

Chemical Analysis Report

CEN-DIST-2007-06-27-01

Florida Department of Environmental Protection
Innovation Park Laboratory
2051 E. Paul Dirac Dr.
Tallahassee, FL 32310
DOH Accreditation E31640


Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Waste samples**
Request ID: **RQ-2007-06-18-39**
Customer: **CEN-DIST**
Project ID: **OTHER-WSM**

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Date Certified: 14-AUG-2007 10:38

Certified by: Kathryn Brackett


NON-COMFORMANCE REPORT INCLUDED

Abbreviations and data remark codes

CERT # - NELAP (National Environmental Laboratory Accreditation Program) Certification Number of the laboratory that performed the analysis:

- LCS - Laboratory Control Sample; in the QC Failures column, this notation indicates a batch recovery failure.
- MS - Matrix Spike; in the QC Failures column, this notation indicates a batch recovery failure.
- RPD - Relative Percent Difference; in the QC Failures column, this notation indicates a batch failure for precision.
- CCV - Continuing Calibration Verification; in the QC Failures column, this notation indicates a batch recovery failure.
- RSD - Relative Standard Deviation expressed as a percentage.
- SMP - Sample.
- * - Item was outside the QC Limits.

A - Value reported is the mean of two or more determinations

B - Results based on colony counts outside the acceptable range.

I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J - Estimated value

K - Actual value is known to be less than value given

L - Actual value is known to be greater than value given

N - Presumptive evidence of presence of material.

O - Sampled, but analysis lost or not performed.

Q - Sample held beyond normal holding time.

T - Value reported is less than the criterion of detection.

U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.

V - Analyte was detected in both sample and method blank.

X - Too few individuals to calculate SCI value.

Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate

Z - Colonies were too numerous to count (TNTC).

Precision is reported as relative percent difference unless otherwise noted.

Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published test performance acceptance criteria.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

All sample collection performed by Bureau of Laboratories staff followed the field Standard Operating Procedures adopted by reference in Rule 62-160 FAC unless otherwise noted.

Results for NELAP accredited tests contained in this report meet the requirements specified by the National Environmental Laboratory Accreditation Conference (NELAC). All samples received were in acceptable condition and met NELAC requirements unless otherwise noted. Results generated in this report pertain to the samples collected and submitted for analysis.

Job: TLH-2007-06-27-37	Group: Priority Organic Pollutants
Job: TLH-2007-06-27-38	Group: Metals
Job: TLH-2007-06-27-39	Group: Priority Organic Pollutants
Job: TLH-2007-06-27-40	Group: Priority Organic Pollutants
Job: TLH-2007-06-27-41	Group: Metals
Job: TLH-2007-06-27-42	Group: Priority Organic Pollutants

Collection Date/Time: 6/26/2007 12:38:00 PM

Sample Location: SAFETY KLEEN

Field ID: CUP TANK (SK1)

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1021856	EPA 1311/ 625/8270	gamma-BHC	6.0E+03	U		ug/L	E31780
		m,p-Cresols	4.0E+04	U		ug/L	
		o-Cresol	4.0E+04	U		ug/L	
		2,4-Dinitrotoluene	4.0E+03	U		ug/L	
		Endrn	6.0E+03	U		ug/L	
		Hexachlorobenzene	4.0E+03	U		ug/L	
		Hexachlorobutadiene	6.0E+04	U		ug/L	
		Hexachloroethane	6.0E+04	U		ug/L	
		Nitrobenzene	4.0E+04	U		ug/L	
		Pentachlorophenol	1.2E+04	U		ug/L	
		2,4,5-Trichlorophenol	4.0E+03	U	RPD	ug/L	
		2,4,6-Trichlorophenol	4.0E+03	U		ug/L	
		Pyridine	1.6E+04	U	CCV,MS	ug/L	
EPA 8270C		Acenaphthene	1.8E+04	U		ug/L	
		Acenaphthylene	1.8E+04	U		ug/L	
		Aldrin	1.8E+04	U		ug/L	
		Anthracene	1.8E+04	U		ug/L	
		Azobenzene/1,2-Diphenylhydrazine	1.8E+04	U		ug/L	
		Benzidine	3.9E+05	U		ug/L	
		Benzo(a)anthracene	1.8E+04	U		ug/L	
		Benzo(a)pyrene	1.8E+04	U		ug/L	
		Benzo(b)fluoranthene	1.8E+04	U		ug/L	
		Benzo(k)fluoranthene	1.8E+04	U		ug/L	
		Benzo(g,h,i)perylene	1.8E+04	U		ug/L	
		alpha-BHC	1.8E+04	U		ug/L	
		beta-BHC	1.8E+04	U		ug/L	
		gamma-BHC	1.8E+04	U		ug/L	
		delta-BHC	1.8E+04	U		ug/L	
		Bis(2-chloroethoxy)methane	9.0E+04	U		ug/L	
		Bis(2-chloroethyl)ether	1.8E+04	U		ug/L	
		Bis(2-chloroisopropyl)ether	1.8E+04	U		ug/L	
		Bis(2-ethylhexyl)phthalate	1.1E+05	U		ug/L	
		Butyl benzyl phthalate	1.8E+04	U		ug/L	
		4-Bromophenyl phenyl ether	1.8E+04	U		ug/L	
		2-Chloronaphthalene	1.8E+04	U		ug/L	
		4-Chlorophenyl phenyl ether	1.8E+04	U		ug/L	
		Chrysene	1.8E+04	U		ug/L	
		m,p-Cresols	9.0E+04	U		ug/L	
		o-Cresol	1.8E+04	U		ug/L	
		4,4'-DDD	1.8E+04	U		ug/L	

