene	ug/kg	50	47.82	95.6	
1,1,2,2-Tetrachloroethane	ug/kg	50	46.98	94.0	
Hexachlorobutadiene	ug/kg	50	46.86	93.7	
Dibromofluoromethane (S)				101	
Toluene-d8 (S)				100	
4-Bromofluorobenzene (S)				102	
1,2-Dichloroethane-d4 (S)				100	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

METHOD BLANK: 603564253
Associated Pace Samples:

603556606 603556614 603556622 603556655 603556697 603556705 603556713
603556721 603556739 603556747 603556754 603556804 603556820 603556838
603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
Di-n-butylphthalate	ug/kg	ND	330	
Fluoranthene	ug/kg	ND	330	
Pyrene	ug/kg	ND	330	
Butylbenzylphthalate	ug/kg	ND	330	
Benzo(a)anthracene	ug/kg	ND	330	
Chrysene	ug/kg	ND	330	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	
3-Methylphenol	ug/kg	ND	330	
Pyridine	ug/kg	ND	330	
Nitrobenzene-d5 (S)	%	73		
2-Fluorobiphenyl (S)	%	74		
Terphenyl-d14 (S)	%	81		
Phenol-d6 (S)	%	78		
2-Fluorophenol (S)	%	79		
2,4,6-Tribromophenol (S)	%	87		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603564261 603564279

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Phenol	ug/kg	0	3192	2214	69.3	2238	70.2	1	
1,4-Dichlorobenzene	ug/kg	0	2128	1316	61.8	1357	63.8	3	
Acenaphthene	ug/kg	0	2128	1513	71.1	1530	72.0	1	
2,4-Dinitrotoluene	ug/kg	0	2128	1761	82.7	1806	84.9	3	
Pyrene	ug/kg	0	2128	1777	83.5	1815	85.4	2	
Nitrobenzene-d5 (S)					71		72		
2-Fluorobiphenyl (S)					68		72		
Terphenyl-d14 (S)					78		78		
Phenol-d6 (S)					75		77		
2-Fluorophenol (S)					73		75		
2,4,6-Tribromophenol (S)					85		90		

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85011
Analysis Method: EPA 8270
Associated Pace Samples: 603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

QC Batch Method: EPA 3550 Sonication
Analysis Description: Semivolatile Organics

METHOD BLANK: 603564253
Associated Pace Samples:
603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
Phenol	ug/kg	ND	330	
1,4-Dichlorobenzene	ug/kg	ND	330	
1,2-Dichlorobenzene	ug/kg	ND	330	
2-Methylphenol	ug/kg	ND	330	
4-Methylphenol	ug/kg	ND	330	
Hexachloroethane	ug/kg	ND	330	
Nitrobenzene	ug/kg	ND	330	
2,4-Dimethylphenol	ug/kg	ND	330	
Benzoic Acid	ug/kg	ND	1600	
Naphthalene	ug/kg	ND	330	
Hexachlorobutadiene	ug/kg	ND	330	
2-Methylnaphthalene	ug/kg	ND	330	
Acenaphthene	ug/kg	ND	330	
Dibenzofuran	ug/kg	ND	330	
2,4-Dinitrotoluene	ug/kg	ND	330	
Fluorene	ug/kg	ND	330	
N-Nitrosodiphenylamine	ug/kg	ND	330	
Hexachlorobenzene	ug/kg	ND	330	
P[illegible]nthrene	ug/kg	ND	330	
A[illegible]cene	ug/kg	ND	330	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

METHOD BLANK: 603564253
Associated Pace Samples:

603556606 603556614 603556622 603556655 603556697 603556705 603556713
603556721 603556739 603556747 603556754 603556804 603556820 603556838
603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
Di-n-butylphthalate	ug/kg	ND	330	
Fluoranthene	ug/kg	ND	330	
Pyrene	ug/kg	ND	330	
Butylbenzylphthalate	ug/kg	ND	330	
Benzo(a)anthracene	ug/kg	ND	330	
Chrysene	ug/kg	ND	330	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	
3-Methylphenol	ug/kg	ND	330	
Pyridine	ug/kg	ND	330	
Nitrobenzene-d5 (S)	%	73		
2-Fluorobiphenyl (S)	%	74		
Terphenyl-d14 (S)	%	81		
Phenol-d6 (S)	%	78		
2-Fluorophenol (S)	%	79		
2,4,6-Tribromophenol (S)	%	87		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603564261 603564279

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Phenol	ug/kg	0	3192	2214	69.3	2238	70.2	1	
1,4-Dichlorobenzene	ug/kg	0	2128	1316	61.8	1357	63.8	3	
Acenaphthene	ug/kg	0	2128	1513	71.1	1530	72.0	1	
2,4-Dinitrotoluene	ug/kg	0	2128	1761	82.7	1806	84.9	3	
Pyrene	ug/kg	0	2128	1777	83.5	1815	85.4	2	
Nitrobenzene-d5 (S)					71		72		
2-Fluorobiphenyl (S)					68		72		
Terphenyl-d14 (S)					78		78		
Phenol-d6 (S)					75		77		
2-Fluorophenol (S)					73		75		
2,4,6-Tribromophenol (S)					85		90		

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

LABORATORY CONTROL SAMPLE: 603564287

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Phenol	ug/kg	2500	1737	69.5	
1,4-Dichlorobenzene	ug/kg	1667	1081	64.9	
Acenaphthene	ug/kg	1667	1208	72.5	
2,4-Dinitrotoluene	ug/kg	1667	1402	84.1	
Pyrene	ug/kg	1667	1457	87.4	
Nitrobenzene-d5 (S)				71	
2-Fluorobiphenyl (S)				75	
Terphenyl-d14 (S)				80	
Phenol-d6 (S)				78	
2-Fluorophenol (S)				75	
2,4,6-Tribromophenol (S)				90	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85067 *
Analysis Method: EPA 7196 Modified
Associated Pace Samples: 603556606, 603556614, 603556622, 603556655, 603556697, 603556705, 603556713, 603556721, 603556739, 603556747, 603556754, 603556804, 603556820, 603556838, 603556846, 603556861

QC Batch Method: EPA 7196 Modified
Analysis Description: Chromium, Hexavalent, in Soil

METHOD BLANK: 603566068
Associated Pace Samples:
603556606 603556614 603556622 603556655 603556697 603556705 603556713
603556721 603556739 603556747 603556754 603556804 603556820 603556838
603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
Chromium, Hexavalent	mg/kg	ND	0.1	

MATRIX SPIKE: 603566076

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Chromium, Hexavalent	mg/kg	0.9219	1.280	0.5249	-31.0	3

LABORATORY CONTROL SAMPLE: 603556092

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Chromium, Hexavalent	mg/kg	1.000	1.010	101	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

SAMPLE DUPLICATE: 603566084

Parameter	Units	603556747	Dup. Result	RPD	Footnotes
Chromium, Hexavalent	mg/kg	0.9220	0.3970	0	4

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85108
Analysis Method: EPA 9030A
Associated Pace Samples: 603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

QC Batch Method: EPA 9030A
Analysis Description: Sulfides in Waste, for Soil

METHOD BLANK: 603567975
Associated Pace Samples:
603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
Sulfide	mg/kg	ND	5	

MATRIX SPIKE: 603567983

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Sulfide	mg/kg	20.49	640.2	604.3	91.2	

LABORATORY CONTROL SAMPLE: 603568007

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Sulfide	mg/kg	500	485.0	97.0	

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QUALITY CONTROL DATA

DATE: 07/27/00

Pace Project Number: 6041974
Client Project ID: ISC RFI

SAMPLE DUPLICATE: 603567991

Parameter	Units	603556747	Dup. Result	RPD	Footnotes
Sulfide	mg/kg	20.50	24.00	16	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85177
Analysis Method: EPA 8151
Associated Pace Samples: 603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

QC Batch Method: EPA 3550
Analysis Description: Chlorinated Herbicides

METHOD BLANK: 603570730
Associated Pace Samples: 603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
2,4-D	ug/kg	ND	40	
2,4,5-TP(Silvex)	ug/kg	ND	15	
Dichlorophenyl Acetic Acid (S)	%	90		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603570748 603570755

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
2,4-D	ug/kg	3.543	425.5	350.8	81.6	344.8	80.2	2	
2,4,5-TP(Silvex)	ug/kg	0	42.55	40.03	94.1	39.35	92.4	2	
Dichlorophenyl Acetic Acid (S)					97		91		

LABORATORY CONTROL SAMPLE: 603570763

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
2,4-D	ug/kg	333.3	250.6	75.2	
2 TP(Silvex)	ug/kg	33.33	29.77	89.3	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

LABORATORY CONTROL SAMPLE: 603570763

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Dichlorophenyl Acetic Acid (S)				94	

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QUALITY CONTROL DATA

DATE: 07/27/00

Deffenbaugh Industries
18181 West 53rd Street
Shawnee. KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85199
QC Batch Method:
Analysis Method:
Analysis Description: Percent Moisture
Associated Pace Samples:

	603556606	603556614	603556622	603556655	603556697
	603556705	603556713	603556721	603556739	603556754
	603556804	603556820	603556838	603556846	603556861

SAMPLE DUPLICATE: 603572082

Parameter	Units	603556606	Dup. Result	RPD	Footnotes
Moisture	%	19.40	19.30	0	

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QUALITY CONTROL DATA

DATE: 07/27/00
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Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85199
QC Batch Method:
Analysis Method:
Analysis Description: Percent Moisture
Associated Pace Samples:

	603556606	603556614	603556622	603556655	603556697
	603556705	603556713	603556721	603556739	603556754
	603556804	603556820	603556838	603556846	603556861

SAMPLE DUPLICATE: 603572082

Parameter	Units	603556606	Dup. Result	RPD	Footnotes
Moisture	%	19.40	19.30	0	

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QUALITY CONTROL DATA

DATE: 07/27/00

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85400
Analysis Method: EPA 6010
Associated Pace Samples: 603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

QC Batch Method: EPA 3050
Analysis Description: Metals-Standard ICP, Soil

METHOD BLANK: 603581323
Associated Pace Samples:
603556606 603556614 603556622 603556655 603556697 603556705 603556713
603556721 603556739 603556747 603556754 603556804 603556820 603556838
603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
Aluminum	mg/kg	2.82	7.35	2
Antimony	mg/kg	ND	4.9	
Arsenic	mg/kg	ND	8.33	
Barium	mg/kg	0.285	0.392	2
Beryllium	mg/kg	ND	0.098	
Cadmium	mg/kg	0.0606	0.49	2
Calcium	mg/kg	8.29	9.8	2
Chromium	mg/kg	ND	0.686	
Cobalt	mg/kg	0.199	0.686	2
Copper	mg/kg	ND	0.98	
Iron	mg/kg	7.8	3.92	
Lead	mg/kg	0.255	4.9	2
Magnesium	mg/kg	1.16	4.9	2
Manganese	mg/kg	0.219	0.686	2
Nickel	mg/kg	0.144	2.94	2
Potassium	mg/kg	12.3	98	2
Silver	mg/kg	ND	0.686	
Vanadium	mg/kg	0.173	1.18	2
Zinc	mg/kg	3.13	9.8	2
T	mg/kg	2.61	24.5	2

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603581331 603581349

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Aluminum	mg/kg	15310	1268	19170	304	18340	248	20	
Antimony	mg/kg	0	126.8	30.53	24.1	23.16	19.0	24	
Arsenic	mg/kg	14.65	126.8	132.5	93.0	125.7	91.1	2	
Barium	mg/kg	261.4	126.8	396.5	107	397.7	112	5	
Beryllium	mg/kg	0.7249	12.68	13.41	100	12.72	98.4	2	
Cadmium	mg/kg	0.006402	12.68	11.74	92.6	11.19	91.7	1	
Calcium	mg/kg	3623	1268	4992	108	5032	116	7	
Chromium	mg/kg	17.08	126.8	143.6	99.8	135.2	96.9	3	
Cobalt	mg/kg	12.12	126.8	134.3	96.4	127.9	95.0	1	
Copper	mg/kg	17.27	126.8	148.0	103	140.9	101	2	
Iron	mg/kg	22240	1268	24300	162	24180	160	2	
Lead	mg/kg	13.42	126.8	136.0	96.7	130.0	95.6	1	
Magnesium	mg/kg	3969	1268	5505	121	5327	111	8	
Manganese	mg/kg	771.5	126.8	1232	363	1311	442	20	
[illegible]	mg/kg	25.73	126.8	150.9	98.7	144.0	97.0	2	
[illegible]um	mg/kg	1777	1268	3160	109	2954	96.5	12	
Silver	mg/kg	0	12.68	7.829	61.8	7.375	60.5	2	
Vanadium	mg/kg	39.27	126.8	166.4	100	156.6	96.2	4	
Zinc	mg/kg	78.70	126.8	192.5	89.7	186.4	88.3	2	
Tin	mg/kg	0.2775	126.8	1103	870	1046	858	1	

LABORATORY CONTROL SAMPLE: 603581356

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Aluminum	mg/kg	980.4	941.1	96.0	
Antimony	mg/kg	98.04	95.19	97.1	
Arsenic	mg/kg	98.04	94.50	96.4	
Barium	mg/kg	98.04	98.40	100	
Beryllium	mg/kg	9.804	10.12	103	
Cadmium	mg/kg	9.804	9.587	97.8	
Calcium	mg/kg	980.4	999.7	102	
Chromium	mg/kg	98.04	100.6	103	
Cobalt	mg/kg	98.04	100.1	102	
Copper	mg/kg	98.04	99.19	101	
Iron	mg/kg	980.4	982.9	100	
Lead	mg/kg	98.04	99.81	102	
Magnesium	mg/kg	980.4	955.5	97.5	
Manganese	mg/kg	98.04	100.4	102	
N[illegible]	mg/kg	98.04	101.8	104	

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QUALITY CONTROL DATA

Pace Project Number: 6041974
Client Project ID: ISC RFI

LABORATORY CONTROL SAMPLE: 603581356

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Potassium	mg/kg	980.4	980.7	100	
Silver	mg/kg	9.804	8.845	90.2	
Vanadium	mg/kg	98.04	99.38	101	
Zinc	mg/kg	98.04	92.19	94.0	
Tin	mg/kg	98.04	963.8	983	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85401
Analysis Method: EPA 9010A
Associated Pace Samples: 603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

QC Batch Method: EPA 9010A
Analysis Description: Cyanide, Total, Soil

METHOD BLANK: 603581364
Associated Pace Samples:
603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
Cyanide	mg/kg	ND	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603581372 603581380

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Cyanide	mg/kg	0	12.8	6.914	54.0	12.29	96.0	56	5

LABORATORY CONTROL SAMPLE: 603581398

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Cyanide	mg/kg	10	10.10	101	

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QUALITY CONTROL DATA

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

QC Batch ID: 85407
Analysis Method: EPA 7471
Associated Pace Samples: 603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

QC Batch Method: EPA 7471
Analysis Description: Mercury, Soil CVAAS

METHOD BLANK: 603581570
Associated Pace Samples:
603556606 603556614 603556622 603556655 603556697 603556705 603556713 603556721 603556739 603556747 603556754 603556804 603556820 603556838 603556846 603556861

Parameter	Units	Method Blank Result	PRL	Footnotes
Mercury	mg/kg	ND	0.154	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603581588 603581596

Parameter	Units	603556747	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Mercury	mg/kg	0.06978	2.134	2.114	95.8	2.090	94.7	1	

LABORATORY CONTROL SAMPLE: 603581604

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Mercury	mg/kg	1.667	1.606	96.3	

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Pace Project Number: 6041974
Client Project ID: ISC RFI

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	The MSD recovery information is not available due to a preparation problem. The LCS demonstrates successful recovery of this QA/QC group.
[2]	Detected but below the PRL; therefore, result is an estimated concentration (CLP J-Flag).
[3]	Matrix spike outside of control limits due to turbidity of sample.
[4]	RPD outside of control limits due to turbidity of samples.
[5]	MS/MSD RPD outlier.

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QUALITY CONTROL DATA
CROSS REFERENCE TABLE

DATE: 07/27/00

Deffenbaugh Industries
18181 West 53rd Street
Shawnee, KS 66217

Pace Project Number: 6041974
Client Project ID: ISC RFI
SDG Number: 6041974D

Attn: Mr. Mick Cossairt
Phone: (913)631-3300 x185

Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603556606	EX13 MIDDLE	EPA 3050	84852	EPA 7841	85771
603556614	EX14 BASE	EPA 3050	84852	EPA 7841	85771
603556622	EX14 SURFACE	EPA 3050	84852	EPA 7841	85771
603556655	DUP	EPA 3050	84852	EPA 7841	85771
603556697	EX2	EPA 3050	84852	EPA 7841	85771
603556705	EX3	EPA 3050	84852	EPA 7841	85771
603556713	EX5	EPA 3050	84852	EPA 7841	85771
603556721	EX6 SURFACE	EPA 3050	84852	EPA 7841	85771
603556739	EX8 SURFACE	EPA 3050	84852	EPA 7841	85771
603556747	EX8 BASE	EPA 3050	84852	EPA 7841	85771
603556754	EX8 MIDDLE	EPA 3050	84852	EPA 7841	85771
603556804	EX9	EPA 3050	84852	EPA 7841	85771
603556820	EX10	EPA 3050	84852	EPA 7841	85771
603556838	EX12 SURFACE	EPA 3050	84852	EPA 7841	85771
603556846	EX13 SURFACE	EPA 3050	84852	EPA 7841	85771
603556861	EX13 BASE	EPA 3050	84852	EPA 7841	85771
603556606	EX13 MIDDLE	EPA 3550	84909	EPA 8082	84994
603556614	EX14 BASE	EPA 3550	84909	EPA 8082	84994
603556622	EX14 SURFACE	EPA 3550	84909	EPA 8082	84994
603556655	DUP	EPA 3550	84909	EPA 8082	84994
603556697	EX2	EPA 3550	84909	EPA 8082	84994
603556705	EX3	EPA 3550	84909	EPA 8082	84994
603556713	EX5	EPA 3550	84909	EPA 8082	84994
603556721	EX6 SURFACE	EPA 3550	84909	EPA 8082	84994
603556739	EX8 SURFACE	EPA 3550	84909	EPA 8082	84994
603556747	EX8 BASE	EPA 3550	84909	EPA 8082	84994
603556754	EX8 MIDDLE	EPA 3550	84909	EPA 8082	84994
603556804	EX9	EPA 3550	84909	EPA 8082	84994
603556820	EX10	EPA 3550	84909	EPA 8082	84994
603556838	EX12 SURFACE	EPA 3550	84909	EPA 8082	84994

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Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603556846	EX13 SURFACE	EPA 3550	84909	EPA 8082	84994
603556861	EX13 BASE	EPA 3550	84909	EPA 8082	84994
603556606	EX13 MIDDLE	EPA 3550	84910	EPA 8081A	84993
603556614	EX14 BASE	EPA 3550	84910	EPA 8081A	84993
603556622	EX14 SURFACE	EPA 3550	84910	EPA 8081A	84993
603556655	DUP	EPA 3550	84910	EPA 8081A	84993
603556697	EX2	EPA 3550	84910	EPA 8081A	84993
603556705	EX3	EPA 3550	84910	EPA 8081A	84993
603556713	EX5	EPA 3550	84910	EPA 8081A	84993
603556721	EX6 SURFACE	EPA 3550	84910	EPA 8081A	84993
603556739	EX8 SURFACE	EPA 3550	84910	EPA 8081A	84993
603556747	EX8 BASE	EPA 3550	84910	EPA 8081A	84993
603556754	EX8 MIDDLE	EPA 3550	84910	EPA 8081A	84993
603556804	EX9	EPA 3550	84910	EPA 8081A	84993
603556820	EX10	EPA 3550	84910	EPA 8081A	84993
603556838	EX12 SURFACE	EPA 3550	84910	EPA 8081A	84993
3556846	EX13 SURFACE	EPA 3550	84910	EPA 8081A	84993
603556861	EX13 BASE	EPA 3550	84910	EPA 8081A	84993
603556606	EX13 MIDDLE	EPA 8260	84931		
603556614	EX14 BASE	EPA 8260	84931		
603556622	EX14 SURFACE	EPA 8260	84931		
603556655	DUP	EPA 8260	84931		
603556697	EX2	EPA 8260	84931		
603556705	EX3	EPA 8260	84931		
603556713	EX5	EPA 8260	84931		
603556721	EX6 SURFACE	EPA 8260	84931		
603556739	EX8 SURFACE	EPA 8260	84931		
603556747	EX8 BASE	EPA 8260	84931		
603556754	EX8 MIDDLE	EPA 8260	84931		
603556804	EX9	EPA 8260	84931		
603556820	EX10	EPA 8260	84931		
603556838	EX12 SURFACE	EPA 8260	84931		
603556846	EX13 SURFACE	EPA 8260	84931		
603556861	EX13 BASE	EPA 8260	84931		
603556747	EX8 BASE		84990		
603556606	EX13 MIDDLE	EPA 3550 Sonication	85011	EPA 8270	85737
603556614	EX14 BASE	EPA 3550 Sonication	85011	EPA 8270	85737
603556622	EX14 SURFACE	EPA 3550 Sonication	85011	EPA 8270	85737
3556655	DUP	EPA 3550 Sonication	85011	EPA 8270	85737

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Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603556697	EX2	EPA 3550 Sonication	85011	EPA 8270	85737
603556705	EX3	EPA 3550 Sonication	85011	EPA 8270	85737
603556713	EX5	EPA 3550 Sonication	85011	EPA 8270	85737
603556721	EX6 SURFACE	EPA 3550 Sonication	85011	EPA 8270	85737
603556739	EX8 SURFACE	EPA 3550 Sonication	85011	EPA 8270	85737
603556747	EX8 BASE	EPA 3550 Sonication	85011	EPA 8270	85737
603556754	EX8 MIDDLE	EPA 3550 Sonication	85011	EPA 8270	85737
603556804	EX9	EPA 3550 Sonication	85011	EPA 8270	85737
603556820	EX10	EPA 3550 Sonication	85011	EPA 8270	85737
603556838	EX12 SURFACE	EPA 3550 Sonication	85011	EPA 8270	85737
603556846	EX13 SURFACE	EPA 3550 Sonication	85011	EPA 8270	85737
603556861	EX13 BASE	EPA 3550 Sonication	85011	EPA 8270	85737
603556606	EX13 MIDDLE	EPA 7196 Modified	85067		
603556614	EX14 BASE	EPA 7196 Modified	85067		
603556622	EX14 SURFACE	EPA 7196 Modified	85067		
603556655	DUP	EPA 7196 Modified	85067		
603556697	EX2	EPA 7196 Modified	85067		
603556705	EX3	EPA 7196 Modified	85067		
603556713	EX5	EPA 7196 Modified	85067		
603556721	EX6 SURFACE	EPA 7196 Modified	85067		
603556739	EX8 SURFACE	EPA 7196 Modified	85067		
603556747	EX8 BASE	EPA 7196 Modified	85067		
603556754	EX8 MIDDLE	EPA 7196 Modified	85067		
603556804	EX9	EPA 7196 Modified	85067		
603556820	EX10	EPA 7196 Modified	85067		
603556838	EX12 SURFACE	EPA 7196 Modified	85067		
603556846	EX13 SURFACE	EPA 7196 Modified	85067		
603556861	EX13 BASE	EPA 7196 Modified	85067		
603556606	EX13 MIDDLE	EPA 9030A	85108		
603556614	EX14 BASE	EPA 9030A	85108		
603556622	EX14 SURFACE	EPA 9030A	85108		
603556655	DUP	EPA 9030A	85108		
603556697	EX2	EPA 9030A	85108		
603556705	EX3	EPA 9030A	85108		
603556713	EX5	EPA 9030A	85108		
603556721	EX6 SURFACE	EPA 9030A	85108		
603556739	EX8 SURFACE	EPA 9030A	85108		
603556747	EX8 BASE	EPA 9030A	85108		
603556754	EX8 MIDDLE	EPA 9030A	85108		
603556804	EX9	EPA 9030A	85108		
603556820	EX10	EPA 9030A	85108		

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Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603556838	EX12 SURFACE	EPA 9030A	85108		
603556846	EX13 SURFACE	EPA 9030A	85108		
603556861	EX13 BASE	EPA 9030A	85108		
603556606	EX13 MIDDLE	EPA 3550	85177	EPA 8151	85429
603556614	EX14 BASE	EPA 3550	85177	EPA 8151	85429
603556622	EX14 SURFACE	EPA 3550	85177	EPA 8151	85429
603556655	DUP	EPA 3550	85177	EPA 8151	85429
603556697	EX2	EPA 3550	85177	EPA 8151	85429
603556705	EX3	EPA 3550	85177	EPA 8151	85429
603556713	EX5	EPA 3550	85177	EPA 8151	85429
603556721	EX6 SURFACE	EPA 3550	85177	EPA 8151	85429
603556739	EX8 SURFACE	EPA 3550	85177	EPA 8151	85429
603556747	EX8 BASE	EPA 3550	85177	EPA 8151	85429
603556754	EX8 MIDDLE	EPA 3550	85177	EPA 8151	85429
603556804	EX9	EPA 3550	85177	EPA 8151	85429
603556820	EX10	EPA 3550	85177	EPA 8151	85429
3556838	EX12 SURFACE	EPA 3550	85177	EPA 8151	85429
603556846	EX13 SURFACE	EPA 3550	85177	EPA 8151	85429
603556861	EX13 BASE	EPA 3550	85177	EPA 8151	85429
603556606	EX13 MIDDLE		85199		
603556614	EX14 BASE		85199		
603556622	EX14 SURFACE		85199		
603556655	DUP		85199		
603556697	EX2		85199		
603556705	EX3		85199		
603556713	EX5		85199		
603556721	EX6 SURFACE		85199		
603556739	EX8 SURFACE		85199		
603556754	EX8 MIDDLE		85199		
603556804	EX9		85199		
603556820	EX10		85199		
603556838	EX12 SURFACE		85199		
603556846	EX13 SURFACE		85199		
603556861	EX13 BASE		85199		
603556606	EX13 MIDDLE	EPA 3050	85400	EPA 6010	85896
603556614	EX14 BASE	EPA 3050	85400	EPA 6010	85896
603556622	EX14 SURFACE	EPA 3050	85400	EPA 6010	85896
603556655	DUP	EPA 3050	85400	EPA 6010	85896
603556697	EX2	EPA 3050	85400	EPA 6010	85896
3556705	EX3	EPA 3050	85400	EPA 6010	85896

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Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603556713	EX5	EPA 3050	85400	EPA 6010	85896
603556721	EX6 SURFACE	EPA 3050	85400	EPA 6010	85896
603556739	EX8 SURFACE	EPA 3050	85400	EPA 6010	85896
603556747	EX8 BASE	EPA 3050	85400	EPA 6010	85896
603556754	EX8 MIDDLE	EPA 3050	85400	EPA 6010	85896
603556804	EX9	EPA 3050	85400	EPA 6010	85896
603556820	EX10	EPA 3050	85400	EPA 6010	85896
603556838	EX12 SURFACE	EPA 3050	85400	EPA 6010	85896
603556846	EX13 SURFACE	EPA 3050	85400	EPA 6010	85896
603556861	EX13 BASE	EPA 3050	85400	EPA 6010	85896
603556606	EX13 MIDDLE	EPA 9010A	85401		
603556614	EX14 BASE	EPA 9010A	85401		
603556622	EX14 SURFACE	EPA 9010A	85401		
603556655	DUP	EPA 9010A	85401		
603556697	EX2	EPA 9010A	85401		
603556705	EX3	EPA 9010A	85401		
603556713	EX5	EPA 9010A	85401		
603556721	EX6 SURFACE	EPA 9010A	85401		
603556739	EX8 SURFACE	EPA 9010A	85401		
603556747	EX8 BASE	EPA 9010A	85401		
603556754	EX8 MIDDLE	EPA 9010A	85401		
603556804	EX9	EPA 9010A	85401		
603556820	EX10	EPA 9010A	85401		
603556838	EX12 SURFACE	EPA 9010A	85401		
603556846	EX13 SURFACE	EPA 9010A	85401		
603556861	EX13 BASE	EPA 9010A	85401		
603556606	EX13 MIDDLE	EPA 7471	85407		
603556614	EX14 BASE	EPA 7471	85407		
603556622	EX14 SURFACE	EPA 7471	85407		
603556655	DUP	EPA 7471	85407		
603556697	EX2	EPA 7471	85407		
603556705	EX3	EPA 7471	85407		
603556713	EX5	EPA 7471	85407		
603556721	EX6 SURFACE	EPA 7471	85407		
603556739	EX8 SURFACE	EPA 7471	85407		
603556747	EX8 BASE	EPA 7471	85407		
603556754	EX8 MIDDLE	EPA 7471	85407		
603556804	EX9	EPA 7471	85407		
603556820	EX10	EPA 7471	85407		
603556838	EX12 SURFACE	EPA 7471	85407		
603556846	EX13 SURFACE	EPA 7471	85407		

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DATE: 07/27/00
PAGE: 100

Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603556861	EX13 BASE	EPA 7471	85407		

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August 16, 2000

Mr. MICK COSSAIRT
Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

RE: Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Dear Mr. COSSAIRT:

Enclosed are the analytical results for sample(s)received by the laboratory on July 14, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela Brown
Project Manager

Enclosures

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DATE: 08/16/00
PAGE: 1

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

Solid results are reported on a dry weight basis

Pace Sample No: 603650987 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX7 Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
M··ls-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
·minum	14600	mg/kg	8.04	0.94	07/27/00	JAH	7429-90-5	
Antimony	ND	mg/kg	5.36	0.94	07/27/00	JAH	7440-36-0	
Arsenic	ND	mg/kg	9.11	0.94	07/27/00	JAH	7440-38-2	
Barium	448	mg/kg	0.429	0.94	07/27/00	JAH	7440-39-3	
Beryllium	0.711	mg/kg	0.107	0.94	07/27/00	JAH	7440-41-7	
Cadmium	ND	mg/kg	0.536	0.94	07/27/00	JAH	7440-43-9	
Calcium	8490	mg/kg	10.7	0.94	07/27/00	JAH	7440-70-2	
Chromium	21.1	mg/kg	0.75	0.94	07/27/00	JAH	7440-47-3	
Cobalt	11.5	mg/kg	0.75	0.94	07/27/00	JAH	7440-48-4	
Copper	26	mg/kg	1.07	0.94	07/27/00	JAH	7440-50-8	
Iron	19500	mg/kg	4.29	0.94	07/27/00	JAH	7439-89-6	
Lead	15.8	mg/kg	5.36	0.94	07/27/00	JAH	7439-92-1	
Magnesium	4330	mg/kg	5.36	0.94	07/27/00	JAH	7439-95-4	
Manganese	464	mg/kg	0.75	0.94	07/27/00	JAH	7439-96-5	
Nickel	25.2	mg/kg	3.21	0.94	07/27/00	JAH	7440-02-0	
Potassium	2190	mg/kg	107	0.94	07/27/00	JAH	7440-09-7	
Silver	ND	mg/kg	0.75	0.94	07/27/00	JAH	7440-22-4	
Vanadium	35.1	mg/kg	1.29	0.94	07/27/00	JAH	7440-62-2	
Zinc	70.4	mg/kg	10.7	0.94	07/27/00	JAH	7440-66-6	
Tin	ND	mg/kg	26.8	0.94	07/27/00	JAH	7440-31-5	
Date Digested					07/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.177	1.00	07/27/00	SYW	7439-97-6	
·ium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603650987 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX7 Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Thallium	ND	mg/kg	0.531	0.93	07/26/00	JAH	7440-28-0	
Date Digested					07/20/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	2.08	mg/kg	0.115	0.10	07/31/00	WOC	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.15	1.00	07/28/00	WOC	57-12-5	
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	3170	mg/kg	0.229	0.04	07/31/00	PLH		
s Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	12.8	%		0.87	07/20/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	2.3	1.00	07/25/00	JLO	319-85-7	
gamma-BHC (Lindane)	0.31	ug/kg	1.5	1.00	07/25/00	JLO	58-89-9	1
Heptachlor	ND	ug/kg	1.1	1.00	07/25/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	3.8	1.00	07/25/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	84	%		0.87	07/25/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	92	%		0.87	07/25/00	JLO	877-09-8	
Date Extracted					07/17/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	200	ug/kg	38	1.00	07/24/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	84	%		0.87	07/24/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	70	%		0.87	07/24/00	JLO	877-09-8	
Date Extracted					07/17/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	11	ug/kg	46	0.99	07/25/00	JLO	94-75-7	1
2,4,5-TP(Silvex)	1.1	ug/kg	17	0.99	07/25/00	JLO	93-72-1	1
hlorophenyl Acetic Acid (S)	39	%		0.87	07/25/00	JLO		

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603650987 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX7 Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Date Extracted					07/24/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	5.7	1.00	07/26/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	5.7	1.00	07/26/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	5.7	1.00	07/26/00	NLA	75-00-3	
Methylene Chloride	4.3	ug/kg	5.7	1.00	07/26/00	NLA	75-09-2	1.2
1,1-Dichloroethene	ND	ug/kg	5.7	1.00	07/26/00	NLA	75-35-4	
trans-1,2-Dichloroethene	ND	ug/kg	5.7	1.00	07/26/00	NLA	156-60-5	
cis-1,2-Dichloroethene	ND	ug/kg	5.7	1.00	07/26/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	5.7	1.00	07/26/00	NLA	71-55-6	
nzene	ND	ug/kg	5.7	1.00	07/26/00	NLA	71-43-2	
:-Dichloroethane	ND	ug/kg	5.7	1.00	07/26/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	5.7	1.00	07/26/00	NLA	79-01-6	
Toluene	ND	ug/kg	5.7	1.00	07/26/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	5.7	1.00	07/26/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	5.7	1.00	07/26/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.7	1.00	07/26/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	5.7	1.00	07/26/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	5.7	1.00	07/26/00	NLA	95-47-6	
Styrene	ND	ug/kg	5.7	1.00	07/26/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.7	1.00	07/26/00	NLA	79-34-5	
Hexachlorobutadiene	ND	ug/kg	5.7	1.00	07/26/00	NLA	87-68-3	
Acetone	ND	ug/kg	23	1.00	07/26/00	NLA	67-64-1	
2-Butanone	ND	ug/kg	11	1.00	07/26/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	11	1.00	07/26/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	11	1.00	07/26/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	110	1.00	07/26/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	5.7	1.00	07/26/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	57	1.00	07/26/00	NLA	123-91-1	
Dibromofluoromethane (S)	95	%		0.87	07/26/00	NLA	1868-53-7	
Toluene-d8 (S)	96	%		0.87	07/26/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	97	%		0.87	07/26/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%		0.87	07/26/00	NLA	17060-07-0	

GC/MS Semivolatiles

olatile Organics Method: EPA 8270 Prep Method: EPA 3550 Sonication

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603650987 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX7 Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Phenol	ND	ug/kg	370	0.99	07/28/00	MSR	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	370	0.99	07/28/00	MSR	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	370	0.99	07/28/00	MSR	95-50-1	
2-Methylphenol	ND	ug/kg	370	0.99	07/28/00	MSR	95-48-7	
4-Methylphenol	ND	ug/kg	370	0.99	07/28/00	MSR	106-44-5	
Hexachloroethane	ND	ug/kg	370	0.99	07/28/00	MSR	67-72-1	
Nitrobenzene	ND	ug/kg	370	0.99	07/28/00	MSR	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	370	0.99	07/28/00	MSR	105-67-9	
Benzoic Acid	ND	ug/kg	1800	0.99	07/28/00	MSR	65-85-0	
Naphthalene	ND	ug/kg	370	0.99	07/28/00	MSR	91-20-3	
Hexachlorobutadiene	ND	ug/kg	370	0.99	07/28/00	MSR	87-68-3	
2-Methylnaphthalene	86	ug/kg	370	0.99	07/28/00	MSR	91-57-6	1
Acenaphthene	ND	ug/kg	370	0.99	07/28/00	MSR	83-32-9	
[illegible]benzofuran	ND	ug/kg	370	0.99	07/28/00	MSR	132-64-9	
[illegible]-Dinitrotoluene	ND	ug/kg	370	0.99	07/28/00	MSR	121-14-2	
Fluorene	ND	ug/kg	370	0.99	07/28/00	MSR	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	370	0.99	07/28/00	MSR	86-30-6	
Hexachlorobenzene	ND	ug/kg	370	0.99	07/28/00	MSR	118-74-1	
Phenanthrene	52	ug/kg	370	0.99	07/28/00	MSR	85-01-8	1
Anthracene	54	ug/kg	370	0.99	07/28/00	MSR	120-12-7	1
Di-n-butylphthalate	ND	ug/kg	370	0.99	07/28/00	MSR	84-74-2	
Fluoranthene	ND	ug/kg	370	0.99	07/28/00	MSR	206-44-0	
Pyrene	ND	ug/kg	370	0.99	07/28/00	MSR	129-00-0	
Butylbenzylphthalate	ND	ug/kg	370	0.99	07/28/00	MSR	85-68-7	
Benzo(a)anthracene	ND	ug/kg	370	0.99	07/28/00	MSR	56-55-3	
Chrysene	ND	ug/kg	370	0.99	07/28/00	MSR	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	370	0.99	07/28/00	MSR	117-81-7	
3-Methylphenol	ND	ug/kg	370	0.99	07/28/00	MSR	108-39-4	
Pyridine	ND	ug/kg	370	0.99	07/28/00	MSR	110-86-1	
Nitrobenzene-d5 (S)	67	%		0.87	07/28/00	MSR	4165-60-0	
2-Fluorobiphenyl (S)	79	%		0.87	07/28/00	MSR	321-60-8	
Terphenyl-d14 (S)	64	%		0.87	07/28/00	MSR	1718-51-0	
Phenol-d6 (S)	78	%		0.87	07/28/00	MSR	13127-88-3	
2-Fluorophenol (S)	68	%		0.87	07/28/00	MSR	367-12-4	
2,4,6-Tribromophenol (S)	64	%		0.87	07/28/00	MSR	118-79-6	
Date Extracted					07/25/00			

