ERRATA SHEET 4d
WA 2917
12-21-88

Attention: Peter Ressler

PIER 91

RCRA PERMIT
ADMINISTRATIVE RECORD
ITEM NUMBER
TOTAL NUMBER OF PAGES

Sample ID	Insert		ARI Project #
1228 MB med	TB2	Volatiles	2423
1228 MB low	SB1	soil	
2399 MB	TB7	semi-volatiles water	2399
2399 CR			
2399 CMSR	TB7 15		2399
2399 CMSDR			

Sample ID	Exchange/Replace	ARI Project #
2444 AD	CP-108A-0-5	2444,

Steve Nelson
Sweet-Edwards/EMCON

FILE COPY

USEPA RCRA
3012763

ANALYTICAL RESOURCES INCORPORATED

Analytical Chemists & Consultants

333 Ninth Ave. North
Seattle, Wa 98109-5187
(206) 621-6490

ORGANICS ANALYSIS DATA SHEET - METHOD 8240

Sample No: Method Blank

Lab Sample ID: 1228MB
Sample Matrix: Soil/Sediments

Data Release Authorized: Susan D Rason
Report Prepared 01/09/89 MACA

QC Report No: 2432 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/21/88

Conc Level: Low
Instrument ID: FINN I
Date Analyzed: 12/28/88

Amount Analyzed: 5.00 gm (Dry Weight)
Percent Moisture: NR
pH: NR
Conc/Dil Factor: 1:1

CAS Number		µg/Kg	CAS Number		µg/Kg
74-87-3	Chloromethane	3.8 U	78-87-5	1,2-Dichloropropane	0.7 U
74-83-9	Bromomethane	3.1 U	10061-01-5	cis-1,3-Dichloropropene	1.9 U
75-01-4	Vinyl Chloride	2.0 U	79-01-6	Trichloroethene	0.6 U
75-00-3	Chloroethane	3.3 U	124-48-1	Dibromochloromethane	0.7 U
75-09-2	**Methylene Chloride**	**4.7**	79-00-5	1,1,2-Trichloroethane	0.7 U
67-64-1	Acetone	6.9 U	71-43-2	Benzene	1.0 U
75-15-0	Carbon Disulfide	1.2 U	10061-02-6	Trans-1,3-Dichloropropene	1.8 U
75-35-4	1,1-Dichloroethene	0.7 U	110-75-8	2-Chloroethylvinylether	2.7 U
75-34-3	1,1-Dichloroethane	0.6 U	75-25-2	Bromoform	2.5 U
540-59-0	1,2-Dichloroethene (Total)	0.8 U	108-10-1	4-Methyl-2-Pentanone	3.5 U
67-66-3	Chloroform	1.1 U	591-78-6	2-Hexanone	3.2 U
107-06-2	1,2-Dichloroethane	0.5 U	127-18-4	Tetrachloroethene	0.5 U
78-93-3	2-Butanone	6.2 U	79-34-5	1,1,2,2-Tetrachloroethane	2.7 U
71-55-6	1,1,1-Trichloroethane	0.6 U	108-88-3	Toluene	0.8 U
56-23-5	Carbon Tetrachloride	0.9 U	108-90-7	Chlorobenzene	0.9 U
108-05-4	Vinyl Acetate	3.1 U	100-41-4	Ethylbenzene	0.8 U
75-27-4	Bromodichloromethane	0.3 U	100-42-5	Styrene	1.1 U
77-69-4	Trichlorofluoromethane	1.0 U	1330-20-7	Total Xylenes	1.8 U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				1.0 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	97.5%
Bromofluorobenzene	95.8%
d4-1,2-Dichloroethane	90.7%

*Surrogate recoveries indicate the validity of a given analysis

Data Reporting Qualifiers

Value	If the result is a value greater than or equal to the detection limit, report the value.
U	Indicates compound was analyzed for but not detected at the given detection limit.
J	Indicates an estimated value when result is less than specified detection limit.
NR	Analysis not required
B	This flag is used when the analyte is found in the blank as well as a sample. Indicates possible/probable blank contamination.
K	This flag is used when quantitated value falls above the limit of the calibration curve and dilution should be run.
M	Indicates an estimated value of analyte found and confirmed by analyst but with low spectral match parameters.