Matrix: WAS-LIQUID

4,4'-DDE	1.8E+04	U	ug/kg
4,4'-DDT	1.8E+04	U	ug/kg
D,n-butyl phthalate	1.1E+05	U	ug/kg
D,n-octyl phthalate	1.8E+04	U	ug/kg
Dibenzo(a,h)anthracene	1.8E+04	U	ug/kg
3,3'-Dichlorobenzidine	1.1E+06	U	ug/kg
Diethrin	1.8E+04	U	ug/kg
Diethyl phthalate	1.8E+04	U	ug/kg
Dimethyl phthalate	1.8E+04	U	ug/kg
2,4-Dinitrotoluene	1.8E+04	U	ug/kg
2,6-Dinitrotoluene	1.8E+04	U	ug/kg
Endosulfan I	1.8E+04	U	ug/kg
Endosulfan II	1.8E+04	U	ug/kg
Endosulfan sulfate	1.8E+04	U	ug/kg
Endrin	1.8E+04	U	ug/kg
Endrin aldehyde	1.8E+04	U	ug/kg
Fluoranthene	1.8E+04	U	ug/kg
Fluorene	1.8E+04	U	ug/kg
Heptachlor	1.8E+04	U	ug/kg
Heptachlor epoxide	1.8E+04	U	ug/kg
Hexachlorobenzene	1.8E+04	U	ug/kg
Hexachlorobutadiene	2.7E+05	U	ug/kg
Hexachlorocyclopentadiene	1.8E+04	U	ug/kg
Hexachloroethane	5.4E+04	U	ug/kg
Indeno(1,2,3-cd)pyrene	1.8E+04	U	ug/kg
Isophorone	9.0E+04	U	ug/kg
Naphthalene	9.0E+04	U	ug/kg
Nitrobenzene	9.0E+04	U	ug/kg
N-Nitrosodimethylamine	1.1E+05	U	ug/kg
N-Nitrosodi-n-propylamine	1.8E+04	U	ug/kg
Phenanthrene	1.8E+04	U	ug/kg
Pyrene	1.8E+04	U	ug/kg
Pyridine	1.1E+05	U	ug/kg
1,2,4-Trichlorobenzene	2.7E+05	U	ug/kg
4-Chloro-3-methylphenol	9.0E+04	U	ug/kg
2-Chlorophenol	5.4E+04	U	ug/kg
2,4-Dichlorophenol	9.0E+04	U	ug/kg
2,4-Dimethylphenol	2.7E+06	U	ug/kg
2,4-Dinitrophenol	1.1E+05	U	ug/kg
2-Methyl-4,6-dinitrophenol	1.8E+04	U	ug/kg
2-Nitrophenol	9.0E+04	U	ug/kg
4-Nitrophenol	1.8E+04	U	ug/kg

Field ID: CUP TANK (SK1)

Sample ID Ref. Method

Component	Result	Code	QC Failures	Units	Cert #
Pentachlorophenol	1.8E+04	U		ug/kg	
Phenol	1.8E+04	U		ug/kg	
2,4,5-Trichlorophenol	1.8E+04	U		ug/kg	
2,4,6-Trichlorophenol	1.8E+04	U		ug/kg	
N-Nitrosodiphenylamine/ Diphenylamine	1.8E+04	U		ug/kg	
Arsenic	0.24	U		mg/kg W.W.	1021859 EPA 6010B
Barium	2.5	A		mg/kg W.W.	
Cadmium	0.061	I		mg/kg W.W.	
Chromium	0.31	AJ		mg/kg W.W.	
Lead	1.56	AV		mg/kg W.W.	
Selenium	0.48	U		mg/kg W.W.	
Silver	0.024	U		mg/kg W.W.	
Benzene	5.0E+04	U		ug/L	1021862 EPA 1311/ 8260
Carbon tetrachloride	2.0E+04	U		ug/L	
Chlorobenzene	2.0E+04	U		ug/L	
Chloroform	2.0E+04	U		ug/L	
1,4-Dichlorobenzene	5.0E+04	U		ug/L	
1,2-Dichloroethane	2.0E+04	U		ug/L	
1,1-Dichloroethene	5.0E+04	U		ug/L	
Tetrachloroethene	2.4E+06	I		ug/L	
Trichloroethene	7.7E+04	I		ug/L	
Vinyl chloride	5.0E+04	U		ug/L	
2-Butanone	5.0E+05	U		ug/L	
Benzene	6.2E+04	U		ug/kg	
Bromodichloromethane	2.5E+04	U		ug/kg	
Bromoform	6.2E+04	U		ug/kg	
Bromomethane	6.2E+04	U		ug/kg	
2-Butanone	6.2E+05	U	CCV	ug/kg	
Carbon tetrachloride	2.5E+04	U		ug/kg	
Chlorobenzene	2.5E+04	U		ug/kg	
Chloroethane	6.2E+04	U		ug/kg	
2-Chloroethylvinyl ether	6.2E+04	U		ug/kg	
Chloroform	2.5E+04	U		ug/kg	
Chloromethane	6.2E+04	U		ug/kg	
Dibromochloromethane	2.5E+04	U		ug/kg	
1,2-Dichlorobenzene	6.2E+04	U		ug/kg	
1,3-Dichlorobenzene	6.2E+04	U		ug/kg	
1,4-Dichlorobenzene	6.2E+04	U		ug/kg	
1,1-Dichloroethane	2.5E+04	U		ug/kg	
1,2-Dichloroethane	2.5E+04	U		ug/kg	
1,1-Dichloroethene	6.2E+04	U		ug/kg	
cis-1,2-Dichloroethene	6.2E+04	U		ug/kg	

Matrix: WAS-LIQUID

Field ID: CUP TANK (SK1)

Matrix: WAS-LIQUID

Sample ID Ref. Method Component Result Code QC Failures Units Cent #

trans-1,2-Dichloroethene ug/kg 6.2E+04 U

1,2-Dichloropropane ug/kg 2.5E+04 U

cis-1,3-Dichloropropene ug/kg 6.2E+04 U

trans-1,3-Dichloropropene ug/kg 2.5E+04 U

Ethylbenzene ug/kg 2.9E+05 U

Methylene chloride ug/kg 6.2E+04 U

1,1,2,2-Tetrachloroethane ug/kg 6.2E+04 U

Tetrachloroethene ug/kg 3.1E+06 U

Toluene ug/kg 1.3E+06 U

1,1,1-Trichloroethane ug/kg 2.5E+04 U

1,1,2-Trichloroethane ug/kg 2.5E+04 U

Trichloroethene ug/kg 9.6E+04 I

Trichlorofluoromethane ug/kg 6.2E+04 U

Vinyl chloride ug/kg 6.2E+04 U

o-Xylene ug/kg 3.8E+05 U

m,p-Xylene ug/kg 1.1E+06 U

Ref. Method and Comment:

EPA 1311/625/8270 Detection limits elevated due to matrix interferences. Please refer to the QC Report for parameters observed to exceed control limits. Phenol-d5 and Nitrobenzene-d5 surrogate spike recoveries were observed to exceed control limits due to matrix interferences. J-due to duplicate matrix spikes recovery failures on m, p-Cresol, o-Cresol, Hexachlorobutadiene, Hexachloroethane, Nitrobenzene, Pentachlorophenol and 2,4,5-Trichlorophenol. One or more results were qualified due to GCV failure.