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603651068 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX11 SURFACE Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	9690	mg/kg	7.73	0.94	07/27/00	JAH	7429-90-5	
Antimony	ND	mg/kg	5.15	0.94	07/27/00	JAH	7440-36-0	
Arsenic	10.4	mg/kg	8.76	0.94	07/27/00	JAH	7440-38-2	
Barium	169	mg/kg	0.412	0.94	07/27/00	JAH	7440-39-3	
Beryllium	0.526	mg/kg	0.103	0.94	07/27/00	JAH	7440-41-7	
Cadmium	0.563	mg/kg	0.515	0.94	07/27/00	JAH	7440-43-9	
Calcium	169000	mg/kg	103	9.35	07/27/00	JAH	7440-70-2	3
Chromium	18.1	mg/kg	0.721	0.94	07/27/00	JAH	7440-47-3	
Cobalt	6.43	mg/kg	0.721	0.94	07/27/00	JAH	7440-48-4	
Copper	22.4	mg/kg	1.03	0.94	07/27/00	JAH	7440-50-8	
Iron	14100	mg/kg	4.12	0.94	07/27/00	JAH	7439-89-6	
Lead	141	mg/kg	5.15	0.94	07/27/00	JAH	7439-92-1	
Magnesium	5220	mg/kg	5.15	0.94	07/27/00	JAH	7439-95-4	
Manganese	535	mg/kg	0.721	0.94	07/27/00	JAH	7439-96-5	
Nickel	17.2	mg/kg	3.09	0.94	07/27/00	JAH	7440-02-0	
Potassium	1520	mg/kg	103	0.94	07/27/00	JAH	7440-09-7	
Silver	ND	mg/kg	0.721	0.94	07/27/00	JAH	7440-22-4	
Vanadium	24	mg/kg	1.24	0.94	07/27/00	JAH	7440-62-2	
Zinc	116	mg/kg	10.3	0.94	07/27/00	JAH	7440-66-6	
Tin	ND	mg/kg	25.8	0.94	07/27/00	JAH	7440-31-5	
Date Digested					07/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.17	1.00	07/27/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.51	0.93	07/26/00	JAH	7440-28-0	
Date Digested					07/20/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.584	mg/kg	0.11	0.10	07/31/00	WOC	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
Cyanide	ND	mg/kg	1.1	1.00	07/28/00	WOC	57-12-5	

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603651068 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX11 SURFACE Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	1740	mg/kg	0.221	0.04	07/31/00	PLH		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	9.3	%		0.91	07/20/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	22	10.0	07/25/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	15	10.0	07/25/00	JLO	58-89-9	
›tachlor	ND	ug/kg	11	10.0	07/25/00	JLO	76-44-8	
,tachlor Epoxide	ND	ug/kg	36	10.0	07/25/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	118	%		0.91	07/25/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	130	%		0.91	07/25/00	JLO	877-09-8	4
Date Extracted					07/17/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	4000	ug/kg	360	9.96	07/24/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	98	%		0.91	07/24/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	73	%		0.91	07/24/00	JLO	877-09-8	
Date Extracted					07/17/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	7.1	ug/kg	43	0.98	07/25/00	JLO	94-75-7	1
2,4,5-TP(Silvex)	1.1	ug/kg	16	0.98	07/25/00	JLO	93-72-1	1
Dichlorophenyl Acetic Acid (S)	65	%		0.91	07/25/00	JLO		
Date Extracted					07/24/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	5.5	1.00	07/26/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	5.5	1.00	07/26/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	5.5	1.00	07/26/00	NLA	75-00-3	
Methylene Chloride	ND	ug/kg	5.5	1.00	07/26/00	NLA	75-09-2	
1,1-Dichloroethene	ND	ug/kg	5.5	1.00	07/26/00	NLA	75-35-4	
›ns-1,2-Dichloroethene	ND	ug/kg	5.5	1.00	07/26/00	NLA	156-60-5	

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603651068 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX11 SURFACE Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	5.5	1.00	07/26/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	5.5	1.00	07/26/00	NLA	71-55-6	
Benzene	ND	ug/kg	5.5	1.00	07/26/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	5.5	1.00	07/26/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	5.5	1.00	07/26/00	NLA	79-01-6	
Toluene	ND	ug/kg	5.5	1.00	07/26/00	NLA	108-88-3	
Tetrachloroethene	ND	ug/kg	5.5	1.00	07/26/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	5.5	1.00	07/26/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.5	1.00	07/26/00	NLA	630-20-6	
Ethylbenzene	ND	ug/kg	5.5	1.00	07/26/00	NLA	100-41-4	
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	5.5	1.00	07/26/00	NLA	95-47-6	
Styrene	ND	ug/kg	5.5	1.00	07/26/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.5	1.00	07/26/00	NLA	79-34-5	
xachlorobutadiene	ND	ug/kg	5.5	1.00	07/26/00	NLA	87-68-3	
etone	ND	ug/kg	22	1.00	07/26/00	NLA	67-64-1	
2-Butanone	ND	ug/kg	11	1.00	07/26/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	11	1.00	07/26/00	NLA	108-10-1	
Carbon Disulfide	ND	ug/kg	11	1.00	07/26/00	NLA	75-15-0	
2-Hexanone	ND	ug/kg	110	1.00	07/26/00	NLA	591-78-6	
Xylene (Total)	ND	ug/kg	5.5	1.00	07/26/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	55	1.00	07/26/00	NLA	123-91-1	
Dibromofluoromethane (S)	98	%		0.91	07/26/00	NLA	1868-53-7	
Toluene-d8 (S)	87	%		0.91	07/26/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	88	%		0.91	07/26/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%		0.91	07/26/00	NLA	17060-07-0	5

GC/MS Semivolatiles

Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication		
Phenol	ND	ug/kg	3600	9.99	07/31/00	MSR	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	3600	9.99	07/31/00	MSR	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	3600	9.99	07/31/00	MSR	95-50-1
2-Methylphenol	ND	ug/kg	3600	9.99	07/31/00	MSR	95-48-7
4-Methylphenol	ND	ug/kg	3600	9.99	07/31/00	MSR	106-44-5
Hexachloroethane	ND	ug/kg	3600	9.99	07/31/00	MSR	67-72-1
Nitrobenzene	ND	ug/kg	3600	9.99	07/31/00	MSR	98-95-3
2,4-Dimethylphenol	ND	ug/kg	3600	9.99	07/31/00	MSR	105-67-9
Benzoic Acid	ND	ug/kg	18000	9.99	07/31/00	MSR	65-85-0
Naphthalene	ND	ug/kg	3600	9.99	07/31/00	MSR	91-20-3
xachlorobutadiene	ND	ug/kg	3600	9.99	07/31/00	MSR	87-68-3

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603651068 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX11 SURFACE Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	ND	ug/kg	3600	9.99	07/31/00	MSR	91-57-6	
Acenaphthene	ND	ug/kg	3600	9.99	07/31/00	MSR	83-32-9	
Dibenzofuran	ND	ug/kg	3600	9.99	07/31/00	MSR	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	3600	9.99	07/31/00	MSR	121-14-2	
Fluorene	ND	ug/kg	3600	9.99	07/31/00	MSR	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	3600	9.99	07/31/00	MSR	86-30-6	
Hexachlorobenzene	ND	ug/kg	3600	9.99	07/31/00	MSR	118-74-1	
Phenanthrene	ND	ug/kg	3600	9.99	07/31/00	MSR	85-01-8	
Anthracene	ND	ug/kg	3600	9.99	07/31/00	MSR	120-12-7	
Di-n-butylphthalate	ND	ug/kg	3600	9.99	07/31/00	MSR	84-74-2	
Fluoranthene	ND	ug/kg	3600	9.99	07/31/00	MSR	206-44-0	
Pyrene	ND	ug/kg	3600	9.99	07/31/00	MSR	129-00-0	
Butylbenzylphthalate	ND	ug/kg	3600	9.99	07/31/00	MSR	85-68-7	
nzo(a)anthracene	ND	ug/kg	3600	9.99	07/31/00	MSR	56-55-3	
ysene	ND	ug/kg	3600	9.99	07/31/00	MSR	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	3600	9.99	07/31/00	MSR	117-81-7	
3-Methylphenol	ND	ug/kg	3600	9.99	07/31/00	MSR	108-39-4	
Pyridine	ND	ug/kg	3600	9.99	07/31/00	MSR	110-86-1	
Nitrobenzene-d5 (S)	86	%		0.91	07/31/00	MSR	4165-60-0	6
2-Fluorobiphenyl (S)	100	%		0.91	07/31/00	MSR	321-60-8	
Terphenyl-d14 (S)	79	%		0.91	07/31/00	MSR	1718-51-0	
Phenol-d6 (S)	99	%		0.91	07/31/00	MSR	13127-88-3	
2-Fluorophenol (S)	85	%		0.91	07/31/00	MSR	367-12-4	
2,4,6-Tribromophenol (S)	81	%		0.91	07/31/00	MSR	118-79-6	
Date Extracted					07/25/00			

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603651100 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX11 BASE Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
Metals-Standard ICP, Soil	Method: EPA 6010				Prep Method: EPA 3050			
Aluminum	17600	mg/kg	9.13	0.99	07/27/00	JAH	7429-90-5	
Antimony	ND	mg/kg	6.09	0.99	07/27/00	JAH	7440-36-0	
Arsenic	12.6	mg/kg	10.3	0.99	07/27/00	JAH	7440-38-2	
Barium	221	mg/kg	0.487	0.99	07/27/00	JAH	7440-39-3	
Beryllium	0.867	mg/kg	0.122	0.99	07/27/00	JAH	7440-41-7	
Cadmium	ND	mg/kg	0.609	0.99	07/27/00	JAH	7440-43-9	
Calcium	24000	mg/kg	12.2	0.99	07/27/00	JAH	7440-70-2	
Chromium	32.6	mg/kg	0.852	0.99	07/27/00	JAH	7440-47-3	
Cobalt	11.9	mg/kg	0.852	0.99	07/27/00	JAH	7440-48-4	
[illegible]per	27.7	mg/kg	1.22	0.99	07/27/00	JAH	7440-50-8	
[illegible]n	21400	mg/kg	4.87	0.99	07/27/00	JAH	7439-89-6	
Lead	34.4	mg/kg	6.09	0.99	07/27/00	JAH	7439-92-1	
Magnesium	4980	mg/kg	6.09	0.99	07/27/00	JAH	7439-95-4	
Manganese	537	mg/kg	0.852	0.99	07/27/00	JAH	7439-96-5	
Nickel	35.4	mg/kg	3.65	0.99	07/27/00	JAH	7440-02-0	
Potassium	2730	mg/kg	122	0.99	07/27/00	JAH	7440-09-7	
Silver	ND	mg/kg	0.852	0.99	07/27/00	JAH	7440-22-4	
Vanadium	58.4	mg/kg	1.46	0.99	07/27/00	JAH	7440-62-2	
Zinc	125	mg/kg	12.2	0.99	07/27/00	JAH	7440-66-6	
Tin	ND	mg/kg	30.4	0.99	07/27/00	JAH	7440-31-5	
Date Digested					07/20/00			
Mercury, Soil CVAAS	Method: EPA 7471				Prep Method: EPA 7471			
Mercury	ND	mg/kg	0.189	1.00	07/27/00	SYW	7439-97-6	
Thallium, AAS Furnace	Method: EPA 7841				Prep Method: EPA 3050			
Thallium	ND	mg/kg	0.615	1.00	07/26/00	JAH	7440-28-0	
Date Digested					07/20/00			
Wet Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	1.49	mg/kg	0.123	0.10	07/31/00	WOC	18540-29-9	
Cyanide, Total, Soil	Method: EPA 9010A				Prep Method: EPA 9010A			
[illegible]nide	ND	mg/kg	1.23	1.00	07/28/00	WOC	57-12-5	

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603651100 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX11 BASE Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Sulfides in Waste, for Soil	Method: EPA 9030A				Prep Method: EPA 9030A			
Sulfide	491	mg/kg	0.246	0.04	07/31/00	PLH		
Organics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	18.7	%		0.81	07/20/00	DCKI		
GC Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	2.4	1.00	07/25/00	JLO	319-85-7	
gamma-BHC (Lindane)	0.84	ug/kg	1.6	1.00	07/25/00	JLO	58-89-9	1
›tachlor	0.89	ug/kg	1.2	1.00	07/25/00	JLO	76-44-8	1
tachlor Epoxide	ND	ug/kg	4.1	1.00	07/25/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	78	%		0.81	07/25/00	JLO	2051-24-3	
Tetracnloro-meta-xylene (S)	91	%		0.81	07/25/00	JLO	877-09-8	
Date Extracted					07/17/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1260 (Arochlor 1260)	69	ug/kg	40	0.99	07/24/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	75	%		0.81	07/24/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	64	%		0.81	07/24/00	JLO	877-09-8	
Date Extracted					07/17/00			
Chlorinated Herbicides	Method: EPA 8151				Prep Method: EPA 3550			
2,4-D	ND	ug/kg	49	0.99	07/25/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/kg	18	0.99	07/25/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	43	%		0.81	07/25/00	JLO		
Date Extracted					07/24/00			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260				Prep Method: EPA 8260			
Chloromethane	ND	ug/kg	6.1	1.00	07/26/00	NLA	74-87-3	
Vinyl Chloride	ND	ug/kg	6.1	1.00	07/26/00	NLA	75-01-4	
Chloroethane	ND	ug/kg	6.1	1.00	07/26/00	NLA	75-00-3	
Methylene Chloride	5.1	ug/kg	6.1	1.00	07/26/00	NLA	75-09-2	1,2
1,1-Dichloroethene	ND	ug/kg	6.1	1.00	07/26/00	NLA	75-35-4	
ns-1,2-Dichloroethene	ND	ug/kg	6.1	1.00	07/26/00	NLA	156-60-5	

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Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603651100 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX11 BASE Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
cis-1,2-Dichloroethene	ND	ug/kg	6.1	1.00	07/26/00	NLA	156-59-2	
1,1,1-Trichloroethane	ND	ug/kg	6.1	1.00	07/26/00	NLA	71-55-6	
Benzene	ND	ug/kg	6.1	1.00	07/26/00	NLA	71-43-2	
1,2-Dichloroethane	ND	ug/kg	6.1	1.00	07/26/00	NLA	107-06-2	
Trichloroethene	ND	ug/kg	6.1	1.00	07/26/00	NLA	79-01-6	
Toluene	ND	ug/kg	6.1	1.00	07/26/00	NLA	108-88-3	
Tetrachloroethene	46	ug/kg	6.1	1.00	07/26/00	NLA	127-18-4	
Chlorobenzene	ND	ug/kg	6.1	1.00	07/26/00	NLA	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.1	1.00	07/26/00	NLA	630-20-6	
Ethylbenzene	4.3	ug/kg	6.1	1.00	07/26/00	NLA	100-41-4	1
O-Xylene (1,2-Dimethylbenzene)	26	ug/kg	6.1	1.00	07/26/00	NLA	95-47-6	
Styrene	ND	ug/kg	6.1	1.00	07/26/00	NLA	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.1	1.00	07/26/00	NLA	79-34-5	
Hexachlorobutadiene	ND	ug/kg	6.1	1.00	07/26/00	NLA	87-68-3	
Acetone	ND	ug/kg	25	1.00	07/26/00	NLA	67-64-1	
2-Butanone	ND	ug/kg	12	1.00	07/26/00	NLA	78-93-3	
4-Methyl-2-Pentanone	ND	ug/kg	12	1.00	07/26/00	NLA	108-10-1	
Carbon Disulfide	4.3	ug/kg	12	1.00	07/26/00	NLA	75-15-0	1
2-Hexanone	ND	ug/kg	120	1.00	07/26/00	NLA	591-78-6	
Xylene (Total)	61	ug/kg	6.1	1.00	07/26/00	NLA	1330-20-7	
1,4-Dioxane (P-Dioxane)	ND	ug/kg	61	1.00	07/26/00	NLA	123-91-1	
Dibromofluoromethane (S)	93	%		0.81	07/26/00	NLA	1868-53-7	
Toluene-d8 (S)	92	%		0.81	07/26/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	87	%		0.81	07/26/00	NLA	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%		0.81	07/26/00	NLA	17060-07-0	

GC/MS Semivolatiles

Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication		
Phenol	ND	ug/kg	4000	9.86	07/30/00	MSR	108-95-2
1,4-Dichlorobenzene	ND	ug/kg	4000	9.86	07/30/00	MSR	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	4000	9.86	07/30/00	MSR	95-50-1
2-Methylphenol	ND	ug/kg	4000	9.86	07/30/00	MSR	95-48-7
4-Methylphenol	ND	ug/kg	4000	9.86	07/30/00	MSR	106-44-5
Hexachloroethane	ND	ug/kg	4000	9.86	07/30/00	MSR	67-72-1
Nitrobenzene	ND	ug/kg	4000	9.86	07/30/00	MSR	98-95-3
2,4-Dimethylphenol	ND	ug/kg	4000	9.86	07/30/00	MSR	105-67-9
Benzoic Acid	ND	ug/kg	19000	9.86	07/30/00	MSR	65-85-0
Naphthalene	ND	ug/kg	4000	9.86	07/30/00	MSR	91-20-3
Hexachlorobutadiene	ND	ug/kg	4000	9.86	07/30/00	MSR	87-68-3

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7. EX11 SURF/BASE

Pace Sample No: 603651100 Date Collected: 07/13/00 Matrix: Soil
Client Sample ID: EX11 BASE Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Methylnaphthalene	ND	ug/kg	4000	9.86	07/30/00	MSR	91-57-6	
Acenaphthene	ND	ug/kg	4000	9.86	07/30/00	MSR	83-32-9	
Dibenzofuran	ND	ug/kg	4000	9.86	07/30/00	MSR	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	4000	9.86	07/30/00	MSR	121-14-2	
Fluorene	ND	ug/kg	4000	9.86	07/30/00	MSR	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	4000	9.86	07/30/00	MSR	86-30-6	
Hexachlorobenzene	ND	ug/kg	4000	9.86	07/30/00	MSR	118-74-1	
Phenanthrene	ND	ug/kg	4000	9.86	07/30/00	MSR	85-01-8	
Anthracene	ND	ug/kg	4000	9.86	07/30/00	MSR	120-12-7	
Di-n-butylphthalate	ND	ug/kg	4000	9.86	07/30/00	MSR	84-74-2	
Fluoranthene	ND	ug/kg	4000	9.86	07/30/00	MSR	206-44-0	
Pyrene	ND	ug/kg	4000	9.86	07/30/00	MSR	129-00-0	
Butylbenzylphthalate	ND	ug/kg	4000	9.86	07/30/00	MSR	85-68-7	
zo(a)anthracene	ND	ug/kg	4000	9.86	07/30/00	MSR	56-55-3	
ysene	ND	ug/kg	4000	9.86	07/30/00	MSR	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	4000	9.86	07/30/00	MSR	117-81-7	
3-Methylphenol	ND	ug/kg	4000	9.86	07/30/00	MSR	108-39-4	
Pyridine	ND	ug/kg	4000	9.86	07/30/00	MSR	110-86-1	
Nitrobenzene-d5 (S)	57	%		0.81	07/30/00	MSR	4165-60-0	6
2-Fluorobiphenyl (S)	65	%		0.81	07/30/00	MSR	321-60-8	
Terphenyl-d14 (S)	58	%		0.81	07/30/00	MSR	1718-51-0	
Phenol-d6 (S)	59	%		0.81	07/30/00	MSR	13127-88-3	
2-Fluorophenol (S)	52	%		0.81	07/30/00	MSR	367-12-4	
2,4,6-Tribromophenol (S)	54	%		0.81	07/30/00	MSR	118-79-6	
Date Extracted					07/25/00			

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Fax: 913.599.1759

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Pace Sample No: 603651225 Date Collected: 07/13/00 Matrix: Water
Client Sample ID: TRIP BLANK 7/13/2000 Date Received: 07/14/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
GC/MS Volatiles								
GC/MS VOCs by 8260 (Low Level)	Method: EPA 8260				Prep Method: EPA 8260			
Vinyl Chloride	ND	ug/l	1	1.00	07/25/00	DJE	75-01-4	
Chloroethane	ND	ug/l	1	1.00	07/25/00	DJE	75-00-3	
Methylene Chloride	2.7	ug/l	1	1.00	07/25/00	DJE	75-09-2	
trans-1,2-Dichloroethene	ND	ug/l	1	1.00	07/25/00	DJE	156-60-5	
1,1-Dichloroethane	ND	ug/l	1	1.00	07/25/00	DJE	75-34-3	
cis-1,2-Dichloroethene	ND	ug/l	1	1.00	07/25/00	DJE	156-59-2	
1,1,1-Trichloroethane	ND	ug/l	1	1.00	07/25/00	DJE	71-55-6	
Benzene	ND	ug/l	1	1.00	07/25/00	DJE	71-43-2	
Trichloroethene	ND	ug/l	1	1.00	07/25/00	DJE	79-01-6	
Toluene	1.1	ug/l	1	1.00	07/25/00	DJE	108-88-3	
Tetrachloroethene	ND	ug/l	1	1.00	07/25/00	DJE	127-18-4	
1,2-Dibromoethane	ND	ug/l	1	1.00	07/25/00	DJE	106-93-4	
Chlorobenzene	ND	ug/l	1	1.00	07/25/00	DJE	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/l	1	1.00	07/25/00	DJE	630-20-6	
Ethylbenzene	ND	ug/l	1	1.00	07/25/00	DJE	100-41-4	
Xylene (Total)	ND	ug/l	3	1.00	07/25/00	DJE	1330-20-7	
1,1,2,2-Tetrachloroethane	ND	ug/l	1	1.00	07/25/00	DJE	79-34-5	
tert-Butylbenzene	ND	ug/l	1	1.00	07/25/00	DJE	98-06-6	
Hexachlorobutadiene	ND	ug/l	1	1.00	07/25/00	DJE	87-68-3	
Acetone	11	ug/l	10	1.00	07/25/00	DJE	67-64-1	2
Carbon Disulfide	ND	ug/l	10	1.00	07/25/00	DJE	75-15-0	
2-Hexanone	ND	ug/l	10	1.00	07/25/00	DJE	591-78-6	
4-Methyl-2-Pentanone	ND	ug/l	10	1.00	07/25/00	DJE	108-10-1	
M&P-Xylene	ND	ug/l	1.3	1.00	07/25/00	DJE		
O-Xylene (1,2-Dimethylbenzene)	ND	ug/l	1.1	1.00	07/25/00	DJE	95-47-6	
Toluene-d8 (S)	103	%		1.00	07/25/00	DJE	2037-26-5	
Dibromofluoromethane (S)	98	%		1.00	07/25/00	DJE	1868-53-7	
4-Bromofluorobenzene (S)	101	%		1.00	07/25/00	DJE	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%		1.00	07/25/00	DJE	17060-07-0	

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
(S)	Surrogate
App. DF	Applied Dilution Factor
[1]	Detected but below the PRL; therefore, result is an estimated concentration (CLP J-Flag).
[2]	Analyte is found in the associated blank as well as in the sample (CLP B-Flag).
[3]	Sample was diluted due to high analyte concentration.
[4]	The sample was diluted due to the presence of PCB-1260. The quantitation limits are adjusted for the dilution.
[5]	One of the internal standards failed the minimum area requirement. The sample was reanalyzed with like results.
[6]	Elevated detection limits due to difficult sample matrix.

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QUALITY CONTROL DATA

DATE: 08/16/00

Deffenbaugh Industries, Inc.
18131 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87068
Analysis Method: EPA 8260
Associated Pace Samples: 603650987 603651068 603651100

QC Batch Method: EPA 8260
Analysis Description: GC/MS VOCs by 8260

METHOD BLANK: 603683996
Associated Pace Samples:
603650987 603651068 603651100

ter	Units	Method Blank Result	PRL	Footnotes
Chloromethane	ug/kg	ND	5	
Vinyl Chloride	ug/kg	ND	5	
Chloroethane	ug/kg	ND	5	
Methylene Chloride	ug/kg	1.1	5	1
1,1-Dichloroethene	ug/kg	ND	5	
trans-1,2-Dichloroethene	ug/kg	ND	5	
cis-1,2-Dichloroethene	ug/kg	ND	5	
1,1,1-Trichloroethane	ug/kg	ND	5	
Benzene	ug/kg	ND	5	
1,2-Dichloroethane	ug/kg	ND	5	
Trichloroethene	ug/kg	ND	5	
Toluene	ug/kg	ND	5	
Chlorobenzene	ug/kg	ND	5	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5	
Ethylbenzene	ug/kg	ND	5	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	ND	5	
Styrene	ug/kg	ND	5	
Acetone	ug/kg	ND	20	
2-Butanone	ug/kg	ND	10	
4-Methyl-2-Pentanone	ug/kg	ND	10	
Carbon Disulfide	ug/kg	ND	10	
2-Hexanone	ug/kg	ND	100	
Xylene (Total)	ug/kg	ND	5	
1,4-Dioxane (P-Dioxane)	ug/kg	ND	50	
Di fluoromethane (S)	%	100		

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QUALITY CONTROL DATA

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

METHOD BLANK: 603683996
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
Toluene-d8 (S)	%	100		
4-Bromofluorobenzene (S)	%	101		
1,2-Dichloroethane-d4 (S)	%	101		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603658147 603658154

Parameter	Units	603641820	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
1,1-Dichloroethene	ug/kg	0	52.43	53.03	101	43.80	83.5	19	
Benzene	ug/kg	0	52.43	52.00	99.2	45.61	87.0	13	
[illegible]roethene	ug/kg	0	52.43	52.53	100	46.09	87.9	13	
[illegible]	ug/kg	0	52.43	49.21	93.9	44.85	85.5	9	
Chlorobenzene	ug/kg	0	52.43	49.29	94.0	45.36	86.5	8	
Dibromofluoromethane (S)					101		102		
Toluene-d8 (S)					101		102		
4-Bromofluorobenzene (S)					91		94		

LABORATORY CONTROL SAMPLE: 603658139

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Chloromethane	ug/kg	50	51.16	102	
Vinyl Chloride	ug/kg	50	51.95	104	
Chloroethane	ug/kg	50	51.10	102	
Methylene Chloride	ug/kg	50	51.89	104	
1,1-Dichloroethene	ug/kg	50	52.31	105	
trans-1,2-Dichloroethene	ug/kg	50	51.08	102	
cis-1,2-Dichloroethene	ug/kg	50	51.39	103	
1,1,1-Trichloroethane	ug/kg	50	51.46	103	
Benzene	ug/kg	50	50.67	101	
1,2-Dichloroethane	ug/kg	50	51.56	103	
Trichloroethene	ug/kg	50	52.25	105	
Toluene	ug/kg	50	49.80	99.6	
Tetrachloroethene	ug/kg	50	51.38	103	
Chlorobenzene	ug/kg	50	51.14	102	
1,[illegible]-Tetrachloroethane	ug/kg	50	51.59	103	

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QUALITY CONTROL DATA

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

LABORATORY CONTROL SAMPLE: 603658139

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Ethylbenzene	ug/kg	50	49.80	99.6	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	50	50.60	101	
Styrene	ug/kg	50	50.79	102	
1,1,2,2-Tetrachloroethane	ug/kg	50	51.10	102	
Hexachlorobutadiene	ug/kg	50	49.55	99.1	
Dibromofluoromethane (S)				102	
Toluene-d8 (S)				100	
4-Bromofluorobenzene (S)				101	
1,2-Dichloroethane-d4 (S)				103	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87077
QC Batch Method: EPA 3550
Analysis Method: EPA 8082
Analysis Description: PCBs in Soil by 8082
Associated Pace Samples: 603650987 603651068 603651100

METHOD BLANK: 603658410
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	ND	33	
Decachlorobiphenyl (S)	%	96		
Tetrachloro-meta-xylene (S)	%	87		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603658436 603658444

Parameter	Units	603650987	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	196.9	380.7	314.4	30.9	399.2	53.2	53	2
Decachlorobiphenyl (S)					77		80		
Tetrachloro-meta-xylene (S)					62		68		

LABORATORY CONTROL SAMPLE: 603658428

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
PCB-1260 (Arochlor 1260)	ug/kg	333.3	298.0	89.4	
Decachlorobiphenyl (S)				97	
Tetrachloro-meta-xylene (S)				82	

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Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87078
QC Batch Method: EPA 3550
Analysis Method: EPA 8081A
Analysis Description: Organochlorine Pesticides, GC
Associated Pace Samples: 603650987 603651068 603651100

METHOD BLANK: 603658451
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
beta-BHC	ug/kg	ND	2	
gamma-BHC (Lindane)	ug/kg	ND	1.3	
Heptachlor	ug/kg	ND	0.99	
Heptachlor Epoxide	ug/kg	ND	3.3	
Decachlorobiphenyl (S)	%	78		
Tetrachloro-meta-xylene (S)	%	71		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603658477 603658485

Parameter	Units	603651068	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
gamma-BHC (Lindane)	ug/kg	0	18.38	20.02	109	24.18	132	19	
Heptachlor	ug/kg	0	18.38	22.36	122	26.33	143	16	3,4
Decachlorobiphenyl (S)					122		136		
Tetrachloro-meta-xylene (S)					127		162		5

LABORATORY CONTROL SAMPLE: 603658469

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
beta-BHC	ug/kg	16.67	17.35	104	
gamma-BHC (Lindane)	ug/kg	16.67	17.62	106	
Heptachlor	ug/kg	16.67	15.77	94.6	

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

LABORATORY CONTROL SAMPLE: 603658469

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Heptachlor Epoxide	ug/kg	16.67	17.25	104	
Decachlorobiphenyl (S)				84	
Tetrachloro-meta-xylene (S)				84	

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DATE: 08/16/00

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87241
QC Batch Method:
Analysis Method:
Analysis Description: Percent Moisture
Associated Pace Samples: 603650987 603651068 603651100

SAMPLE DUPLICATE: 603665811

Parameter	Units	603650326	Dup. Result	RPD	Footnotes
Percent Moisture	%	18.40	19.00	3	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87278
QC Batch Method: EPA 3050
Analysis Method: EPA 7841
Analysis Description: Thallium, AAS Furnace
Associated Pace Samples: 603650987 603651068 603651100

METHOD BLANK: 603666959
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
Thallium	mg/kg	ND	0.5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603666967 603666975

Parameter	Units	603650987	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Thallium	mg/kg	0.2483	4.246	1.768	35.8	1.953	39.0	9	

LABORATORY CONTROL SAMPLE: 603666983

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Thallium	mg/kg	3.960	3.823	96.5	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87279
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: Metals-Standard ICP, Soil
Associated Pace Samples: 603650987 603651068 603651100

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603667056 603667064

Parameter	Units	603650987	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Aluminum	mg/kg	14640	1052	19190	433	21110	587	30	6,7
[illegible]ny	mg/kg	0	105.2	18.62	17.7	9.347	8.50	70	2,8
[illegible]	mg/kg	8.909	105.2	106.8	93.0	113.9	95.3	2	
Barium	mg/kg	447.7	105.2	367.6	-76.2	290.8	-142	61	6,7
Beryllium	mg/kg	0.7111	10.52	11.24	100	11.92	102	2	
Cadmium	mg/kg	0.03397	10.52	9.864	93.5	10.23	92.5	1	
Calcium	mg/kg	8485	1052	9698	115	8797	28.3	121	7
Chromium	mg/kg	21.07	105.2	127.4	101	136.4	105	3	
Cobalt	mg/kg	11.53	105.2	113.4	96.9	119.4	97.8	1	
Copper	mg/kg	25.96	105.2	132.9	102	138.6	102	0	
Iron	mg/kg	19520	1052	22150	250	25780	568	78	6,2
Lead	mg/kg	15.82	105.2	114.2	93.5	121.9	96.2	3	
Magnesium	mg/kg	4334	1052	5932	152	6920	234	43	6,2
Manganese	mg/kg	464.2	105.2	619.3	148	572.9	98.7	40	2
Nickel	mg/kg	25.22	105.2	129.3	98.9	138.8	103	4	
Potassium	mg/kg	2195	1052	3678	141	4098	173	20	9
Silver	mg/kg	0	10.52	6.187	58.8	6.217	56.4	4	8
Vanadium	mg/kg	35.07	105.2	145.3	105	149.2	104	1	
Zinc	mg/kg	70.35	105.2	169.5	94.3	177.0	96.7	3	
Tin	mg/kg	0.1443	105.2	92.77	88.1	95.97	86.9	1	

LABORATORY CONTROL SAMPLE: 603667072

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Aluminum	mg/kg	980.4	930.2	94.9	
An[illegible]y	mg/kg	98.04	94.92	96.8	

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QUALITY CONTROL DATA

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

LABORATORY CONTROL SAMPLE: 603667072

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Arsenic	mg/kg	98.04	90.51	92.3	
Barium	mg/kg	98.04	97.11	99.1	
Beryllium	mg/kg	9.804	9.744	99.4	
Cadmium	mg/kg	9.804	9.441	96.3	
Calcium	mg/kg	980.4	972.6	99.2	
Chromium	mg/kg	98.04	96.79	98.7	
Cobalt	mg/kg	98.04	97.00	98.9	
Copper	mg/kg	98.04	110.2	112	
Iron	mg/kg	980.4	968.9	98.8	
Lead	mg/kg	98.04	96.81	98.7	
Magnesium	mg/kg	980.4	944.4	96.3	
Manganese	mg/kg	98.04	95.99	97.9	
Nickel	mg/kg	98.04	97.70	99.7	
Potassium	mg/kg	980.4	951.5	97.1	
Silver	mg/kg	9.804	8.655	88.3	
[illegible]m	mg/kg	98.04	97.35	99.3	
Zinc	mg/kg	98.04	90.24	92.0	
Tin	mg/kg	98.04	94.91	96.8	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87516
QC Batch Method: EPA 3550
Analysis Method: EPA 8151
Analysis Description: Chlorinated Herbicides
Associated Pace Samples: 603650987 603651068 603651100

METHOD BLANK: 603681024
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
2,4	ug/kg	ND	40	
2,4,5-TP(Silvex)	ug/kg	ND	15	
Dichlorophenyl Acetic Acid (S)	%	27		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603681032 603681040

Parameter	Units	603650987	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
2,4-D	ug/kg	10.76	380.2	227.8	57.1	269.5	69.4	19	10
2,4,5-TP(Silvex)	ug/kg	1.131	38.02	31.36	79.5	33.77	87.5	10	
Dichlorophenyl Acetic Acid (S)					88		90		

LABORATORY CONTROL SAMPLE: 603681057

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
2,4-D	ug/kg	333.3	85.45	25.6	
2,4,5-TP(Silvex)	ug/kg	33.33	10.14	30.4	
Dichlorophenyl Acetic Acid (S)				39	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87568
Analysis Method: EPA 8270
Associated Pace Samples: 603650987 603651068 603651100