ANALYTICAL RESOURCES INCORPORATED

Analytical Chemists & Consultants

333 Ninth Ave. North
Seattle, Wa 98109-5187
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ORGANICS ANALYSIS DATA SHEET - METHOD 8240

Sample No: Method Blank

Lab Sample ID: 1228MB
Sample Matrix: Soil/Sediment

Data Release Authorized: Susan D Rasn
Report Prepared: 01/09/89 MACA

QC Report No: 2432 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/21/88

Conc Level: Medium
Instrument ID: FINN I
Date Analyzed: 12/28/88

Amount Analyzed: 0.05 gm (Dry Weight)
Percent Moisture: NR
pH: NR
Conc/Dil Factor: 1:1

CAS Number		µg/Kg	CAS Number		µg/Kg
74-87-3	Chloromethane	380 U	78-87-5	1,2-Dichloropropane	70 U
74-83-9	Bromomethane	310 U	10061-01-5	cis-1,3-Dichloropropene	190 U
75-01-4	Vinyl Chloride	200 U	79-01-6	Trichloroethene	60 U
75-00-3	Chloroethane	330 U	124-48-1	Dibromochloromethane	70 U
75-09-2	**Methylene Chloride**	**470**	79-00-5	1,1,2-Trichloroethane	70 U
67-64-1	Acetone	690 U	71-43-2	Benzene	100 U
75-15-0	Carbon Disulfide	120 U	10061-02-6	Trans-1,3-Dichloropropene	180 U
75-35-4	1,1-Dichloroethene	70 U	110-75-8	2-Chloroethylvinylether	270 U
75-34-3	1,1-Dichloroethane	60 U	75-25-2	Bromoform	250 U
540-59-0	1,2-Dichloroethene (Total)	80 U	108-10-1	4-Methyl-2-Pentanone	350 U
67-66-3	Chloroform	110 U	591-78-6	2-Hexanone	320 U
107-06-2	1,2-Dichloroethane	50 U	127-18-4	Tetrachloroethene	50 U
78-93-3	2-Butanone	620 U	79-34-5	1,1,2,2-Tetrachloroethane	270 U
71-55-6	1,1,1-Trichloroethane	60 U	108-88-3	Toluene	80 U
56-23-5	Carbon Tetrachloride	90 U	108-90-7	Chlorobenzene	90 U
108-05-4	Vinyl Acetate	310 U	100-41-4	Ethylbenzene	80 U
75-27-4	Bromodichloromethane	30 U	100-42-5	Styrene	110 U
77-69-4	Trichlorofluoromethane	100 U	1330-20-7	Total Xylenes	180 U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				100 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	97.5%
Bromofluorobenzene	95.8%
d4-1,2-Dichloroethane	90.7%

*Surrogate recoveries indicate the validity of a given analysis

Data Reporting Qualifiers

Value	If the result is a value greater than or equal to the detection limit, report the value.
U	Indicates compound was analyzed for but not detected at the given detection limit.
J	Indicates an estimated value when result is less than specified detection limit.
NR	Analysis not required
B	This flag is used when the analyte is found in the blank as well as a sample. Indicates possible/probable blank contamination.
K	This flag is used when quantitated value falls above the limit of the calibration curve and dilution should be run.
M	Indicates an estimated value of analyte found and confirmed by analyst but with low spectral match parameters.

ANALYTICAL
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Analytical
Chemists &
Consultants

333 Ninth Ave. North
Seattle, Wa 98109-5187
(206) 621-6490

ORGANICS ANALYSIS DATA SHEET - METHOD 625

Sample No: Method Blank

Lab Sample ID: 2399MB
Sample Matrix: Waters

Date Release Authorized: Susan D Rose
Report Revised: 03/20/89 MACA

QC Report No: 2399 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/16/88

Date Extracted: 12/23/88
Date Analyzed: 12/28/88
GPC Clean-up: NO
Instrument ID: FINN IV

Sample Volume: 1000 ml
Final Extract Volume: 1.0 ml
Conc/Dilution Factor: 1:1
Total Conc/Dilution: 1:1