EPA 8270C Some detection limits have been elevated due to matrix interferences. Please refer to the QC Report for parameters observed to exceed control limits. J due to duplicate matrix spikes recovery failures.

EPA 6010B Please refer to the QC report for parameters observed to exceed control limits. V: Lead was detected in the method blank at a level of 1.2 mg/kg.

EPA 1311/8260 The MDLs are elevated due to required dilution of the sample matrix. Tentative identification: total other purgeable organic compounds = est. 2E+08 ug/kg. One or more results were qualified due to GCV failure.

Sample Location: SAFETY KLEEN

Collection Date/Time: 6/26/2007 12:32:00 PM

Field ID: EQUIPMENT BLANK (SK4)

Matrix: W-EQPMT-BK

Sample ID Ref. Method Component Result Code QC Failures Units Cent #

Acenaphthene ug/L 0.96 U

Acenaphthylene ug/L 0.96 U

Acetophenone ug/L 0.96 U

2-Acetylaminofluorene ug/L 0.96 U

Aldrin ug/L 1.4 U

4-Aminobiphenyl ug/L 3.8 U

Aniline ug/L 0.96 U

Anthracene ug/L 0.96 U

Azobenzene/1,2-Diphenylhydrazine ug/L 0.96 U

Benzidine ug/L 96 U

Benzo(a)anthracene ug/L 0.96 U

Benzo(a)pyrene ug/L 0.96 U

1021865 EPA 8270C

E31780

Sample ID Ref. Method	Component	Result	Code	QC Failures	Units	Cent #
	Benzo(b)fluoranthene	0.96	U		ug/L	
	Benzo(k)fluoranthene	0.96	U		ug/L	
	Benzo(g,h,i)perylene	0.96	U		ug/L	
	Benzyl alcohol	0.96	U		ug/L	
	alpha-BHC	1.4	U		ug/L	
	beta-BHC	1.4	U		ug/L	
	gamma-BHC	1.4	U		ug/L	
	delta-BHC	1.4	U		ug/L	
	Bis(2-chloroethoxy)methane	0.96	U		ug/L	
	Bis(2-chloroethyl)ether	0.96	U		ug/L	
	Bis(2-chloroisopropyl)ether	2.9	U		ug/L	
	Bis(2-ethylhexyl)phthalate	14	U		ug/L	
	Butyl benzyl phthalate	4.8	U		ug/L	
	4-Bromophenyl phenyl ether	0.96	U		ug/L	
	4-Chloroaniline	0.96	U		ug/L	
	2-Chloronaphthalene	0.96	U		ug/L	
	4-Chlorophenyl phenyl ether	1.9	U		ug/L	
	Chrysene	0.96	U		ug/L	
	m,p-Cresols	1.9	U		ug/L	
	o-Cresol	1.9	U		ug/L	
	4,4'-DDD	1.4	U		ug/L	
	4,4'-DDE	1.4	U		ug/L	
	4,4'-DDT	1.4	U		ug/L	
	D,n-butyl phthalate	4.8	U		ug/L	
	D,n-octyl phthalate	0.96	U		ug/L	
	Dibenzo(a,h)anthracene	0.96	U		ug/L	
	Dibenzofuran	0.96	U		ug/L	
	1,2-Dichlorobenzene	0.96	U		ug/L	
	1,3-Dichlorobenzene	0.96	U		ug/L	
	1,4-Dichlorobenzene	0.96	U		ug/L	
	3,3'-Dichlorobenzidine	38	U		ug/L	
	Dieldrin	1.4	U		ug/L	
	Diethyl phthalate	0.96	U		ug/L	
	Dimethyl phthalate	48	U		ug/L	
	Dimethylaminoazobenzene	0.96	U		ug/L	
	7,12-Dimethylbenz(a)anthracene	0.96	U		ug/L	
	3,3'-Dimethylbenzidine	19	U		ug/L	
	1,3-Dinitrobenzene	1.9	U		ug/L	
	2,4-Dinitrotoluene	0.96	U		ug/L	
	2,6-Dinitrotoluene	0.96	U		ug/L	
	Dinoseb	3.8	U		ug/L	
	Endosulfan I	3.8	U		ug/L	

Matrix: W-EQPMT-BK

Field ID: EQUIPMENT BLANK (SK4)

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
		Endosulfan II	3.8	U		ug/L	
		Endosulfan sulfate	1.4	U		ug/L	
		Endrin	1.4	U		ug/L	
		Endrin aldehyde	3.8	U		ug/L	
		Ethyl methanesulfonate	0.96	U		ug/L	
		Fluoranthene	0.96	U		ug/L	
		Fluorene	0.96	U		ug/L	
		Hepachlor	1.4	U		ug/L	
		Hepachlor epoxide	1.4	U		ug/L	
		Hexachlorobenzene	0.96	U		ug/L	
		Hexachlorobutadiene	2.9	U		ug/L	
		Hexachlorocyclopentadiene	2.9	U		ug/L	
		Hexachloroethane	2.9	U		ug/L	
		Hexachloropropene	1.9	U		ug/L	
		Indeno(1,2,3-cd)pyrene	0.96	U		ug/L	
		Isophorone	0.96	U		ug/L	
		Isosafrole	0.96	U		ug/L	
		Methapyrene	3.8	UU	CCV	ug/L	
		3-Methylcholanthrene	0.96	U		ug/L	
		Methyl methanesulfonate	0.96	UU	CCV	ug/L	
		2-Methylnaphthalene	0.96	U		ug/L	
		Naphthalene	0.96	U		ug/L	
		1-Naphthylamine	9.6	UU	CCV	ug/L	
		2-Naphthylamine	9.6	U		ug/L	
		1,4-Naphthoquinone	19	U		ug/L	
		2-Nitroaniline	0.96	U		ug/L	
		3-Nitroaniline	0.96	U		ug/L	
		4-Nitroaniline	0.96	U	MS,RPD	ug/L	
		Nitrobenzene	1.9	U		ug/L	
		Nitroquinoline-1-oxide	19	U		ug/L	
		5-Nitro-o-toluidine	0.96	U		ug/L	
		N-Nitrosodimethylamine	0.96	U		ug/L	
		N-Nitrosodietylamine	1.9	U		ug/L	
		N-Nitrosodimethylamine	1.9	U		ug/L	
		N-Nitrosodi-n-propylamine	1.9	U		ug/L	
		N-Nitrosomethylamine	1.9	U		ug/L	
		N-Nitrosomorpholine	0.96	U		ug/L	
		N-Nitrosopiperidine	0.96	U		ug/L	
		N-Nitrosopyrrolidine	1.9	U		ug/L	
		Pentachlorobenzene	0.96	U		ug/L	
		Pentachloroethane	48	U		ug/L	
		Pentachloronitrobenzene	0.96	U		ug/L	
		Phenacetyl	3.8	U		ug/L	