QC Batch Method: EPA 3550 Sonication
Analysis Description: Semivolatile Organics

METHOD BLANK: 603682436
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
Phenol	ug/kg	ND	330	
1,4-Dichlorobenzene	ug/kg	ND	330	
1,2-Dichlorobenzene	ug/kg	ND	330	
2-Methylphenol	ug/kg	ND	330	
4-Methylphenol	ug/kg	ND	330	
Hexachloroethane	ug/kg	ND	330	
Nitrobenzene	ug/kg	ND	330	
2,4-Dimethylphenol	ug/kg	ND	330	
Benzoic Acid	ug/kg	ND	1600	
Naphthalene	ug/kg	ND	330	
Hexachlorobutadiene	ug/kg	ND	330	
2-Methylnaphthalene	ug/kg	ND	330	
Acenaphthene	ug/kg	ND	330	
Dibenzofuran	ug/kg	ND	330	
2,4-Dinitrotoluene	ug/kg	ND	330	
Fluorene	ug/kg	ND	330	
N-Nitrosodiphenylamine	ug/kg	ND	330	
Hexachlorobenzene	ug/kg	ND	330	
Phenanthrene	ug/kg	ND	330	
Anthracene	ug/kg	ND	330	
Di-n-butylphthalate	ug/kg	ND	330	
Fluoranthene	ug/kg	ND	330	
Pyrene	ug/kg	ND	330	
Butylbenzylphthalate	ug/kg	ND	330	
Benzo(a)anthracene	ug/kg	ND	330	

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QUALITY CONTROL DATA

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

METHOD BLANK: 603682436
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
Chrysene	ug/kg	ND	330	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	
3-Methylphenol	ug/kg	ND	330	
Pyridine	ug/kg	ND	330	
Nitrobenzene-d5 (S)	%	67		
2-Fluorobiphenyl (S)	%	78		
Terphenyl-d14 (S)	%	75		
Phenol-d6 (S)	%	76		
2-Fluorophenol (S)	%	75		
2,4,6-Tribromophenol (S)	%	74		

SPIKE & MATRIX SPIKE DUPLICATE: 603682444 603682451

Parameter	Units	603650987	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Phenol	ug/kg	0	2860	1611	56.3	2238	78.6	33	
1,4-Dichlorobenzene	ug/kg	0	1906	1140	59.8	1366	72.0	19	
Acenaphthene	ug/kg	0	1906	1270	66.6	1456	76.8	14	
2,4-Dinitrotoluene	ug/kg	0	1906	1395	73.2	1703	89.8	20	
Pyrene	ug/kg	0	1906	1392	73.0	1730	91.2	22	
Nitrobenzene-d5 (S)					60		74		
2-Fluorobiphenyl (S)					72		84		
Terphenyl-d14 (S)					61		77		
Phenol-d6 (S)					69		82		
2-Fluorophenol (S)					66		82		
2,4,6-Tribromophenol (S)					69		87		

LABORATORY CONTROL SAMPLE: 603682469

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Phenol	ug/kg	2500	1332	53.3	
1,4-Dichlorobenzene	ug/kg	1667	1019	61.2	
Acenaphthene	ug/kg	1667	1137	68.2	
2,4-Dinitrotoluene	ug/kg	1667	1278	76.7	
Py	ug/kg	1667	1326	79.6	

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QUALITY CONTROL DATA

DATE: 08/16/00

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

LABORATORY CONTROL SAMPLE: 603682469

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Nitrobenzene-d5 (S)				69	
2-Fluorobiphenyl (S)				81	
Terphenyl-d14 (S)				73	
Phenol-d6 (S)				76	
2-Fluorophenol (S)				67	
2,4,6-Tribromophenol (S)				81	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87604
Analysis Method: EPA 8260
Associated Pace Samples: 603651225

QC Batch Method: EPA 8260
Analysis Description: GC/MS VOCs by 8260 (Low Level)

METHOD BLANK: 603695354
Associated Pace Samples:
603651225

Parameter	Units	Method Blank Result	PRL	Footnotes
Vinyl Chloride	ug/l	ND	1	
Chloroethane	ug/l	ND	1	
Methylene Chloride	ug/l	ND	1	
trans-1,2-Dichloroethene	ug/l	ND	1	
1,1-Dichloroethane	ug/l	ND	1	
cis-1,2-Dichloroethene	ug/l	ND	1	
1,1,1-Trichloroethane	ug/l	ND	1	
Benzene	ug/l	ND	1	
Trichloroethene	ug/l	ND	1	
Toluene	ug/l	ND	1	
Tetrachloroethene	ug/l	ND	1	
1,2-Dibromoethane	ug/l	ND	1	
Chlorobenzene	ug/l	ND	1	
1,1,1,2-Tetrachloroethane	ug/l	ND	1	
Ethylbenzene	ug/l	ND	1	
Xylene (Total)	ug/l	ND	3	
1,1,2,2-Tetrachloroethane	ug/l	ND	1	
tert-Butylbenzene	ug/l	ND	1	
Hexachlorobutadiene	ug/l	ND	1	
Acetone	ug/l	3.0	10	1
Carbon Disulfide	ug/l	ND	10	
2-Hexanone	ug/l	ND	10	
4-Methyl-2-Pentanone	ug/l	ND	10	
M&P-Xylene	ug/l	ND	1.3	
O-Xylene (1,2-Dimethylbenzene)	ug/l	ND	1.1	

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QUALITY CONTROL DATA

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

METHOD BLANK: 603695354
Associated Pace Samples:
603651225

Parameter	Units	Method Blank Result	PRL	Footnotes
Toluene-d8 (S)	%	103		
Dibromofluoromethane (S)	%	96		
4-Bromofluorobenzene (S)	%	104		
1,2-Dichloroethane-d4 (S)	%	93		

LABORATORY CONTROL SAMPLE & LCSD: 603684036 603684044

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	LCSD Result	Spike Dup % Rec	RPD	Footnotes
Vinyl Chloride	ug/l	10	6.240	62.4	6.784	67.8	8	
Chloroethane	ug/l	10	8.110	81.1	8.885	88.9	9	
[illegible]ne Chloride	ug/l	10	9.496	95.0	10.79	108	13	
trans-1,2-Dichloroethene	ug/l	10	9.913	99.1	9.783	97.8	1	
1,1-Dichloroethane	ug/l	10	9.083	90.8	8.971	89.7	1	
cis-1,2-Dichloroethene	ug/l	10	9.537	95.4	9.601	96.0	1	
1,1,1-Trichloroethane	ug/l	10	9.343	93.4	8.946	89.5	4	
Benzene	ug/l	10	9.683	96.8	9.966	99.7	3	
Trichloroethene	ug/l	10	10.76	108	11.08	111	3	
Toluene	ug/l	10	11.68	117	12.45	125	7	
Tetrachloroethene	ug/l	10	10.41	104	10.36	104	0	
1,2-Dibromoethane	ug/l	10	11.28	113	11.93	119	5	
Chlorobenzene	ug/l	10	10.39	104	10.91	109	5	
1,1,1,2-Tetrachloroethane	ug/l	10	10.71	107	11.19	112	5	
Ethylbenzene	ug/l	10	10.71	107	11.07	111	4	
1,1,2,2-Tetrachloroethane	ug/l	10	9.934	99.3	10.23	102	3	
tert-Butylbenzene	ug/l	10	10.16	102	10.39	104	2	
Hexachlorobutadiene	ug/l	10	8.013	80.1	8.265	82.7	3	
M&P-Xylene	ug/l	20	20.00	100	21.12	106	6	
O-Xylene (1,2-Dimethylbenzene)	ug/l	10	10.10	101	10.81	108	7	
Toluene-d8 (S)				113		116		11
Dibromofluoromethane (S)				91		89		
4-Bromofluorobenzene (S)				93		94		
1,2-Dichloroethane-d4 (S)				87		88		

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QUALITY CONTROL DATA

DATE: 08/16/00

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87698
Analysis Method: EPA 7471
Associated Pace Samples: 603650987 603651068 603651100

QC Batch Method: EPA 7471
Analysis Description: Mercury, Soil CVAAS

METHOD BLANK: 603689332
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
Mercury	mg/kg	ND	0.154	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603689340 603689357

Parameter	Units	603650987	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Mercury	mg/kg	0.01728	1.911	1.976	102	2.044	106	3	

LABORATORY CONTROL SAMPLE: 603689365

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Mercury	mg/kg	1.667	1.734	104	

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QUALITY CONTROL DATA

DATE: 08/16/00

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87784
Analysis Method: EPA 9010A
Associated Pace Samples: 603650987 603651068 603651100

QC Batch Method: EPA 9010A
Analysis Description: Cyanide, Total, Soil

METHOD BLANK: 603694092
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
Cyanide	mg/kg	ND	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603694100 603694118

Parameter	Units	603650987	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Cyanide	mg/kg	0.1147	11.47	9.860	85.0	10.43	90.0	6	

LABORATORY CONTROL SAMPLE: 603694134

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Cyanide	mg/kg	10	7.000	70.0	

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Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87905
QC Batch Method: EPA 7196 Modified
Analysis Method: EPA 7196 Modified
Analysis Description: Chromium, Hexavalent, in Soil
Associated Pace Samples: 603650987 603651068 603651100

METHOD BLANK: 603698721
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
Chromium, Hexavalent	mg/kg	ND	0.1	

MATRIX SPIKE: 603698739

Parameter	Units	603650987	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Chromium, Hexavalent	mg/kg	2.075	1.147	2.706	55.0	

LABORATORY CONTROL SAMPLE: 603698754

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Chromium, Hexavalent	mg/kg	1.000	1.030	103	

SAMPLE DUPLICATE: 603698747

Parameter	Units	603650987	Dup. Result	RPD	Footnotes
Chromium, Hexavalent	mg/kg	2.080	2.080	0	

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QUALITY CONTROL DATA

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

QC Batch ID: 87908
QC Batch Method: EPA 9030A
Analysis Method: EPA 9030A
Analysis Description: Sulfides in Waste, for Soil
Associated Pace Samples: 603650987 603651068 603651100

METHOD BLANK: 603698861
Associated Pace Samples:
603650987 603651068 603651100

Parameter	Units	Method Blank Result	PRL	Footnotes
Sulfide	mg/kg	ND	2	

MATRIX SPIKE: 603698879

Parameter	Units	603660556	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Sulfide	mg/kg	2377	10	20800	184200	

LABORATORY CONTROL SAMPLE: 603698895

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Sulfide	mg/kg	10	9.200	92.0	

SAMPLE DUPLICATE: 603698887

Parameter	Units	603660556	Dup. Result	RPD	Footnotes
Sulfide	mg/kg	2380	1190	67	

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Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	Detected but below the PRL; therefore, result is an estimated concentration (CLP J-Flag).
[2]	The calculated RPD was outside QC acceptance limits.
[3]	Heptachlor exceeded the laboratory established control limits.
[4]	Due to the presence of PCB-1260 in the QC matrix, the MS/MSD did not provide reliable results for accuracy and precision. Sample results for this QC batch accepted based on LCS percent recoveries.
[5]	The Surrogate recovery value exceeded the established laboratory control limit value.
[6]	Due to high analyte concentration the matrix spike and matrix spike duplicate do not provide reliable recovery data.
[7]	The calculated RPD was outside QC acceptance limits.
[8]	Due to high analyte concentration and noted non homogeneity of the QC matrix, the MS/MSD did not provide reliable results for accuracy and precision. Sample results for this QC batch were accepted based on LCS percent recoveries.
[9]	Due to high analyte concentration the matrix spike and/or matrix spike duplicate do not provide reliable recovery data.
[10]	The calculated RPD exceeded the RPD control limit value of 17.
[11]	The recovery exceeds laboratory established control limits of 115%.

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QUALITY CONTROL DATA
CROSS REFERENCE TABLE

Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

Pace Project Number: 6043051
Client Project ID: ISC KC RFI EX7, EX11 SURF/BASE

Attn: Mr. MICK COSSAIRT
Phone: 913-631-3300

Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603650987	EX7	EPA 8260	87068		
603651068	EX11 SURFACE	EPA 8260	87068		
603651100	EX11 BASE	EPA 8260	87068		
603650987	EX7	EPA 3550	87077	EPA 8082	87300
3651068	EX11 SURFACE	EPA 3550	87077	EPA 8082	87300
603651100	EX11 BASE	EPA 3550	87077	EPA 8082	87300
603650987	EX7	EPA 3550	87078	EPA 8081A	87304
603651068	EX11 SURFACE	EPA 3550	87078	EPA 8081A	87304
603651100	EX11 BASE	EPA 3550	87078	EPA 8081A	87304
603650987	EX7		87241		
603651068	EX11 SURFACE		87241		
603651100	EX11 BASE		87241		
603650987	EX7	EPA 3050	87278	EPA 7841	87653
603651068	EX11 SURFACE	EPA 3050	87278	EPA 7841	87653
603651100	EX11 BASE	EPA 3050	87278	EPA 7841	87653
603650987	EX7	EPA 3050	87279	EPA 6010	87765
603651068	EX11 SURFACE	EPA 3050	87279	EPA 6010	87765
603651100	EX11 BASE	EPA 3050	87279	EPA 6010	87765
603650987	EX7	EPA 3550	87516	EPA 8151	87734
603651068	EX11 SURFACE	EPA 3550	87516	EPA 8151	87734
603651100	EX11 BASE	EPA 3550	87516	EPA 8151	87734
603650987	EX7	EPA 3550 Sonication	87568	EPA 8270	87731
603651068	EX11 SURFACE	EPA 3550 Sonication	87568	EPA 8270	87731
3651100	EX11 BASE	EPA 3550 Sonication	87568	EPA 8270	87731

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Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603651225	TRIP BLANK 7/13/2000	EPA 8260	87604		
603650987	EX7	EPA 7471	87698		
603651068	EX11 SURFACE	EPA 7471	87698		
603651100	EX11 BASE	EPA 7471	87698		
603650987	EX7	EPA 9010A	87784		
603651068	EX11 SURFACE	EPA 9010A	87784		
603651100	EX11 BASE	EPA 9010A	87784		
603650987	EX7	EPA 7196 Modified	87905		
603651068	EX11 SURFACE	EPA 7196 Modified	87905		
603651100	EX11 BASE	EPA 7196 Modified	87905		
603650987	EX7	EPA 9030A	87908		
603651068	EX11 SURFACE	EPA 9030A	87908		
603651100	EX11 BASE	EPA 9030A	87908		

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September 19, 2000

Mr. RODNEY MANN
Deffenbaugh Industries, Inc.
18181 W 53RD ST
SHAWNEE, KS 66203

RE: Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

Dear Mr. MANN:

Enclosed are the analytical results for sample(s)received by the laboratory on August 25, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela Brown
Project Manager

Enclosures

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DATE: 09/19/00
PAGE: 1

ffenbaugh Industries, Inc.
181 W 53RD ST
AWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

tn: Mr. RODNEY MANN
ıone: 913-631-3300

ıid results are reported on a dry weight basis

ce Sample No: 603774043 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B18R-.5' Date Received: 08/25/00

·rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
t Chemistry								
r [redacted]n. Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
[redacted]mium. Hexavalent	0.367	mg/kg	0.122	0.10	09/08/00	WOC	18540-29-9	
ganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	18.2	%		0.82	08/30/00	DCKI		
. Semivolatiles								
Organochlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
beta-BHC	ND	ug/kg	2.4	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.6	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.2	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	70	%		0.82	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	59	%		0.82	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
:/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	400	0.98	09/07/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	95-50-1	
2-[redacted]thylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	95-48-7	
[redacted]hylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	106-44-5	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774043 | Date Collected: 08/25/00 | Matrix: Soil
ient Sample ID: B18R-.5' | Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Hexachloroethane	ND	ug/kg	400	0.98	09/07/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	1900	0.98	09/07/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	400	0.98	09/07/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	400	0.98	09/07/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	400	0.98	09/07/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	400	0.98	09/07/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	400	0.98	09/07/00	WAW	132-64-9	
2,4-Dinitrotoluene	ND	ug/kg	400	0.98	09/07/00	WAW	121-14-2	
Fluorene	ND	ug/kg	400	0.98	09/07/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	400	0.98	09/07/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	118-74-1	
[illegible]threne	ND	ug/kg	400	0.98	09/07/00	WAW	85-01-8	
[illegible]acene	ND	ug/kg	400	0.98	09/07/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	400	0.98	09/07/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	400	0.98	09/07/00	WAW	206-44-0	
Pyrene	ND	ug/kg	400	0.98	09/07/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	400	0.98	09/07/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	400	0.98	09/07/00	WAW	56-55-3	
Chrysene	ND	ug/kg	400	0.98	09/07/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	400	0.98	09/07/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	108-39-4	
Pyridine	ND	ug/kg	400	0.98	09/07/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	53	%		0.82	09/07/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	63	%		0.82	09/07/00	WAW	321-60-8	
Terphenyl-d14 (S)	54	%		0.82	09/07/00	WAW	1718-51-0	
Phenol-d6 (S)	58	%		0.82	09/07/00	WAW	13127-88-3	
2-Fluorophenol (S)	57	%		0.82	09/07/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	57	%		0.82	09/07/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774050 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B18R-2.5' Date Received: 08/25/00

;rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
·t Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.137	mg/kg	0.124	0.10	09/08/00	WOC	18540-29-9	
ganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	19.7	%		0.80	08/30/00	DCKI		
; Semivolatiles								
C [illegible]hlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
[illegible]-BHC	ND	ug/kg	2.5	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.6	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.2	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.1	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	60	%		0.80	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	48	%		0.80	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
C/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	400	0.98	09/07/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	400	0.98	09/07/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.98	09/07/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	400	0.98	09/07/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	400	0.98	09/07/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	400	0.98	09/07/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	400	0.98	09/07/00	WAW	83-32-9	
D[illegible]nzofuran	ND	ug/kg	400	0.98	09/07/00	WAW	132-64-9	
[illegible]initrotoluene	ND	ug/kg	400	0.98	09/07/00	WAW	121-14-2	

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DATE: 09/19/00

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774050 | Date Collected 08/25/00 | Matrix: Soil
ıent Sample ID: B18R-2.5' | Date Received 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	400	0.98	09/07/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	400	0.98	09/07/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	400	0.98	09/07/00	WAW	85-01-8	
Anthracene	ND	ug/kg	400	0.98	09/07/00	WAW	120-12-7	
Di-n-butylphthalate	60	ug/kg	400	0.98	09/07/00	WAW	84-74-2	1,2
Fluoranthene	ND	ug/kg	400	0.98	09/07/00	WAW	206-44-0	
Pyrene	ND	ug/kg	400	0.98	09/07/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	400	0.98	09/07/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	400	0.98	09/07/00	WAW	56-55-3	
Chrysene	ND	ug/kg	400	0.98	09/07/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	400	0.98	09/07/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	108-39-4	
[illegible]ine	ND	ug/kg	400	0.98	09/07/00	WAW	110-86-1	
[illegible]robenzene-d5 (S)	66	%		0.30	09/07/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	78	%		0.30	09/07/00	WAW	321-60-8	
Terphenyl-d14 (S)	64	%		0.30	09/07/00	WAW	1718-51-0	
Phenol-d6 (S)	71	%		0.30	09/07/00	WAW	13127-88-3	
2-Fluorophenol (S)	70	%		0.30	09/07/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	74	%		0.30	09/07/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ace Sample No: 603774068 Date Collected: 08/25/00 Matrix: Soil
lient Sample ID: B17R-.5' Date Received: 08/25/00

arameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
et Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.258	mg/kg	0.123	0.10	09/08/00	WOC	18540-29-9	
rganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	18.6	%		0.81	08/30/00	DCKI		
C Semivolatiles								
[illegible]chlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
[illegible]-BHC	ND	ug/kg	2.4	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.6	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.2	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.1	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	79	%		0.81	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	64	%		0.81	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
C/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	400	0.98	09/07/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	400	0.98	09/07/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	1900	0.98	09/07/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	400	0.98	09/07/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	400	0.98	09/07/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	400	0.98	09/07/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	400	0.98	09/07/00	WAW	83-32-9	
[illegible]enzofuran	ND	ug/kg	400	0.98	09/07/00	WAW	132-64-9	
[illegible]Dinitrotoluene	ND	ug/kg	400	0.98	09/07/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774068 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B17R-.5' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	400	0.98	09/07/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	400	0.98	09/07/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	400	0.98	09/07/00	WAW	85-01-8	
Anthracene	ND	ug/kg	400	0.98	09/07/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	400	0.98	09/07/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	400	0.98	09/07/00	WAW	206-44-0	
Pyrene	ND	ug/kg	400	0.98	09/07/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	400	0.98	09/07/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	400	0.98	09/07/00	WAW	56-55-3	
Chrysene	ND	ug/kg	400	0.98	09/07/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	400	0.98	09/07/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	108-39-4	
[illegible]ne	ND	ug/kg	400	0.98	09/07/00	WAW	110-86-1	
[illegible]obenzene-d5 (S)	57	%		0.81	09/07/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	61	%		0.81	09/07/00	WAW	321-60-8	
Terphenyl-d14 (S)	57	%		0.81	09/07/00	WAW	1718-51-0	
Phenol-d6 (S)	63	%		0.81	09/07/00	WAW	13127-88-3	
2-Fluorophenol (S)	56	%		0.81	09/07/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	60	%		0.81	09/07/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

:e Sample No: 603774076 Date Collected: 08/25/00 Matrix: Soil
ıent Sample ID: B17R-2.5' Date Received: 08/25/00

·ameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
ι Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.203	mg/kg	0.127	0.10	09/08/00	WOC	18540-29-9	
ganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	2[illegible].0	%		0.79	08/30/00	DCKI		
Semivolatiles								
C[illegible]lorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
[illegible]BHC	ND	ug/kg	2.5	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.3	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.2	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	81	%		0.79	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	80	%		0.79	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	410	0.98	09/08/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	410	0.98	09/08/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	410	0.98	09/08/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	410	0.98	09/08/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	410	0.98	09/08/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	410	0.98	09/08/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	410	0.98	09/08/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	410	0.98	09/08/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.98	09/08/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	410	0.98	09/08/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	410	0.98	09/08/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	410	0.98	09/08/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	410	0.98	09/08/00	WAW	83-32-9	
Di[illegible]nzofuran	ND	ug/kg	410	0.98	09/08/00	WAW	132-64-9	
[illegible]nitrotoluene	ND	ug/kg	410	0.98	09/08/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774076 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B17R-2.5' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	410	0.98	09/08/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	0.98	09/08/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	0.98	09/08/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	410	0.98	09/08/00	WAW	85-01-8	
Anthracene	ND	ug/kg	410	0.98	09/08/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	410	0.98	09/08/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	410	0.98	09/08/00	WAW	206-44-0	
Pyrene	ND	ug/kg	410	0.98	09/08/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	410	0.98	09/08/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	410	0.98	09/08/00	WAW	56-55-3	
Chrysene	ND	ug/kg	410	0.98	09/08/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	410	0.98	09/08/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	410	0.98	09/08/00	WAW	108-39-4	
[illegible]ne	ND	ug/kg	410	0.98	09/08/00	WAW	110-86-1	
[illegible]obenzene-d5 (S)	61	%		0.79	09/08/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	58	%		0.79	09/08/00	WAW	321-60-8	
Terphenyl-d14 (S)	53	%		0.79	09/08/00	WAW	1718-51-0	
Phenol-d6 (S)	65	%		0.79	09/08/00	WAW	13127-88-3	
2-Fluorophenol (S)	60	%		0.79	09/08/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	57	%		0.79	09/08/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ace Sample No: 603774084 Date Collected: 08/25/00 Matrix: Soil
lient Sample ID: B17R-5.0' Date Received: 08/25/00

arameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
'et Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.641	mg/kg	0.128	0.10	09/08/00	WOC	18540-29-9	
rganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	22.0	%		0.78	08/30/00	DCKI		
C Semivolatiles								
chlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
a-BHC	ND	ug/kg	2.5	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.3	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.2	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	94	%		0.78	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	80	%		0.78	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
C/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	410	0.97	09/08/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	410	0.97	09/08/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	410	0.97	09/08/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	410	0.97	09/08/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	410	0.97	09/08/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	410	0.97	09/08/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	410	0.97	09/08/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	410	0.97	09/08/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.97	09/08/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	410	0.97	09/08/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	410	0.97	09/08/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	410	0.97	09/08/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	410	0.97	09/08/00	WAW	83-32-9	
enzofuran	ND	ug/kg	410	0.97	09/08/00	WAW	132-64-9	
Dinitrotoluene	ND	ug/kg	410	0.97	09/08/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774084 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B17R-5.0' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	410	0.97	09/08/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	0.97	09/08/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	0.97	09/08/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	410	0.97	09/08/00	WAW	85-01-8	
Anthracene	ND	ug/kg	410	0.97	09/08/00	WAW	120-12-7	
Di-n-butylphthalate	54	ug/kg	410	0.97	09/08/00	WAW	84-74-2	1
Fluoranthene	ND	ug/kg	410	0.97	09/08/00	WAW	206-44-0	
Pyrene	ND	ug/kg	410	0.97	09/08/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	410	0.97	09/08/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	410	0.97	09/08/00	WAW	56-55-3	
Chrysene	ND	ug/kg	410	0.97	09/08/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	410	0.97	09/08/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	410	0.97	09/08/00	WAW	108-39-4	
[illegible]ine	ND	ug/kg	410	0.97	09/08/00	WAW	110-86-1	
[illegible]obenzene-d5 (S)	59	%		0.78	09/08/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	63	%		0.78	09/08/00	WAW	321-60-8	
Terphenyl-d14 (S)	53	%		0.78	09/08/00	WAW	1718-51-0	
Phenol-d6 (S)	62	%		0.78	09/08/00	WAW	13127-88-3	
2-Fluorophenol (S)	58	%		0.78	09/08/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	71	%		0.78	09/08/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ace Sample No: 603774092 Date Collected: 08/25/00 Matrix: Soil
lient Sample ID: DUPLICATE Date Received: 08/25/00

arameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
et Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.581	mg/kg	0.126	0.10	09/08/00	WOC	18540-29-9	
rganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	20.9	%		0.79	08/30/00	DCKI		
C Semivolatiles								
chlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
BHC	ND	ug/kg	2.5	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.3	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.2	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	86	%		0.79	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylere (S)	96	%		0.79	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
C/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	410	0.98	09/07/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	410	0.98	09/07/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.98	09/07/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	410	0.98	09/07/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	410	0.98	09/07/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	410	0.98	09/07/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	410	0.98	09/07/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	410	0.98	09/07/00	WAW	132-64-9	
Dinitrotoluene	ND	ug/kg	410	0.98	09/07/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774092 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: DUPLICATE Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	410	0.98	09/07/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	0.98	09/07/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	410	0.98	09/07/00	WAW	85-01-8	
Anthracene	ND	ug/kg	410	0.98	09/07/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	410	0.98	09/07/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	410	0.98	09/07/00	WAW	206-44-0	
Pyrene	ND	ug/kg	410	0.98	09/07/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	410	0.98	09/07/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	410	0.98	09/07/00	WAW	56-55-3	
Chrysene	ND	ug/kg	410	0.98	09/07/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	410	0.98	09/07/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	108-39-4	
[illegible]dine	ND	ug/kg	410	0.98	09/07/00	WAW	110-86-1	
[illegible]enzene-d5 (S)	59	%		0.79	09/07/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	59	%		0.79	09/07/00	WAW	321-60-8	
Terphenyl-d14 (S)	55	%		0.79	09/07/00	WAW	1718-51-0	
Phenol-d6 (S)	66	%		0.79	09/07/00	WAW	13127-88-3	
2-Fluorophenol (S)	56	%		0.79	09/07/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	65	%		0.79	09/07/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ace Sample No: 603774100 Date Collected: 08/25/00 Matrix: Soil
lient Sample ID: B19F-15.0 Date Received: 08/25/00

'arameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
'et Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.816	mg/kg	0.128	0.10	09/08/00	WOC	18540-29-9	
,rganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	21.6	%		0.78	08/30/00	DCKI		
,C Semivolatiles								
[illegible]chlorine Pest·cides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
[illegible]BHC	ND	ug/kg	2.5	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.3	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.2	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphery' (S)	87	%		0.78	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	79	%		0.78	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
,C/MS Semivolatiles								
Semivolatile Orgarics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	410	0.97	09/08/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	410	0.97	09/08/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	410	0.97	09/08/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	410	0.97	09/08/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	410	0.97	09/08/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	410	0.97	09/08/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	410	0.97	09/08/00	WAW	98-95-3	
2,4-Dimethylphero'	ND	ug/kg	410	0.97	09/08/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.97	09/08/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	410	0.97	09/08/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	410	0.97	09/08/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	410	0.97	09/08/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	410	0.97	09/08/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	410	0.97	09/08/00	WAW	132-64-9	
[illegible]Dinitrotoluene	ND	ug/kg	410	0.97	09/08/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

Pace Sample No: 6037774100 Date Collected: 08/25/00 Matrix: Soil
Client Sample ID: B19R-15.0 Date Received: 08/25/00

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	410	0.97	09/08/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	0.97	09/08/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	0.97	09/08/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	410	0.97	09/08/00	WAW	85-01-8	
Anthracene	62	ug/kg	410	0.97	09/08/00	WAW	120-12-7	1
Di-n-butylphthalate	140	ug/kg	410	0.97	09/08/00	WAW	84-74-2	1,2
Fluoranthene	ND	ug/kg	410	0.97	09/08/00	WAW	206-44-0	
Pyrene	ND	ug/kg	410	0.97	09/08/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	410	0.97	09/08/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	410	0.97	09/08/00	WAW	56-55-3	
Chrysene	ND	ug/kg	410	0.97	09/08/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	210	ug/kg	410	0.97	09/08/00	WAW	117-81-7	1
3-Methylphenol	ND	ug/kg	410	0.97	09/08/00	WAW	108-39-4	
Pyridine	ND	ug/kg	410	0.97	09/08/00	WAW	110-86-1	
Nitrobenzene-d5 (S)	67	%		0.78	09/08/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	71	%		0.78	09/08/00	WAW	321-60-8	
Terphenyl-d14 (S)	65	%		0.78	09/08/00	WAW	1718-51-0	
Phenol-d6 (S)	67	%		0.78	09/08/00	WAW	13127-88-3	
2-Fluorophenol (S)	67	%		0.78	09/08/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	77	%		0.78	09/08/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ace Sample No: 60[illegible]74118 Date Collected: 08/25/00 Matrix: Soil
lient Sample ID: B1[illegible]-17.5' Date Received: 08/25/00

arameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
et Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	1.42	mg/kg	0.131	0.10	09/08/00	WOC	18540-29-9	
rganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	23.4	%		0.77	08/30/00	DCKI		
C Semivolatiles								
[illegible]chlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
[illegible]BHC	ND	ug/kg	2.6	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.3	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.3	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	95	%		0.77	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	80	%		0.77	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
C/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	420	0.97	09/08/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	420	0.97	09/08/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	420	0.97	09/08/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	420	0.97	09/08/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	420	0.97	09/08/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	420	0.97	09/08/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	420	0.97	09/08/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	420	0.97	09/08/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.97	09/08/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	420	0.97	09/08/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	420	0.97	09/08/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	420	0.97	09/08/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	420	0.97	09/08/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	420	0.97	09/08/00	WAW	132-64-9	
[illegible]Dinitrotoluene	ND	ug/kg	420	0.97	09/08/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774118 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-17.5' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	420	0.97	09/08/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	420	0.97	09/08/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	420	0.97	09/08/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	420	0.97	09/08/00	WAW	85-01-8	
Anthracene	ND	ug/kg	420	0.97	09/08/00	WAW	120-12-7	
Di-n-butylphthalate	90	ug/kg	420	0.97	09/08/00	WAW	84-74-2	1,2
Fluoranthene	ND	ug/kg	420	0.97	09/08/00	WAW	206-44-0	
Pyrene	ND	ug/kg	420	0.97	09/08/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	420	0.97	09/08/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	420	0.97	09/08/00	WAW	56-55-3	
Chrysene	ND	ug/kg	420	0.97	09/08/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	420	0.97	09/08/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	420	0.97	09/08/00	WAW	108-39-4	
[illegible]ine	ND	ug/kg	420	0.97	09/08/00	WAW	110-86-1	
[illegible]benzene-d5 (S)	58	%		0.77	09/08/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	53	%		0.77	09/08/00	WAW	321-60-8	
Terphenyl-d14 (S)	56	%		0.77	09/08/00	WAW	1718-51-0	
Phenol-d6 (S)	50	%		0.77	09/08/00	WAW	13127-88-3	
2-Fluorophenol (S)	53	%		0.77	09/08/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	71	%		0.77	09/08/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774126 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-20.0' Date Received: 08/25/00

·rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
·t Chemistry								
Chromium, Hexavalent, in Soil		Method: EPA 7196 Modified			Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	1.12	mg/kg	0.129	0.10	09/08/00	WOC	18540-29-9	
·ganics Prep								
Percent Moisture		Method:			Prep Method:			
Percent Moisture	22.6	%		0.77	08/30/00	DCKI		
: Semivolatiles								
C hlorine Pesticides GC		Method: EPA 8081A			Prep Method: EPA 3550			
BHC	2.8	ug/kg	2.6	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.3	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.3	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	101	%		0.77	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	82	%		0.77	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
C/MS Semivolatiles								
Semivolatile Organics		Method: EPA 8270			Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	420	0.98	09/07/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	420	0.98	09/07/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	420	0.98	09/07/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	420	0.98	09/07/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	420	0.98	09/07/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	420	0.98	09/07/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	420	0.98	09/07/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	420	0.98	09/07/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.98	09/07/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	420	0.98	09/07/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	420	0.98	09/07/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	420	0.98	09/07/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	420	0.98	09/07/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	420	0.98	09/07/00	WAW	132-64-9	
initrotoluene	ND	ug/kg	420	0.98	09/07/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ace Sample No: 6037'4126 Date Collected: 08/25/00 Matrix: Soil
lient Sample ID: B19R-20.0' Date Received: 08/25/00

arameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	420	0.98	09/07/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	420	0.98	09/07/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	420	0.98	09/07/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	420	0.98	09/07/00	WAW	85-01-8	
Anthracene	ND	ug/kg	420	0.98	09/07/00	WAW	120-12-7	
Di-n-butylphthalate	89	ug/kg	420	0.98	09/07/00	WAW	84-74-2	1,2
Fluoranthene	ND	ug/kg	420	0.98	09/07/00	WAW	206-44-0	
Pyrene	ND	ug/kg	420	0.98	09/07/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	420	0.98	09/07/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	420	0.98	09/07/00	WAW	56-55-3	
Chrysene	ND	ug/kg	420	0.98	09/07/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	420	0.98	09/07/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	420	0.98	09/07/00	WAW	108-39-4	
[illegible]dine	ND	ug/kg	420	0.98	09/07/00	WAW	110-86-1	
[illegible]benzene-d5 (S)	64	%		0.77	09/07/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	65	%		0.77	09/07/00	WAW	321-60-8	
Terphenyl-d14 (S)	57	%		0.77	09/07/00	WAW	1718-51-0	
Phenol-d6 (S)	67	%		0.77	09/07/00	WAW	13127-88-3	
2-Fluorophenol (S)	60	%		0.77	09/07/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	66	%		0.77	09/07/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774134 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-.5' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
t Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.418	mg/kg	0.123	0.10	09/08/00	WOC	18540-29-9	
ganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	18.7	%		0.81	08/30/00	DCKI		
Semivolatiles								
C hlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
BHC	ND	ug/kg	2.4	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.6	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.2	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.1	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	94	%		0.81	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	73	%		0.81	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
C/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	400	0.98	09/08/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	400	0.98	09/08/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	400	0.98	09/08/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	400	0.98	09/08/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	400	0.98	09/08/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	400	0.98	09/08/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	400	0.98	09/08/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	400	0.98	09/08/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	1900	0.98	09/08/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	400	0.98	09/08/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	400	0.98	09/08/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	400	0.98	09/08/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	400	0.98	09/08/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	400	0.98	09/08/00	WAW	132-64-9	
initrotoluene	ND	ug/kg	400	0.98	09/08/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