CAS Number		µg/L
108-95-2	Phenol	1.0 U
111-44-4	bis(2-Chloroethyl)Ether	1.0 U
95-57-8	2-Chlorophenol	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
100-51-6	Benzyl Alcohol	5.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
95-48-7	2-Methylphenol	1.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	1.0 U
106-44-5	4-Methylphenol	1.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	1.0 U
67-72-1	Hexachloroethane	2.0 U
98-95-3	Nitrobenzene	1.0 U
78-59-1	Isophorone	1.0 U
88-75-5	2-Nitrophenol	5.0 U
105-67-9	2,4-Dimethylphenol	2.0 U
65-85-0	Benzoic Acid	10 U
111-91-1	bis(2-Chloroethoxy)Methane	1.0 U
120-83-2	2,4-Dichlorophenol	3.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0 U
91-20-3	Naphthalene	1.0 U
106-47-8	4-Chloroaniline	3.0 U
87-68-3	Hexachlorobutadiene	2.0 U
59-50-7	4-Chloro-3-Methylphenol	2.0 U
91-57-6	2-Methylnaphthalene	1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0 U
91-58-7	2-Chloronaphthalene	1.0 U
88-74-4	2-Nitroaniline	5.0 U
131-11-3	Dimethyl Phthalate	1.0 U
208-96-8	Acenaphthylene	1.0 U
99-09-2	3-Nitroaniline	5.0 U

CAS Number		µg/L
83-32-9	Acenaphthene	1.0 U
51-28-5	2,4-Dinitrophenol	10 U
100-02-7	4-Nitrophenol	5.0 U
132-64-9	Dibenzofuran	1.0 U
121-14-2	2,4-Dinitrotoluene	5.0 U
606-20-2	2,6-Dinitrotoluene	5.0 U
84-66-2	Diethylphthalate	1.0 U
7005-72-3	4-Chlorophenyl-phenylether	1.0 U
86-73-7	Fluorene	1.0 U
100-01-6	4-Nitroaniline	5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10 U
86-30-6	N-Nitrosodiphenylamine(1)	1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0 U
118-74-1	Hexachlorobenzene	1.0 U
87-86-5	Pentachlorophenol	5.0 U
85-01-8	Phenanthrene	1.0 U
120-12-7	Anthracene	1.0 U
84-74-2	Di-n-Butylphthalate	1.0 U
206-44-0	Fluoranthene	1.0 U
129-00-0	Pyrene	1.0 U
85-68-7	Butylbenzylphthalate	1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0 U
56-55-3	Benzo(a)Anthracene	1.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	1.0 U
218-01-9	Chrysene	1.0 U
117-84-0	Di-n-Octyl Phthalate	1.0 U
205-99-2	Benzo(b)Fluoranthene	1.0 U
207-08-9	Benzo(k)Fluoranthene	1.0 U
50-32-8	Benzo(a)Pyrene	1.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	1.0 U
53-70-3	Dibenz(a,h)Anthracene	1.0 U
191-24-2	Benzo(ghi)Perylene	1.0 U

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	70.2%
2-Fluorobiphenyl	70.0%
d14-p-Terphenyl	119%

***Acid surrogate recoveries**

d5-Phenol	26.8%
2-Fluorophenol	49.0%
2,4,6-Tribromophenol	70.8%

ORGANICS ANALYSIS DATA SHEET - METHOD 8270

Sample No: TB7 15
Matrix Spike
Re-Extract

ANALYTICAL RESOURCES INCORPORATED

Analytical Chemists & Consultants

333 Ninth Ave. North
Seattle, Wa 98109-5187
(206) 621-6490

Lab Sample ID: 2399CMSR
Sample Matrix: Soil/Sediments

QC Report No: 2399 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/16/88

Date Release Authorized: Susan Ann
Report Prepared: 01/20/89 MAC A

Dry weight extracted (gm): 26.49
Final Volume: 1.0 ml
Percent Moisture: 14.07%
pH: 8.39
Conc/Dilution Factor: 1 to 1
Total Dilution: 1 to 2

Date Extracted: 01/17/89
Date Analyzed: 01/18/89
GPC Clean-up: YES (1 of 2)
Instrument ID: FINN II