Matrix: W-EQPMT-BK

Field ID: EQUIPMENT BLANK (SK4)

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1021866	EPA 200.8	Phenanthrene	0.96	U		ug/L	
		2-Picoline	0.96	U		ug/L	
		Pyrene	0.96	U		ug/L	
		Pyridine	3.8	UU	CCV	ug/L	
		Satrole	0.96	U		ug/L	
		1,2,4,5-Tetrachlorobenzene	0.96	U		ug/L	
		o-Toluidine	0.96	UU	CCV	ug/L	
		1,2,4-Trichlorobenzene	0.96	U		ug/L	
		1,3,5-Trinitrobenzene	3.8	U		ug/L	
		4-Chloro-3-methylphenol	0.96	U		ug/L	
		2-Chlorophenol	0.96	U		ug/L	
		2,4-Dichlorophenol	0.96	U		ug/L	
		2,6-Dichlorophenol	0.96	U		ug/L	
		2,4-Dimethylphenol	9.6	U		ug/L	
		2,4-Dinitrophenol	14	U	MS	ug/L	
		2-Methyl-4,6-dinitrophenol	2.9	U		ug/L	
		2-Nitrophenol	0.96	UU	CCV	ug/L	
		4-Nitrophenol	14	U		ug/L	
		Pentachlorophenol	2.9	U		ug/L	
		Phenol	0.96	U		ug/L	
		2,3,4,6-Tetrachlorophenol	1.9	U		ug/L	
		2,4,5-Trichlorophenol	0.96	U		ug/L	
		2,4,6-Trichlorophenol	0.96	U		ug/L	
		N-Nitrosodiphenylamine/ Diphenylamine	2.9	UU	GCV,LCS,MS	ug/L	
1021866	EPA 200.8	Arsenic	0.50	U		ug/L	
		Barium	0.20	U		ug/L	
		Cadmium	0.020	U		ug/L	
		Chromium	1.0	U		ug/L	
		Lead	0.20	U		ug/L	
		Selenium	0.50	U		ug/L	
		Silver	0.025	U		ug/L	
1021867	EPA 8260	Benzene	0.50	U		ug/L	E31640
		Bromodichloromethane	0.20	U		ug/L	
		Bromoform	0.50	U		ug/L	
		Bromomethane	0.50	U		ug/L	
		2-Butanone	5.0	UU	CCV	ug/L	
		Carbon tetrachloride	0.20	U		ug/L	
		Chlorobenzene	0.20	U		ug/L	
		Chloroethane	0.50	U		ug/L	
		2-Chloroethylvinyl ether	0.50	U		ug/L	
		Chloroform	0.20	U		ug/L	

Matrix: W-EQPMT-BK

Sample ID Ref. Method Component Result Code QC Failures Units Cert #

Sample ID Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
	Chloromethane	0.50	U		ug/L	
	Dibromochloromethane	0.20	U		ug/L	
	1,2-Dichlorobenzene	0.50	U		ug/L	
	1,3-Dichlorobenzene	0.50	U		ug/L	
	1,4-Dichlorobenzene	0.50	U		ug/L	
	1,1-Dichloroethane	0.20	U		ug/L	
	1,2-Dichloroethane	0.20	U		ug/L	
	1,1-Dichloroethene	0.50	U		ug/L	
	cis-1,2-Dichloroethene	0.50	U		ug/L	
	trans-1,2-Dichloroethene	0.50	U		ug/L	
	1,2-Dichloropropane	0.20	U		ug/L	
	cis-1,3-Dichloropropene	0.50	U		ug/L	
	trans-1,3-Dichloropropene	0.20	U		ug/L	
	Ethylbenzene	0.50	U		ug/L	
	Methylene chloride	1.4	I		ug/L	
	1,1,2,2-Tetrachloroethane	0.50	U		ug/L	
	Tetrachloroethene	0.50	U		ug/L	
	Toluene	0.50	U		ug/L	
	1,1,1-Trichloroethane	0.20	U		ug/L	
	1,1,2-Trichloroethane	0.20	U		ug/L	
	Trichloroethene	0.20	U		ug/L	
	Trichlorofluoromethane	0.50	U		ug/L	
	Vinyl chloride	0.50	U		ug/L	
	Methyl-t-butyl ether	0.50	U		ug/L	
	o-Xylene	0.20	U		ug/L	
	m,p-Xylene	0.50	U		ug/L	

Ref. Method and Comment:

EPA 8270C

Please refer to the QC Report for parameters observed to exceed control limits. One or more results were qualified due to CCV

failure:

EPA 8260

One or more results were qualified due to CCV failure.