-ce Sample No: 603774[illegible]34 Date Collected: 08/25/00 Matrix: Soil
lient Sample ID: B13[illegible] Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	400	0.98	09/08/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	400	0.98	09/08/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	400	0.98	09/08/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	400	0.98	09/08/00	WAW	85-01-8	
Anthracene	ND	ug/kg	400	0.98	09/08/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	400	0.98	09/08/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	400	0.98	09/08/00	WAW	206-44-0	
Pyrene	ND	ug/kg	400	0.98	09/08/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	400	0.98	09/08/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	400	0.98	09/08/00	WAW	56-55-3	
Chrysene	ND	ug/kg	400	0.98	09/08/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	400	0.98	09/08/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	400	0.98	09/08/00	WAW	108-39-4	
[illegible]line	ND	ug/kg	400	0.98	09/08/00	WAW	110-86-1	
[illegible]benzene-d5 (S	73	%		0.81	09/08/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	75	%		0.81	09/08/00	WAW	321-60-8	
Terphenyl-d14 (S)	66	%		0.81	09/08/00	WAW	1718-51-0	
Phenol-d6 (S)	74	%		0.81	09/08/00	WAW	13127-88-3	
2-Fluorophenol (S)	65	%		0.81	09/08/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	69	%		0.81	09/08/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774142 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-2.5' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
t Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.299	mg/kg	0.125	0.10	09/08/00	WOC	18540-29-9	
ganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	19.8	%		0.80	08/30/00	DCKI		
Semivolatiles								
r [illegible]lorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
[illegible]BHC	ND	ug/kg	2.5	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.6	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.2	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.1	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	82	%		0.80	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	55	%		0.80	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	400	0.98	09/08/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	400	0.98	09/08/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	400	0.98	09/08/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	400	0.98	09/08/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	400	0.98	09/08/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	400	0.98	09/08/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	400	0.98	09/08/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	400	0.98	09/08/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.98	09/08/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	400	0.98	09/08/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	400	0.98	09/08/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	400	0.98	09/08/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	400	0.98	09/08/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	400	0.98	09/08/00	WAW	132-64-9	
[illegible]initrotoluene	ND	ug/kg	400	0.98	09/08/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ace Sample No: 603774142 Date Collected: 08/25/00 Matrix: Soil
lient Sample ID: B19R-2.5' Date Received: 08/25/00

arameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	400	0.98	09/08/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	400	0.98	09/08/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	400	0.98	09/08/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	400	0.98	09/08/00	WAW	85-01-8	
Anthracene	ND	ug/kg	400	0.98	09/08/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	400	0.98	09/08/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	400	0.98	09/08/00	WAW	206-44-0	
Pyrene	ND	ug/kg	400	0.98	09/08/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	400	0.98	09/08/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	400	0.98	09/08/00	WAW	56-55-3	
Chrysene	ND	ug/kg	400	0.98	09/08/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	400	0.98	09/08/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	400	0.98	09/08/00	WAW	108-39-4	
[illegible]dine	ND	ug/kg	400	0.98	09/08/00	WAW	110-86-1	
[illegible]obenzene-d5 (S)	113	%		0.80	09/08/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	124	%		0.80	09/08/00	WAW	321-60-8	
Terphenyl-d14 (S)	108	%		0.80	09/08/00	WAW	1718-51-0	
Phenol-d6 (S)	113	%		0.80	09/08/00	WAW	13127-88-3	
2-Fluorophenol (S)	116	%		0.80	09/08/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	131	%		0.80	09/08/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774159 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-5.0' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
t Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.465	mg/kg	0.126	0.10	09/08/00	WOC	18540-29-9	
ganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	20.4	%		0.80	08/30/00	DCKI		
Semivolatiles								
O[illegible]hlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
[illegible]BHC	ND	ug/kg	2.5	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.2	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.1	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	77	%		0.80	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	74	%		0.80	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	410	0.98	09/07/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	410	0.98	09/07/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.98	09/07/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	410	0.98	09/07/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	410	0.98	09/07/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	410	0.98	09/07/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	410	0.98	09/07/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	410	0.98	09/07/00	WAW	132-64-9	
[illegible]initrotoluene	ND	ug/kg	410	0.98	09/07/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774159 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-5.0' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	410	0.98	09/07/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	0.98	09/07/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	410	0.98	09/07/00	WAW	85-01-8	
Anthracene	ND	ug/kg	410	0.98	09/07/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	410	0.98	09/07/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	410	0.98	09/07/00	WAW	206-44-0	
Pyrene	ND	ug/kg	410	0.98	09/07/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	410	0.98	09/07/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	410	0.98	09/07/00	WAW	56-55-3	
Chrysene	ND	ug/kg	410	0.98	09/07/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	410	0.98	09/07/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	108-39-4	
[illegible]ne	ND	ug/kg	410	0.98	09/07/00	WAW	110-86-1	
[illegible]obenzene-d5 (S)	63	%		0.80	09/07/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	77	%		0.80	09/07/00	WAW	321-60-8	
Terphenyl-d14 (S)	59	%		0.80	09/07/00	WAW	1718-51-0	
Phenol-d6 (S)	61	%		0.80	09/07/00	WAW	13127-88-3	
2-Fluorophenol (S)	63	%		0.80	09/07/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	79	%		0.80	09/07/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774167 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-7.5' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
·t Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.685	mg/kg	0.127	0.10	09/08/00	WOC	18540-29-9	
ganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	21.2	%		0.79	08/30/00	DCKI		
Semivolatiles								
O- chlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
BHC	ND	ug/kg	2.5	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.3	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.2	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	73	%		0.79	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	109	%		0.79	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
C/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	410	0.98	09/07/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	410	0.98	09/07/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.98	09/07/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	410	0.98	09/07/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	410	0.98	09/07/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	410	0.98	09/07/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	410	0.98	09/07/00	WAW	83-32-9	
Dibenzofuran	ND	ug/kg	410	0.98	09/07/00	WAW	132-64-9	
initrotoluene	ND	ug/kg	410	0.98	09/07/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774167 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-7.5' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	410	0.98	09/07/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	0.98	09/07/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	410	0.98	09/07/00	WAW	85-01-8	
Anthracene	ND	ug/kg	410	0.98	09/07/00	WAW	120-12-7	
Di-n-butylphthalate	100	ug/kg	410	0.98	09/07/00	WAW	84-74-2	1,2
Fluoranthene	ND	ug/kg	410	0.98	09/07/00	WAW	206-44-0	
Pyrene	ND	ug/kg	410	0.98	09/07/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	410	0.98	09/07/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	410	0.98	09/07/00	WAW	56-55-3	
Chrysene	ND	ug/kg	410	0.98	09/07/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	410	0.98	09/07/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	108-39-4	
[illegible]ine	ND	ug/kg	410	0.98	09/07/00	WAW	110-86-1	
[illegible]obenzene-d5 (S)	65	%		0.79	09/07/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	77	%		0.79	09/07/00	WAW	321-60-8	
Terphenyl-d14 (S)	64	%		0.79	09/07/00	WAW	1718-51-0	
Phenol-d6 (S)	67	%		0.79	09/07/00	WAW	13127-88-3	
2-Fluorophenol (S)	69	%		0.79	09/07/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	75	%		0.79	09/07/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774175 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-10.0' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
t Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.47	mg/kg	0.124	0.10	09/08/00	WOC	18540-29-9	
ganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	19.1	%		0.81	08/30/00	DCKI		
C Semivolatiles								
C hlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
-BHC	ND	ug/kg	2.4	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.6	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.2	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.1	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	83	%		0.81	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	71	%		0.81	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
C/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	400	0.98	09/07/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	400	0.98	09/07/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	1900	0.98	09/07/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	400	0.98	09/07/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	400	0.98	09/07/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	400	0.98	09/07/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	400	0.98	09/07/00	WAW	83-32-9	
enzofuran	ND	ug/kg	400	0.98	09/07/00	WAW	132-64-9	
initrotoluene	ND	ug/kg	400	0.98	09/07/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774175 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-10.0' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	400	0.98	09/07/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	400	0.98	09/07/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	400	0.98	09/07/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	400	0.98	09/07/00	WAW	85-01-8	
Anthracene	ND	ug/kg	400	0.98	09/07/00	WAW	120-12-7	
Di-n-butylphthalate	42	ug/kg	400	0.98	09/07/00	WAW	84-74-2	1,2
Fluoranthene	ND	ug/kg	400	0.98	09/07/00	WAW	206-44-0	
Pyrene	ND	ug/kg	400	0.98	09/07/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	400	0.98	09/07/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	400	0.98	09/07/00	WAW	56-55-3	
Chrysene	ND	ug/kg	400	0.98	09/07/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	400	0.98	09/07/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	400	0.98	09/07/00	WAW	108-39-4	
[illegible]ine	ND	ug/kg	400	0.98	09/07/00	WAW	110-86-1	
[illegible]benzene-d5 (S)	67	%		0.81	09/07/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	77	%		0.81	09/07/00	WAW	321-60-8	
Terphenyl-d14 (S)	64	%		0.81	09/07/00	WAW	1718-51-0	
Phenol-d6 (S)	67	%		0.81	09/07/00	WAW	13127-88-3	
2-Fluorophenol (S)	70	%		0.81	09/07/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	74	%		0.81	09/07/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774183 Date Collected: 08/25/00 Matrix: Soil
ıent Sample ID: B19R-12.5' Date Received: 08/25/00

·rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
·t Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	0.718	mg/kg	0.128	0.10	09/08/00	WOC	18540-29-9	
ganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	22.0	%		0.78	08/30/00	DCKI		
Semivolatiles								
C [illegible]hlorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
[illegible]-BHC	ND	ug/kg	2.5	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.3	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.2	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	72	%		0.78	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	55	%		0.78	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
:/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	410	0.98	09/07/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	410	0.98	09/07/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.98	09/07/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	410	0.98	09/07/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	410	0.98	09/07/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	410	0.98	09/07/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	410	0.98	09/07/00	WAW	83-32-9	
[illegible]zofuran	ND	ug/kg	410	0.98	09/07/00	WAW	132-64-9	
[illegible]initrotoluene	ND	ug/kg	410	0.98	09/07/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774183 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B19R-12.5' Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	410	0.98	09/07/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	0.98	09/07/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	410	0.98	09/07/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	410	0.98	09/07/00	WAW	85-01-8	
Anthracene	ND	ug/kg	410	0.98	09/07/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	410	0.98	09/07/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	410	0.98	09/07/00	WAW	206-44-0	
Pyrene	ND	ug/kg	410	0.98	09/07/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	410	0.98	09/07/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	410	0.98	09/07/00	WAW	56-55-3	
Chrysene	ND	ug/kg	410	0.98	09/07/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	410	0.98	09/07/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	410	0.98	09/07/00	WAW	108-39-4	
[illegible]ine	ND	ug/kg	410	0.98	09/07/00	WAW	110-86-1	
[illegible]benzene-d5 (S)	66	%		0.78	09/07/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	67	%		0.78	09/07/00	WAW	321-60-8	
Terphenyl-d14 (S)	60	%		0.78	09/07/00	WAW	1718-51-0	
Phenol-d6 (S)	74	%		0.78	09/07/00	WAW	13127-88-3	
2-Fluorophenol (S)	60	%		0.78	09/07/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	79	%		0.78	09/07/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603774209 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: WASTE SOIL Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
norganics Prep								
Semivolatile Organics, TCLP	Method: EPA 8270				Prep Method: EPA 1311			
Date Extracted					09/08/00			
etals								
RCRA Metals, ICP, TCLP Leach.	Method: EPA 6010				Prep Method: EPA 3010			
Arsenic	ND	ug/l	85	0.78	09/01/00	CAS	7440-38-2	
Barium	832	ug/l	4	0.78	09/01/00	CAS	7440-39-3	3
Cadmium	ND	ug/l	5	0.78	09/01/00	CAS	7440-43-9	
Chromium	ND	ug/l	7	0.78	09/01/00	CAS	7440-47-3	
[illegible]	ND	ug/l	50	0.78	09/01/00	CAS	7439-92-1	
Selenium	ND	ug/l	100	0.78	09/01/00	CAS	7782-49-2	
Silver	ND	ug/l	7	0.78	09/01/00	CAS	7440-22-4	
Date Digested					08/31/00			
Mercury, CVAAS, TCLP Leachate	Method: EPA 7470				Prep Method: EPA 7470			
Mercury	ND	ug/l	2	0.78	09/07/00	SYW	7439-97-6	
rganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	22.5	%		0.78	08/30/00	DCKI		
C Volatiles								
TPH Gas/BTEX	Method: EPA 8021/OA1				Prep Method: TPH GRO/BTEX			
Gasoline Range Hydrocarbons	9700	ug/kg	3200	0.50	08/30/00	JLG		
Benzene	ND	ug/kg	32	0.50	08/30/00	JLG	71-43-2	
Toluene	ND	ug/kg	32	0.50	08/30/00	JLG	108-88-3	
Ethylbenzene	ND	ug/kg	32	0.50	08/30/00	JLG	100-41-4	
Xylene (Total)	ND	ug/kg	84	0.50	08/30/00	JLG	1330-20-7	
a,a,a-Trifluorotoluene (S)	94	%		0.78	08/30/00	JLG	2164-17-2	
4-Bromofluorobenzene (S)	109	%		0.78	08/30/00	JLG	460-00-4	
C Semivolatiles								
[illegible]ides, TCLP Leachate	Method: EPA 8081A				Prep Method: EPA 3510			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ace Sample No: 603774209 Date Collected: 08/25/00 Matrix: Soil
lient Sample ID: WASTE SOIL Date Received: 08/25/00

arameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Chlordane	ND	mg/l	0.03	0.78	09/14/00	JLO	57-74-9	
Endrin	ND	mg/l	0.02	0.78	09/14/00	JLO	72-20-8	
Heptachlor	ND	mg/l	0.008	0.78	09/14/00	JLO	76-44-8	
Toxaphene	ND	mg/l	0.5	0.78	09/14/00	JLO	8001-35-2	
gamma-BHC (Lindane)	ND	mg/l	0.4	0.78	09/14/00	JLO	58-89-9	
Methoxychlor	ND	mg/l	10	0.78	09/14/00	JLO	72-43-5	
Heptachlor Epoxide	ND	mg/l	0.008	0.78	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	60	%		0.78	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	66	%		0.78	09/14/00	JLO	877-09-8	
Date Extracted					09/01/00			
PCBs in Soil by 8082	Method: EPA 8082				Prep Method: EPA 3550			
PCB-1016 (Arochlor 1016)	ND	ug/kg	43	1.00	09/06/00	JLO	12674-11-2	
PCB-1221 (Arochlor 1221)	ND	ug/kg	43	1.00	09/06/00	JLO	11104-28-2	
PCB-1232 (Arochlor 1232)	ND	ug/kg	43	1.00	09/06/00	JLO	11141-16-5	
PCB-1242 (Arochlor 1242)	ND	ug/kg	43	1.00	09/06/00	JLO	53469-21-9	
PCB-1248 (Arochlor 1248)	ND	ug/kg	43	1.00	09/06/00	JLO	12672-29-6	
PCB-1254 (Arochlor 1254)	ND	ug/kg	43	1.00	09/06/00	JLO	11097-69-1	
PCB-1260 (Arochlor 1260)	99	ug/kg	43	1.00	09/06/00	JLO	11096-82-5	
Decachlorobiphenyl (S)	64	%		0.78	09/06/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	49	%		0.78	09/06/00	JLO	877-09-8	
Date Extracted					09/05/00			
Herbicides, TCLP Leachate	Method: EPA 8150				Prep Method: EPA 8150			
2,4-D	ND	ug/l	20	0.78	09/12/00	JLO	94-75-7	
2,4,5-TP(Silvex)	ND	ug/l	7.5	0.78	09/12/00	JLO	93-72-1	
Dichlorophenyl Acetic Acid (S)	88	%		0.78	09/12/00	JLO		
Date Extracted					09/08/00			
GC/MS Volatiles								
Volatile Organics, TCLP Leach.	Method: EPA 8260				Prep Method: EPA 8260			
Vinyl Chloride	ND	ug/l	100	0.78	09/08/00	NLA	75-01-4	
1,1-Dichloroethene	ND	ug/l	50	0.78	09/08/00	NLA	75-35-4	
Chloroform	ND	ug/l	200	0.78	09/08/00	NLA	67-66-3	
1,2-Dichloroethane	ND	ug/l	50	0.78	09/08/00	NLA	107-06-2	
2-Butanone	ND	ug/l	1000	0.78	09/08/00	NLA	78-93-3	
Carbon Tetrachloride	ND	ug/l	50	0.78	09/08/00	NLA	56-23-5	
Trichloroethene	ND	ug/l	50	0.78	09/08/00	NLA	79-01-6	
Benzene	ND	ug/l	50	0.78	09/08/00	NLA	71-43-2	

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Fax: 913.599.1759

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ace Sample No: 603774209 Date Collected: 08/25/00 Matrix: Soil
lient Sample ID: WASTE SOIL Date Received: 08/25/00

arameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Tetrachloroethene	ND	ug/l	50	0.78	09/08/00	NLA	127-18-4	
Chlorobenzene	ND	ug/l	50	0.78	09/08/00	NLA	108-90-7	
1,2-Dichloroethane-d4 (S)	100	%		0.78	09/08/00	NLA	17060-07-0	
Toluene-d8 (S)	99	%		0.78	09/08/00	NLA	2037-26-5	
4-Bromofluorobenzene (S)	99	%		0.78	09/08/00	NLA	460-00-4	

C/MS Semivolatiles

Semivolatile Organics, TCLP	Method: EPA 8270				Prep Method: EPA 3510		
1,4-Dichlorobenzene	ND	ug/l	100	0.78	09/05/00	TGH	106-46-7
2-Methylphenol	ND	ug/l	100	0.78	09/05/00	TGH	95-48-7
3-Methylphenol	ND	ug/l	200	0.78	09/05/00	TGH	108-39-4
4-Methylphenol	ND	ug/l	100	0.78	09/05/00	TGH	106-44-5
[illegible]benzene	ND	ug/l	100	0.78	09/05/00	TGH	98-95-3
[illegible]chlorobutadiene	ND	ug/l	100	0.78	09/05/00	TGH	87-68-3
2,4,6-Trichlorophenol	ND	ug/l	100	0.78	09/05/00	TGH	88-06-2
2,4,5-Trichlorophenol	ND	ug/l	500	0.78	09/05/00	TGH	95-95-4
2,4-Dinitrotoluene	ND	ug/l	100	0.78	09/05/00	TGH	121-14-2
Hexachlorobenzene	ND	ug/l	100	0.78	09/05/00	TGH	118-74-1
Pentachlorophenol	ND	ug/l	500	0.78	09/05/00	TGH	87-86-5
Pyridine	ND	ug/l	100	0.78	09/05/00	TGH	110-86-1
Hexachloroethane	ND	ug/l	100	0.78	09/05/00	TGH	67-72-1
Nitrobenzene-d5 (S)	54	%		0.78	09/05/00	TGH	4165-60-0
2-Fluorobiphenyl (S)	64	%		0.78	09/05/00	TGH	321-60-8
Terphenyl-d14 (S)	68	%		0.78	09/05/00	TGH	1718-51-0
Phenol-d6 (S)	65	%		0.78	09/05/00	TGH	13127-88-3
2-Fluorophenol (S)	61	%		0.78	09/05/00	TGH	367-12-4
2,4,6-Tribromophenol (S)	65	%		0.78	09/05/00	TGH	118-79-6
Date Extracted					09/01/00		

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ce Sample No: 603776527 Date Collected: 08/25/00 Matrix: Soil
ient Sample ID: B17R-7.5 Date Received: 08/25/00

rameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
t Chemistry								
Chromium, Hexavalent, in Soil	Method: EPA 7196 Modified				Prep Method: EPA 7196 Modified			
Chromium, Hexavalent	1.02	mg/kg	0.129	0.10	09/08/00	WOC	18540-29-9	
ganics Prep								
Percent Moisture	Method:				Prep Method:			
Percent Moisture	22.2	%		0.78	09/01/00	DCKI		
Semivolatiles								
O[illegible]lorine Pesticides, GC	Method: EPA 8081A				Prep Method: EPA 3550			
[illegible]BHC	ND	ug/kg	2.5	1.00	09/14/00	JLO	319-85-7	
gamma-BHC (Lindane)	ND	ug/kg	1.7	1.00	09/14/00	JLO	58-89-9	
Heptachlor	ND	ug/kg	1.3	1.00	09/14/00	JLO	76-44-8	
Heptachlor Epoxide	ND	ug/kg	4.2	1.00	09/14/00	JLO	1024-57-3	
Decachlorobiphenyl (S)	83	%		0.78	09/14/00	JLO	2051-24-3	
Tetrachloro-meta-xylene (S)	65	%		0.78	09/14/00	JLO	877-09-8	
Date Extracted					09/07/00			
:/MS Semivolatiles								
Semivolatile Organics	Method: EPA 8270				Prep Method: EPA 3550 Sonication			
Phenol	ND	ug/kg	420	0.98	09/08/00	WAW	108-95-2	
1,4-Dichlorobenzene	ND	ug/kg	420	0.98	09/08/00	WAW	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	420	0.98	09/08/00	WAW	95-50-1	
2-Methylphenol	ND	ug/kg	420	0.98	09/08/00	WAW	95-48-7	
4-Methylphenol	ND	ug/kg	420	0.98	09/08/00	WAW	106-44-5	
Hexachloroethane	ND	ug/kg	420	0.98	09/08/00	WAW	67-72-1	
Nitrobenzene	ND	ug/kg	420	0.98	09/08/00	WAW	98-95-3	
2,4-Dimethylphenol	ND	ug/kg	420	0.98	09/08/00	WAW	105-67-9	
Benzoic Acid	ND	ug/kg	2000	0.98	09/08/00	WAW	65-85-0	
Naphthalene	ND	ug/kg	420	0.98	09/08/00	WAW	91-20-3	
Hexachlorobutadiene	ND	ug/kg	420	0.98	09/08/00	WAW	87-68-3	
2-Methylnaphthalene	ND	ug/kg	420	0.98	09/08/00	WAW	91-57-6	
Acenaphthene	ND	ug/kg	420	0.98	09/08/00	WAW	83-32-9	
D[illegible]nzofuran	ND	ug/kg	420	0.98	09/08/00	WAW	132-64-9	
[illegible]initrotoluene	ND	ug/kg	420	0.98	09/08/00	WAW	121-14-2	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

e Sample No: 603776527 Date Collected: 08/25/00 Matrix: Soil
ent Sample ID: B17R-7.5 Date Received: 08/25/00

ameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Fluorene	ND	ug/kg	420	0.98	09/08/00	WAW	86-73-7	
N-Nitrosodiphenylamine	ND	ug/kg	420	0.98	09/08/00	WAW	86-30-6	
Hexachlorobenzene	ND	ug/kg	420	0.98	09/08/00	WAW	118-74-1	
Phenanthrene	ND	ug/kg	420	0.98	09/08/00	WAW	85-01-8	
Anthracene	ND	ug/kg	420	0.98	09/08/00	WAW	120-12-7	
Di-n-butylphthalate	ND	ug/kg	420	0.98	09/08/00	WAW	84-74-2	
Fluoranthene	ND	ug/kg	420	0.98	09/08/00	WAW	206-44-0	
Pyrene	ND	ug/kg	420	0.98	09/08/00	WAW	129-00-0	
Butylbenzylphthalate	ND	ug/kg	420	0.98	09/08/00	WAW	85-68-7	
Benzo(a)anthracene	ND	ug/kg	420	0.98	09/08/00	WAW	56-55-3	
Chrysene	ND	ug/kg	420	0.98	09/08/00	WAW	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	420	0.98	09/08/00	WAW	117-81-7	
3-Methylphenol	ND	ug/kg	420	0.98	09/08/00	WAW	108-39-4	
[illegible]ine	ND	ug/kg	420	0.98	09/08/00	WAW	110-86-1	
[illegible]enzene-d5 (S)	69	%		0.78	09/08/00	WAW	4165-60-0	
2-Fluorobiphenyl (S)	68	%		0.78	09/08/00	WAW	321-60-8	
Terphenyl-d14 (S)	64	%		0.78	09/08/00	WAW	1718-51-0	
Phenol-d6 (S)	72	%		0.78	09/08/00	WAW	13127-88-3	
2-Fluorophenol (S)	66	%		0.78	09/08/00	WAW	367-12-4	
2,4,6-Tribromophenol (S)	72	%		0.78	09/08/00	WAW	118-79-6	
Date Extracted					09/06/00			

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ARAMETER FOOTNOTES

)	Not Detected
;	Not Calculable
RL	Pace Reporting Limit
S)	Surrogate
pp. DF	Applied Dilution Factor
1]	Detected but below the PRL; therefore, result is an estimated concentration (CLP J-Flag).
2]	Analyte is found in the associated blank as well as in the sample (CLP B-Flag).
3]	Analyte is found in the associated blank as well as in the sample (CLP B-Flag).

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QUALITY CONTROL DATA

effenbaugh Industries, Inc.
8181 W 53RD ST
HAWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ttn: Mr. RODNEY MANN
hone: 913-631-3300

C Batch ID: 89204
nalysis Method: EPA 8260
ssociated Pace Samples: 603774209

QC Batch Method: EPA 8260
Analysis Description: Volatile Organics, TCLP Leach.

ETHOD BLANK: 603799297
ssociated Pace Samples:
603774209

Parameter	Units	Method Blank Result	PRL	Footnotes
Vinyl Chloride	ug/l	ND	100	
1,1-Dichloroethene	ug/l	ND	50	
Chloroform	ug/l	ND	200	
1,2-Dichloroethane	ug/l	ND	50	
2-Butanone	ug/l	ND	1000	
Carbon Tetrachloride	ug/l	ND	50	
Trichloroethene	ug/l	ND	50	
Benzene	ug/l	ND	50	
Tetrachloroethene	ug/l	ND	50	
Chlorobenzene	ug/l	ND	50	
1,2-Dichloroethane-d4 (S)	%	95		
Toluene-d8 (S)	%	99		
4-Bromofluorobenzene (S)	%	96		

ATRIX SPIKE: 603755026

Parameter	Units	603745738	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
Vinyl Chloride	ug/l	0	500	783.0	157	
1,1-Dichloroethene	ug/l	0	500	447.0	89.4	
Chloroform	ug/l	0	500	389.0	77.8	
1,2-Dichloroethane	ug/l	0	500	394.0	78.8	
2-Butanone	ug/l	0	500	464.0	92.8	
Carbon Tetrachloride	ug/l	0	500	400.0	80.0	

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QUALITY CONTROL DATA

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

TRIX SPIKE: 603755026

rameter	Units	603745738	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
ichloroethene	ug/l	0	500	396.0	79.2	
nzene	ug/l	0	500	412.0	82.4	
trachloroethene	ug/l	0	500	348.0	69.6	
ılorobenzene	ug/l	0	500	371.0	74.2	
2-Dichloroethane-d4 (S)					93	
ıluene-d8 (S)					102	
Bromofluorobenzene (S)					88	

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QUALITY CONTROL DATA

ffenbaugh Industries, Inc.
181 W 53RD ST
AWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

tn: Mr. RODNEY MANN
one: 913-631-3300

. Batch ID: 89646
alysis Method:
sociated Pace Samples:

QC Batch Method:
Analysis Description: Percent Moisture

603774043	603774050	603774068	603774076	603774084
603774092	603774100	603774118	603774126	603774134
603774142	603774159	603774167	603774175	603774183
603774209				

MPLE DUPLICATE: 603776311

ar	Units	603774043	Dup. Result	RPD	Footnotes
ercent Moisture	%	18.20	18.50	1	

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QUALITY CONTROL DATA

ffenbaugh Industries, Inc.
181 W 53RD ST
AWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

tn: Mr. RODNEY MANN
one: 913-631-3300

Batch ID: 89723
alysis Method: EPA 8021/QA1
sociated Pace Samples: 603774209

QC Batch Method: TPH GRO/BTEX
Analysis Description: TPH Gas/BTEX

THOD BLANK: 603778861
sociated Pace Samples:
603774209

ara[illegible]	Units	Method Blank Result	PRL	Footnotes
asoline Range Hydrocarbons	ug/kg	ND	5000	
enzene	ug/kg	ND	50	
oluene	ug/kg	ND	50	
thylbenzene	ug/kg	ND	50	
ylene (Total)	ug/kg	ND	130	
.a.a-Trifluorotoluene (S)	%	94		
-Bromofluorobenzene (S)	%	102		

ATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603778887 603778895

arameter	Units	603769241	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
asoline Range Hydrocarbons	ug/kg	2610	49900	42690	80.3	41400	77.7	3	
enzene	ug/kg	0	499	474.6	95.1	480.7	96.2	1	
oluene	ug/kg	21.86	499	464.6	88.7	468.2	89.4	1	
thylbenzene	ug/kg	18.40	499	471.4	90.8	467.3	89.9	1	
ylene (Total)	ug/kg	22.56	1497	1463	96.2	1467	96.4	0	
.a.a-Trifluorotoluene (S)					96		98		
-Bromofluorobenzene (S)					109		109		

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QUALITY CONTROL DATA

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

BORATORY CONTROL SAMPLE: 603778879

rameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
soline Range Hydrocarbons	ug/kg	49880	45310	90.8	
nzene	ug/kg	498.8	473.2	94.9	
luene	ug/kg	498.8	466.7	93.6	
hylbenzene	ug/kg	498.8	464.0	93.0	
lene (Total)	ug/kg	1496	1420	94.9	
a,a-Trifluorotoluene (S)				97	
Bromofluorobenzene (S)				108	

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QUALITY CONTROL DATA

DATE: 09/19/00

:ffenbaugh Industries. Inc.
:181 W 53RD ST
:AWNEE. KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

itn: Mr. RODNEY MANN
ione: 913-631-3300

: Batch ID: 89810
nalysis Method:
ssociated Pace Samples: 603776527

QC Batch Method:
Analysis Description: Percent Moisture

AMPLE DUPLICATE: 603782798

arameter	Units	603775651	Dup. Result	RPD	Footnotes
ercent Moisture	%	16.70	18.10	8	

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QUALITY CONTROL DATA

:ffenbaugh Industries, Inc.
3181 W 53RD ST
AWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ttn: Mr. RODNEY MANN
hone: 913-631-3300

: Batch ID: 89819
nalysis Method: EPA 6010
ssociated Pace Samples: 603774209

QC Batch Method: EPA 3010
Analysis Description: RCRA Metals, ICP, TCLP Leach.

ETHOD BLANK: 603783317
ssociated Pace Samples.
603774209

ar	Units	Method Blank Result	PRL	Footnotes
rsenic	ug/l	ND	85	
arium	ug/l	10.6	4	1
admium	ug/l	ND	5	
hromium	ug/l	ND	7	
ead	ug/l	ND	50	
elenium	ug/l	ND	100	
ilver	ug/l	ND	7	

ATRIX SPIKE: 603783333

arameter	Units	603774209	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
rsenic	ug/l	15.30	1000	763.0	74.8	
arium	ug/l	832.0	1000	1520	68.8	2
admium	ug/l	4.020	100	82.10	78.1	
hromium	ug/l	4.680	1000	747.0	74.2	
ead	ug/l	10.10	1000	779.0	76.9	
elenium	ug/l	19.90	1000	822.0	80.2	
ilver	ug/l	2.970	100	6.200	3.20	2

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QUALITY CONTROL DATA

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ABORATORY CONTROL SAMPLE: 603783325

arameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
rsenic	ug/l	1000	821.0	82.1	
arium	ug/l	1000	825.0	82.5	
admium	ug/l	100	87.60	87.6	
hromium	ug/l	1000	842.0	84.2	
ead	ug/l	1000	864.0	86.4	
elenium	ug/l	1000	887.0	88.7	
ilver	ug/l	100	84.00	84.0	

AMPLE DUPLICATE: 603783341

arameter	Units	603774209	Dup. Result	RPD	Footnotes
rsenic	ug/l	ND	ND	NC	
ar	ug/l	832.0	846.0	2	
a	ug/l	ND	ND	NC	
hromium	ug/l	ND	7.210	NC	
ead	ug/l	ND	ND	NC	
elenium	ug/l	ND	ND	NC	
ilver	ug/l	ND	ND	NC	

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QUALITY CONTROL DATA

ffenbaugh Industries, Inc.
181 W 53RD ST
AWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

tn: Mr. RODNEY MANN
one: 913-631-3300

. Batch ID: 89859
alysis Method: EPA 8270
sociated Pace Samples: 603774209

QC Batch Method: EPA 3510
Analysis Description: Semivolatile Organics, TCLP

THOD BLANK: 603785692
ssociated Pace Samples:
603774209

aramete	Units	Method Blank Result	PRL	Footnotes
.4-Dichlorobenzene	ug/l	ND	100	
-Methylphenol	ug/l	ND	100	
-Methylphenol	ug/l	ND	200	
-Methylphenol	ug/l	ND	100	
itrobenzene	ug/l	ND	100	
exachlorobutadiene	ug/l	ND	100	
.4,6-Trichlorophenol	ug/l	ND	100	
.4,5-Trichlorophenol	ug/l	ND	500	
.4-Dinitrotoluene	ug/l	ND	100	
exachlorobenzene	ug/l	ND	100	
entachlorophenol	ug/l	ND	500	
yridine	ug/l	ND	100	
exachloroethane	ug/l	ND	100	
itrobenzene-d5 (S)	%	64		
-Fluorobiphenyl (S)	%	77		
erphenyl-d14 (S)	%	71		
henol-d6 (S)	%	74		
-Fluorophenol (S)	%	74		
.4,6-Tribromophenol (S)	%	72		

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QUALITY CONTROL DATA

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

TRIX SPIKE: 603785700

rameter	Units	603774209	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
4-Dichlorobenzene	ug/l	0	505	262.9	52.1	
lethylphenol	ug/l	0	505	306.1	60.6	
Methylphenol	ug/l	0	1010	617.4	61.1	
Methylphenol	ug/l	0	1010	617.4	61.1	
trobenzene	ug/l	0	505	314.7	62.3	
xachlorobutadiene	ug/l	0	505	262.4	52.0	
4,6-Trichlorophenol	ug/l	0	505	310.7	61.5	
4,5-Trichlorophenol	ug/l	0	1515	907.0	59.9	
4-Dinitrotoluene	ug/l	0	505	306.1	60.6	
xachlorobenzene	ug/l	0	505	354.9	70.3	
ntachlorophenol	ug/l	0	1515	1172	77.4	
ridine	ug/l	0	1010	338.5	33.5	
xachloroethane	ug/l	0	505	246.6	48.8	
trobenzene-d5 (S)					62	
F[illegible]phenyl (S)					71	
r[illegible]-d14 (S)					77	
enol-d6 (S)					68	
Fluorophenol (S)					62	
4,6-Tribromophenol (S)					76	

BORATORY CONTROL SAMPLE: 603785718

rameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
4-Dichlorobenzene	ug/l	505	214.1	42.4	
Methylphenol	ug/l	505	277.8	55.0	
Methylphenol	ug/l	1010	569.0	56.3	
Methylphenol	ug/l	1010	569.0	56.3	
trobenzene	ug/l	505	263.9	52.2	
xachlorobutadiene	ug/l	505	225.3	44.6	
4,6-Trichlorophenol	ug/l	505	280.0	55.4	
4,5-Trichlorophenol	ug/l	1515	834.3	55.1	
4-Dinitrotoluene	ug/l	505	281.9	55.8	
xachlorobenzene	ug/l	505	328.5	65.1	
ntachlorophenol	ug/l	1515	1056	69.7	
ridine	ug/l	1010	242.7	24.0	
xachloroethane	ug/l	505	197.6	39.1	
trobenzene-d5 (S)				51	
-Fl[illegible]biphenyl (S)				61	
[illegible]-d14 (S)				68	

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QUALITY CONTROL DATA

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

BORATORY CONTROL SAMPLE: 603785718

rameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
enol-d6 (S)				58	
Fluorophenol (S)				52	
4,6-Tribromophenol (S)				69	

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QUALITY CONTROL DATA

:ffenbaugh Industries Inc.
:181 W 53RD ST
:AWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ttn: Mr. RODNEY MANN
none: 913-631-3300

C Batch ID: 89909
nalysis Method: EPA 8081A
ssociated Pace Samples: 603774209

QC Batch Method: EPA 3510
Analysis Description: Pesticides, TCLP Leachate

ETHOD BLANK: 603787995
ssociated Pace Samples:
603774209

ar	Units	Method Blank Result	PRL	Footnotes
hlordane	mg/l	ND	0.03	
ndrin	mg/l	ND	0.02	
eptachlor	mg/l	ND	0.008	
oxaphene	mg/l	ND	0.5	
amma-BHC (Lindane)	mg/l	ND	0.4	
ethoxychlor	mg/l	ND	10	
eptachlor Epoxide	mg/l	ND	0.008	
ecachlorobiphenyl (S)	%	66		
etrachloro-meta-xylene (S)	%	45		

ATRIX SPIKE: 60378800

arameter	Units	603774209	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
ndrin	mg/l	0	0.0069	0.004472	64.4	
eptachlor	mg/l	0	0.0069	0.003586	51.6	
amma-BHC (Lindane)	mg/l	0	0.0069	0.003474	50.0	
ethoxychlor	mg/l	0.0005436	0.0069	0.004833	61.8	
eptachlor Epoxide	mg/l	0	0.0069	0.003793	54.6	
ecachlorobiphenyl (S)					52	
etrachloro-meta-xylene (S)					46	

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QUALITY CONTROL DATA

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ABORATORY CONTROL SAMPLE: 603788019

arameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
ıdrin	mg/l	0.0050	0.005697	114	
ɔptachlor	mg/l	0.0050	0.004447	88.9	
amma-BHC (Lindane)	mg/l	0.0050	0.004663	93.3	
ɔthoxychlor	mg/l	0.0050	0.005963	119	
ɔptachlor Epoxide	mg/l	0.0050	0.004812	96.2	
ɔcachlorobiphenyl (S)				101	
etrachloro-meta-xylene (S)				81	