CAS Number		µg/Kg
108-95-2	Phenol	-
111-44-4	bis(2-Chloroethyl)Ether	76 U
95-57-8	2-Chlorophenol	-
541-73-1	1,3-Dichlorobenzene	76 U
106-46-7	1,4-Dichlorobenzene	-
100-51-6	Benzyl Alcohol	380 U
95-50-1	1,2-Dichlorobenzene	76 U
95-48-7	2-Methylphenol	76 U
39638-32-9	bis(2-chloroisopropyl)Ether	76 U
106-44-5	4-Methylphenol	76 U
621-64-7	N-Nitroso-Di-n-Propylamine	-
67-72-1	Hexachloroethane	150 U
98-95-3	Nitrobenzene	76 U
78-59-1	Isophorone	76 U
88-75-5	2-Nitrophenol	380 U
105-67-9	2,4-Dimethylphenol	150 U
65-85-0	Benzoic Acid	760 U
111-91-1	bis(2-Chloroethoxy)Methane	76 U
120-83-2	2,4-Dichlorophenol	230 U
120-82-1	1,2,4-Trichlorobenzene	-
91-20-3	**Naphthalene**	**1000**
106-47-8	4-Chloroaniline	230 U
87-68-3	Hexachlorobutadiene	150 U
59-50-7	4-Chloro-3-Methylphenol	-
91-57-6	**2-Methylnaphthalene**	**4000**
77-47-4	Hexachlorocyclopentadiene	380 U
88-06-2	2,4,6-Trichlorophenol	380 U
95-95-4	2,4,5-Trichlorophenol	380 U
91-58-7	2-Chloronaphthalene	76 U
88-74-4	2-Nitroaniline	380 U
131-11-3	Dimethyl Phthalate	76 U
208-96-8	Acenaphthylene	76 U
99-09-2	3-Nitroaniline	380 U

CAS Number		µg/Kg
83-32-9	Acenaphthene	-
51-28-5	2,4-Dinitrophenol	760 U
100-02-7	4-Nitrophenol	-
132-64-9	**Dibenzofuran**	**150**
121-14-2	2,4-Dinitrotoluene	-
606-20-2	2,6-Dinitrotoluene	380 U
84-66-2	Diethylphthalate	76 U
7005-72-3	4-Chlorophenyl-phenylether	76 U
86-73-7	**Fluorene**	**400**
100-01-6	4-Nitroaniline	380 U
534-52-1	4,6-Dinitro-2-Methylphenol	760 U
86-30-6	N-Nitrosodiphenylamine(1)	76 U
101-55-3	4-Bromophenyl-phenylether	76 U
118-74-1	Hexachlorobenzene	76 U
87-86-5	Pentachlorophenol	-
85-01-8	**Phenanthrene**	**1100**
120-12-7	Anthracene	76 U
84-74-2	Di-n-Butylphthalate	76 U
206-44-0	**Fluoranthene**	**98**
129-00-0	Pyrene	-
85-68-7	Butylbenzylphthalate	76 U
91-94-1	3,3'-Dichlorobenzidine	380 U
56-55-3	Benzo(a)Anthracene	76 U
117-81-7	**bis(2-Ethylhexyl)Phthalate**	**640**
218-01-9	**Chrysene**	**400**
117-84-0	**Di-n-Octyl Phthalate**	**220**
205-99-2	Benzo(b)Fluoranthene	76 U
207-08-9	Benzo(k)Fluoranthene	76 U
50-32-8	Benzo(a)Pyrene	76 U
193-39-5	Indeno(1,2,3-cd)Pyrene	76 U
53-70-3	Dibenz(a,h)Anthracene	76 U
191-24-2	Benzo(ghi)Perylene	76 U

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	94.4%
2-Fluorobiphenyl	120%
d14-p-Terphenyl	107%

***Acid surrogate recoveries**

d5-Phenol	102%
2-Fluorophenol	64.8%
2,4,6-Tribromophenol	71.6%

ORGANICS ANALYSIS DATA SHEET - METHOD 8270

Sample No: TB7 15
Matrix Spike Duplicate
Re-Extract

ANALYTICAL RESOURCES INCORPORATED

Analytical Chemists & Consultants

333 Ninth Ave. North
Seattle, Wa 98109-5187
(206) 621-6490

Lab Sample ID: 2399CMSDR
Sample Matrix: Soil/Sediments

QC Report No: 2399 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/16/88

Date Release Authorized: Susan D Pan
Report Prepared: 01/20/89 MAC: A

Dry weight extracted (gm): 27.13
Final Volume: 1.0 ml
Percent Moisture: 14.07%
pH: 8.39
Conc/Dilution Factor: 1 to 1
Total Dilution: 1 to 2

Date Extracted: 01/17/89
Date Analyzed: 01/18/89
GPC Clean-up: YES (1 of 2)
Instrument ID: FINN II