Sample Location: SAFETY KLEEN

Collection Date/Time: 6/26/2007 12:52:00 PM

Field ID: FPE (SK3)

Matrix: WAS-LIQUID

Sample ID Ref. Method Component Result Code QC Failures Units Cert #

1021858 EPA 1311/625/8270	gamma-BHC	5.5E+03	U		ug/L	E31780
	m,p-Cresols	3.7E+04	U		ug/L	
	o-Cresol	3.7E+04	U		ug/L	
	2,4-Dinitrotoluene	3.7E+03	U		ug/L	
	Endrin	5.5E+03	U		ug/L	
	Hexachlorobenzene	3.7E+03	U		ug/L	
	Hexachlorobutadiene	5.5E+04	U		ug/L	
	Hexachloroethane	5.5E+04	U		ug/L	

Matrix: WAS-LIQUID

Field ID: FPE (SK3)
 Sample ID Ref. Method
 EPA 8270C

Component	Result	Code	QC Failures	Units	Cert #
Nitrobenzene	3.7E+04	U		ug/L	
Pentachlorophenol	1.1E+04	U		ug/L	
2,4,5-Trichlorophenol	3.7E+03	U	RPD	ug/L	
2,4,6-Trichlorophenol	3.7E+03	U		ug/L	
Pyridine	1.5E+04	U	CCV,MS	ug/L	
Acenaphthene	1.7E+04	U		ug/L	
Acenaphthylene	1.7E+04	U		ug/L	
Aldrin	1.7E+04	U		ug/L	
Anthracene	1.7E+04	U		ug/L	
Azobenzene/1,2-Diphenylhydrazine	1.7E+04	U		ug/L	
Benzidine	3.6E+05	U		ug/L	
Benzo(a)anthracene	1.7E+04	U		ug/L	
Benzo(a)pyrene	1.7E+04	U		ug/L	
Benzo(b)fluoranthene	1.7E+04	U		ug/L	
Benzo(k)fluoranthene	1.7E+04	U		ug/L	
Benzo(g,h,i)perylene	1.7E+04	U		ug/L	
alpha-BHC	1.7E+04	U		ug/L	
beta-BHC	1.7E+04	U		ug/L	
gamma-BHC	1.7E+04	U		ug/L	
delta-BHC	1.7E+04	U		ug/L	
Bis(2-chloroethoxy)methane	8.3E+04	U		ug/L	
Bis(2-chloroethyl)ether	1.7E+04	U		ug/L	
Bis(2-chloroisopropyl)ether	1.7E+04	U		ug/L	
Bis(2-ethylhexyl)phthalate	1.0E+05	U		ug/L	
Butyl benzyl phthalate	1.7E+04	U		ug/L	
4-Bromophenyl phenyl ether	1.7E+04	U		ug/L	
2-Chloronaphthalene	1.7E+04	U		ug/L	
4-Chlorophenyl phenyl ether	1.7E+04	U		ug/L	
Chrysene	1.7E+04	U		ug/L	
m,p-Cresols	8.3E+04	U		ug/L	
o-Cresol	1.7E+04	U		ug/L	
4,4'-DDD	1.7E+04	U		ug/L	
4,4'-DDE	1.7E+04	U		ug/L	
4,4'-DDT	1.7E+04	U		ug/L	
Di-n-butyl phthalate	1.0E+05	U		ug/L	
Di-n-octyl phthalate	1.7E+04	U		ug/L	
Dibenzo(a,h)anthracene	1.7E+04	U		ug/L	
3,3'-Dichlorobenzidine	1.0E+06	U		ug/L	
Dieldrin	1.7E+04	U		ug/L	
Diethyl phthalate	1.7E+04	U		ug/L	
Dimethyl phthalate	1.7E+04	U		ug/L	
2,4-Dinitrotoluene	1.7E+04	U		ug/L	

Sample ID Ref. Method

Field ID: FPE (SK3)

1021861 EPA 6010B

Component	Result	Code	QC Failures	Units	Cert #
2,6-Dinitrotoluene	1.7E+04	U		ug/kg	
Endosulfan I	1.7E+04	U		ug/kg	
Endosulfan II	1.7E+04	U		ug/kg	
Endosulfan sulfate	1.7E+04	U		ug/kg	
Endrin	1.7E+04	U		ug/kg	
Endrin aldehyde	1.7E+04	U		ug/kg	
Fluoranthene	1.7E+04	U		ug/kg	
Fluorene	1.7E+04	U		ug/kg	
Heptachlor	1.7E+04	U		ug/kg	
Heptachlor epoxide	1.7E+04	U		ug/kg	
Hexachlorobenzene	1.7E+04	U		ug/kg	
Hexachlorocyclopentadiene	1.7E+04	U		ug/kg	
Hexachloroethane	5.0E+04	U		ug/kg	
Indeno(1,2,3-cd)pyrene	1.7E+04	U		ug/kg	
Isophorone	8.3E+04	U		ug/kg	
Naphthalene	8.3E+04	U		ug/kg	
Nitrobenzene	8.3E+04	U		ug/kg	
N-Nitrosodimethylamine	1.0E+05	U		ug/kg	
N-Nitrosodi-n-propylamine	1.7E+04	U		ug/kg	
Phenanthrene	1.7E+04	U		ug/kg	
Pyrene	1.7E+04	U		ug/kg	
Pyridine	1.0E+05	U		ug/kg	
1,2,4-Trichlorobenzene	2.5E+05	U		ug/kg	
4-Chloro-3-methylphenol	8.3E+04	U		ug/kg	
2-Chlorophenol	5.0E+04	U		ug/kg	
2,4-Dichlorophenol	8.3E+04	U		ug/kg	
2,4-Dimethylphenol	2.5E+06	U		ug/kg	
2,4-Dinitrophenol	1.0E+05	U		ug/kg	
2-Methyl-4,6-dinitrophenol	1.7E+04	U		ug/kg	
2-Nitrophenol	8.3E+04	U		ug/kg	
4-Nitrophenol	1.7E+04	U		ug/kg	
Pentachlorophenol	1.7E+04	U		ug/kg	
Phenol	1.7E+04	U		ug/kg	
2,4,5-Trichlorophenol	1.7E+04	U		ug/kg	
2,4,6-Trichlorophenol	1.7E+04	U		ug/kg	
N-Nitrosodiphenylamine/ Diphenylamine	1.7E+04	U		ug/kg	
Arsenic	0.24	U		mg/kg W.W.	
Barium	0.16	U		mg/kg W.W.	
Cadmium	0.048	U		mg/kg W.W.	
Chromium	0.21	RPD		mg/kg W.W.	
Lead	0.60	V		mg/kg W.W.	