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QUALITY CONTROL DATA

ffenbaugh Industries, Inc.
3181 W 53RD ST
AWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ttn: Mr. RODNEY MANN
hone: 913-631-3300

C Batch ID: 89988
nalysis Method: EPA 8082
ssociated Pace Samples: 603774209

QC Batch Method: EPA 3550
Analysis Description: PCBs in Soil by 8082

ETHOD BLANK: 603791575
ssociated Pace Samples:
603774209

ar	Units	Method Blank Result	PRL	Footnotes
CB-1016 (Arochlor 1016)	ug/kg	ND	33	
CB-1221 (Arochlor 1221)	ug/kg	ND	33	
CB-1232 (Arochlor 1232)	ug/kg	ND	33	
CB-1242 (Arochlor 1242)	ug/kg	110	33	
CB-1248 (Arochlor 1248)	ug/kg	ND	33	
CB-1254 (Arochlor 1254)	ug/kg	ND	33	
CB-1260 (Arochlor 1260)	ug/kg	ND	33	
ecachlorobiphenyl (S)	%	94		
etrachloro-meta-xylene (S)	%	82		

ATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603791583 603791591

arameter	Units	603769860	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
CB-1016 (Arochlor 1016)	ug/kg	0	333.2	164.4	49.4	146.2	43.9	12	
CB-1260 (Arochlor 1260)	ug/kg	0	333.2	240.4	72.1	234.9	70.5	2	
ecachlorobiphenyl (S)					70		65		
etrachloro-meta-xylene (S)					59		56		

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QUALITY CONTROL DATA

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

BORATORY CONTROL SAMPLE: 603791609

rameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
B-1016 (Arochlor 1016)	ug/kg	333.3	257.6	77.3	
B-1260 (Arochlor 1260)	ug/kg	333.3	319.6	95.9	
cachlorobiphenyl (S)				98	
trachloro-meta-xylene (S)				80	

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QUALITY CONTROL DATA

ffenbaugh Industries, Inc.
181 W 53RD ST
AWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

tn: Mr. RODNEY MANN
one: 913-631-3300

Batch ID: 90072
alysis Method: EPA 7470
ssociated Pace Samples: 603774209

QC Batch Method: EPA 7470
Analysis Description: Mercury, CVAAS, TCLP Leachate

THOD BLANK: 603794652
ssociated Pace Samples:
603774209

ar	Units	Method Blank Result	PRL	Footnotes
ercury	ug/l	ND	2	

ATRIX SPIKE: 603794660

arameter	Units	603767609	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
ercury	ug/l	0.01083	100	12.00	12.0	3

ABORATORY CONTROL SAMPLE: 603794686

arameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
ercury	ug/l	100	79.63	79.6	

AMPLE DUPLICATE: 603794678

arameter	Units	603767609	Dup. Result	RPD	Footnotes
ercury	ug/l	ND	ND	NC	

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QUALITY CONTROL DATA

:ffenbaugh Industries, Inc.
3181 W 53RD ST
IAWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ttn: Mr. RODNEY MANN
hone: 913-631-3300

C Batch ID: 90102
nalysis Method: EPA 8270
ssociated Pace Samples:

QC Batch Method: EPA 3550 Sonication
Analysis Description: Semivolatile Organics

603774043	603774050	603774068	603774076	603774084
603774092	603774100	603774118	603774126	603774134
603774142	603774159	603774167	603774175	603774183
603776527				

ETHOD BLANK: 603795576
ssociated Pace Samples:

603774043	603774050	603774068	603774076	603774084	603774092	603774100
603774118	603774126	603774134	603774142	603774159	603774167	603774175
603774183	603776527					

'arameter	Units	Method Blank Result	PRL	Footnotes
'henol	ug/kg	ND	330	
,4-Dichlorobenzene	ug/kg	ND	330	
,2-Dichlorobenzene	ug/kg	ND	330	
'-Methylphenol	ug/kg	ND	330	
:-Methylphenol	ug/kg	ND	330	
lexachloroethane	ug/kg	ND	330	
;itrobenzene	ug/kg	ND	330	
',4-Dimethylphenol	ug/kg	ND	330	
;enzoic Acid	ug/kg	ND	1600	
laphthalene	ug/kg	ND	330	
lexachlorobutadiene	ug/kg	ND	330	
'-Methylnaphthalene	ug/kg	ND	330	
:cenaphthene	ug/kg	ND	330	
;ibenzofuran	ug/kg	ND	330	
',4-Dinitrotoluene	ug/kg	ND	330	
'luorene	ug/kg	ND	330	
;-Nitrosodiphenylamine	ug/kg	ND	330	
lexachlorobenzene	ug/kg	ND	330	
'henanthrene	ug/kg	ND	330	
'n' [illegible]ne	ug/kg	ND	330	

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QUALITY CONTROL DATA

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

:THOD BLANK: 603795576
ssociated Pace Samples:

603774043 603774050 603774068 603774076 603774084 603774092 603774100
603774118 603774126 603774134 603774142 603774159 603774167 603774175
603774183 603776527

arameter	Units	Method Blank Result	PRL	Footnotes
ı-n-butylphthalate	ug/kg	62	330	4
luoranthene	ug/kg	ND	330	
yrene	ug/kg	ND	330	
utylbenzylphthalate	ug/kg	ND	330	
enzo(a)anthracene	ug/kg	ND	330	
hrysene	ug/kg	ND	330	
ıs(2-Ethylhexyl)phthalate	ug/kg	ND	330	
-Methylphenol	ug/kg	ND	330	
yridine	ug/kg	ND	330	
ıtr[illegible]zene-d5 (S)	%	70		
-F [illegible]iphenyl (S)	%	86		
erphenyl-d14 (S)	%	73		
henol-d6 (S)	%	69		
-Fluorophenol (S)	%	72		
.4,6-Tribromophenol (S)	%	80		

ATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603795584 603795592

arameter	Units	603774043	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
henol	ug/kg	0	3002	1565	52.2	1898	63.6	20	
.4-Dichlorobenzene	ug/kg	0	2001	1070	53.5	1233	62.0	15	
cenaphthene	ug/kg	0	2001	1069	53.4	1386	69.7	26	
.4-Dinitrotoluene	ug/kg	0	2001	1348	67.4	1512	76.0	12	
yrene	ug/kg	0	2001	1189	59.4	1350	67.9	13	
itrobenzene-d5 (S)					58		64		
-Fluorobiphenyl (S)					61		74		
erphenyl-d14 (S)					54		62		
henol-d6 (S)					59		66		
-Fluorophenol (S)					54		68		
.4,6-Tribromophenol (S)					64		78		

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QUALITY CONTROL DATA

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ABORATORY CONTROL SAMPLE: 603795600

'arameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
'henol	ug/kg	2500	1151	46.1	
.4-Dichlorobenzene	ug/kg	1667	792.8	47.6	
.cenaphthene	ug/kg	1667	931.7	55.9	
².4-Dinitrotoluene	ug/kg	1667	943.3	56.6	
'yrene	ug/kg	1667	978.2	58.7	
;itrobenzene-d5 (S)				49	
²-Fluorobiphenyl (S)				64	
lerphenyl-d14 (S)				52	
'henol-d6 (S)				52	
²-Fluorophenol (S)				50	
².4,6-Tribromopheno' (S)				62	

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QUALITY CONTROL DATA

ffenbaugh Industries, Inc.
181 W 53RD ST
AWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

tn: Mr. RODNEY MANN
one: 913-631-3300

Batch ID: 90130
alysis Method: EPA 8081A
sociated Pace Samples: 603774043 603774050 603774068 603774076 603774084 603774092 603774100 603774118 603774126 603774134 603774142 603774159 603774167 603774175 603774183 603776527

QC Batch Method: EPA 3550
Analysis Description: Organochlorine Pesticides, GC

THOD BLANK: 603796749
sociated Pace Samples: 603774043 603774050 603774068 603774076 603774084 603774092 603774100 603774118 603774126 603774134 603774142 603774159 603774167 603774175 603774183 603776527

rameter	Units	Method Blank Result	PRL	Footnotes
ta-BHC	ug/kg	ND	2	
mma-BHC (Lindane)	ug/kg	ND	1.3	
ptachlor	ug/kg	ND	0.99	
ptachlor Epoxide	ug/kg	ND	3.3	
cachlorobiphenyl (S)	%	78		
trachloro-meta-xylene (S)	%	69		

TRIX SPIKE & MATRIX SPIKE DUPLICATE: 603796756 603796764

arameter	Units	603774043	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
amma-BHC (Lindane)	ug/kg	0	20.38	15.36	75.4	17.05	83.6	10	
eptachlor	ug/kg	0	20.38	15.37	75.4	17.13	84.0	11	
ecachlorobiphenyl (S)					83		89		
etrachloro-meta-xylene (S)					64		77		

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QUALITY CONTROL DATA

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ABORATORY CONTROL SAMPLE: 603796772

arameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
eta-BHC	ug/kg	16.67	11.24	67.4	
amma-BHC (Lindane)	ug/kg	16.67	9.643	57.9	
eptachlor	ug/kg	16.67	10.01	60.0	
eptachlor Epoxide	ug/kg	16.67	10.37	62.2	
ecachlorobiphenyl (S)				63	
etrachloro-meta-xylene (S)				53	

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QUALITY CONTROL DATA

ffenbaugh Industries, Inc.
181 W 53RD ST
AWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

tn: Mr. RODNEY MANN
one: 913-631-3300

Batch ID: 90239
alysis Method: EPA 7196 Modified
sociated Pace Samples: 603774043 603774050 603774068 603774076 603774084 603774092 603774100 603774118 603774126 603774134 603774142 603774159 603774167 603774175 603774183 603776527

QC Batch Method: EPA 7196 Modified
Analysis Description: Chromium, Hexavalent, in Soil

THOD BLANK: 603801440
ssociated Pace Samples: 603774043 603774050 603774068 603774076 603774084 603774092 603774100 603774118 603774126 603774134 603774142 603774159 603774167 603774175 603774183 603776527

arameter	Units	Method Blank Result	PRL	Footnotes
ıromium, Hexavalent	mg/kg	ND	0.1	

ATRIX SPIKE: 603801457

arameter	Units	603774043	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
hromium, Hexavalent	mg/kg	0.3669	1.223	0.2446	-10.0	5

ABORATORY CONTROL SAMPLE: 603801473

arameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
hromium, Hexavalent	mg/kg	1.000	0.9600	96.0	

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QUALITY CONTROL DATA

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

MPLE DUPLICATE: 603801465

rameter	Units	603774043	Dup. Result	RPD	Footnotes
romium, Hexavalent	mg/kg	0.3670	0.2320	0	

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QUALITY CONTROL DATA

effenbaugh Industries, Inc.
8181 W 53RD ST
HAWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ttn: Mr. RODNEY MANN
hone: 913-631-3300

C Batch ID: 90252
nalysis Method: EPA 8152
ssociated Pace Samples: 603774209

QC Batch Method: EPA 8150
Analysis Description: Herbicides, TCLP Leachate

ETHOD BLANK: 603802083
ssociated Pace Samples:
603774209

Parameter	Units	Method Blank Result	PRL	Footnotes
2,4-D	ug/l	ND	20000	
2,4,5-TP(Silvex)	ug/l	ND	7500	
Dichlorophenyl Acetic Acid (S)	%	93		

ATRIX SPIKE: 603802091

Parameter	Units	603774209	Spike Conc.	Matrix Spike Result	Spike % Rec	Footnotes
2,4-D	ug/l	0	50	51.92	104	
2,4,5-TP(Silvex)	ug/l	0	5.000	5.291	106	
Dichlorophenyl Acetic Acid (S)					105	

ABORATORY CONTROL SAMPLE: 603802109

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
2,4-D	ug/l	50	50.40	101	
2,4,5-TP(Silvex)	ug/l	5.000	5.057	101	
Dichlorophenyl Acetic Acid (S)				101	

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Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

IALITY CONTROL DATA PARAMETER FOOTNOTES

nsistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

)	Not Detected
.	Not Calculable
:L	Pace Reporting Limit
'D	Relative Percent Difference
,)	Surrogate
]	Analyte is found in the associated blank as well as in the sample (CLP B-Flag).
']	The spike recovery was outside acceptance limits for the MS due to matrix interference. The LCS was within acceptance limits showing that the laboratory is in control and the data is acceptable.
;]	Matrix (MS) and or surrogate spike recovery (S) was affected by the sample matrix. Refer to the batch QC recoveries (Blank and LCS) to demonstrate that the analytical system was operating in control.
;]	Detected but below the PRL; therefore, result is an estimated concentration (CLP J-Flag).
,]	Spiked sample recovery is not within control limits.

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QUALITY CONTROL DATA
CROSS REFERENCE TABLE

effenbaugh Industries Inc.
3181 W 53RD ST
HAWNEE, KS 66203

Pace Project Number: 6044352
Client Project ID: ISCKC-RFI

ttn: Mr. RODNEY MANN
hone: 913-631-3300

Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603774209	WASTE SOIL	EPA 8260	89204		
603774043	B18R-.5'		89646		
603774050	B18R-2.5'		89646		
603774068	B17R-.5'		89646		
603774076	B17R-2.5'		89646		
603774084	B17R-5.0'		89646		
603774092	DUPLICATE		89646		
603774100	B19R-15.0		89646		
603774118	B19R-17.5'		89646		
603774126	B19R-20.0'		89646		
603774134	B19R-.5'		89646		
603774142	B19R-2.5'		89646		
603774159	B19R-5.0'		89646		
603774167	B19R-7.5'		89646		
603774175	B19R-10.0'		89646		
603774183	B19R-12.5'		89646		
603774209	WASTE SOIL		89646		
603774209	WASTE SOIL	TPH GRO/BTEX	89723	EPA 8021/OA1	89729
603776527	B17R-7.5		89810		
603774209	WASTE SOIL	EPA 3010	89819	EPA 6010	89880
603774209	WASTE SOIL	EPA 3510	89859	EPA 8270	90007
603774209	WASTE SOIL	EPA 3510	89909	EPA 8081A	90449
603774209	WASTE SOIL	EPA 3550	89988	EPA 8082	90107
603774209	WASTE SOIL	EPA 7470	90072		

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Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603774043	B18R-.5'	EPA 3550 Sonication	90102	EPA 8270	90188
603774050	B18R-2.5'	EPA 3550 Sonication	90102	EPA 8270	90188
603774068	B17R-.5'	EPA 3550 Sonication	90102	EPA 8270	90188
603774076	B17R-2.5'	EPA 3550 Sonication	90102	EPA 8270	90188
603774084	B17R-5.0'	EPA 3550 Sonication	90102	EPA 8270	90188
603774092	DUPLICATE	EPA 3550 Sonication	90102	EPA 8270	90188
603774100	B19R-15.0	EPA 3550 Sonication	90102	EPA 8270	90188
603774118	B19R-17.5'	EPA 3550 Sonication	90102	EPA 8270	90188
603774126	B19R-20.0'	EPA 3550 Sonication	90102	EPA 8270	90188
603774134	B19R-.5'	EPA 3550 Sonication	90102	EPA 8270	90188
603774142	B19R-2.5'	EPA 3550 Sonication	90102	EPA 8270	90188
603774159	B19R-5.0'	EPA 3550 Sonication	90102	EPA 8270	90188
603774167	B19R-7.5'	EPA 3550 Sonication	90102	EPA 8270	90188
603774175	B19R-10.0'	EPA 3550 Sonication	90102	EPA 8270	90188
603774183	B19R-12.5'	EPA 3550 Sonication	90102	EPA 8270	90188
603776527	B17R-7.5	EPA 3550 Sonication	90102	EPA 8270	90188
[illegible]74043	B18R-.5'	EPA 3550	90130	EPA 8081A	90450
[illegible]774050	B18R-2.5'	EPA 3550	90130	EPA 8081A	90450
603774068	B17R-.5'	EPA 3550	90130	EPA 8081A	90450
603774076	B17R-2.5'	EPA 3550	90130	EPA 8081A	90450
603774084	B17R-5.0'	EPA 3550	90130	EPA 8081A	90450
603774092	DUPLICATE	EPA 3550	90130	EPA 8081A	90450
603774100	B19R-15.0	EPA 3550	90130	EPA 8081A	90450
603774118	B19R-17.5'	EPA 3550	90130	EPA 8081A	90450
603774126	B19R-20.0'	EPA 3550	90130	EPA 8081A	90450
603774134	B19R-.5'	EPA 3550	90130	EPA 8081A	90450
603774142	B19R-2.5'	EPA 3550	90130	EPA 8081A	90450
603774159	B19R-5.0'	EPA 3550	90130	EPA 8081A	90450
603774167	B19R-7.5'	EPA 3550	90130	EPA 8081A	90450
603774175	B19R-10.0'	EPA 3550	90130	EPA 8081A	90450
603774183	B19R-12.5'	EPA 3550	90130	EPA 8081A	90450
603776527	B17R-7.5	EPA 3550	90130	EPA 8081A	90450
603774043	B18R-.5'	EPA 7196 Modified	90239		
603774050	B18R-2.5'	EPA 7196 Modified	90239		
603774068	B17R-.5'	EPA 7196 Modified	90239		
603774076	B17R-2.5'	EPA 7196 Modified	90239		
603774084	B17R-5.0'	EPA 7196 Modified	90239		
603774092	DUPLICATE	EPA 7196 Modified	90239		
603774100	B19R-15.0	EPA 7196 Modified	90239		
603774118	B19R-17.5'	EPA 7196 Modified	90239		
[illegible]774126	B19R-20.0'	EPA 7196 Modified	90239		

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DATE: 09/19/00
PAGE: 64

Pace Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
603774134	B19R-.5'	EPA 7196 Modified	90239		
603774142	B19R-2.5'	EPA 7196 Modified	90239		
603774159	B19R-5.0'	EPA 7196 Modified	90239		
603774167	B19R-7.5'	EPA 7196 Modified	90239		
603774175	B19R-10.0'	EPA 7196 Modified	90239		
603774183	B19R-12.5'	EPA 7196 Modified	90239		
603776527	B17R-7.5	EPA 7196 Modified	90239		
603774209	WASTE SOIL	EPA 8150	90252	EPA 8150	90461

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TABLE 3
SOIL CONCENTRATION TOTALS

VALUES ARE REPORTED IN ng/kg EXCEPT AS NOTED

FIELD ID DEPTH (ft) PASE LAB ID		EX1 SURFACE 2053725		EX2 SURFACE 2081270		EX3 SURFACE 2081288		EX4 SURFACE 2082724		EX5 SURFACE 2081296	
ISOMER	TEF *	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE
2,3,7,8-TCDF	0.100	0	0	0	0	0	0	0	0	0	0
2,3,7,8-TCDD	1.000	0	0	0	0	0	0	0	0	0.81	0.81
1,2,3,7,8-PECDF	0.050	0	0	0	0	0	0	0	0	0	0
2,3,4,7,8-PECDF	0.500	0	0	0	0	0	0	0	0	0	0
1,2,3,7,8-PECDD	0.500	0	0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,6,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
2,3,4,6,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,7,8,9-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HXCDD	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,6,7,8-HXCDD	0.100	0	0	0	0	2.3	0.23	0	0	0	0
1,2,3,7,8,9-HXCDD	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,4,6,7,8-HPCDF	0.010	8.7	0.087	0	0	5.8	0.058	0	0	0	0
1,2,3,4,7,8,9-HPCDF	0.010	0	0	0	0	0	0	0	0	0	0
1,2,3,4,6,7,8-HPCDD	0.010	60	0.6	0.91	0.0091	42	0.42	0	0	17	0.17
1,2,3,4,6,7,8,9-OCDF	0.001	29	0.029	0	0	33	0.033	0	0	16	0.016
1,2,3,4,6,7,8,9-OCDD	0.001	800	0.8	5.5	0.0055	500	0.5	3.7	0.0037	200	0.2
WEIGHTED TOTAL (ng/kg)			1.52E+00		1.46E-02		1.24E+00		3.70E-03		1.20E+00
WEIGHTED TOTAL (mg/kg)			1.52E-06		1.46E-08		1.24E-06		3.7E-09		1.2E-06

* The reported value for each isomer is multiplied by the Toxicity Equivalence Factor (TEF). The weighted total of all isomers detected in the sample are compared to the Risk-Based Concentration values listed for isomer 2,3,7,8-TCDD (dioxin). Industrial 3.8E-05 mg/kg, Residential 4.3E-06 mg/kg Shading indicates concentrations in excess of residential levels.

TABLE 3
SOIL CONCENTRATION TOTALS

VALUES ARE REPORTED IN ng/kg EXCEPT AS NOTED

FIELD ID DEPTH (ft) PACE LAB ID		EX6 BASE 5 FEET 2082732		EX6 SURFACE SURFACE 2081312		EX8 BASE 12 FEET 2081338		EX8MIDDLE 6 FEET 2081346		EX8 SURFACE SURFACE 2081320	
ISOMER	TEF *	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE
2,3,7,8-TCDF	0.100	0	0	1.9	0.19	0	0	0	0	0	0
2,3,7,8-TCDD	1.000	0	0	6.4	6.4	0	0	0	0	26	26
1,2,3,7,8-PECDF	0.050	0	0	0	0	0	0	0	0	0	0
2,3,4,7,8-PECDF	0.500	0	0	13	6.5	0	0	0	0	5.8	2.9
1,2,3,7,8-PECDD	0.500	0	0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,6,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
2,3,4,6,7,8-HXCDF	0.100	0	0	9.1	0.91	0	0	0	0	6.8	0.68
1,2,3,7,8,9-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HXCDD	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,6,7,8-HXCDD	0.100	0	0	12	1.2	0	0	0	0	15	1.5
1,2,3,7,8,9-HXCDD	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,4,6,7,8-HPCDF	0.010	0	0	34	0.34	0	0	0	0	35	0.35
1,2,3,4,7,8,9-HPCDF	0.010	0	0	0	0	0	0	0	0	0	0
1,2,3,4,6,7,8-HPCDD	0.010	15	0.15	140	1.4	0	0	1	0.01	170	1.7
1,2,3,4,6,7,8,9-OCDF	0.001	14	0.014	79	0.079	0	0	0	0	98	0.098
1,2,3,4,6,7,8,9-OCDD	0.001	340	0.34	2800	2.8	7	0.007	9.2	0.0092	2000	2
WEIGHTED TOTAL (ng/kg)			5.04E-01		1.98E+01		7.00E-03		1.92E-02		3.52E+01
WEIGHTED TOTAL (mg/kg)			5.04E-07		1.98E-05		7E-09		1.92E-08		3.52E-05

* The reported value for each isomer is multiplied by the Toxicity Equivalence Factor (TEF). The weighted total of all isomers detected in the sample are compared to the Risk-Based Concentration values listed for isomer 2,3,7,8-TCDD (dioxin). Industrial 3.8E-05 mg/kg, Residential 4.3E-06 mg/kg Shading indicates concentrations in excess of residential levels.

TABLE 3
SOIL CONCENTRATION TOTALS

VALUES ARE REPORTED IN ng/kg EXCEPT AS NOTED

FIELD ID DEPTH (ft) PACE LAB ID		EX9 12 FEET 2081353		EX10 12 FEET 2081361		EX12 BASE 12 2082757		EX12 MIDDLE 6 FEET 2082740		EX12 SURFACE SURFACE 2081379	
ISOMER	TEF *	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE
2,3,7,8-TCDF	0.100	0	0	0	0	0	0	0	0	0.82	0.082
2,3,7,8-TCDD	1.000	0	0	0	0	1.2	1.2	0	0	1.1	1.1
1,2,3,7,8-PECDF	0.050	0	0	0	0	0	0	0	0	0	0
2,3,4,7,8-PECDF	0.500	0	0	0	0	0	0	0	0	0	0
1,2,3,7,8-PECDD	0.500	0	0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HXCDF	0.100	2.7	0.27	0	0	0	0	0	0	0	0
1,2,3,6,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
2,3,4,6,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,7,8,9-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HXCDD	0.100	0	0	0	0	0	0	0	0	2.3	0.23
1,2,3,6,7,8-HXCDD	0.100	0	0	4	0.4	0	0	0	0	21	2.1
1,2,3,7,8,9-HXCDD	0.100	0	0	0	0	0	0	0	0	8.4	0.84
1,2,3,4,6,7,8-HPCDF	0.010	3.6	0.036	0	0	0	0	1.7	0.017	25	0.25
1,2,3,4,7,8,9-HPCDF	0.010	0	0	0	0	0	0	0	0	0	0
1,2,3,4,6,7,8-HPCDD	0.010	9.8	0.098	13	0.13	12	0.12	17	0.17	180	1.8
1,2,3,4,6,7,8,9-OCDF	0.001	0	0	7.7	0.0077	0	0	7.5	0.0075	74	0.074
1,2,3,4,6,7,8,9-OCDD	0.001	81	0.081	82	0.082	120	0.12	1800	1.8	2000	2
WEIGHTED TOTAL (ng/kg)			4.85E-01		6.20E-01		1.44E+00		1.99E+00		8.48E+00
WEIGHTED TOTAL (mg/kg)			4.85E-07		6.2E-07		1.44E-06		1.99E-06		8.48E-06

* The reported value for each isomer is multiplied by the Toxicity Equivalence Factor (TEF). The weighted total of all isomers detected in the sample are compared to the Risk-Based Concentration values listed for isomer 2,3,7,8-TCDD (dioxin). Industrial 3.8E-05 mg/kg, Residential 4.3E-06 mg/kg Shading indicates concentrations in excess of residential levels.

TABLE 3
SOIL CONCENTRATION TOTALS

VALUES ARE REPORTED IN ng/kg EXCEPT AS NOTED

FIELD ID DEPTH (ft) PACE LAB ID		EX13 BASE 12 FEET 2081395		EX13 MIDDLE 6 FEET 2081403		EX13 SURFACE SURFACE 2081387		EX14 BASE 12 FEET 2081429		EX14 MIDDLE 6 FEET 2082765	
ISOMER	TEF *	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE
2,3,7,8-TCDF	0.100	0	0	0	0	0	0	0	0	0	0
2,3,7,8-TCDD	1.000	0	0	0	0	0	0	0	0	0	0
1,2,3,7,8-PECDF	0.050	0	0	0	0	0	0	0	0	0	0
2,3,4,7,8-PECDF	0.500	0	0	0	0	0	0	0	0	0	0
1,2,3,7,8-PECDD	0.500	0	0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,6,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
2,3,4,6,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,7,8,9-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HXCDD	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,6,7,8-HXCDD	0.100	3.4	0.34	7.8	0.78	0	0	9.9	0.99	0	0
1,2,3,7,8,9-HXCDD	0.100	0	0	0	0	0	0	4	0.4	0	0
1,2,3,4,6,7,8-HPCDF	0.010	5.7	0.057	0	0	0	0	0	0	0	0
1,2,3,4,7,8,9-HPCDF	0.010	0	0	0	0	0	0	0	0	0	0
1,2,3,4,6,7,8-HPCDD	0.010	23	0.23	30	0.3	39	0.39	22	0.22	0	0
1,2,3,4,6,7,8,9-OCDF	0.001	14	0.014	0	0	27	0.027	0	0	0	0
1,2,3,4,6,7,8,9-OCDD	0.001	110	0.11	210	0.21	380	0.38	110	0.11	5	0.005
WEIGHTED TOTAL (ng/kg)			7.51E-01		1.29E+00		7.97E-01		1.72E+00		5.00E-03
WEIGHTED TOTAL (mg/kg)			7.51E-07		1.29E-06		7.97E-07		1.72E-06		5E-09

* The reported value for each isomer is multiplied by the Toxicity Equivalence Factor (TEF). The weighted total of all isomers detected in the sample are compared to the Risk-Based Concentration values listed for isomer 2,3,7,8-TCDD (dioxin). Industrial 3.8E-05 mg/kg, Residential 4.3E-06 mg/kg Shading indicates concentrations in excess of residential levels.

TABLE 3
SOIL CONCENTRATION TOTALS

VALUES ARE REPORTED IN ng/kg EXCEPT AS NOTED

FIELD ID DEPTH (ft) PACE LAB ID		EX14 SURFACE SURFACE 2081445		DUPLICATE 2081452		EX7 9 FEET 2145356		EX11 BASE 5 FEET 2145364		EX11 SURFACE SURFACE 2145372	
ISOMER	TEF *	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE	REPORTED VALUE	WEIGHTED VALUE
2,3,7,8-TCDF	0.100	0	0	0	0	0	0	0	0	0	0
2,3,7,8-TCDD	1.000	3.9	3.9	0	0	0	0	0	0	10	10
1,2,3,7,8-PECDF	0.050	0	0	0	0	0	0	0	0	0	0
2,3,4,7,8-PECDF	0.500	0	0	0	0	0	0	0	0	0	0
1,2,3,7,8-PECDD	0.500	0	0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,6,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
2,3,4,6,7,8-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,7,8,9-HXCDF	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HXCDD	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,6,7,8-HXCDD	0.100	0	0	9.2	0.92	0	0	0	0	0	0
1,2,3,7,8,9-HXCDD	0.100	0	0	0	0	0	0	0	0	0	0
1,2,3,4,6,7,8-HPCDF	0.010	8.5	0.085	0	0	0	0	0	0	62	0.62
1,2,3,4,7,8,9-HPCDF	0.010	0	0	0	0	0	0	0	0	0	0
1,2,3,4,6,7,8-HPCDD	0.010	43	0.43	16	0.16	0	0	0	0	300	3
1,2,3,4,6,7,8,9-OCDF	0.001	20	0.02	0	0	0	0	0	0	470	0.47
1,2,3,4,6,7,8,9-OCDD	0.001	470	0.47	78	0.078	95	0.095	25	0.025	3300	3.3
WEIGHTED TOTAL (ng/kg)			4.91E+00		1.16E+00		9.50E-02		2.50E-02		1.74E+01
WEIGHTED TOTAL (mg/kg)			4.91E-06		1.16E-06		9.5E-08		2.5E-08		1.74E-05

* The reported value for each isomer is multiplied by the Toxicity Equivalence Factor (TEF). The weighted total of all isomers detected in the sample are compared to the Risk-Based Concentration values listed for isomer 2,3,7,8-TCDD (dioxin). Industrial 3.8E-05 mg/kg, Residential 4.3E-06 mg/kg Shading indicates concentrations in excess of residential levels.

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DETERMINATION OF PCDD/PCDF LEVELS

Prepared for:
Deffenbaugh Industries
Attn: Mick Cossart
18181 West 53rd Street
Shawnee, KS 66217

Project: Chemical Analysis

Client Purchase Order Number: NA

REPORT OF LABORATORY ANALYSIS

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REPORT OF: CHEMICAL ANALYSES

PROJECT: **PCDD/PCDF ANALYSES**

DATE: August 2, 2000

ISSUED TO: Deffenbaugh Industries
Attn: Mr. Mick Cossairt
18181 West 53rd Street
Shawnee, KS 66217

REPORT NO: 00-1033084

INTRODUCTION

This report presents the results from the analyses performed on twenty-five samples which were submitted by a representative of Deffenbaugh Industries. The samples were analyzed for the presence or absence of polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs) using a modified version of USEPA Method 8290 as described below.

SAMPLE IDENTIFICATION

Client ID	Sample Type	Date Received	Pace ID
EX1	Solid	05/25/00	2053725
EX2	Solid	06/12/00	2081270
EX3	Solid	06/12/00	2081288
EX5	Solid	06/12/00	2081296
EX6 Surface	Solid	06/12/00	2081312
EX8 Surface	Solid	06/12/00	2081320
EX8 Base	Solid	06/12/00	2081338
EX8 Middle	Solid	06/12/00	2081346
EX9	Solid	06/12/00	2081353
EX10	Solid	06/12/00	2081361
EX12 Surface	Solid	06/12/00	2081379
EX13 Surface	Solid	06/12/00	2081387
EX13 Base	Solid	06/12/00	2081395
EX13 Middle	Solid	06/12/00	2081403
EX14 Base	Solid	06/12/00	2081429
EX14 Surface	Solid	06/12/00	2081445
Dup	Solid	06/12/00	2081452

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REPORT OF: CHEMICAL ANALYSES

SAMPLE IDENTIFICATION (Cont.)

Client ID	Sample Type	Date Received	Pace ID
EX4	Solid	06/13/00	2082724
EX6 Base	Solid	06/13/00	2082732
EX12 Middle	Solid	06/13/00	2082740
EX12 Base	Solid	06/13/00	2082757
EX14 Middle	Solid	06/13/00	2082765
EX7	Solid	07/14/00	2145356
EX11 Base	Solid	07/14/00	2145364
EX11 Surface	Solid	07/14/00	2145372

METHODOLOGY

Sample Extraction

A portion of each sample was spiked with $^{13}C_{12}$-labeled PCDD/PCDF internal standards (Table 1) and extracted with toluene in a Soxhlet extractor. The extract was quantitatively transferred to a Kuderna-Danish concentrator, concentrated, and solvent exchanged to hexane. The hexane extract was then spiked with 2,3,7,8-TCDD-$^{37}Cl_4$ enrichment efficiency standard (Table 1) and processed through the analyte enrichment procedures described below. Moisture content was determined by taking an aliquot of each solid sample to constant weight in an oven.

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PCDD/PCDF Analyte Enrichment

The extraction procedure often removes a variety of compounds, in addition to the PCDDs and PCDFs, from the sample matrix. Some of these compounds can directly interfere with the analyses while others can overload the capillary column causing degradation in chromatographic resolution or sensitivity. The analyte enrichment steps described below are used to remove interferences from the extracts.

Each extract was diluted to 100 mL with hexane, transferred to a separatory funnel, and washed with 1N sodium hydroxide, concentrated sulfuric acid, and aqueous sodium chloride (5% w/v) as needed. The hexane extract was quantitatively transferred to a liquid chromatography column containing alternating layers of silica gel, 40% concentrated sulfuric acid on silica gel, and 33% 1 N sodium hydroxide on silica gel. The column was eluted with 90 mL of hexane and the entire eluate was collected and concentrated, under ambient conditions, to a volume of 1 mL.

E[illegible]extract was then fractionated on a liquid chromatography column containing 4 g of activated a[illegible]ina. The column was eluted with 20 mL of hexane followed by 15 mL of 60% methylene chloride/hexane. The 60% methylene chloride/hexane fraction was concentrated to 1 mL under a stream of dry nitrogen and applied to the top of a chromatography column containing 1 g of 5% AX-21 activated carbon in silica gel. The column was eluted with two 2-mL portions of hexane, 2 mL of cyclohexane/methylene chloride (50:50 v/v) and cyclohexane/methanol/toluene (75:20:5 v/v) in the forward direction, and then with toluene in the reverse direction. The toluene fraction was collected, concentrated, spiked with recovery standards (1,2,3,4-TCDD-$^{13}C_{12}$ and 1,2,3,7,8,9-HxCDD-$^{13}C_{12}$) and taken to a final volume of 20 uL.

PCDD/PCDF Analyses

Each sample extract was analyzed for the presence of PCDDs and PCDFs using combined capillary column gas chromatography/high resolution mass spectrometry (HRGC/HRMS). The instrumentation consisted of a Hewlett Packard Model 5890 gas chromatograph interfaced to a VG Model 70SE high-resolution mass spectrometer. The capillary column was interfaced directly into the ion source of the mass spectrometer, thus providing the highest possible sensitivity while minimizing degradation of the chromatographic resolution.

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PCDD/PCDF Analyses (Cont.)

The mass spectrometer was operated in the electron impact ionization mode at a mass resolution of 10,000-11,000 (M/ΔM, 10 percent valley definition). This resolution is sufficient to resolve most interferences, such as PCBs, thus providing the highest level of confidence that the detected levels of PCDD/PCDF were not false positives resulting from interferences. Typical operating parameters for the HRGC/HRMS analyses are summarized in Table 2.

The data were acquired by selected-ion-recording (SIR) using groups of ion masses similar to those described in USEPA Method 8290. The five groups corresponded to the tetrachlorinated through octachlorinated congener classes. Each group contained two ion masses for the PCDDs, two ion masses for the PCDFs, the corresponding ion masses from the two isotopically labeled internal standards, and the ion mass characteristic of the polychlorinated diphenylether (PCDE) which, if present, could cause false responses in the dibenzofuran channels.

Each group of ion masses also contained a lock mass which was used by the data system to automatically correct the mass focus of the instrument. The data system determined the centroid of the lock mass during each data acquisition cycle and corrected the mass focus of the analyte and internal standard ion masses to assure that the centers of the mass peaks were being monitored.