CAS Number		µg/Kg
108-95-2	Phenol	-
111-44-4	bis(2-Chloroethyl)Ether	74 U
95-57-8	2-Chlorophenol	-
541-73-1	1,3-Dichlorobenzene	74 U
106-46-7	1,4-Dichlorobenzene	-
100-51-6	Benzyl Alcohol	370 U
95-50-1	1,2-Dichlorobenzene	74 U
95-48-7	2-Methylphenol	74 U
39638-32-9	bis(2-chloroisopropyl)Ether	74 U
106-44-5	4-Methylphenol	74 U
621-64-7	N-Nitroso-Di-n-Propylamine	-
67-72-1	Hexachloroethane	150 U
98-95-3	Nitrobenzene	74 U
78-59-1	Isophorone	74 U
88-75-5	2-Nitrophenol	370 U
105-67-9	2,4-Dimethylphenol	150 U
65-85-0	Benzoic Acid	740 U
111-91-1	bis(2-Chloroethoxy)Methane	74 U
120-83-2	2,4-Dichlorophenol	220 U
120-82-1	1,2,4-Trichlorobenzene	-
91-20-3	**Naphthalene**	**850**
106-47-8	4-Chloroaniline	220 U
87-68-3	Hexachlorobutadiene	150 U
59-50-7	4-Chloro-3-Methylphenol	-
91-57-6	**2-Methylnaphthalene**	**4500**
77-47-4	Hexachlorocyclopentadiene	370 U
88-06-2	2,4,6-Trichlorophenol	370 U
95-95-4	2,4,5-Trichlorophenol	370 U
91-58-7	2-Chloronaphthalene	74 U
88-74-4	2-Nitroaniline	370 U
131-11-3	Dimethyl Phthalate	74 U
208-96-8	Acenaphthylene	74 U
99-09-2	3-Nitroaniline	370 U

CAS Number		µg/Kg
83-32-9	Acenaphthene	-
51-28-5	2,4-Dinitrophenol	740 U
100-02-7	4-Nitrophenol	-
132-64-9	**Dibenzofuran**	**120**
121-14-2	2,4-Dinitrotoluene	-
606-20-2	2,6-Dinitrotoluene	370 U
84-66-2	Diethylphthalate	74 U
7005-72-3	4-Chlorophenyl-phenylether	74 U
86-73-7	**Fluorene**	**260**
100-01-6	4-Nitroaniline	370 U
534-52-1	4,6-Dinitro-2-Methylphenol	740 U
86-30-6	N-Nitrosodiphenylamine(1)	74 U
101-55-3	4-Bromophenyl-phenylether	74 U
118-74-1	Hexachlorobenzene	74 U
87-86-5	Pentachlorophenol	-
85-01-8	**Phenanthrene**	**1100**
120-12-7	Anthracene	74 U
84-74-2	Di-n-Butylphthalate	74 U
206-44-0	**Fluoranthene**	**17**
129-00-0	Pyrene	-
85-68-7	Butylbenzylphthalate	74 U
91-94-1	3,3'-Dichlorobenzidine	370 U
56-55-3	Benzo(a)Anthracene	74 U
117-81-7	**bis(2-Ethylhexyl)Phthalate**	**340**
218-01-9	**Chrysene**	**150**
117-84-0	**Di-n-Octyl Phthalate**	**93**
205-99-2	Benzo(b)Fluoranthene	74 U
207-08-9	Benzo(k)Fluoranthene	74 U
50-32-8	Benzo(a)Pyrene	74 U
193-39-5	Indeno(1,2,3-cd)Pyrene	74 U
53-70-3	Dibenz(a,h)Anthracene	74 U
191-24-2	Benzo(ghi)Perylene	74 U

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	67.9%
2-Fluorobiphenyl	110%
d14-p-Terphenyl	90.7%

***Acid surrogate recoveries**

d5-Phenol	90.7%
2-Fluorophenol	56.2%
2,4,6-Tribromophenol	74.4%

ORGANICS ANALYSIS DATA SHEET - METHOD 8270 **Sample No: TB7 15 Re-Extract**

ANALYTICAL RESOURCES INCORPORATED

Analytical Chemists & Consultants

333 Ninth Ave. North
Seattle, Wa 98109-5187
(206) 621-6490

Lab Sample ID: 2399CR
Sample Matrix: Soil/Sediments

QC Report No: 2399 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/16/88

Date Release Authorized: Susan J Olson
Report Prepared: 01/20/89 MAC: A

Dry weight extracted (gm): 26.67
Final Volume: 1.0 ml
Percent Moisture: 14.07%
pH: 8.39
Conc/Dilution Factor: 1 to 1
Total Dilution: 1 to 2