Matrix: WAS-LIQUID

Sample ID	Ref. Method	Field ID: FPE (SK3)	Component	Result	Code	QC Failures	Units	Cert #
1021864	EPA 1311/8260		Selenium	0.48	U		mg/kg W.W.	
			Silver	0.031	I		mg/kg W.W.	
			Benzene	5.0E+04	U		ug/L	E31640
			Carbon tetrachloride	2.0E+04	U		ug/L	
			Chlorobenzene	2.0E+04	U		ug/L	
			Chloroform	2.0E+04	U		ug/L	
			1,4-Dichlorobenzene	5.0E+04	U		ug/L	
			1,2-Dichloroethane	2.0E+04	U		ug/L	
			1,1-Dichloroethene	5.0E+04	U		ug/L	
			Tetrachloroethene	1.9E+06	U		ug/L	
			Trichloroethene	2.0E+04	U		ug/L	
			Vinyl chloride	5.0E+04	U		ug/L	
			2-Butanone	3.7E+06	U		ug/L	
	EPA 8260		Benzene	6.2E+04	U		ug/kg	
			Bromodichloromethane	2.5E+04	U		ug/kg	
			Bromoform	6.2E+04	U		ug/kg	
			Bromomethane	6.2E+04	U		ug/kg	
			2-Butanone	4.6E+06	J	CCV	ug/kg	
			Carbon tetrachloride	2.5E+04	U		ug/kg	
			Chlorobenzene	2.5E+04	U		ug/kg	
			Chloroethane	6.2E+04	U		ug/kg	
			2-Chloroethylvinyl ether	6.2E+04	U		ug/kg	
			Chloroform	2.5E+04	U		ug/kg	
			Chloromethane	6.2E+04	U		ug/kg	
			Dibromochloromethane	2.5E+04	U		ug/kg	
			1,2-Dichlorobenzene	6.2E+04	U		ug/kg	
			1,3-Dichlorobenzene	6.2E+04	U		ug/kg	
			1,4-Dichlorobenzene	6.2E+04	U		ug/kg	
			1,1-Dichloroethane	2.5E+04	U		ug/kg	
			1,2-Dichloroethane	2.5E+04	U		ug/kg	
			cis-1,2-Dichloroethene	6.2E+04	U		ug/kg	
			trans-1,2-Dichloroethene	6.2E+04	U		ug/kg	
			1,2-Dichloropropane	2.5E+04	U		ug/kg	
			cis-1,3-Dichloropropene	6.2E+04	U		ug/kg	
			trans-1,3-Dichloropropene	2.5E+04	U		ug/kg	
			Ethylbenzene	2.2E+05	I		ug/kg	
			Methylene chloride	6.2E+04	U		ug/kg	
			1,1,2,2-Tetrachloroethane	6.2E+04	U		ug/kg	
			Tetrachloroethene	2.5E+06	U		ug/kg	
			Toluene	9.4E+05	U		ug/kg	
			1,1,1-Trichloroethane	2.5E+04	U		ug/kg	

Matrix: WAS-LIQUID

Sample ID Ref. Method Component Result Code QC Failures Units Cert #

1,1,2-Trichloroethane	2.5E+04	U	ug/kg
Trichloroethene	2.5E+04	U	ug/kg
Trichlorofluoromethane	6.2E+04	U	ug/kg
Vinyl chloride	6.2E+04	U	ug/kg
o-Xylene	3.3E+05		ug/kg
m,p-Xylene	9.3E+05		ug/kg

Ref. Method and Comment:

EPA 1311/625/8270 Detection limits elevated due to matrix interferences. Nitrobenzene-d5 surrogate spike recovery was observed to exceed control limits due to matrix interferences. One or more results were qualified due to GCV failure.
 EPA 8270C Some detection limits have been elevated due to matrix interferences. Please refer to the QC Report for parameters observed to exceed control limits.
 EPA 6010B V: Lead was detected in the method blank at a level of 1.2 mg/kg.
 EPA 1311/8260 The MDLs are elevated due to required dilution of the sample matrix.
 EPA 8260 The MDLs are elevated due to required dilution of the sample matrix. Tentative identification: total other purgeable organic compounds = est. 2E+08 ug/kg. One or more results were qualified due to GCV failure.

Sample Location: SAFETY KLEEN

Collection Date/Time: 6/26/2007 12:44:00 PM

Field ID: TANNING LAB (SK2)

Matrix: WAS-LIQUID

Sample ID Ref. Method Component

gamma-BHC	5.3E+03	U	ug/L	E31780
m,p-Cresols	3.5E+04	U	ug/L	
o-Cresol	3.5E+04	U	ug/L	
2,4-Dinitrotoluene	3.5E+03	U	ug/L	
Endrin	5.3E+03	U	ug/L	
Hexachlorobenzene	3.5E+03	U	ug/L	
Hexachlorobutadiene	5.3E+04	U	ug/L	
Hexachloroethane	5.3E+04	U	ug/L	
Nitrobenzene	3.5E+04	U	ug/L	
Pentachlorophenol	1.1E+04	U	ug/L	
2,4,5-Trichlorophenol	3.5E+03	U	ug/L	
2,4,6-Trichlorophenol	3.5E+03	U	ug/L	
Pyridine	1.3E+04	U	ug/L	

1021857 EPA 1311/625/8270

EPA 8270C

Acenaphthene	1.7E+04	U	ug/kg
Acenaphthylene	1.7E+04	U	ug/kg
Aldrin	1.7E+04	U	ug/kg
Anthracene	1.7E+04	U	ug/kg
Azobenzene/1,2-Diphenylhydrazine	1.7E+04	U	ug/kg
Benzidine	3.6E+05	U	ug/kg
Benzo(a)anthracene	1.7E+04	U	ug/kg
Benzo(a)pyrene	1.7E+04	U	ug/kg
Benzo(b)fluoranthene	1.7E+04	U	ug/kg
Benzo(k)fluoranthene	1.7E+04	U	ug/kg
Benzo(g,h,i)perylene	1.7E+04	U	ug/kg