The criteria used to judge positive responses for a PCDD/PCDF isomer included:

* Simultaneous response at both ion masses of the PCDD or PCDF
* Signal-to-noise ratio equal to or greater than 2.5:1.0 for both ion masses
* Chlorine isotope ratio within 15% of the theoretical value
* Chromatographic retention time within +/- 2 seconds of the expected retention time
* Chromatographic retention times within elution windows determined from analyses of standard mixtures
* Absence of simultaneous response in the PCDF and PCDPE ion traces

A list of the exact ion masses monitored for the determination of PCDD/PCDF isomers and the PCDE interferences is presented in Table 3. Also included are the theoretical chlorine isotope ratios for the ten congener classes.

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CDD/PCDF Quantification and Calculations

he PCDD/PCDF isomers were quantified by comparison of their responses to the responses of the abeled internal standards. Relative response factors were calculated from analyses of standard nixtures containing representatives of each of the PCDD/PCDF congener classes at five oncentration levels, and each of the internal standards at one concentration level, as shown in able 4. The PCDD/PCDF response factors were calculated by comparing the sum of the esponses from the two ion masses monitored for each chlorine congener class to the sum of the esponses from the two ion masses of the corresponding isotopically labeled internal standard. The ormula for the response factor calculation is:

$$Rf = \frac{An \times Qis}{Ais \times Qn}$$

wh

Rf = Response factor
An = Sum of integrated areas for native isomer
Qis = Quantity of labeled internal standard
Ais = Sum of integrated areas for labeled internal standard
Qn = Quantity of native isomer

The levels of PCDD/PCDF in each sample were quantified using the following equation:

$$C = \frac{An \times Qis}{Ais \times W \times Rf}$$

where:

C = Concentration of target isomer or congener class
An = Sum of integrated areas for the target isomer or congener class
Qis = Quantity of labeled internal standard added to the sample
Ais = Sum of integrated areas for the labeled internal standard
W = Sample amount
Rf = Response factor

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PCDD/PCDF Quantification and Calculations (Cont.)

Each pair of ion mass peaks in the selected-ion-current chromatograms was evaluated manually to determine if it met the criteria for a PCDD or PCDF isomer. Areas of all peaks exhibiting correct ion ratios, having retention times within the correct windows, and having areas corresponding to concentrations in the range covered by the initial calibration were then summed for calculations of total congener concentrations. The toxic equivalence of each sample was calculated using the factors listed in Table 5.

A limit of detection (LOD) based on producing a signal that is 2.5 times the noise level, was calculated for each undetected 2,3,7,8-substituted isomer of any tetra through octa chlorinated congener class. The noise heights used to calculate the detection limits were measured at the retention time of the specific isomer. The formula used for calculating the LOD is:

$$LOD = \frac{Hn \times Qis \times 2.5}{His \times W \times Rf}$$

where:

LOD = Single isomer limit of detection
Hn = Sum of noise heights at native isomer retention time
Qis = Quantity of labeled internal standard
His = Sum of peak heights for labeled internal standard
W = Sample amount
Rf = Response factor

The recovery of the 2,3,7,8-TCDD-$^{37}Cl_4$ enrichment efficiency standard and each $^{13}C_{12}$-labeled internal standard, relative to either 1,2,3,4-TCDD-$^{13}C_{12}$ or 1,2,3,7,8,9-HxCDD-$^{13}C_{12}$, was calculated using the following equation:

$$\%R = \frac{Ais \times Qrs \times 100\%}{Rfr \times Ars \times Qis}$$

where:

%R = Percent recovery of labeled internal standard
Ais = Sum of integrated areas of labeled internal standard
Qrs = Quantity of recovery standard
Ars = Sum of integrated areas of recovery standard
Rf[illegible] = Response factor of the specific labeled internal standard relative to the recovery standard
[illegible] = Quantity of the labeled internal standard congener added to the sample

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)uality Control for PCDD/PCDF Analyses

'he performance of the sample processing steps and the instrumentation are monitored on a outine basis. The procedures and criteria are summarized below.

)ne method blank and one laboratory spike sample are typically prepared with each ten samples of ɜny given matrix. Recoveries of the native PCDD/PCDF analytes in the laboratory spike samples generally range from 70 to 130%. Recoveries of selected analytes outside this range do not nvalidate the data but provide information, which is used by the laboratory to monitor recovery trends and to assure optimization of the method.

Internal standards are spiked into each sample prior to extraction in order to monitor the level of recovery, which is achieved for each individual sample. Acceptable recoveries range from 40 to 135 percent for the internal standards unless a deviation is due to variation in instrument response as a result of analytical interferences.

T. esolution of the mass spectrometer is verified prior to each analysis to be 10,000 or greater. Hardcopies of the reference peaks are printed at the beginning and end of each analysis day. The resolving power of the DB-5MS chromatographic column is checked daily by analyzing a standard solution containing 2,3,7,8-TCDD and the adjacent TCDD isomers. The DB-225 column resolution is checked daily by analyzing a standard solution containing 2,3,7,8-TCDF and the adjacent TCDF isomers. Acceptable performance is achieved when 2,3,7,8-TCDD or 2,3,7,8-TCDF is resolved from the adjacent isomers by a valley of 25% or less. The group times for the selected-ion-monitoring data acquisitions are also checked daily by analyzing the column performance mix which has been modified to contain the first and last eluting isomers of each congener class. In this way one is assured of collecting data representative of the total PCDD/PCDF content and that the 2,3,7,8-substituted isomers are suitably resolved.

Initial calibrations are generated by analyzing standard solutions (see Table 4) containing target native and labeled PCDD/PCDF compounds. Response factors are calculated and averaged for each compound. These averages are used for quantification and for comparison to the daily continuing calibration. The relative standard deviation for each native compound must be 20% or less (30% or less for the labeled compounds) as specified in Method 8290. A continuing calibration standard is analyzed at the beginning and end of each 12-hour shift on days when initial calibrations are not performed. The initial calibration is considered to be valid when the response factors from the continuing calibration analysis fall to within the ranges specified in Method 8290.

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RESULTS

The results from the analyses are presented in the following:

Appendix A - Documentation
Appendix B - PCDD/PCDF Analysis Results

DISCUSSION

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts generally ranged from 40-131% and indicate a level of efficiency through the extraction and enrichment steps that is considered typical for this matrix. Slightly lower recoveries were obtained for several internal standards, however, since the quantifications of the native 2,3,7,8-substituted isomers were based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained. It should be noted that sample EX-1 required re-extraction. This re-extraction was performed beyond the recommended hold time for method 8[illegible].

Several samples were found to contain polychlorinated diphenylethers (PCDEs) and other compounds, which interfere with the determination of co-eluting PCDD and PCDF isomers. Any responses in the PCDF ion traces with corresponding responses in the PCDE ion traces are not included in the reported PCDF concentrations. Any affected 2,3,7,8-substituted isomers are flagged "E" or "I" on the data summary sheets.

Laboratory method blanks were prepared and analyzed with each sample batch as part of our routine quality control procedures. The results, found at the beginning of Appendix B, show the blanks to contain selected PCDDs and PCDFs isomers. Several samples contained these isomers at levels similar to those seen in the blanks and are flagged "B" on the data summary sheets. In general, levels less than ten times the background are not considered statistically different from the background. This indicates that the sample preparation procedures did not significantly impact the results of the field sample determinations.

Laboratory and matrix spike samples were also prepared with the sample batch using clean sand or sample material that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 78-122% with relative percent differences of 1.9-16.3%. This indicates high degrees of accuracy and precision for these determinations. It should be noted that only 50% of the normal internal standard amount was added to spike 072000. This was accounted for in the calculation and yielded acceptable analyte recoveries.

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REPORT OF: CHEMICAL ANALYSES

PROJECT: **PCDD/PCDF ANALYSES** **DATE:** August 2, 2000

PAGE: 9 **REPORT NO:** 00-1033084

REMARKS

The sample extracts will be retained for a period of 30 days from the date of this report and then discarded unless other arrangements are made. The raw mass spectral data will be archived on magnetic tape for a period of not less than one year. Questions regarding the data contained in this report may be directed to the authors at the numbers provided below.

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TABLE 1. Spike Levels of PCDD/PCDF Standards

Internal Standards	Spike Level (ng)
2,3,7,8-TCDF-$^{13}C_{12}$	2.0
2,3,7,8-TCDD-$^{13}C_{12}$	2.0
1,2,3,7,8-PeCDF-$^{13}C_{12}$	2.0
2,3,4,7,8-PeCDF-$^{13}C_{12}$	2.0
1,2,3,7,8-PeCDD-$^{13}C_{12}$	2.0
1,2,3,4,7,8-HxCDF-$^{13}C_{12}$	2.0
1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	2.0
1,2,3,7,8,9-HxCDF-$^{13}C_{12}$	2.0
2,3,4,6,7,8-HxCDF-$^{13}C_{12}$	2.0
1,2,3,4,7,8-HxCDD-$^{13}C_{12}$	2.0
1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	2.0
1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	2.0
1,2,3,4,7,8,9-HpCDF-$^{13}C_{12}$	2.0
1,2,3,4,6,7,8-HpCDD-$^{13}C_{12}$	2.0
OCDD-$^{13}C_{12}$	4.0
Recovery Standards	
1,2,3,4-TCDD-$^{13}C_{12}$	2.0
1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	2.0
Enrichment Efficiency Standard	
2,3,7,8-TCDD-$^{37}Cl_4$	0.2

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TABLE 2. High Resolution PCDD/PCDF Analyses HRGC/HRMS Operating Parameters

Mass Resolution	10,000-11,000 (M/ΔM, 10% valley)
Electron Energy	32 electron volts
Accelerating Voltage	8,000 volts
Source Temperature	275°C
Preamplifier Gain	10^{-6} amp/volt
Multiplier Gain	~10^{5}
Chromatographic Column	60 M DB-5MS
Transfer Line Temperature	260°C
Injection Mode	Splitless
Carrier Gas	Helium
Carrier Flow Velocity	~30 cm/sec

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TABLE 3. Exact Ion Masses Monitored for the Determination of PCDDs, PCDFs, and PCDEs

Ratio Compound	Accurate Mass Mass 1	Mass 2	Theoretical Mass 1/Mass 2
Tetra-CDDs	319.8965	321.8936	0.77
Tetra-CDFs	303.9016	305.8987	0.77
Hexa-CDPEs	375.8364		
Penta-CDDs	355.8546	357.8517	1.54
Penta-CDFs	339.8597	341.8567	1.54
Hepta-CDPEs	409.7974		
Hexa-CDDs	389.8156	391.8127	1.23
Hexa-CDFs	373.8207	375.8178	1.23
Octa-CDPEs	445.7555		
Hepta-CDDs	423.7766	425.7737	1.03
Hepta-CDFs	407.7817	409.7788	1.03
Nona-CDPEs	479.7165		
Octa-CDD	457.7377	459.7347	0.88
Octa-CDF	441.7428	443.7398	0.88
Deca-CDPE	513.6775		

CDDs = Chlorinated Dibenzo-p-dioxins
CDFs = Chlorinated Dibenzofurans
CDPEs = Chlorinated Diphenylethers

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TABLE 4. High Resolution Calibration Solutions

	Concentration (pg/uL)				
Native CDDs/CDFs	**CS1**	**CS2**	**CS3**	**CS4**	**CS5**
2,3,7,8-TCDD	0.5	2	10	40	200
2,3,7,8 TCDF	0.5	2	10	40	200
1,2,3,7,8-PeCDD	2.5	10	50	200	1000
1,2,3,7,8-PeCDF	2.5	10	50	200	1000
2,3,4,7,8-PeCDF	2.5	10	50	200	1000
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000
OCDD	5.0	20	100	400	2000
OCDF	5.0	20	100	400	2000
Internal Standards					
2,3,7,8-TCDD-$^{13}C_{12}$	100	100	100	100	100
2,3,7,8-TCDF-$^{13}C_{12}$	100	100	100	100	100
1,2,3,7,8-PeCDD-$^{13}C_{12}$	100	100	100	100	100
1,2,3,7,8-PeCDF-$^{13}C_{12}$	100	100	100	100	100
2,3,4,7,8-PeCDF-$^{13}C_{12}$	100	100	100	100	100
1,2,3,4,7,8-HxCDD-$^{13}C_{12}$	100	100	100	100	100
1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	100	100	100	100	100
1,2,3,4,7,8-HxCDF-$^{13}C_{12}$	100	100	100	100	100
1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	100	100	100	100	100
1,2,3,7,8,9-HxCDF-$^{13}C_{12}$	100	100	100	100	100
2,3,4,6,7,8-HxCDF-$^{13}C_{12}$	100	100	100	100	100
1,2,3,4,6,7,8-HpCDD-$^{13}C_{12}$	100	100	100	100	100
1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	100	100	100	100	100
1,2,3,4,7,8,9-HpCDF-$^{13}C_{12}$	100	100	100	100	100
OCDD-$^{13}C_{12}$	200	200	200	200	200
Recovery Standards					
1,2,3,4-TCDD-$^{13}C_{12}$	100	100	100	100	100
1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	100	100	100	100	100
Enrichment Efficiency Standard					
2,3,7,8-TCDD-$^{37}C1_4$	0.5	2	10	40	200

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TABLE 5. 2,3,7,8-TCDD Equivalency Factors (TEFs) for the Polychlorinated Dibenzo-p-dioxins and Dibenzofurans

Number	Compound(s)	TEF
1	2,3,7,8-TCDD	1.00
2	1,2,3,7,8-PeCDD	0.50
3	1,2,3,6,7,8-HxCDD	0.1
4	1,2,3,7,8,9-HxCDD	0.1
5	1,2,3,4,7,8-HxCDD	0.1
6	1,2,3,4,6,7,8-HpCDD	0.01
7	OCDD	0.001
8	* Total - TCDD	0.0
9	* Total - PeCDD	0.0
10	* Total - HxCDD	0.0
11	* Total - HpCDD	0.0
12	2,3,7,8-TCDF	0.10
13	1,2,3,7,8-PeCDF	0.05
[illegible]	2,3,4,7,8-PeCDF	0.5
[illegible]	1,2,3,6,7,8-HxCDF	0.1
8	1,2,3,7,8,9-HxCDF	0.1
17	1,2,3,4,7,8-HxCDF	0.1
18	2,3,4,6,7,8-HxCDF	0.1
19	1,2,3,4,6,7,8-HpCDF	0.01
20	1,2,3,4,7,8,9-HpCDF	0.01
21	OCDF	0.001
22	* Total - TCDF	0.0
23	* Total - PeCDF	0.0
24	* Total - HxCDF	0.0
25	* Total - HpCDF	0.0

*Excluding the 2,3,7,8-substituted congeners.

Reference: 1989 ITEFs

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Appendix A

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Quality

Analytical Services

1633 S. Marsh * Box 266426 * Kansas City, MO. * (816) 254-5257

1033084

CHAIN-OF-CUSTODY RECORD and Analytical Requests

Client DEFFENBAUGH

Address ~~15~~ P.O. BOX 3220

SHAWNEE, KS 66203

Phone 913 631-3300 Fax

Report To: MICK COSSAIRT

Bill To: RODNEY MANN

P.O.# / Billing Reference

Project Name / No. ISC-KC : RFI

QAS Client No.

QAS Project Manager

QAS Project No.

* Requested Due Date: NTA

Sampled By (PRINT): MICK COSSAIRT

Sampler Signature: Mick Cossairt Date: 5/24/00

ITEM NO	SAMPLE DESCRIPTION	DATE & TIME OF COLLECT	MATRIX	QAS NO.	NO. OF CONTAINERS / CONTAINER TYPE: UNPRES.	H_2SO_4	HNO_3	VOA	NaOH	ANALYSES REQUESTED (BE SPECIFIC): DIOXIN 8290	REMARKS
1.	EX1	5/24/00 09:15	SOIL		1					X	2053725
2.											
3.											
4.											
5.											
6.											

COOLER NOS	BAILERS	SHIPMENT METHOD OUT/DATE	IN/DATE	COC NUMBER	RELINQUISHED BY/AFFILIATION	ACCEPTED BY AFFILIATION	DATE	TIME
					Rodney D. Mann		5/25/00	1128

Additional Comments:

PART 1 - ORIGINAL
PART 2 - TRANSFER
PART 3 - CUSTOMER

SEE REVERSE SIDE FOR INSTRUCTIONS

T-17

/ Pace Analytical

525987

Page: 1 of 2

Required Client Information: Section A

Company: PACE DEFFENBAUGH
Address: 18181 W. 53rd
SHAWNEE, KS 66217
Phone: 913 631-3300 Fax: 631-3996

Required Client Information: Section B

Report To: MICK COSSAIRT
Invoice To: RODNEY MANN
P.O.:
Project Name: ISC, KC - RFI
Project Number:

Client Information (Check quote/contract):
Requested Due Date:
*TAT: NORMAL

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client: Section C

Quote Reference:
Project Manager:
Project #: 1037617
Profile #:
Requested Analysis: DIOXIN

Section D Required Client Information:

Valid Matrix Codes:

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID (One character per box. (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE)	MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh:mm a/p	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	DIOXIN	Remarks / Lab ID
1	EX2	SL	6/9/00	13:35	1	X						X	2081270
2	EX3			13:45									2081288
3	EX5			13:50									2081296
4	EX6 SURFACE			13:55									2081312
5	EX8 SURFACE			14:45									2081320
6	EX8 BASE			14:25									2081338
7	EX8 MIDDLE			14:35									2081346
8	EX9			14:00									2081353
9	EX10			14:05									2081361
10	EX12 SURFACE			14:50									2081379
11	EX13 SURFACE			15:00									2081387
12	EX13 BASE			14:30									2081395

Sample Condition		Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:	20								
Received on ICE:	Y / N	- Warm blue ice							
Sealed Cooler:	Y / N								
Samples Intact:	Y / N								

Additional Comments:

SENT TO PACE MN

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: MICK COSSAIRT
SIGNATURE of SAMPLER: Mick Cossairt
DATE Signed: (MM / DD / YY) 6-9-00

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Pace Analytical

525988

Page: 2 of 2

Required Client Information: Section A

Company: DEFFENBAUGH
Address: 18181 W. 53rd
SHANNEE, KS 66217
Phone: 913 631 3300 Fax: 631 3996

Required Client Information: Section B

Report To: MICK COSSAIRT
Invoice To: RODNEY MANN
P.O.:
Project Name: TSC, KC - RFI
Project Number:

Client Information (Check quote/contract):
Requested Due Date: *TAT: NORMAL

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Hush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client **Section C**

Quote Reference:
Project Manager:
Project #: 1033617
Profile #:
Requested Analysis: DIOXIN

Section D Required Client Information:

SAMPLE ID
One character per box.
(A-Z, 0-9 / .-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes ◄

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	DIOXIN	Remarks / Lab ID
1	EX13 MIDDLE	SL	6/9/00	14:20	1	X						X	2081403
2	EX14 BASE	↓	↓	14:10	↓	↓							2081429
3	EX14 SURFACE	↓	↓	14:55	↓	↓							2081445
4	DUP	↓	↓	15:05	↓	↓							2081452
5													
6													
7													
8													
9													
10													
11													
12													

Sample Condition		Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:	20								
Received on ICE:	Y / N							6/12/00	1110
Sealed Cooler:	Y / N								
Samples Intact:	Y / N								

Additional Comments:

SENT TO PACE, MN

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: MICK COSSAIRT
SIGNATURE of SAMPLER: Mick Cossairt
DATE Signed: (MM / DD / YY) 6-9-00

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537365

Page: 1 of 1

Required Client Information: Section A

Company: DEFFenbaugh
Address: 18181 W. 53rd ST
Shawnee, KS 66217
Phone: 631-3300 Fax: 631 3996

Required Client Information: Section B

Report To: MICK COSSART
Invoice To: RODNEY MANN
P.O.
Project Name: FSC-KC RFI
Project Number:

Client Information (Check quote/contract):
Requested Due Date:
*TAT: NORMAL

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client: Section C

Quote Reference:
Project Manager:
Project #: 1033641
Profile #:
Requested Analysis: DIOXIN

Section D Required Client Information:

SAMPLE ID
One character per box.
(A-Z, 0-9 / .-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh: mm a/p	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	DIOXIN	Remarks / Lab ID
1	EX4	SL	6/9/00	11:00	1	X						X	2082724
2	EX6 BASE			11:15	1	X						X	2082732
3	EX12 MIDDLE			11:25	1	X						X	2082740
4	EX12 BASE			11:35	1	X						X	2082757
5	EX14 MIDDLE			11:45	1	X						X	2082765
6													
7													
8													
9													
10													
11													
12													

Sample Condition		Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:	19			Mick Cossart	6/12		[signature]	6/12	1120
Received on ICE:	Y / (N)	- Bag of water							
Sealed Cooler:	Y / (N)								
Samples Intact:	(Y) / N								

Additional Comments:

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: MICK COSSART
SIGNATURE of SAMPLER: Mick Cossart
DATE Signed: (MM / DD / YY) 6-12-00

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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

537353

Page: 1 of 1

Section A — Required Client Information:

Company: DEFFENBAUGH
Address: P.O. BOX 3220
SHAWNEE, KS 66203
Phone: 913 631 3300 Fax: 631-3996

Section B — Required Client Information:

Report To: MICK COSSAIRT
Invoice To: RODNEY MANN
P.O.:
Project Name: TSC - KC RFI
Project Number:

Client Information (Check quote/contract):
Requested Due Date: *TAT: NORMAL

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

Section C — To Be Completed by Pace Analytical and Client

Quote Reference:
Project Manager:
Project #: 10 34661
Profile #: 8828

Section D — Required Client Information:

SAMPLE ID
One character per box.
(A-Z, 0-9 / .-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes:

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

Requested Analysis: DIOXIN 8290 T-O

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh: mm a/p)	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	DIOXIN 8290 T-O	Remarks / Lab ID
1	EX7	SL	7/13/00	11:00	1	X						X	214/5356
2	EX11 BASE	SL	7/13/00	11:30	1	X						X	364
3	EX11 SURFACE	SL	7/13/00	11:15	1	X						X	372
4													
5													
6													
7													
8													
9													
10													
11													
12													

Sample Condition		Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:	2			Rodney P. Mann	7/14/00	16:10		7/14/00	1445
Received on ICE:	Y / N								
Sealed Cooler:	Y / N								
Samples Intact:	Y / N								

Additional Comments:

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: MICK COSSAIRT
SIGNATURE of SAMPLER: Mick Cossairt
DATE Signed: (MM / DD / YY) 7-13-00

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Pace Analytical Services, Inc. Form COC01 02/00

ORIGINAL

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Appendix B

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Method 8290 Blank Analysis Results

Client - QAS

Lab Sample ID	BLANK-061900	Matrix	SOLID
Filename	V00622E	Dilution	NA
Total Amount Extracted	10.18 g	Extracted	06/19/2000
ICAL Date	NA	Analyzed	06/22/2000 12:47
CCal Filename(s)	V00622C & V00622K	Injected By	DGP

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.33	2,3,7,8-TCDF-13C	2.00	74
Total TCDF	ND	-----	0.33	2,3,7,8-TCDD-13C	2.00	83
				1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	ND	-----	0.54	2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD	ND	-----	0.54	1,2,3,7,8-PeCDD-13C	2.00	81
				1,2,3,4,7,8-HxCDF-13C	2.00	71
1,2,3,7,8-PeCDF	ND	-----	0.54	1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	ND	-----	0.47	2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	ND	-----	0.50	1,2,3,7,8,9-HxCDF-13C	2.00	82
				1,2,3,4,7,8-HxCDD-13C	2.00	92
1,2,3,7,8-PeCDD	ND	-----	0.87	1,2,3,6,7,8-HxCDD-13C	2.00	83
Total PeCDD	ND	-----	0.87	1,2,3,4,6,7,8-HpCDF-13C	2.00	74
				1,2,3,4,7,8,9-HpCDF-13C	2.00	70
1,2,3,4,7,8-HxCDF	ND	-----	0.70	1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	ND	-----	0.51	OCDD-13C	4.00	62
2,3,4,6,7,8-HxCDF	ND	-----	0.67			
1,2,3,7,8,9-HxCDF	ND	-----	0.71	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.64	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.86	2,3,7,8-TCDD-37Cl4	0.20	93
1,2,3,6,7,8-HxCDD	ND	-----	0.85			
1,2,3,7,8,9-HxCDD	ND	-----	0.98			
Total HxCDD	ND	-----	0.90			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.66	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.84	Equivalence: 0.0028 ng/Kg		
Total HpCDF	ND	-----	0.75	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.85			
Total HpCDD	ND	-----	0.85			
OCDF	ND	-----	1.50			
OCDD	2.8	-----	1.30 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....00-1033641

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Pace Analytical™

Method 8290 Blank Analysis Results

Client - QAS

Lab Sample ID	BLANK-062100	Matrix	SOLID
Filename	V00713C	Dilution	NA
Total Amount Extracted	10.15 g	Extracted	06/21/2000
ICAL Date	07/12/2000	Analyzed	07/13/2000 11:00
CCal Filename(s)	V00713B & V00713K	Injected By	MASB

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.19	0.075	I	2,3,7,8-TCDF-13C	2.00	84
Total TCDF	ND	-----	0.075		2,3,7,8-TCDD-13C	2.00	79
					1,2,3,7,8-PeCDF-13C	2.00	99
2,3,7,8-TCDD	ND	-----	0.160		2,3,4,7,8-PeCDF-13C	2.00	92
Total TCDD	0.38	-----	0.160	J	1,2,3,7,8-PeCDD-13C	2.00	75
					1,2,3,4,7,8-HxCDF-13C	2.00	78
1,2,3,7,8-PeCDF	-----	0.29	0.093	I	1,2,3,6,7,8-HxCDF-13C	2.00	76
2,3,4,7,8-PeCDF	-----	0.32	0.150	I	2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	ND	-----	0.120		1,2,3,7,8,9-HxCDF-13C	2.00	84
					1,2,3,4,7,8-HxCDD-13C	2.00	77
1,2,3,7,8-PeCDD	-----	0.31	0.190	I	1,2,3,6,7,8-HxCDD-13C	2.00	82
Total PeCDD	ND	-----	0.190		1,2,3,4,6,7,8-HpCDF-13C	2.00	86
					1,2,3,4,7,8,9-HpCDF-13C	2.00	97
1,2,3,4,7,8-HxCDF	-----	0.20	0.150	I	1,2,3,4,6,7,8-HpCDD-13C	2.00	101
1,2,3,6,7,8-HxCDF	0.36	-----	0.160	J	OCDD-13C	4.00	80
2,3,4,6,7,8-HxCDF	-----	0.29	0.120	I			
1,2,3,7,8,9-HxCDF	0.50	-----	0.140	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.86	-----	0.140	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.340		2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,6,7,8-HxCDD	-----	0.36	0.290	I			
1,2,3,7,8,9-HxCDD	-----	0.30	0.270	I			
Total HxCDD	ND	-----	0.300				
1,2,3,4,6,7,8-HpCDF	0.27	-----	0.140	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	0.41	-----	0.160	J	Equivalence: 0.10 ng/Kg		
Total HpCDF	0.67	-----	0.150	J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.76	-----	0.260	J			
Total HpCDD	0.76	-----	0.260	J			
OCDF	0.60	-----	0.310	J			
OCDD	-----	2.20	0.200	I			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....00-1033617

REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Client - QAS

Lab Sample ID	BLANK-062700	Matrix	SOLID
Filename	V00720D	Dilution	NA
Total Amount Extracted	10.07 g	Extracted	06/27/2000
ICAL Date	07/12/2000	Analyzed	07/20/2000 11:13
CCal Filename(s)	V00720C & V00720M	Injected By	DGP

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.18		2,3,7,8-TCDF-13C	2.00	113
Total TCDF	ND	-----	0.18		2,3,7,8-TCDD-13C	2.00	122
					1,2,3,7,8-PeCDF-13C	2.00	122
2,3,7,8-TCDD	ND	-----	0.28		2,3,4,7,8-PeCDF-13C	2.00	127
Total TCDD	0.43	-----	0.28	J	1,2,3,7,8-PeCDD-13C	2.00	134
					1,2,3,4,7,8-HxCDF-13C	2.00	113
1,2,3,7,8-PeCDF	0.22	-----	0.20	J	1,2,3,6,7,8-HxCDF-13C	2.00	123
2,3,4,7,8-PeCDF	-----	0.27	0.22	I	2,3,4,6,7,8-HxCDF-13C	2.00	123
Total PeCDF	0.22	-----	0.21	J	1,2,3,7,8,9-HxCDF-13C	2.00	114
					1,2,3,4,7,8-HxCDD-13C	2.00	130
1,2,3,7,8-PeCDD	ND	-----	0.33		1,2,3,6,7,8-HxCDD-13C	2.00	126
Total PeCDD	ND	-----	0.33		1,2,3,4,6,7,8-HpCDF-13C	2.00	124
					1,2,3,4,7,8,9-HpCDF-13C	2.00	119
1,2,3,4,7,8-HxCDF	ND	-----	0.22		1,2,3,4,6,7,8-HpCDD-13C	2.00	128
1,2,3,6,7,8-HxCDF	0.16	-----	0.15	J	OCDD-13C	4.00	111
2,3,4,6,7,8-HxCDF	0.24	-----	0.22	J			
1,2,3,7,8,9-HxCDF	-----	0.29	0.16	I	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.40	-----	0.19	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.27		2,3,7,8-TCDD-37Cl4	0.20	123
1,2,3,6,7,8-HxCDD	ND	-----	0.60				
1,2,3,7,8,9-HxCDD	ND	-----	0.51				
Total HxCDD	ND	-----	0.46				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.29		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	-----	0.29	0.27	I	Equivalence: 0.053 ng/Kg		
Total HpCDF	ND	-----	0.28		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.53				
Total HpCDD	ND	-----	0.53				
OCDF	ND	-----	0.55				
OCDD	2.00	-----	0.68	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
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I = Interference
E = PCDE Interference
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NC = Not Calculated

Report No.....00-1033617

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Tel: 612-607-1700
Fax: 612-607-6444

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Method 8290 Blank Analysis Results

Client - QAS

Lab Sample ID	BLANK-072000	Matrix	Solid
Filename	V00801F	Dilution	NA
Total Amount Extracted	10.07 g	Extracted	07/20/2000
ICAL Date	07/12/2000	Analyzed	08/01/2000 13:33
CCal Filename(s)	V00801C & V00801N	Injected By	DGP

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.87	2,3,7,8-TCDF-13C	2.00	71
Total TCDF	ND	-----	0.87	2,3,7,8-TCDD-13C	2.00	78
				1,2,3,7,8-PeCDF-13C	2.00	73
2,3,7,8-TCDD	ND	-----	1.50	2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	ND	-----	1.50	1,2,3,7,8-PeCDD-13C	2.00	80
				1,2,3,4,7,8-HxCDF-13C	2.00	69
1,2,3,7,8-PeCDF	ND	-----	1.20	1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	ND	-----	0.78	2,3,4,6,7,8-HxCDF-13C	2.00	74
Total PeCDF	ND	-----	1.00	1,2,3,7,8,9-HxCDF-13C	2.00	74
				1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	-----	2.10	1,2,3,6,7,8-HxCDD-13C	2.00	86
Total PeCDD	ND	-----	2.10	1,2,3,4,6,7,8-HpCDF-13C	2.00	80
				1,2,3,4,7,8,9-HpCDF-13C	2.00	82
1,2,3,4,7,8-HxCDF	ND	-----	1.30	1,2,3,4,6,7,8-HpCDD-13C	2.00	93
1,2,3,6,7,8-HxCDF	ND	-----	1.20	OCDD-13C	4.00	73
2,3,4,6,7,8-HxCDF	ND	-----	1.10			
1,2,3,7,8,9-HxCDF	ND	-----	1.30	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.20	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	2.10	2,3,7,8-TCDD-37Cl4	0.20	71
1,2,3,6,7,8-HxCDD	ND	-----	1.60			
1,2,3,7,8,9-HxCDD	ND	-----	1.80			
Total HxCDD	ND	-----	1.80			
1,2,3,4,6,7,8-HpCDF	ND	-----	1.10	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.60	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	-----	1.40	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	2.00			
Total HpCDD	ND	-----	2.00			
OCDF	ND	-----	2.70			
OCDD	ND	-----	2.90			

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J = Concentration detected is below the calibration range
I = Interference
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NC = Not Calculated

Report No.....00-1034661

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX1		
Lab Sample ID	2053725		
Filename	V00729Q		
Injected By	TM		
Total Amount Extracted	11.21 g	Matrix	SOIL
% Moisture	10.3	Dilution	NA
Dry Weight Extracted	10.1 g	Collected	05/24/2000
ICAL Date	07/12/2000	Received	05/25/2000
CCal Filename(s)	V00729O & V00729S	Extracted	06/27/2000
Method Blank ID	BLANK-062700	Analyzed	07/30/2000 00:33

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.76	0.22	E	2,3,7,8-TCDF-13C	2.00	102
Total TCDF	1.7	-----	0.22		2,3,7,8-TCDD-13C	2.00	112
					1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	-----	0.40		2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	ND	-----	0.40		1,2,3,7,8-PeCDD-13C	2.00	83
					1,2,3,4,7,8-HxCDF-13C	2.00	115
1,2,3,7,8-PeCDF	ND	-----	0.68		1,2,3,6,7,8-HxCDF-13C	2.00	120
2,3,4,7,8-PeCDF	ND	-----	0.79		2,3,4,6,7,8-HxCDF-13C	2.00	122
Total PeCDF	2.2	-----	0.73		1,2,3,7,8,9-HxCDF-13C	2.00	100
					1,2,3,4,7,8-HxCDD-13C	2.00	114
1,2,3,7,8-PeCDD	ND	-----	0.60		1,2,3,6,7,8-HxCDD-13C	2.00	131
Total PeCDD	ND	-----	0.60		1,2,3,4,6,7,8-HpCDF-13C	2.00	78
					1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	-----	3.30	1.10	E	1,2,3,4,6,7,8-HpCDD-13C	2.00	81
1,2,3,6,7,8-HxCDF	ND	-----	0.96		OCDD-13C	4.00	60
2,3,4,6,7,8-HxCDF	ND	-----	0.90				
1,2,3,7,8,9-HxCDF	ND	-----	1.10		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	9.7	-----	1.00		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.20		2,3,7,8-TCDD-37Cl4	0.20	109
1,2,3,6,7,8-HxCDD	-----	2.50	0.85	I			
1,2,3,7,8,9-HxCDD	-----	2.10	0.65	I			
Total HxCDD	8.4	-----	0.91				
1,2,3,4,6,7,8-HpCDF	8.7	-----	2.20		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.50		Equivalence: 1.5 ng/Kg		
Total HpCDF	28.0	-----	3.30		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	60.0	-----	2.40				
Total HpCDD	110.0	-----	2.40				
OCDF	29.0	-----	3.40				
OCDD	800.0	-----	3.30				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....00-1033084

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX2		
Lab Sample ID	2081270		
Filename	V00728O		
Injected By	BAL		
Total Amount Extracted	10.87 g	Matrix	SOIL
% Moisture	3.7	Dilution	NA
Dry Weight Extracted	10.5 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00728K & V00728W	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/28/2000 20:02

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.10		2,3,7,8-TCDF-13C	2.00	77
Total TCDF	ND	-----	0.10		2,3,7,8-TCDD-13C	2.00	79
					1,2,3,7,8-PeCDF-13C	2.00	78
2,3,7,8-TCDD	ND	-----	0.34		2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD	0.35	-----	0.34	BJ	1,2,3,7,8-PeCDD-13C	2.00	88
					1,2,3,4,7,8-HxCDF-13C	2.00	51
1,2,3,7,8-PeCDF	ND	-----	0.29		1,2,3,6,7,8-HxCDF-13C	2.00	67
2,3,4,7,8-PeCDF	ND	-----	0.31		2,3,4,6,7,8-HxCDF-13C	2.00	76
Total PeCDF	ND	-----	0.30		1,2,3,7,8,9-HxCDF-13C	2.00	79
					1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	ND	-----	0.42		1,2,3,6,7,8-HxCDD-13C	2.00	85
Total PeCDD	ND	-----	0.42		1,2,3,4,6,7,8-HpCDF-13C	2.00	77
					1,2,3,4,7,8,9-HpCDF-13C	2.00	86
1,2,3,4,7,8-HxCDF	ND	-----	0.23		1,2,3,4,6,7,8-HpCDD-13C	2.00	92
1,2,3,6,7,8-HxCDF	ND	-----	0.20		OCDD-13C	4.00	97
2,3,4,6,7,8-HxCDF	ND	-----	0.21				
1,2,3,7,8,9-HxCDF	ND	-----	0.18		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.21		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.53		2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	-----	0.60				
1,2,3,7,8,9-HxCDD	ND	-----	0.39				
Total HxCDD	ND	-----	0.51				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.30		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.28		Equivalence: 0.015 ng/Kg		
Total HpCDF	ND	-----	0.29		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.91	-----	0.66	BJ			
Total HpCDD	0.91	-----	0.66	BJ			
OCDF	ND	-----	0.54				
OCDD	5.50	-----	0.55	J			