Date Extracted: 01/17/89
Date Analyzed: 01/18/89
GPC Clean-up: YES (1 of 2)
Instrument ID: FINN II

CAS Number		µg/Kg
108-95-2	Phenol	75 U
111-44-4	bis(2-Chloroethyl)Ether	75 U
95-57-8	2-Chlorophenol	75 U
541-73-1	1,3-Dichlorobenzene	75 U
106-46-7	1,4-Dichlorobenzene	75 U
100-51-6	Benzyl Alcohol	370 U
95-50-1	1,2-Dichlorobenzene	75 U
95-48-7	2-Methylphenol	75 U
39638-32-9	bis(2-chloroisopropyl)Ether	75 U
106-44-5	4-Methylphenol	75 U
621-64-7	N-Nitroso-Di-n-Propylamine	75 U
67-72-1	Hexachloroethane	150 U
98-95-3	Nitrobenzene	75 U
78-59-1	Isophorone	75 U
88-75-5	2-Nitrophenol	370 U
105-67-9	2,4-Dimethylphenol	150 U
65-85-0	Benzoic Acid	750 U
111-91-1	bis(2-Chloroethoxy)Methane	75 U
120-83-2	2,4-Dichlorophenol	220 U
120-82-1	1,2,4-Trichlorobenzene	75 U
91-20-3	**Naphthalene**	**900**
106-47-8	4-Chloroaniline	220 U
87-68-3	Hexachlorobutadiene	150 U
59-50-7	4-Chloro-3-Methylphenol	150 U
91-57-6	**2-Methylnaphthalene**	**2400**
77-47-4	Hexachlorocyclopentadiene	370 U
88-06-2	2,4,6-Trichlorophenol	370 U
95-95-4	2,4,5-Trichlorophenol	370 U
91-58-7	2-Chloronaphthalene	75 U
88-74-4	2-Nitroaniline	370 U
131-11-3	Dimethyl Phthalate	75 U
208-96-8	Acenaphthylene	75 U
99-09-2	3-Nitroaniline	370 U

CAS Number		µg/Kg
83-32-9	**Acenaphthene**	**120 M**
51-28-5	2,4-Dinitrophenol	750 U
100-02-7	4-Nitrophenol	370 U
132-64-9	**Dibenzofuran**	**160**
121-14-2	2,4-Dinitrotoluene	370 U
606-20-2	2,6-Dinitrotoluene	370 U
84-66-2	Diethylphthalate	75 U
7005-72-3	4-Chlorophenyl-phenylether	75 U
86-73-7	**Fluorene**	**520**
100-01-6	4-Nitroaniline	370 U
534-52-1	4,6-Dinitro-2-Methylphenol	750 U
86-30-6	N-Nitrosodiphenylamine(1)	75 U
101-55-3	4-Bromophenyl-phenylether	75 U
118-74-1	Hexachlorobenzene	75 U
87-86-5	Pentachlorophenol	370 U
85-01-8	**Phenanthrene**	**1100**
120-12-7	Anthracene	75 U
84-74-2	Di-n-Butylphthalate	75 U
206-44-0	**Fluoranthene**	**150**
129-00-0	**Pyrene**	**22 M**
85-68-7	Butylbenzylphthalate	75 U
91-94-1	3,3'-Dichlorobenzidine	370 U
56-55-3	Benzo(a)Anthracene	75 U
117-81-7	**bis(2-Ethylhexyl)Phthalate**	**500**
218-01-9	**Chrysene**	**140**
117-84-0	**Di-n-Octyl Phthalate**	**180**
205-99-2	Benzo(b)Fluoranthene	75 U
207-08-9	Benzo(k)Fluoranthene	75 U
50-32-8	Benzo(a)Pyrene	75 U
193-39-5	Indeno(1,2,3-cd)Pyrene	75 U
53-70-3	Dibenz(a,h)Anthracene	75 U
191-24-2	Benzo(ghi)Perylene	75 U