Component	Result	Code	QC Failures	Units
alpha-BHC	1.7E+04	U		ug/kg
beta-BHC	1.7E+04	U		ug/kg
gamma-BHC	1.7E+04	U		ug/kg
delta-BHC	1.7E+04	U		ug/kg
Bis(2-chloroethoxy)methane	8.4E+04	U		ug/kg
Bis(2-chloroethyl)ether	1.7E+04	U		ug/kg
Bis(2-chloroisopropyl)ether	1.7E+04	U		ug/kg
Bis(2-ethylhexyl)phthalate	1.0E+05	U		ug/kg
Butyl benzyl phthalate	1.7E+04	U		ug/kg
4-Bromophenyl phenyl ether	1.7E+04	U		ug/kg
2-Chloronaphthalene	1.7E+04	U		ug/kg
4-Chlorophenyl phenyl ether	1.7E+04	U		ug/kg
Chrysene	1.7E+04	U		ug/kg
m,p-Cresols	8.4E+04	U		ug/kg
o-Cresol	1.7E+04	U		ug/kg
4,4'-DDD	1.7E+04	U		ug/kg
4,4'-DDE	1.7E+04	U		ug/kg
4,4'-DDT	1.7E+04	U		ug/kg
D-n-butyl phthalate	1.0E+05	U		ug/kg
D-n-octyl phthalate	1.7E+04	U		ug/kg
Dibenz(a,h)anthracene	1.7E+04	U		ug/kg
3,3'-Dichlorobenzidine	1.0E+06	U		ug/kg
Dieldrin	1.7E+04	U		ug/kg
Diethyl phthalate	1.7E+04	U		ug/kg
Dimethyl phthalate	1.7E+04	U		ug/kg
2,4-Dinitrofluorene	1.7E+04	U		ug/kg
2,6-Dinitrofluorene	1.7E+04	U		ug/kg
Endosulfan I	1.7E+04	U		ug/kg
Endosulfan II	1.7E+04	U		ug/kg
Endosulfan sulfate	1.7E+04	U		ug/kg
Endrin	1.7E+04	U		ug/kg
Endrin aldehyde	1.7E+04	U		ug/kg
Fluoranthene	1.7E+04	U		ug/kg
Fluorene	1.7E+04	U		ug/kg
Hepachlor	1.7E+04	U		ug/kg
Hepachlor epoxide	1.7E+04	U		ug/kg
Hexachlorobenzene	1.7E+04	U		ug/kg
Hexachlorobutadiene	2.5E+05	U		ug/kg
Hexachlorocyclopentadiene	1.7E+04	U		ug/kg
Hexachloroethane	5.0E+04	U		ug/kg
Indeno(1,2,3-cd)pyrene	1.7E+04	U		ug/kg
Isophorone	8.4E+04	U		ug/kg

Component	Result	Code	QC Failures	Units	Cert #
Naphthalene	8.4E+04	U		ug/kg	
Nitrobenzene	8.4E+04	U		ug/kg	
N-Nitrosodimethylamine	1.0E+05	U		ug/kg	
N-Nitrosod-n-propylamine	1.7E+04	U		ug/kg	
Phenanthrene	1.7E+04	U		ug/kg	
Pyrene	1.7E+04	U		ug/kg	
Pyridine	1.0E+05	U		ug/kg	
1,2,4-Trichlorobenzene	2.5E+05	U		ug/kg	
4-Chloro-3-methylphenol	8.4E+04	U		ug/kg	
2-Chlorophenol	5.0E+04	U		ug/kg	
2,4-Dichlorophenol	8.4E+04	U		ug/kg	
2,4-Dimethylphenol	2.5E+06	U		ug/kg	
2,4-Dinitrophenol	1.0E+05	U		ug/kg	
2-Methyl-4,6-dinitrophenol	1.7E+04	U		ug/kg	
2-Nitrophenol	8.4E+04	U		ug/kg	
4-Nitrophenol	1.7E+04	U		ug/kg	
Pentachlorophenol	1.7E+04	U		ug/kg	
Phenol	1.7E+04	U		ug/kg	
2,4,5-Trichlorophenol	1.7E+04	U	RPD	ug/kg	
2,4,6-Trichlorophenol	1.7E+04	U	RPD	ug/kg	
N-Nitrosodiphenylamine/ Diphenylamine	1.7E+04	U		ug/kg	
Arsenic	0.24	U		mg/kg W.W.	1021860 EPA 6010B
Barium	0.27	I		mg/kg W.W.	
Cadmium	0.063	I	RPD	mg/kg W.W.	
Chromium	0.85	V		mg/kg W.W.	
Lead	0.83	U		mg/kg W.W.	
Selenium	0.48	U		mg/kg W.W.	
Silver	0.024	U		mg/kg W.W.	
Benzene	5.0E+04	U		ug/L	1021863 EPA 1311/ 8260
Carbon tetrachloride	2.0E+04	U		ug/L	
Chlorobenzene	2.0E+04	U		ug/L	
Chloroform	2.0E+04	U		ug/L	
1,4-Dichlorobenzene	5.0E+04	U		ug/L	
1,2-Dichloroethane	2.0E+04	U		ug/L	
1,1-Dichloroethene	5.0E+04	U		ug/L	
Tetrachloroethene	2.6E+06	I		ug/L	
Trichloroethene	6.5E+04	I		ug/L	
Vinyl chloride	5.0E+04	U		ug/L	
2-Butanone	1.1E+06	I		ug/L	
Benzene	6.2E+04	U		ug/kg	EPA 8260
Bromodichloromethane	2.5E+04	U		ug/kg	
Bromoform	6.2E+04	U		ug/kg	

Field ID: TANNING LAB (SK2)