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
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B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

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E = PCDE Interference
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Report No.....00-1033617

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX3		
Lab Sample ID	2081288		
Filename	V00728P		
Injected By	BAL		
Total Amount Extracted	11.7 g	Matrix	SOIL
% Moisture	5.8	Dilution	NA
Dry Weight Extracted	11.0 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00728K & V00728W	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/28/2000 21:04

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.57		2,3,7,8-TCDF-13C	2.00	64
Total TCDF	0.91	-----	0.57		2,3,7,8-TCDD-13C	2.00	68
					1,2,3,7,8-PeCDF-13C	2.00	59
2,3,7,8-TCDD	ND	-----	0.55		2,3,4,7,8-PeCDF-13C	2.00	57
Total TCDD	ND	-----	0.55		1,2,3,7,8-PeCDD-13C	2.00	63
					1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	ND	-----	0.59		1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	ND	-----	0.67		2,3,4,6,7,8-HxCDF-13C	2.00	73
Total PeCDF	1.70	-----	0.63	J	1,2,3,7,8,9-HxCDF-13C	2.00	71
					1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	ND	-----	1.30		1,2,3,6,7,8-HxCDD-13C	2.00	83
Total PeCDD	ND	-----	1.30		1,2,3,4,6,7,8-HpCDF-13C	2.00	59
					1,2,3,4,7,8,9-HpCDF-13C	2.00	60
1,2,3,4,7,8-HxCDF	ND	-----	0.90		1,2,3,4,6,7,8-HpCDD-13C	2.00	66
1,2,3,6,7,8-HxCDF	ND	-----	1.20		OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	ND	-----	1.00				
1,2,3,7,8,9-HxCDF	ND	-----	1.70		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	3.40	-----	1.20	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.10		2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	2.30	-----	1.10	J			
1,2,3,7,8,9-HxCDD	ND	-----	1.10				
Total HxCDD	15.00	-----	1.10				
1,2,3,4,6,7,8-HpCDF	5.80	-----	1.00		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.70		Equivalence: 1.2 ng/Kg		
Total HpCDF	5.80	-----	1.90		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	42.00	-----	2.30				
Total HpCDD	83.00	-----	2.30				
OCDF	33.00	-----	4.10				
OCDD	500.00	-----	3.00				

Results reported on a dry weight basis

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Report No.....00-1033617

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX5		
Lab Sample ID	2081296		
Filename	V00728Q		
Injected By	BAL		
Total Amount Extracted	11.77 g	Matrix	SOIL
% Moisture	12.1	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00728K & V00728W	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/28/2000 22:07

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.86	0.16	E	2,3,7,8-TCDF-13C	2.00	69
Total TCDF	2.40	-----	0.16		2,3,7,8-TCDD-13C	2.00	76
					1,2,3,7,8-PeCDF-13C	2.00	61
2,3,7,8-TCDD	0.81	-----	0.73	J	2,3,4,7,8-PeCDF-13C	2.00	58
Total TCDD	0.81	-----	0.73	J	1,2,3,7,8-PeCDD-13C	2.00	59
					1,2,3,4,7,8-HxCDF-13C	2.00	79
1,2,3,7,8-PeCDF	ND	-----	0.89		1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	ND	-----	1.10		2,3,4,6,7,8-HxCDF-13C	2.00	80
Total PeCDF	ND	-----	1.00		1,2,3,7,8,9-HxCDF-13C	2.00	81
					1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	ND	-----	1.90		1,2,3,6,7,8-HxCDD-13C	2.00	87
Total PeCDD	8.70	-----	1.90		1,2,3,4,6,7,8-HpCDF-13C	2.00	62
					1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	ND	-----	1.40		1,2,3,4,6,7,8-HpCDD-13C	2.00	67
1,2,3,6,7,8-HxCDF	ND	-----	1.20		OCDD-13C	4.00	58
2,3,4,6,7,8-HxCDF	ND	-----	1.60				
1,2,3,7,8,9-HxCDF	ND	-----	2.40		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.70		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.90		2,3,7,8-TCDD-37Cl4	0.20	73
1,2,3,6,7,8-HxCDD	ND	-----	1.90				
1,2,3,7,8,9-HxCDD	ND	-----	2.00				
Total HxCDD	23.00	-----	1.90				
1,2,3,4,6,7,8-HpCDF	-----	2.50	0.94	I	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	3.20		Equivalence: 1.2 ng/Kg		
Total HpCDF	7.80	-----	2.00		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	17.00	-----	2.50				
Total HpCDD	34.00	-----	2.50				
OCDF	16.00	-----	6.00				
OCDD	200.00	-----	5.00				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX6 SURFACE		
Lab Sample ID	2081312		
Filename	V00728V		
Injected By	BAL		
Total Amount Extracted	11.15 g	Matrix	SOIL
% Moisture	8.5	Dilution	2
Dry Weight Extracted	10.2 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00728K & V00728W	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 03:09

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	1.9	-----	1.6		2,3,7,8-TCDF-13C	2.00	72	
Total TCDF	48.0	-----	1.6		2,3,7,8-TCDD-13C	2.00	71	
					1,2,3,7,8-PeCDF-13C	2.00	56	
2,3,7,8-TCDD	6.4	-----	2.7		2,3,4,7,8-PeCDF-13C	2.00	48	
Total TCDD	6.4	-----	2.7		1,2,3,7,8-PeCDD-13C	2.00	55	
					1,2,3,4,7,8-HxCDF-13C	2.00	89	
1,2,3,7,8-PeCDF	ND	-----	2.3		1,2,3,6,7,8-HxCDF-13C	2.00	90	
2,3,4,7,8-PeCDF	13.0	-----	1.5		2,3,4,6,7,8-HxCDF-13C	2.00	86	
Total PeCDF	62.0	-----	1.9		1,2,3,7,8,9-HxCDF-13C	2.00	80	
					1,2,3,4,7,8-HxCDD-13C	2.00	88	
1,2,3,7,8-PeCDD	ND	-----	5.6		1,2,3,6,7,8-HxCDD-13C	2.00	99	
Total PeCDD	ND	-----	5.6		1,2,3,4,6,7,8-HpCDF-13C	2.00	57	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	49	
1,2,3,4,7,8-HxCDF	-----	13.0	4.8	I	1,2,3,4,6,7,8-HpCDD-13C	2.00	59	
1,2,3,6,7,8-HxCDF	-----	4.9	4.5	I	OCDD-13C	4.00	39	P
2,3,4,6,7,8-HxCDF	9.1	-----	5.9					
1,2,3,7,8,9-HxCDF	ND	-----	6.6		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	72.0	-----	5.5		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	8.7		2,3,7,8-TCDD-37Cl4	0.20	75	
1,2,3,6,7,8-HxCDD	12.0	-----	8.4					
1,2,3,7,8,9-HxCDD	ND	-----	7.4					
Total HxCDD	83.0	-----	8.2					
1,2,3,4,6,7,8-HpCDF	34.0	-----	6.8		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	18.0		Equivalence: 20 ng/Kg			
Total HpCDF	79.0	-----	13.0		(Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	140.0	-----	25.0					
Total HpCDD	260.0	-----	25.0					
OCDF	79.0	-----	41.0					
OCDD	2800.0	-----	42.0					

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
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B = Less than 10 times higher than method blank level
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Nn = Value obtained from additional analysis

I = Interference
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Minneapolis, MN 55414

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX8 SURFACE		
Lab Sample ID	2081320		
Filename	V00728U		
Injected By	BAL		
Total Amount Extracted	11.36 g	Matrix	SOIL
% Moisture	7.6	Dilution	NA
Dry Weight Extracted	10.5 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00728K & V00728W	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 02:09

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	1.4		2,3,7,8-TCDF-13C	2.00	70	
Total TCDF	16.0	-----	1.4		2,3,7,8-TCDD-13C	2.00	71	
					1,2,3,7,8-PeCDF-13C	2.00	51	
2,3,7,8-TCDD	26.0	-----	1.9		2,3,4,7,8-PeCDF-13C	2.00	46	
Total TCDD	26.0	-----	1.9		1,2,3,7,8-PeCDD-13C	2.00	48	
					1,2,3,4,7,8-HxCDF-13C	2.00	85	
1,2,3,7,8-PeCDF	-----	20	2.1	E	1,2,3,6,7,8-HxCDF-13C	2.00	87	
2,3,4,7,8-PeCDF	5.8	-----	1.5		2,3,4,6,7,8-HxCDF-13C	2.00	78	
Total PeCDF	5.8	-----	1.8		1,2,3,7,8,9-HxCDF-13C	2.00	73	
					1,2,3,4,7,8-HxCDD-13C	2.00	86	
1,2,3,7,8-PeCDD	ND	-----	3.4		1,2,3,6,7,8-HxCDD-13C	2.00	86	
Total PeCDD	ND	-----	3.4		1,2,3,4,6,7,8-HpCDF-13C	2.00	47	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	46	
1,2,3,4,7,8-HxCDF	ND	-----	4.0		1,2,3,4,6,7,8-HpCDD-13C	2.00	50	
1,2,3,6,7,8-HxCDF	ND	-----	5.1		OCDD-13C	4.00	36	P
2,3,4,6,7,8-HxCDF	6.8	-----	5.2					
1,2,3,7,8,9-HxCDF	ND	-----	8.3		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	52.0	-----	5.7		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	7.5		2,3,7,8-TCDD-37Cl4	0.20	72	
1,2,3,6,7,8-HxCDD	15.0	-----	6.2					
1,2,3,7,8,9-HxCDD	ND	-----	6.0					
Total HxCDD	50.0	-----	6.6					
1,2,3,4,6,7,8-HpCDF	35.0	-----	9.2		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	18.0		Equivalence: 36 ng/Kg			
Total HpCDF	110.0	-----	13.0		(Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	170.0	-----	14.0					
Total HpCDD	310.0	-----	14.0					
OCDF	98.0	-----	24.0					
OCDD	2000.0	-----	22.0					

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX8 BASE		
Lab Sample ID	2081338		
Filename	V00728R		
Injected By	BAL		
Total Amount Extracted	12.8 g	Matrix	SOIL
% Moisture	20.3	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00728K & V00728W	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/28/2000 23:09

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.35		2,3,7,8-TCDF-13C	2.00	63
Total TCDF	ND	-----	0.35		2,3,7,8-TCDD-13C	2.00	69
					1,2,3,7,8-PeCDF-13C	2.00	62
2,3,7,8-TCDD	ND	-----	0.23		2,3,4,7,8-PeCDF-13C	2.00	67
Total TCDD	ND	-----	0.23		1,2,3,7,8-PeCDD-13C	2.00	75
					1,2,3,4,7,8-HxCDF-13C	2.00	47
1,2,3,7,8-PeCDF	ND	-----	0.24		1,2,3,6,7,8-HxCDF-13C	2.00	55
2,3,4,7,8-PeCDF	ND	-----	0.22		2,3,4,6,7,8-HxCDF-13C	2.00	71
Total PeCDF	ND	-----	0.23		1,2,3,7,8,9-HxCDF-13C	2.00	72
					1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	ND	-----	0.56		1,2,3,6,7,8-HxCDD-13C	2.00	82
Total PeCDD	2.8	-----	0.56	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	67
					1,2,3,4,7,8,9-HpCDF-13C	2.00	71
1,2,3,4,7,8-HxCDF	ND	-----	0.57		1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	ND	-----	0.37		OCDD-13C	4.00	80
2,3,4,6,7,8-HxCDF	ND	-----	0.52				
1,2,3,7,8,9-HxCDF	ND	-----	0.48		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.49		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.46		2,3,7,8-TCDD-37Cl4	0.20	71
1,2,3,6,7,8-HxCDD	ND	-----	0.81				
1,2,3,7,8,9-HxCDD	ND	-----	0.81				
Total HxCDD	16.0	-----	0.69				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.55		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.78		Equivalence: 0.0070 ng/Kg		
Total HpCDF	ND	-----	0.67		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	-----	1.2	0.83	I			
Total HpCDD	1.3	-----	0.83	J			
OCDF	ND	-----	0.80				
OCDD	7.0	-----	1.60	J			

Results reported on a dry weight basis

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EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX8 MIDDLE		
Lab Sample ID	2081346		
Filename	V00728S		
Injected By	BAL		
Total Amount Extracted	12.85 g	Matrix	SOIL
% Moisture	20.1	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00728K & V00728W	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 00:09

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.31		2,3,7,8-TCDF-13C	2.00	64
Total TCDF	ND	-----	0.31		2,3,7,8-TCDD-13C	2.00	67
					1,2,3,7,8-PeCDF-13C	2.00	64
2,3,7,8-TCDD	ND	-----	0.50		2,3,4,7,8-PeCDF-13C	2.00	71
Total TCDD	ND	-----	0.50		1,2,3,7,8-PeCDD-13C	2.00	77
					1,2,3,4,7,8-HxCDF-13C	2.00	48
1,2,3,7,8-PeCDF	ND	-----	0.42		1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	ND	-----	0.34		2,3,4,6,7,8-HxCDF-13C	2.00	71
Total PeCDF	ND	-----	0.38		1,2,3,7,8,9-HxCDF-13C	2.00	74
					1,2,3,4,7,8-HxCDD-13C	2.00	77
1,2,3,7,8-PeCDD	ND	-----	0.43		1,2,3,6,7,8-HxCDD-13C	2.00	82
Total PeCDD	ND	-----	0.43		1,2,3,4,6,7,8-HpCDF-13C	2.00	67
					1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	ND	-----	0.44		1,2,3,4,6,7,8-HpCDD-13C	2.00	80
1,2,3,6,7,8-HxCDF	ND	-----	0.31		OCDD-13C	4.00	76
2,3,4,6,7,8-HxCDF	ND	-----	0.34				
1,2,3,7,8,9-HxCDF	ND	-----	0.32		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.35		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.36		2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	-----	0.39				
1,2,3,7,8,9-HxCDD	ND	-----	0.28				
Total HxCDD	1.7	-----	0.34	J			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.38		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.62		Equivalence: 0.019 ng/Kg		
Total HpCDF	ND	-----	0.50		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	1.0	-----	0.60	BJ			
Total HpCDD	2.1	-----	0.60	J			
OCDF	ND	-----	0.97				
OCDD	9.2	-----	0.72	J			

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX9		
Lab Sample ID	2081353		
Filename	V00728T		
Injected By	BAL		
Total Amount Extracted	13.18 g	Matrix	SOIL
% Moisture	20.3	Dilution	NA
Dry Weight Extracted	10.5 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00728K & V00728W	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 01:09

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.23		2,3,7,8-TCDF-13C	2.00	70
Total TCDF	0.62	-----	0.23	J	2,3,7,8-TCDD-13C	2.00	77
					1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	ND	-----	0.64		2,3,4,7,8-PeCDF-13C	2.00	67
Total TCDD	ND	-----	0.64		1,2,3,7,8-PeCDD-13C	2.00	69
					1,2,3,4,7,8-HxCDF-13C	2.00	80
1,2,3,7,8-PeCDF	ND	-----	0.57		1,2,3,6,7,8-HxCDF-13C	2.00	87
2,3,4,7,8-PeCDF	ND	-----	0.56		2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	ND	-----	0.57		1,2,3,7,8,9-HxCDF-13C	2.00	77
					1,2,3,4,7,8-HxCDD-13C	2.00	82
1,2,3,7,8-PeCDD	ND	-----	0.69		1,2,3,6,7,8-HxCDD-13C	2.00	95
Total PeCDD	6.60	-----	0.69		1,2,3,4,6,7,8-HpCDF-13C	2.00	59
					1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	2.70	-----	1.10	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	65
1,2,3,6,7,8-HxCDF	ND	-----	1.40		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	-----	1.20				
1,2,3,7,8,9-HxCDF	ND	-----	1.50		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	4.20	-----	1.30	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.50		2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,6,7,8-HxCDD	ND	-----	0.80				
1,2,3,7,8,9-HxCDD	ND	-----	1.60				
Total HxCDD	21.00	-----	1.30				
1,2,3,4,6,7,8-HpCDF	3.60	-----	1.30	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.50		Equivalence: 0.49 ng/Kg		
Total HpCDF	9.90	-----	1.90		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	9.80	-----	3.10				
Total HpCDD	19.00	-----	3.10				
OCDF	-----	14	5.60	I			
OCDD	81.00	-----	4.60				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
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Report No.....00-1033617

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX10		
Lab Sample ID	2081361		
Filename	V00729F		
Injected By	SWH		
Total Amount Extracted	13.99 g	Matrix	SOIL
% Moisture	24.0	Dilution	NA
Dry Weight Extracted	10.6 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00729D & V00729O	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 11:24

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.47		2,3,7,8-TCDF-13C	2.00	71
Total TCDF	ND	-----	0.47		2,3,7,8-TCDD-13C	2.00	75
					1,2,3,7,8-PeCDF-13C	2.00	66
2,3,7,8-TCDD	ND	-----	0.58		2,3,4,7,8-PeCDF-13C	2.00	64
Total TCDD	ND	-----	0.58		1,2,3,7,8-PeCDD-13C	2.00	71
					1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	ND	-----	0.53		1,2,3,6,7,8-HxCDF-13C	2.00	81
2,3,4,7,8-PeCDF	ND	-----	0.72		2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF	ND	-----	0.63		1,2,3,7,8,9-HxCDF-13C	2.00	73
					1,2,3,4,7,8-HxCDD-13C	2.00	83
1,2,3,7,8-PeCDD	ND	-----	0.80		1,2,3,6,7,8-HxCDD-13C	2.00	92
Total PeCDD	ND	-----	0.80		1,2,3,4,6,7,8-HpCDF-13C	2.00	61
					1,2,3,4,7,8,9-HpCDF-13C	2.00	60
1,2,3,4,7,8-HxCDF	ND	-----	0.74		1,2,3,4,6,7,8-HpCDD-13C	2.00	67
1,2,3,6,7,8-HxCDF	ND	-----	0.74		OCDD-13C	4.00	65
2,3,4,6,7,8-HxCDF	ND	-----	1.10				
1,2,3,7,8,9-HxCDF	ND	-----	1.10		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.91		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.20		2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	4.0	-----	1.10	J			
1,2,3,7,8,9-HxCDD	ND	-----	1.30				
Total HxCDD	46.0	-----	1.20				
1,2,3,4,6,7,8-HpCDF	ND	-----	1.50		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	3.70		Equivalence: 0.62 ng/Kg		
Total HpCDF	5.5	-----	2.60		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	13.0	-----	1.40				
Total HpCDD	26.0	-----	1.40				
OCDF	7.7	-----	3.30	J			
OCDD	82.0	-----	2.00				

Results reported on a dry weight basis

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LOD = Limit of Detection
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B = Less than 10 times higher than method blank level
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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX12 SURFACE		
Lab Sample ID	2081379		
Filename	V00729G		
Injected By	SWH		
Total Amount Extracted	10.54 g	Matrix	SOIL
% Moisture	1.7	Dilution	NA
Dry Weight Extracted	10.4 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00729D & V00729O	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 12:26

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.82	-----	0.45	J	2,3,7,8-TCDF-13C	2.00	78
Total TCDF	6.00	-----	0.45		2,3,7,8-TCDD-13C	2.00	83
					1,2,3,7,8-PeCDF-13C	2.00	72
2,3,7,8-TCDD	1.10	-----	0.56		2,3,4,7,8-PeCDF-13C	2.00	69
Total TCDD	1.10	-----	0.56		1,2,3,7,8-PeCDD-13C	2.00	77
					1,2,3,4,7,8-HxCDF-13C	2.00	95
1,2,3,7,8-PeCDF	ND	-----	0.89		1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	ND	-----	0.62		2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	4.90	-----	0.75		1,2,3,7,8,9-HxCDF-13C	2.00	69
					1,2,3,4,7,8-HxCDD-13C	2.00	93
1,2,3,7,8-PeCDD	-----	0.89	0.79	I	1,2,3,6,7,8-HxCDD-13C	2.00	99
Total PeCDD	1.20	-----	0.79	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	59
					1,2,3,4,7,8,9-HpCDF-13C	2.00	60
1,2,3,4,7,8-HxCDF	ND	-----	0.55		1,2,3,4,6,7,8-HpCDD-13C	2.00	72
1,2,3,6,7,8-HxCDF	ND	-----	0.43		OCDD-13C	4.00	65
2,3,4,6,7,8-HxCDF	-----	1.30	0.54	I			
1,2,3,7,8,9-HxCDF	ND	-----	1.30		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	20.00	-----	0.71		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.30	-----	1.10	J	2,3,7,8-TCDD-37Cl4	0.20	94
1,2,3,6,7,8-HxCDD	21.00	-----	0.67				
1,2,3,7,8,9-HxCDD	8.40	-----	1.10				
Total HxCDD	140.00	-----	0.95				
1,2,3,4,6,7,8-HpCDF	25.00	-----	1.60		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.50		Equivalence: 8.5 ng/Kg		
Total HpCDF	25.00	-----	2.10		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	180.00	-----	1.60				
Total HpCDD	330.00	-----	1.60				
OCDF	74.00	-----	3.00				
OCDD	2000.00	-----	3.10				

Results reported on a dry weight basis

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Minneapolis, MN 55414

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX13 SURFACE		
Lab Sample ID	2081387		
Filename	V00729H		
Injected By	SWH		
Total Amount Extracted	10.6 g	Matrix	SOIL
% Moisture	3.6	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00729D & V00729O	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 13:28

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.0		2,3,7,8-TCDF-13C	2.00	76
Total TCDF	3.2	-----	1.0		2,3,7,8-TCDD-13C	2.00	75
		a			1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	-----	1.5	1.1	I	2,3,4,7,8-PeCDF-13C	2.00	60
Total TCDD	ND	-----	1.1		1,2,3,7,8-PeCDD-13C	2.00	68
					1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	ND	-----	1.2		1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	ND	-----	1.9		2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF	17.0	-----	1.6		1,2,3,7,8,9-HxCDF-13C	2.00	80
					1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	-----	1.9		1,2,3,6,7,8-HxCDD-13C	2.00	88
Total PeCDD	ND	-----	1.9		1,2,3,4,6,7,8-HpCDF-13C	2.00	60
					1,2,3,4,7,8,9-HpCDF-13C	2.00	58
1,2,3,4,7,8-HxCDF	ND	-----	2.2		1,2,3,4,6,7,8-HpCDD-13C	2.00	68
1,2,3,6,7,8-HxCDF	ND	-----	2.7		OCDD-13C	4.00	53
2,3,4,6,7,8-HxCDF	ND	-----	3.5				
1,2,3,7,8,9-HxCDF	ND	-----	3.4		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	6.7	-----	2.9		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	2.8		2,3,7,8-TCDD-37Cl4	0.20	73
1,2,3,6,7,8-HxCDD	ND	-----	3.8				
1,2,3,7,8,9-HxCDD	ND	-----	2.9				
Total HxCDD	13.0	-----	3.2				
1,2,3,4,6,7,8-HpCDF	-----	9.8	5.4	I	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	6.2		Equivalence: 0.80 ng/Kg		
Total HpCDF	18.0	-----	5.8		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	39.0	-----	6.5				
Total HpCDD	71.0	-----	6.5				
OCDF	27.0	-----	7.1				
OCDD	380.0	-----	13.0				

Results reported on a dry weight basis

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B = Less than 10 times higher than method blank level
P = Recovery outside of target range
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Minneapolis, MN 55414

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX13 BASE		
Lab Sample ID	2081395		
Filename	V00729I		
Injected By	SWH		
Total Amount Extracted	13.36 g	Matrix	SOIL
% Moisture	21.7	Dilution	NA
Dry Weight Extracted	10.5 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00729D & V00729O	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 14:31

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.46		2,3,7,8-TCDF-13C	2.00	80
Total TCDF	ND	-----	0.46		2,3,7,8-TCDD-13C	2.00	74
					1,2,3,7,8-PeCDF-13C	2.00	67
2,3,7,8-TCDD	ND	-----	0.59		2,3,4,7,8-PeCDF-13C	2.00	62
Total TCDD	ND	-----	0.59		1,2,3,7,8-PeCDD-13C	2.00	70
					1,2,3,4,7,8-HxCDF-13C	2.00	86
1,2,3,7,8-PeCDF	ND	-----	0.78		1,2,3,6,7,8-HxCDF-13C	2.00	91
2,3,4,7,8-PeCDF	ND	-----	0.64		2,3,4,6,7,8-HxCDF-13C	2.00	85
Total PeCDF	1.2	-----	0.71	J	1,2,3,7,8,9-HxCDF-13C	2.00	79
					1,2,3,4,7,8-HxCDD-13C	2.00	91
1,2,3,7,8-PeCDD	ND	-----	1.00		1,2,3,6,7,8-HxCDD-13C	2.00	97
Total PeCDD	4.7	-----	1.00	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	63
					1,2,3,4,7,8,9-HpCDF-13C	2.00	61
1,2,3,4,7,8-HxCDF	ND	-----	0.90		1,2,3,4,6,7,8-HpCDD-13C	2.00	72
1,2,3,6,7,8-HxCDF	ND	-----	0.58		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	-----	1.20				
1,2,3,7,8,9-HxCDF	ND	-----	1.20		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	3.6	-----	0.99	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.40		2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	3.4	-----	1.20	J			
1,2,3,7,8,9-HxCDD	ND	-----	1.30				
Total HxCDD	33.0	-----	1.30				
1,2,3,4,6,7,8-HpCDF	5.7	-----	1.30		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.60		Equivalence: 0.75 ng/Kg		
Total HpCDF	22.0	-----	2.00		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	23.0	-----	2.70				
Total HpCDD	37.0	-----	2.70				
OCDF	14.0	-----	5.60				
OCDD	110.0	-----	3.20				

Results reported on a dry weight basis

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX13 MIDDLE		
Lab Sample ID	2081403		
Filename	V00729J		
Injected By	TM		
Total Amount Extracted	13.2 g	Matrix	SOIL
% Moisture	18.2	Dilution	NA
Dry Weight Extracted	10.8 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00729D & V00729O	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 15:55

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.89		2,3,7,8-TCDF-13C	2.00	62	
Total TCDF	ND	-----	0.89		2,3,7,8-TCDD-13C	2.00	62	
					1,2,3,7,8-PeCDF-13C	2.00	52	
2,3,7,8-TCDD	ND	-----	0.96		2,3,4,7,8-PeCDF-13C	2.00	50	
Total TCDD	ND	-----	0.96		1,2,3,7,8-PeCDD-13C	2.00	52	
					1,2,3,4,7,8-HxCDF-13C	2.00	72	
1,2,3,7,8-PeCDF	ND	-----	1.80		1,2,3,6,7,8-HxCDF-13C	2.00	75	
2,3,4,7,8-PeCDF	ND	-----	1.60		2,3,4,6,7,8-HxCDF-13C	2.00	74	
Total PeCDF	1.7	-----	1.70	J	1,2,3,7,8,9-HxCDF-13C	2.00	68	
					1,2,3,4,7,8-HxCDD-13C	2.00	76	
1,2,3,7,8-PeCDD	ND	-----	2.00		1,2,3,6,7,8-HxCDD-13C	2.00	72	
Total PeCDD	ND	-----	2.00		1,2,3,4,6,7,8-HpCDF-13C	2.00	50	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	46	
1,2,3,4,7,8-HxCDF	ND	-----	1.90		1,2,3,4,6,7,8-HpCDD-13C	2.00	53	
1,2,3,6,7,8-HxCDF	ND	-----	2.50		OCDD-13C	4.00	39	P
2,3,4,6,7,8-HxCDF	ND	-----	3.00					
1,2,3,7,8,9-HxCDF	ND	-----	4.30		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	2.90		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	3.30		2,3,7,8-TCDD-37Cl4	0.20	74	
1,2,3,6,7,8-HxCDD	7.8	-----	4.10					
1,2,3,7,8,9-HxCDD	ND	-----	3.20					
Total HxCDD	38.0	-----	3.50					
1,2,3,4,6,7,8-HpCDF	ND	-----	5.20		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	7.00		Equivalence: 1.3 ng/Kg			
Total HpCDF	ND	-----	6.10		(Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	30.0	-----	3.50					
Total HpCDD	30.0	-----	3.50					
OCDF	ND	-----	13.00					
OCDD	210.0	-----	11.00					

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....00-1033617

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414

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Fax: 612-607-6444

Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX14 BASE		
Lab Sample ID	2081429		
Filename	V00729K		
Injected By	TM		
Total Amount Extracted	12.9 g	Matrix	SOIL
% Moisture	20.4	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00729D & V00729O	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 17:09

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.47		2,3,7,8-TCDF-13C	2.00	67
Total TCDF	ND	-----	0.47		2,3,7,8-TCDD-13C	2.00	64
					1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	ND	-----	0.99		2,3,4,7,8-PeCDF-13C	2.00	57
Total TCDD	ND	-----	0.99		1,2,3,7,8-PeCDD-13C	2.00	67
					1,2,3,4,7,8-HxCDF-13C	2.00	75
1,2,3,7,8-PeCDF	-----	5.2	1.20	E	1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	ND	-----	0.97		2,3,4,6,7,8-HxCDF-13C	2.00	69
Total PeCDF	ND	-----	1.10		1,2,3,7,8,9-HxCDF-13C	2.00	68
					1,2,3,4,7,8-HxCDD-13C	2.00	72
1,2,3,7,8-PeCDD	ND	-----	1.60		1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	ND	-----	1.60		1,2,3,4,6,7,8-HpCDF-13C	2.00	49
					1,2,3,4,7,8,9-HpCDF-13C	2.00	51
1,2,3,4,7,8-HxCDF	ND	-----	1.50		1,2,3,4,6,7,8-HpCDD-13C	2.00	53
1,2,3,6,7,8-HxCDF	ND	-----	1.50		OCDD-13C	4.00	48
2,3,4,6,7,8-HxCDF	ND	-----	1.60				
1,2,3,7,8,9-HxCDF	ND	-----	2.30		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	2.2	-----	1.70	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.20		2,3,7,8-TCDD-37Cl4	0.20	88
1,2,3,6,7,8-HxCDD	9.9	-----	1.60				
1,2,3,7,8,9-HxCDD	4.0	-----	1.90	J			
Total HxCDD	110.0	-----	1.60				
1,2,3,4,6,7,8-HpCDF	ND	-----	2.80		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	3.80		Equivalence: 1.7 ng/Kg		
Total HpCDF	ND	-----	3.30		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	22.0	-----	3.90				
Total HpCDD	43.0	-----	3.90				
OCDF	ND	-----	5.50				
OCDD	110.0	-----	7.30				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX14 SURFACE		
Lab Sample ID	2081445		
Filename	V00729L		
Injected By	TM		
Total Amount Extracted	10.36 g	Matrix	SOIL
% Moisture	1.7	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00729D & V00729O	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 18:15

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.75		2,3,7,8-TCDF-13C	2.00	81
Total TCDF	2.1	-----	0.75		2,3,7,8-TCDD-13C	2.00	78
					1,2,3,7,8-PeCDF-13C	2.00	66
2,3,7,8-TCDD	3.9	-----	1.00		2,3,4,7,8-PeCDF-13C	2.00	59
Total TCDD	3.9	-----	1.00		1,2,3,7,8-PeCDD-13C	2.00	67
					1,2,3,4,7,8-HxCDF-13C	2.00	84
1,2,3,7,8-PeCDF	ND	-----	3.20		1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	ND	-----	2.20		2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	3.8	-----	2.70	J	1,2,3,7,8,9-HxCDF-13C	2.00	80
					1,2,3,4,7,8-HxCDD-13C	2.00	87
1,2,3,7,8-PeCDD	ND	-----	2.80		1,2,3,6,7,8-HxCDD-13C	2.00	93
Total PeCDD	ND	-----	2.80		1,2,3,4,6,7,8-HpCDF-13C	2.00	56
					1,2,3,4,7,8,9-HpCDF-13C	2.00	54
1,2,3,4,7,8-HxCDF	ND	-----	2.80		1,2,3,4,6,7,8-HpCDD-13C	2.00	60
1,2,3,6,7,8-HxCDF	ND	-----	3.70		OCDD-13C	4.00	43
2,3,4,6,7,8-HxCDF	ND	-----	3.20				
1,2,3,7,8,9-HxCDF	ND	-----	5.60		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	4.0	-----	3.80	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	4.70		2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	-----	3.90				
1,2,3,7,8,9-HxCDD	ND	-----	5.00				
Total HxCDD	8.3	-----	4.50				
1,2,3,4,6,7,8-HpCDF	8.5	-----	7.00		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	10.00		Equivalence: 4.9 ng/Kg		
Total HpCDF	8.5	-----	8.60		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	43.0	-----	9.10				
Total HpCDD	78.0	-----	9.10				
OCDF	20.0	-----	12.00				
OCDD	470.0	-----	26.00				

Results reported on a dry weight basis

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EMPC = Estimated Maximum Possible Concentration
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B = Less than 10 times higher than method blank level
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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	DUP		
Lab Sample ID	2081452		
Filename	V00729M		
Injected By	TM		
Total Amount Extracted	13.12 g	Matrix	SOIL
% Moisture	22.5	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/12/2000
CCal Filename(s)	V00729D & V00729O	Extracted	06/21/2000
Method Blank ID	BLANK-062100	Analyzed	07/29/2000 19:19

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.48		2,3,7,8-TCDF-13C	2.00	78
Total TCDF	ND	-----	0.48		2,3,7,8-TCDD-13C	2.00	69
					1,2,3,7,8-PeCDF-13C	2.00	62
2,3,7,8-TCDD	ND	-----	0.69		2,3,4,7,8-PeCDF-13C	2.00	53
Total TCDD	ND	-----	0.69		1,2,3,7,8-PeCDD-13C	2.00	59
					1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	-----	1.6	1.00	E	1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	ND	-----	0.94		2,3,4,6,7,8-HxCDF-13C	2.00	75
Total PeCDF	ND	-----	0.99		1,2,3,7,8,9-HxCDF-13C	2.00	73
					1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	ND	-----	1.60		1,2,3,6,7,8-HxCDD-13C	2.00	83
Total PeCDD	8.1	-----	1.60		1,2,3,4,6,7,8-HpCDF-13C	2.00	52
					1,2,3,4,7,8,9-HpCDF-13C	2.00	53
1,2,3,4,7,8-HxCDF	ND	-----	1.60		1,2,3,4,6,7,8-HpCDD-13C	2.00	58
1,2,3,6,7,8-HxCDF	ND	-----	1.40		OCDD-13C	4.00	49
2,3,4,6,7,8-HxCDF	ND	-----	2.10				
1,2,3,7,8,9-HxCDF	ND	-----	1.80		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.70		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	2.50		2,3,7,8-TCDD-37Cl4	0.20	72
1,2,3,6,7,8-HxCDD	9.2	-----	2.70				
1,2,3,7,8,9-HxCDD	-----	3.1	3.00	I			
Total HxCDD	78.0	-----	2.80				
1,2.3,4,6,7,8-HpCDF	ND	-----	3.10		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.20		Equivalence: 1.2 ng/Kg		
Total HpCDF	ND	-----	3.70		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	16.0	-----	6.20				
Total HpCDD	16.0	-----	6.20				
OCDF	ND	-----	5.50				
OCDD	78.0	-----	9.80				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX4		
Lab Sample ID	2082724		
Filename	V00728G		
Injected By	MASB		
Total Amount Extracted	12.74 g	Matrix	SOIL
% Moisture	19.6	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/13/2000
CCal Filename(s)	V00728A & V00728K	Extracted	06/19/2000
Method Blank ID	BLANK-061900	Analyzed	07/28/2000 09:49