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	86.0%
2-Fluorobiphenyl	103%
d14-p-Terphenyl	75.2%

***Acid surrogate recoveries**

d5-Phenol	98.4%
2-Fluorophenol	81.2%
2,4,6-Tribromophenol	48.6%

ANALYTICAL RESOURCES INCORPORATED

Analytical Chemists & Consultants

333 Ninth Ave. North
Seattle, Wa 98109-5187
(206) 621-6490

ORGANICS ANALYSIS DATA SHEET - METHOD 8270

Sample No: CP-108A-0-5

Lab Sample ID: 2444AD
Sample Matrix: Soils/Sediments

Date Release Authorized: Susan D. Pass
Report revised 03/21/89 MAC:B

QC Report No: 2444-Sweet Edwards
Project No: S940702 [Pier 91]
Date Received: 12/28/88

Date extracted: 01/04/89
Analyzed (FINN 2): 01/13/89
GPC Clean-up: YES (1 of 2)

Amount extracted: 30.5 gm (Dry Weight)
Percent Moisture: 5.2%
pH: 6.6
Conc/Dilution: 1 to 1 (After GPC)

CAS Number		µg/Kg
108-95-2	Phenol	66 U
111-44-4	bis(2-Chloroethyl)Ether	66 U
95-57-8	2-Chlorophenol	66 U
541-73-1	1,3-Dichlorobenzene	66 U
106-46-7	1,4-Dichlorobenzene	66 U
100-51-6	Benzyl Alcohol	330 U
95-50-1	1,2-Dichlorobenzene	66 U
95-48-7	2-Methylphenol	66 U
39638-32-9	bis(2-chloroisopropyl)Ether	66 U
106-44-5	4-Methylphenol	66 U
621-64-7	N-Nitroso-Di-n-Propylamine	66 U
67-72-1	Hexachloroethane	130 U
98-95-3	Nitrobenzene	66 U
78-59-1	Isophorone	66 U
88-75-5	2-Nitrophenol	330 U
105-67-9	2,4-Dimethylphenol	130 U
65-85-0	Benzoic Acid	660 U
111-91-1	bis(2-Chloroethoxy)Methane	66 U
120-83-2	2,4-Dichlorophenol	200 U
120-82-1	1,2,4-Trichlorobenzene	66 U
91-20-3	Naphthalene	66 U
106-47-8	4-Chloroaniline	200 U
87-68-3	Hexachlorobutadiene	130 U
59-50-7	4-Chloro-3-Methylphenol	130 U
91-57-6	2-Methylnaphthalene	66 U
77-47-4	Hexachlorocyclopentadiene	330 U
88-06-2	2,4,6-Trichlorophenol	330 U
95-95-4	2,4,5-Trichlorophenol	330 U
91-58-7	2-Chloronaphthalene	66 U
88-74-4	2-Nitroaniline	330 U
131-11-3	Dimethyl Phthalate	66 U
208-96-8	Acenaphthylene	66 U
99-09-2	3-Nitroaniline	330 U

CAS Number		µg/Kg
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87-86-5	Pentachlorophenol	330 U
85-01-8	Phenanthrene	66 U
120-12-7	Anthracene	66 U
84-74-2	Di-n-Butylphthalate	66 U
206-44-0	Fluoranthene	66 U
129-00-0	**Pyrene**	**100**
85-68-7	Butylbenzylphthalate	66 U
91-94-1	3,3'-Dichlorobenzidine	330 U
56-55-3	Benzo(a)Anthracene	66 U
117-81-7	bis(2-Ethylhexyl)Phthalate	66 U
218-01-9	**Chrysene**	**52 J**
117-84-0	Di-n-Octyl Phthalate	66 U
205-99-2	Benzo(b)Fluoranthene	66 U
207-08-9	Benzo(k)Fluoranthene	66 U
50-32-8	Benzo(a)Pyrene	66 U
193-39-5	Indeno(1,2,3-cd)Pyrene	66 U
53-70-3	Dibenz(a,h)Anthracene	66 U
191-24-2	Benzo(ghi)Perylene	66 U

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	60.7%
2-Fluorobiphenyl	120%
d14-p-Terphenyl	80.0%

***Acid surrogate recoveries**

d5-Phenol	71.7%
2-Fluorophenol	70.2%
2,4,6-Tribromophenol	75.3%