Matrix: WAS-LIQUID

Sample ID Ref. Method Component Result Code QC Failures Units Cert #

Bromomethane 6.2E+04 U 6.2E+04 ug/kg

2-Butanone 1.8E+06 IU CCV 1.8E+06 ug/kg

Carbon tetrachloride 2.5E+04 U 2.5E+04 ug/kg

Chlorobenzene 2.5E+04 U 2.5E+04 ug/kg

Chloroethane 6.2E+04 U 6.2E+04 ug/kg

2-Chloroethylvinyl ether 6.2E+04 U 6.2E+04 ug/kg

Chloroform 2.5E+04 U 2.5E+04 ug/kg

Chloromethane 6.2E+04 U 6.2E+04 ug/kg

Dibromochloromethane 2.5E+04 U 2.5E+04 ug/kg

1,2-Dichlorobenzene 6.2E+04 U 6.2E+04 ug/kg

1,3-Dichlorobenzene 6.2E+04 U 6.2E+04 ug/kg

1,4-Dichlorobenzene 6.2E+04 U 6.2E+04 ug/kg

1,1-Dichloroethane 2.5E+04 U 2.5E+04 ug/kg

1,2-Dichloroethane 2.5E+04 U 2.5E+04 ug/kg

1,1-Dichloroethene 6.2E+04 U 6.2E+04 ug/kg

cis-1,2-Dichloroethene 6.2E+04 U 6.2E+04 ug/kg

trans-1,2-Dichloroethene 2.5E+04 U 2.5E+04 ug/kg

1,2-Dichloropropane 6.2E+04 U 6.2E+04 ug/kg

cis-1,3-Dichloropropene 6.2E+04 U 6.2E+04 ug/kg

trans-1,3-Dichloropropene 2.5E+04 U 2.5E+04 ug/kg

Ethylbenzene 3.0E+05 ug/kg

Methylene chloride 6.2E+04 U 6.2E+04 ug/kg

1,1,2,2-Tetrachloroethane 6.2E+04 U 6.2E+04 ug/kg

Tetrachloroethene 3.3E+06 ug/kg

Toluene 1.1E+07 ug/kg

1,1,1-Trichloroethane 2.5E+04 U 2.5E+04 ug/kg

1,1,2-Trichloroethane 2.5E+04 U 2.5E+04 ug/kg

Trichloroethene 8.4E+04 I 8.4E+04 ug/kg

Trichlorofluoromethane 6.2E+04 U 6.2E+04 ug/kg

Vinyl chloride 6.2E+04 U 6.2E+04 ug/kg

o-Xylene 4.1E+05 ug/kg

m,p-Xylene 1.2E+06 ug/kg

Ref. Method and Comment:

EPA 1311/ 625/8270 Detection limits elevated due to matrix interferences. Phenol-d5 and Nitrobenzene-d5 surrogate spike recoveries were observed to exceed control limits due to matrix interferences. One or more results were qualified due to CV failure.
 EPA 8270C Some detection limits have been elevated due to matrix interferences. Please refer to the QC Report for parameters observed to exceed control limits.
 EPA 6010B V: Lead was detected in the method blank at a level of 1.2 mg/kg.
 EPA 1311/ 8260 The MDLs are elevated due to required dilution of the sample matrix.
 EPA 8260 The MDLs are elevated due to required dilution of the sample matrix. Tentative identification: total other purgeable organic compounds = est. 2E+08 ug/kg. One or more results were qualified due to CV failure.

Sample Location: SAFETY KLEEN

Collection Date/Time: 6/26/2007 12:38:00 PM

Field ID: TRIP BLANK

Matrix: W-TRIP-BLK

Sample ID Ref. Method Component Result Code QC Failures Units Cert #

Matrix: W-TRIP-BLK

Cent #
 E31640

Field ID: TRIP BLANK

Sample ID Ref. Method

1021877 EPA 624

Component	Result	Code	QC Failures	Units
Benzene	0.50	U		ug/L
Bromodichloromethane	0.20	U		ug/L
Bromoforn	0.50	U		ug/L
Bromomethane	0.50	U		ug/L
Carbon tetrachloride	0.20	U		ug/L
Chlorobenzene	0.20	U		ug/L
Chloroethane	0.50	U		ug/L
2-Chloroethylvinyl ether	0.50	U		ug/L
Chloroforn	0.20	U		ug/L
Chloromethane	0.50	U		ug/L
Dibromochloromethane	0.20	U		ug/L
1,2-Dichlorobenzene	0.50	U		ug/L
1,3-Dichlorobenzene	0.50	U		ug/L
1,4-Dichlorobenzene	0.50	U		ug/L
1,1-Dichloroethane	0.20	U		ug/L
1,2-Dichloroethane	0.20	U		ug/L
1,1-Dichloroethene	0.50	U		ug/L
trans-1,2-Dichloroethene	0.50	U		ug/L
1,2-Dichloropropane	0.20	U		ug/L
cis-1,3-Dichloropropene	0.50	U		ug/L
trans-1,3-Dichloropropene	0.20	U		ug/L
Ethylbenzene	0.50	U		ug/L
Methylene chloride	0.50	U		ug/L
1,1,2,2-Tetrachloroethane	0.50	U		ug/L
Tetrachloroethene	0.50	U		ug/L
Toluene	0.50	U		ug/L
1,1,1-Trichloroethane	0.20	U		ug/L
1,1,2-Trichloroethane	0.20	U		ug/L
Trichloroethene	0.20	U		ug/L
Trichlorofluoromethane	0.50	U		ug/L
Vinyl chloride	0.50	U		ug/L

Quality Control Report

Ref. Method	Analyte	LCS %Recovery	MS %Recovery	LCS	Precision SMP	MS
EPA 1311/625/8270	2,4,5-Trichlorophenol	95.3	111	15.2	44.6*	28.8
	2,4,6-Trichlorophenol	97.1	114	15.7	44.6*	28.8
	2,4-Dinitroliuene	86.6	103	17.4	11.6	11.6
	Endrin	114	123	7.76	11.3	11.3
	Hexachlorobenzene	106	121	13.1	6.90	6.90
	Hexachlorobutadiene	99.7	116	14.7		
	Hexachloroethane	95.1	111	15.8		
	Nitrobenzene	105	121	13.9		
	Pentachlorophenol	60.6	75.9	22.4		
	Pyridine	80.4	91.7	13.1	21.0	21.0
	gamma-BHC	105	122	14.9	9.83	9.83
	m,p-Cresols	92.0	106	13.8		
	o-Cresol	99.2	116	15.8		
EPA 8270C	1,2,4-Trichlorobenzene	105	110	4.47		
	2,4,5-Trichlorophenol	94.2	97.8	3.75	9.30	9.30
	2,4,6-Trichlorophenol	97.4	101	3.83	50.8*	50.8*
	2,4-Dichlorophenol	98.8	104	4.74		