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.38	2,3,7,8-TCDF-13C	2.00	69
Total TCDF	ND	-----	0.38	2,3,7,8-TCDD-13C	2.00	75
				1,2,3,7,8-PeCDF-13C	2.00	67
2,3,7,8-TCDD	ND	-----	0.35	2,3,4,7,8-PeCDF-13C	2.00	71
Total TCDD	ND	-----	0.35	1,2,3,7,8-PeCDD-13C	2.00	79
				1,2,3,4,7,8-HxCDF-13C	2.00	64
1,2,3,7,8-PeCDF	ND	-----	0.55	1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	ND	-----	0.45	2,3,4,6,7,8-HxCDF-13C	2.00	76
Total PeCDF	ND	-----	0.50	1,2,3,7,8,9-HxCDF-13C	2.00	78
				1,2,3,4,7,8-HxCDD-13C	2.00	83
1,2,3,7,8-PeCDD	ND	-----	0.59	1,2,3,6,7,8-HxCDD-13C	2.00	85
Total PeCDD	ND	-----	0.59	1,2,3,4,6,7,8-HpCDF-13C	2.00	72
				1,2,3,4,7,8,9-HpCDF-13C	2.00	74
1,2,3,4,7,8-HxCDF	ND	-----	0.75	1,2,3,4,6,7,8-HpCDD-13C	2.00	82
1,2,3,6,7,8-HxCDF	ND	-----	0.69	OCDD-13C	4.00	68
2,3,4,6,7,8-HxCDF	ND	-----	0.65			
1,2,3,7,8,9-HxCDF	ND	-----	0.60	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.67	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.97	2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	-----	0.94			
1,2,3,7,8,9-HxCDD	ND	-----	0.76			
Total HxCDD	ND	-----	0.89			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.53	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.30	Equivalence: 0.0037 ng/Kg		
Total HpCDF	ND	-----	0.90	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	1.80			
Total HpCDD	ND	-----	1.80			
OCDF	ND	-----	1.50			
OCDD	3.7	-----	2.40 BJ			

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
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B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

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Report No.....00-1033641

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX6 BASE		
Lab Sample ID	2082732		
Filename	V00728H		
Injected By	MASB		
Total Amount Extracted	12.85 g	Matrix	SOIL
% Moisture	19.4	Dilution	NA
Dry Weight Extracted	10.4 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/13/2000
CCal Filename(s)	V00728A & V00728K	Extracted	06/19/2000
Method Blank ID	BLANK-061900	Analyzed	07/28/2000 10:51

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.79		2,3,7,8-TCDF-13C	2.00	74
Total TCDF	ND	-----	0.79		2,3,7,8-TCDD-13C	2.00	78
					1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	ND	-----	0.82		2,3,4,7,8-PeCDF-13C	2.00	66
Total TCDD	ND	-----	0.82		1,2,3,7,8-PeCDD-13C	2.00	77
					1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	ND	-----	1.20		1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	ND	-----	0.92		2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	1.5	-----	1.10	J	1,2,3,7,8,9-HxCDF-13C	2.00	77
					1,2,3,4,7,8-HxCDD-13C	2.00	88
1,2,3,7,8-PeCDD	ND	-----	1.70		1,2,3,6,7,8-HxCDD-13C	2.00	88
Total PeCDD	ND	-----	1.70		1,2,3,4,6,7,8-HpCDF-13C	2.00	69
					1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	-----	4.8	0.72	E	1,2,3,4,6,7,8-HpCDD-13C	2.00	78
1,2,3,6,7,8-HxCDF	ND	-----	1.40		OCDD-13C	4.00	74
2,3,4,6,7,8-HxCDF	ND	-----	1.10				
1,2,3,7,8,9-HxCDF	ND	-----	1.40		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	2.0	-----	1.20	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.40		2,3,7,8-TCDD-37Cl4	0.20	81
1,2,3,6,7,8-HxCDD	ND	-----	1.50				
1,2,3,7,8,9-HxCDD	ND	-----	1.30				
Total HxCDD	16.0	-----	1.40				
1,2.3,4,6,7,8-HpCDF	-----	3.8	1.70	I	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.20		Equivalence: 0.51 ng/Kg		
Total HpCDF	7.8	-----	1.90		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	15.0	-----	2.50				
Total HpCDD	26.0	-----	2.50				
OCDF	14.0	-----	4.90				
OCDD	340.0	-----	4.80				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX12 MIDDLE		
Lab Sample ID	2082740		
Filename	V00728J		
Injected By	MASB		
Total Amount Extracted	12.62 g	Matrix	SOIL
% Moisture	19.1	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/13/2000
CCal Filename(s)	V00728A & V00728K	Extracted	06/19/2000
Method Blank ID	BLANK-061900	Analyzed	07/28/2000 14:02

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.27		2,3,7,8-TCDF-13C	2.00	75
Total TCDF	ND	-----	0.27		2,3,7,8-TCDD-13C	2.00	79
					1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	ND	-----	0.47		2,3,4,7,8-PeCDF-13C	2.00	70
Total TCDD	ND	-----	0.47		1,2,3,7,8-PeCDD-13C	2.00	77
					1,2,3,4,7,8-HxCDF-13C	2.00	73
1,2,3,7,8-PeCDF	ND	-----	0.31		1,2,3,6,7,8-HxCDF-13C	2.00	86
2,3,4,7,8-PeCDF	ND	-----	0.33		2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	ND	-----	0.32		1,2,3,7,8,9-HxCDF-13C	2.00	83
					1,2,3,4,7,8-HxCDD-13C	2.00	84
1,2,3,7,8-PeCDD	ND	-----	0.70		1,2,3,6,7,8-HxCDD-13C	2.00	95
Total PeCDD	ND	-----	0.70		1,2,3,4,6,7,8-HpCDF-13C	2.00	74
					1,2,3,4,7,8,9-HpCDF-13C	2.00	74
1,2,3,4,7,8-HxCDF	ND	-----	0.31		1,2,3,4,6,7,8-HpCDD-13C	2.00	83
1,2,3,6,7,8-HxCDF	ND	-----	0.42		OCDD-13C	4.00	74
2,3,4,6,7,8-HxCDF	ND	-----	0.45				
1,2,3,7,8,9-HxCDF	ND	-----	0.56		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	2.3	-----	0.44	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.10		2,3,7,8-TCDD-37Cl4	0.20	68
1,2,3,6,7,8-HxCDD	ND	-----	1.10				
1,2,3,7,8,9-HxCDD	ND	-----	0.88				
Total HxCDD	5.0	-----	1.00				
1,2,3,4,6,7,8-HpCDF	1.7	-----	0.90	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.00		Equivalence: 2.0 ng/Kg		
Total HpCDF	7.7	-----	1.50		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	17.0	-----	0.68				
Total HpCDD	32.0	-----	0.68				
OCDF	7.5	-----	1.50	J			
OCDD	1800.0	-----	2.40				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....00-1033641

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414

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Fax: 612- 607-6444

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX12 BASE		
Lab Sample ID	2082757		
Filename	V00728N		
Injected By	DGP		
Total Amount Extracted	13.08 g	Matrix	SOIL
% Moisture	21.8	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/13/2000
CCal Filename(s)	V00728K & V00728W	Extracted	06/19/2000
Method Blank ID	BLANK-061900	Analyzed	07/28/2000 18:56

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.74		2,3,7,8-TCDF-13C	2.00	78
Total TCDF	ND	-----	0.74		2,3,7,8-TCDD-13C	2.00	79
					1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	1.2	-----	0.73		2,3,4,7,8-PeCDF-13C	2.00	66
Total TCDD	1.2	-----	0.73		1,2,3,7,8-PeCDD-13C	2.00	77
					1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	-----	7.4	0.50	E	1,2,3,6,7,8-HxCDF-13C	2.00	80
2,3,4,7,8-PeCDF	ND	-----	1.10		2,3,4,6,7,8-HxCDF-13C	2.00	78
Total PeCDF	ND	-----	0.78		1,2,3,7,8,9-HxCDF-13C	2.00	72
					1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	ND	-----	0.76		1,2,3,6,7,8-HxCDD-13C	2.00	92
Total PeCDD	5.4	-----	0.76		1,2,3,4,6,7,8-HpCDF-13C	2.00	61
					1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	ND	-----	1.90		1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,6,7,8-HxCDF	ND	-----	1.90		OCDD-13C	4.00	71
2,3,4,6,7,8-HxCDF	ND	-----	2.10				
1,2,3,7,8,9-HxCDF	ND	-----	2.50		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	2.10		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.30		2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	ND	-----	1.20				
1,2,3,7,8,9-HxCDD	ND	-----	1.20				
Total HxCDD	25.0	-----	1.20				
1,2.3,4,6,7,8-HpCDF	ND	-----	2.40		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	3.90		Equivalence: 1.4 ng/Kg		
Total HpCDF	6.9	-----	3.10		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	12.0	-----	2.30				
Total HpCDD	22.0	-----	2.30				
OCDF	ND	-----	7.20				
OCDD	120.0	-----	3.50				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
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B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
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Report No.....00-1033641

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX14 MIDDLE		
Lab Sample ID	2082765		
Filename	V00728I		
Injected By	MASB		
Total Amount Extracted	12.57 g	Matrix	SOIL
% Moisture	18.3	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	06/09/2000
ICAL Date	07/12/2000	Received	06/13/2000
CCal Filename(s)	V00728A & V00728K	Extracted	06/19/2000
Method Blank ID	BLANK-061900	Analyzed	07/28/2000 13:01

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.49		2,3,7,8-TCDF-13C	2.00	38	P
Total TCDF	ND	-----	0.49		2,3,7,8-TCDD-13C	2.00	40	
					1,2,3,7,8-PeCDF-13C	2.00	44	
2,3,7,8-TCDD	ND	-----	0.72		2,3,4,7,8-PeCDF-13C	2.00	43	
Total TCDD	ND	-----	0.72		1,2,3,7,8-PeCDD-13C	2.00	46	
					1,2,3,4,7,8-HxCDF-13C	2.00	38	P
1,2,3,7,8-PeCDF	ND	-----	0.71		1,2,3,6,7,8-HxCDF-13C	2.00	41	
2,3,4,7,8-PeCDF	ND	-----	0.50		2,3,4,6,7,8-HxCDF-13C	2.00	41	
Total PeCDF	ND	-----	0.61		1,2,3,7,8,9-HxCDF-13C	2.00	41	
					1,2,3,4,7,8-HxCDD-13C	2.00	42	
1,2,3,7,8-PeCDD	ND	-----	0.58		1,2,3,6,7,8-HxCDD-13C	2.00	45	
Total PeCDD	2.0	-----	0.58	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	40	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	43	
1,2,3,4,7,8-HxCDF	ND	-----	0.89		1,2,3,4,6,7,8-HpCDD-13C	2.00	48	
1,2,3,6,7,8-HxCDF	ND	-----	0.69		OCDD-13C	4.00	46	
2,3,4,6,7,8-HxCDF	ND	-----	0.64					
1,2,3,7,8,9-HxCDF	ND	-----	0.43		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	0.66		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	1.10		2,3,7,8-TCDD-37Cl4	0.20	35	
1,2,3,6,7,8-HxCDD	ND	-----	1.00					
1,2,3,7,8,9-HxCDD	ND	-----	0.81					
Total HxCDD	3.9	-----	0.98	J				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.40		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	1.50		Equivalence: 0.0050 ng/Kg			
Total HpCDF	ND	-----	0.93		(Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	ND	-----	1.30					
Total HpCDD	ND	-----	1.30					
OCDF	ND	-----	1.30					
OCDD	5.0	-----	2.10	BJ				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....00-1033641

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX7		
Lab Sample ID	2145356		
Filename	V00731E		
Injected By	DGP		
Total Amount Extracted	13.09 g	Matrix	SOIL
% Moisture	17.8	Dilution	NA
Dry Weight Extracted	10.8 g	Collected	07/13/2000
ICAL Date	07/12/2000	Received	07/14/2000
CCal Filename(s)	V00731C & V00731M	Extracted	07/20/2000
Method Blank ID	BLANK-072000	Analyzed	07/31/2000 12:54

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	----	0.83		2,3,7,8-TCDF-13C	2.00	62	
Total TCDF	ND	----	0.83		2,3,7,8-TCDD-13C	2.00	67	N2
					1,2,3,7,8-PeCDF-13C	2.00	82	
2,3,7,8-TCDD	ND	----	4.40	N2	2,3,4,7,8-PeCDF-13C	2.00	79	
Total TCDD	ND	----	3.50		1,2,3,7,8-PeCDD-13C	2.00	91	
					1,2,3,4,7,8-HxCDF-13C	2.00	82	
1,2,3,7,8-PeCDF	ND	----	2.00		1,2,3,6,7,8-HxCDF-13C	2.00	81	
2,3,4,7,8-PeCDF	ND	----	1.90		2,3,4,6,7,8-HxCDF-13C	2.00	79	
Total PeCDF	ND	----	1.90		1,2,3,7,8,9-HxCDF-13C	2.00	73	
					1,2,3,4,7,8-HxCDD-13C	2.00	82	
1,2,3,7,8-PeCDD	ND	----	3.80		1,2,3,6,7,8-HxCDD-13C	2.00	87	
Total PeCDD	ND	----	3.80		1,2,3,4,6,7,8-HpCDF-13C	2.00	66	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	65	
1,2,3,4,7,8-HxCDF	ND	----	1.80		1,2,3,4,6,7,8-HpCDD-13C	2.00	77	
1,2,3,6,7,8-HxCDF	ND	----	2.30		OCDD-13C	4.00	61	
2,3,4,6,7,8-HxCDF	ND	----	2.20					
1,2,3,7,8,9-HxCDF	ND	----	3.80		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	----	2.50		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	----	1.80		2,3,7,8-TCDD-37Cl4	0.20	77	
1,2,3,6,7,8-HxCDD	ND	----	1.80					
1,2,3,7,8,9-HxCDD	ND	----	2.50					
Total HxCDD	ND	----	2.00					
1,2.3,4,6,7,8-HpCDF	ND	----	4.70		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	----	7.80		Equivalence: 0.095 ng/Kg			
Total HpCDF	ND	----	6.20		(Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	ND	----	7.00					
Total HpCDD	ND	----	7.00					
OCDF	ND	----	7.10					
OCDD	95	----	8.00					

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection. Totals are averages of individual isomer LODs.
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range of 40-135%
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....1034661

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Tel: 612-607-1700
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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX11 BASE		
Lab Sample ID	2145364		
Filename	V00731F		
Injected By	DGP		
Total Amount Extracted	13.21 g	Matrix	SOIL
% Moisture	23.1	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	07/13/2000
ICAL Date	07/12/2000	Received	07/14/2000
CCal Filename(s)	V00731C & V00731M	Extracted	07/20/2000
Method Blank ID	BLANK-072000	Analyzed	07/31/2000 13:58

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.95	2,3,7,8-TCDF-13C	2.00	34 IP
Total TCDF	ND	-----	0.95	2,3,7,8-TCDD-13C	2.00	72
				1,2,3,7,8-PeCDF-13C	2.00	94
2,3,7,8-TCDD	ND	-----	1.30	2,3,4,7,8-PeCDF-13C	2.00	90
Total TCDD	ND	-----	1.30	1,2,3,7,8-PeCDD-13C	2.00	92
				1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	ND	-----	0.91	1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	ND	-----	1.20	2,3,4,6,7,8-HxCDF-13C	2.00	82
Total PeCDF	ND	-----	1.00	1,2,3,7,8,9-HxCDF-13C	2.00	80
				1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	ND	-----	1.10	1,2,3,6,7,8-HxCDD-13C	2.00	81
Total PeCDD	7.0	-----	1.10	1,2,3,4,6,7,8-HpCDF-13C	2.00	72
				1,2,3,4,7,8,9-HpCDF-13C	2.00	71
1,2,3,4,7,8-HxCDF	ND	-----	0.81	1,2,3,4,6,7,8-HpCDD-13C	2.00	80
1,2,3,6,7,8-HxCDF	ND	-----	1.20	OCDD-13C	4.00	66
2,3,4,6,7,8-HxCDF	ND	-----	1.10			
1,2,3,7,8,9-HxCDF	ND	-----	1.10	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.00	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.80	2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,6,7,8-HxCDD	ND	-----	1.40			
1,2,3,7,8,9-HxCDD	ND	-----	1.50			
Total HxCDD	ND	-----	1.60			
1,2,3,4,6,7,8-HpCDF	ND	-----	1.40	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.10	Equivalence: 0.025 ng/Kg		
Total HpCDF	ND	-----	1.70	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	-----	2.1	2.10 I			
Total HpCDD	ND	-----	2.10			
OCDF	ND	-----	3.10			
OCDD	25.0	-----	2.00			

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....1034461

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Method 8290 Analysis Results

Client - QAS

Client's Sample ID	EX11 SURFACE		
Lab Sample ID	2145372		
Filename	V00731G		
Injected By	DGP		
Total Amount Extracted	11.56 g	Matrix	SOIL
% Moisture	8.7	Dilution	NA
Dry Weight Extracted	10.6 g	Collected	07/13/2000
ICAL Date	07/12/2000	Received	07/14/2000
CCal Filename(s)	V00731C	Extracted	07/20/2000
Method Blank ID	BLANK-072000	Analyzed	07/31/2000 15:03

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	12.0	2,3,7,8-TCDF-13C	2.00	64
Total TCDF	ND	-----	12.0	2,3,7,8-TCDD-13C	2.00	49
				1,2,3,7,8-PeCDF-13C	2.00	47
2,3,7,8-TCDD	10	-----	8.4	2,3,4,7,8-PeCDF-13C	2.00	44
Total TCDD	10	-----	8.4	1,2,3,7,8-PeCDD-13C	2.00	45
				1,2,3,4,7,8-HxCDF-13C	2.00	73
1,2,3,7,8-PeCDF	ND	-----	17.0	1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	ND	-----	19.0	2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF	ND	-----	18.0	1,2,3,7,8,9-HxCDF-13C	2.00	72
				1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	-----	16.0	1,2,3,6,7,8-HxCDD-13C	2.00	82
Total PeCDD	ND	-----	16.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	48
				1,2,3,4,7,8,9-HpCDF-13C	2.00	54
1,2,3,4,7,8-HxCDF	ND	-----	16.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	57
1,2,3,6,7,8-HxCDF	ND	-----	14.0	OCDD-13C	4.00	49
2,3,4,6,7,8-HxCDF	ND	-----	14.0			
1,2,3,7,8,9-HxCDF	ND	-----	19.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	44	-----	16.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	23.0	2,3,7,8-TCDD-37Cl4	0.20	299
1,2,3,6,7,8-HxCDD	ND	-----	17.0			
1,2,3,7,8,9-HxCDD	ND	-----	22.0			
Total HxCDD	ND	-----	21.0			
1,2,3,4,6,7,8-HpCDF	62	-----	36.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	51.0	Equivalence: 18 ng/Kg		
Total HpCDF	280	-----	44.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	300	-----	25.0			
Total HpCDD	530	-----	25.0			
OCDF	470	-----	68.0			
OCDD	3300	-----	70.0			

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....103461

REPORT OF LABORATORY ANALYSIS

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Tel: 612-607-1700
Fax: 612-607-6444

Pace Analytical™

Method 8290 Laboratory Control Spike Results

Client - QAS

Lab Sample ID	SPIKE-061900		
Filename	V00622D	Matrix	SOLID
Total Amount Extracted	10.27 g	Dilution	NA
ICAL Date	NA	Extracted	06/19/2000
CCal Filename(s)	V00622C & V00622K	Analyzed	06/22/2000 11:38
Method Blank ID	BLANK-061900	Injected By	DGP

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.20	98	2,3,7,8-TCDF-13C	2.00	72
				2,3,7,8-TCDD-13C	2.00	83
				1,2,3,7,8-PeCDF-13C	2.00	65
2,3,7,8-TCDD	0.20	0.18	91	2,3,4,7,8-PeCDF-13C	2.00	76
				1,2,3,7,8-PeCDD-13C	2.00	79
				1,2,3,4,7,8-HxCDF-13C	2.00	60
1,2,3,7,8-PeCDF	1.00	1.00	100	1,2,3,6,7,8-HxCDF-13C	2.00	66
2,3,4,7,8-PeCDF	1.00	0.96	96	2,3,4,6,7,8-HxCDF-13C	2.00	82
				1,2,3,7,8,9-HxCDF-13C	2.00	79
				1,2,3,4,7,8-HxCDD-13C	2.00	90
1,2,3,7,8-PeCDD	1.00	1.01	101	1,2,3,6,7,8-HxCDD-13C	2.00	84
				1,2,3,4,6,7,8-HpCDF-13C	2.00	70
				1,2,3,4,7,8,9-HpCDF-13C	2.00	66
1,2,3,4,7,8-HxCDF	1.00	0.93	93	1,2,3,4,6,7,8-HpCDD-13C	2.00	76
1,2,3,6,7,8-HxCDF	1.00	1.08	108	OCDD-13C	4.00	56
2,3,4,6,7,8-HxCDF	1.00	0.99	99			
1,2,3,7,8,9-HxCDF	1.00	1.01	101	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	0.97	97	2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	1.00	0.90	90			
1,2,3,7,8,9-HxCDD	1.00	0.94	94			
1,2,3,4,6,7,8-HpCDF	1.00	0.97	97			
1,2,3,4,7,8,9-HpCDF	1.00	1.00	100			
1,2,3,4,6,7,8-HpCDD	1.00	0.98	98			
OCDF	2.00	1.95	97			
OCDD	2.00	2.02	101			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Outside the 40-135% target recovery range
X = Background subtracted value
NA = Not Applicable

Report No.....00-1033641

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Client - QAS

Lab Sample ID	SPIKE-062100		
Filename	V00717E	Matrix	SOLID
Total Amount Extracted	10.33 g	Dilution	NA
ICAL Date	07/12/2000	Extracted	06/21/2000
CCal Filename(s)	V00717B & V00717M	Analyzed	07/17/2000 12:51
Method Blank ID	BLANK-062100	Injected By	DGP

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.18	90	2,3,7,8-TCDF-13C	2.00	74
				2,3,7,8-TCDD-13C	2.00	77
				1,2,3,7,8-PeCDF-13C	2.00	70
2,3,7,8-TCDD	0.20	0.18	92	2,3,4,7,8-PeCDF-13C	2.00	87
				1,2,3,7,8-PeCDD-13C	2.00	88
				1,2,3,4,7,8-HxCDF-13C	2.00	67
1,2,3,7,8-PeCDF	1.00	0.89	89	1,2,3,6,7,8-HxCDF-13C	2.00	54
2,3,4,7,8-PeCDF	1.00	0.89	89	2,3,4,6,7,8-HxCDF-13C	2.00	73
				1,2,3,7,8,9-HxCDF-13C	2.00	76
				1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	1.00	0.90	90	1,2,3,6,7,8-HxCDD-13C	2.00	77
				1,2,3,4,6,7,8-HpCDF-13C	2.00	77
				1,2,3,4,7,8,9-HpCDF-13C	2.00	81
1,2,3,4,7,8-HxCDF	1.00	0.85	85	1,2,3,4,6,7,8-HpCDD-13C	2.00	82
1,2,3,6,7,8-HxCDF	1.00	0.98	98	OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	1.00	0.89	89			
1,2,3,7,8,9-HxCDF	1.00	0.87	87	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	0.88	88	2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,6,7,8-HxCDD	1.00	0.89	89			
1,2,3,7,8,9-HxCDD	1.00	0.88	88			
1,2,3,4,6,7,8-HpCDF	1.00	0.89	89			
1,2,3,4,7,8,9-HpCDF	1.00	0.88	88			
1,2,3,4,6,7,8-HpCDD	1.00	0.86	86			
OCDF	2.00	1.55	78			
OCDD	2.00	1.76	88			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Outside the 40-135% target recovery range
X = Background subtracted value
NA = Not Applicable

Report No.....00-1033617

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Method 8290 Laboratory Control Spike Results

Client - QAS

Lab Sample ID	SPIKE-062700		
Filename	V00721M	Matrix	SOLID
Total Amount Extracted	10.09 g	Dilution	NA
ICAL Date	07/12/2000	Extracted	06/27/2000
CCal Filename(s)	V00721I & V00721U	Analyzed	07/22/2000 04:24
Method Blank ID	BLANK-062700	Injected By	BAL

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.23	116	2,3,7,8-TCDF-13C	2.00	109
				2,3,7,8-TCDD-13C	2.00	107
				1,2,3,7,8-PeCDF-13C	2.00	120
2,3,7,8-TCDD	0.20	0.23	114	2,3,4,7,8-PeCDF-13C	2.00	126
				1,2,3,7,8-PeCDD-13C	2.00	125
				1,2,3,4,7,8-HxCDF-13C	2.00	73
1,2,3,7,8-PeCDF	1.00	1.17	117	1,2,3,6,7,8-HxCDF-13C	2.00	115
2,3,4,7,8-PeCDF	1.00	1.14	114	2,3,4,6,7,8-HxCDF-13C	2.00	111
				1,2,3,7,8,9-HxCDF-13C	2.00	112
				1,2,3,4,7,8-HxCDD-13C	2.00	111
1,2,3,7,8-PeCDD	1.00	1.15	115	1,2,3,6,7,8-HxCDD-13C	2.00	112
				1,2,3,4,6,7,8-HpCDF-13C	2.00	114
				1,2,3,4,7,8,9-HpCDF-13C	2.00	121
1,2,3,4,7,8-HxCDF	1.00	1.20	120	1,2,3,4,6,7,8-HpCDD-13C	2.00	118
1,2,3,6,7,8-HxCDF	1.00	1.09	109	OCDD-13C	4.00	99
2,3,4,6,7,8-HxCDF	1.00	1.14	114			
1,2,3,7,8,9-HxCDF	1.00	1.13	113	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.12	112	2,3,7,8-TCDD-37Cl4	0.20	111
1,2,3,6,7,8-HxCDD	1.00	1.18	118			
1,2,3,7,8,9-HxCDD	1.00	1.13	113			
1,2,3,4,6,7,8-HpCDF	1.00	1.13	113			
1,2,3,4,7,8,9-HpCDF	1.00	1.10	110			
1,2,3,4,6,7,8-HpCDD	1.00	1.17	117			
OCDF	2.00	2.26	113			
OCDD	2.00	2.26	113			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Outside the 40-135% target recovery range
X = Background subtracted value
NA = Not Applicable

Report No.....00-1033617

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Method 8290 Laboratory Control Spike Results

Client - QAS

Lab Sample ID	SPIKE-062700-DUP		
Filename	V00721N	Matrix	SOLID
Total Amount Extracted	10.06 g	Dilution	NA
ICAL Date	07/12/2000	Extracted	06/27/2000
CCal Filename(s)	V00721I & V00721U	Analyzed	07/22/2000 05:26
Method Blank ID	V0020D	Injected By	SEM

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	105	2,3,7,8-TCDF-13C	2.00	113
				2,3,7,8-TCDD-13C	2.00	109
				1,2,3,7,8-PeCDF-13C	2.00	142 P
2,3,7,8-TCDD	0.20	0.21	104	2,3,4,7,8-PeCDF-13C	2.00	148 P
				1,2,3,7,8-PeCDD-13C	2.00	143 P
				1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	1.00	1.08	108	1,2,3,6,7,8-HxCDF-13C	2.00	111
2,3,4,7,8-PeCDF	1.00	1.04	104	2,3,4,6,7,8-HxCDF-13C	2.00	109
				1,2,3,7,8,9-HxCDF-13C	2.00	107
				1,2,3,4,7,8-HxCDD-13C	2.00	108
1,2,3,7,8-PeCDD	1.00	1.04	104	1,2,3,6,7,8-HxCDD-13C	2.00	114
				1,2,3,4,6,7,8-HpCDF-13C	2.00	107
				1,2,3,4,7,8,9-HpCDF-13C	2.00	114
1,2,3,4,7,8-HxCDF	1.00	1.09	109	1,2,3,4,6,7,8-HpCDD-13C	2.00	117
1,2,3,6,7,8-HxCDF	1.00	0.98	98	OCDD-13C	4.00	92
2,3,4,6,7,8-HxCDF	1.00	1.04	104			
1,2,3,7,8,9-HxCDF	1.00	1.03	103	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.00	100	2,3,7,8-TCDD-37Cl4	0.20	115
1,2,3,6,7,8-HxCDD	1.00	1.03	103			
1,2,3,7,8,9-HxCDD	1.00	0.99	99			
1,2,3,4,6,7,8-HpCDF	1.00	1.02	102			
1,2,3,4,7,8,9-HpCDF	1.00	0.99	99			
1,2,3,4,6,7,8-HpCDD	1.00	1.00	100			
OCDF	2.00	1.92	96			
OCDD	2.00	2.00	100			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Outside the 40-135% target recovery range
X = Background subtracted value
NA = Not Applicable

Report No.....00-1033617

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Method 8290 Spike Sample Results

Client - QAS

Client's Sample ID	EX2-MS		
Lab Sample ID	2081270-MS		
Filename	V00728C	Matrix	SOIL
Total Amount Extracted	10.7 g	Dilution	NA
ICAL Date	07/12/2000	Extracted	06/21/2000
CCal Filename(s)	V00728A & V00728K	Analyzed	07/28/2000 05:04
Method Blank ID	BLANK-062100	Injected By	MCH

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	105	2,3,7,8-TCDF-13C	2.00	71
				2,3,7,8-TCDD-13C	2.00	75
				1,2,3,7,8-PeCDF-13C	2.00	71
2,3,7,8-TCDD	0.20	0.19	94	2,3,4,7,8-PeCDF-13C	2.00	77
				1,2,3,7,8-PeCDD-13C	2.00	83
				1,2,3,4,7,8-HxCDF-13C	2.00	57
1,2,3,7,8-PeCDF	1.00	0.98	98	1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	1.00	0.95	95	2,3,4,6,7,8-HxCDF-13C	2.00	74
				1,2,3,7,8,9-HxCDF-13C	2.00	76
				1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	1.00	0.94	94	1,2,3,6,7,8-HxCDD-13C	2.00	81
				1,2,3,4,6,7,8-HpCDF-13C	2.00	76
				1,2,3,4,7,8,9-HpCDF-13C	2.00	86
1,2,3,4,7,8-HxCDF	1.00	0.89	89	1,2,3,4,6,7,8-HpCDD-13C	2.00	92
1,2,3,6,7,8-HxCDF	1.00	1.00	100	OCDD-13C	4.00	95
2,3,4,6,7,8-HxCDF	1.00	0.95	95			
1,2,3,7,8,9-HxCDF	1.00	0.95	95	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	0.97	97	2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	1.00	0.94	94			
1,2,3,7,8,9-HxCDD	1.00	0.94	94			
1,2,3,4,6,7,8-HpCDF	1.00	0.93	93			
1,2,3,4,7,8,9-HpCDF	1.00	0.91	91			
1,2,3,4,6,7,8-HpCDD	1.00	0.92	92			
OCDF	2.00	1.73	87			
OCDD	2.00	1.90	95			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range of 40-135%
X = Background subtracted value
E = PCDE Interference
Nn = Value obtained from additional analysis
NA = Not Applicable

Report No.....00-1033617

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Method 8290 Spike Sample Results

Client - QAS

Client's Sample ID	EX2-MSD		
Lab Sample ID	2081270-MSD		
Filename	V00728D	Matrix	SOIL
Total Amount Extracted	10.55 g	Dilution	NA
ICAL Date	07/12/2000	Extracted	06/21/2000
CCal Filename(s)	V00728A & V00728K	Analyzed	07/28/2000 06:09
Method Blank ID	BLANK-062100	Injected By	MCH

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	107	2,3,7,8-TCDF-13C	2.00	36 P
				2,3,7,8-TCDD-13C	2.00	42
				1,2,3,7,8-PeCDF-13C	2.00	38 IP
2,3,7,8-TCDD	0.20	0.21	104	2,3,4,7,8-PeCDF-13C	2.00	41
				1,2,3,7,8-PeCDD-13C	2.00	43
				1,2,3,4,7,8-HxCDF-13C	2.00	29 IP
1,2,3,7,8-PeCDF	1.00	1.02	102	1,2,3,6,7,8-HxCDF-13C	2.00	36 IP
2,3,4,7,8-PeCDF	1.00	0.98	98	2,3,4,6,7,8-HxCDF-13C	2.00	40
				1,2,3,7,8,9-HxCDF-13C	2.00	40
				1,2,3,4,7,8-HxCDD-13C	2.00	43
1,2,3,7,8-PeCDD	1.00	0.99	99	1,2,3,6,7,8-HxCDD-13C	2.00	47
				1,2,3,4,6,7,8-HpCDF-13C	2.00	43
				1,2,3,4,7,8,9-HpCDF-13C	2.00	44
1,2,3,4,7,8-HxCDF	1.00	0.94	94	1,2,3,4,6,7,8-HpCDD-13C	2.00	48
1,2,3,6,7,8-HxCDF	1.00	1.06	106	OCDD-13C	4.00	47
2,3,4,6,7,8-HxCDF	1.00	1.00	100			
1,2,3,7,8,9-HxCDF	1.00	1.00	100	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.03	103	2,3,7,8-TCDD-37Cl4	0.20	52
1,2,3,6,7,8-HxCDD	1.00	0.92	92			
1,2,3,7,8,9-HxCDD	1.00	0.91	91			
1,2,3,4,6,7,8-HpCDF	1.00	0.99	99			
1,2,3,4,7,8,9-HpCDF	1.00	0.97	97			
1,2,3,4,6,7,8-HpCDD	1.00	0.98	98			
OCDF	2.00	1.80	90			
OCDD	2.00	2.01	101			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range of 40-135%
X = Background subtracted value
E = PCDE Interference
Nn = Value obtained from additional analysis
NA = Not Applicable

Report No.....00-1033617

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MS/MSD RECOVERY RELATIVE PERCENT DIFFERENCE (RPD) RESULTS

Client..... QAS

MS ID..... EX2-MS
MS Filename..... V00728C
MSD ID..... EX2-MSD
MSD Filename..... V00728D

COMPOUND	MS REC,%	MSD REC,%	RPD,%
2378-TCDF	105	107	1.9
2378-TCDD	94	104	10.1
12378-PeCDF	98	102	4.0
23478-PeCDF	95	98	3.1
12378-PeCDD	94	99	5.2
123478-HxCDF	89	94	5.5
123678-HxCDF	100	106	5.8
234678-HxCDF	95	100	5.1
123789-HxCDF	95	100	5.1
123478-HxCDD	97	103	6.0
123678-HxCDD	94	92	2.2
123789-HxCDD	94	91	3.2
1234678-HpCDF	93	99	6.3
1234789-HpCDF	91	97	6.4
1234678-HpCDD	92	98	6.3
OCDF	87	90	3.4
OCDD	95	101	6.1

REC = Percent Recovered
RPD = The difference between the two values divided by the average.
NA = Not Applicable
MS = Matrix Spike
MSD = Matrix Spike Duplicate

Report No..... 00-1033617

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Method 8290 Laboratory Control Spike Results

Client - QAS

Lab Sample ID	SPIKE-072000		
Filename	V00801E	Matrix	SOLID
Total Amount Extracted	1000 mL	Dilution	NA
ICAL Date	07/12/2000	Extracted	07/20/2000
CCal Filename(s)	V00801C	Analyzed	08/01/2000 12:25
Method Blank ID	BLANK-072000	Injected By	DGP

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.22	110	2,3,7,8-TCDF-13C	1.00	71
				2,3,7,8-TCDD-13C	1.00	79
				1,2,3,7,8-PeCDF-13C	1.00	81
2,3,7,8-TCDD	0.20	0.20	102	2,3,4,7,8-PeCDF-13C	1.00	79
				1,2,3,7,8-PeCDD-13C	1.00	72
				1,2,3,4,7,8-HxCDF-13C	1.00	•57
1,2,3,7,8-PeCDF	1.00	1.18	118	1,2,3,6,7,8-HxCDF-13C	1.00	82
2,3,4,7,8-PeCDF	1.00	1.14	114	2,3,4,6,7,8-HxCDF-13C	1.00	82
				1,2,3,7,8,9-HxCDF-13C	1.00	83
				1,2,3,4,7,8-HxCDD-13C	1.00	90
1,2,3,7,8-PeCDD	1.00	1.15	115	1,2,3,6,7,8-HxCDD-13C	1.00	93
				1,2,3,4,6,7,8-HpCDF-13C	1.00	90
				1,2,3,4,7,8,9-HpCDF-13C	1.00	90
1,2,3,4,7,8-HxCDF	1.00	1.22	122	1,2,3,4,6,7,8-HpCDD-13C	1.00	100
1,2,3,6,7,8-HxCDF	1.00	1.20	120	OCDD-13C	2.00	100
2,3,4,6,7,8-HxCDF	1.00	1.18	118			
1,2,3,7,8,9-HxCDF	1.00	1.20	120	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.13	113	2,3,7,8-TCDD-37Cl4	0.20	81
1,2,3,6,7,8-HxCDD	1.00	1.17	117			
1,2,3,7,8,9-HxCDD	1.00	1.17	117			
1,2,3,4,6,7,8-HpCDF	1.00	1.17	117			
1,2,3,4,7,8,9-HpCDF	1.00	1.17	117			
1,2,3,4,6,7,8-HpCDD	1.00	1.16	116			
OCDF	2.00	2.17	108			
OCDD	2.00	2.35	118			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Outside the 40-135% target recovery range
X = Background subtracted value
NA = Not Applicable

Report No.....00-1034661

REPORT OF LABORATORY ANALYSIS

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