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FILE COPY

30 January 1989

Mel Miller
Chemical Processors, Inc.
2203 Airport Way South
Suite 400
Seattle, WA 98134

RE: Project No. Pier 91: ARI Project No. 02423

Dear Mel:

Please find enclosed the data for ARI job No. 02423.

If you have any questions or require additional information, please do not hesitate to call at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

David R Mitchell

David R. Mitchell
Project Manager

DRM/cd

enclosures

cc: file #2423
Jim Bailey: Sweet Edwards

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ORGANICS ANALYSIS DATA SHEET - METHOD 8240

Sample No: TB2-0-5

Lab Sample ID: 2423AD
Sample Matrix: Soil/Sediments

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

Data Release Authorized: [signature]
Report Prepared: 01/09/89 MACA

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

Amount Analyzed: 1.03 gm (Dry Weight)
Percent Moisture: 6.47%
pH: 6.72
Conc/Dil Factor: 1:1

CAS Number		µg/Kg	CAS Number		µg/Kg
74-87-3	Chloromethane	18 U	78-87-5	1,2-Dichloropropane	3.4 U
74-83-9	Bromomethane	15 U	10061-01-5	cis-1,3-Dichloropropene	9.2 U
75-01-4	Vinyl Chloride	9.7 U	**79-01-6**	**Trichloroethene**	**17**
75-00-3	Chloroethane	16 U	124-48-1	Dibromochloromethane	3.4 U
75-09-2	**Methylene Chloride**	**35 B**	79-00-5	1,1,2-Trichloroethane	3.4 U
67-64-1	Acetone	34 U	**71-43-2**	**Benzene**	**40**
75-15-0	Carbon Disulfide	5.8 U	10061-02-6	Trans-1,3-Dichloropropene	8.7 U
75-35-4	1,1-Dichloroethene	3.4 U	110-75-8	2-Chloroethylvinylether	13 U
75-34-3	**1,1-Dichloroethane**	**52**	75-25-2	Bromoform	12 U
540-59-0	1,2-Dichloroethene (Total)	3.9 U	108-10-1	4-Methyl-2-Pentanone	17 U
67-66-3	Chloroform	5.3 U	591-78-6	2-Hexanone	16 U
107-06-2	1,2-Dichloroethane	2.4 U	**127-18-4**	**Tetrachloroethene**	**78**
78-93-3	2-Butanone	30 U	79-34-5	1,1,2,2-Tetrachloroethane	13 U
71-55-6	**1,1,1-Trichloroethane**	**16**	**108-88-3**	**Toluene**	**3100 K**
56-23-5	Carbon Tetrachloride	4.4 U	108-90-7	Chlorobenzene	4.4 U
108-05-4	Vinyl Acetate	15 U	**100-41-4**	**Ethylbenzene**	**3800**
75-27-4	Bromodichloromethane	1.5 U	100-42-5	Styrene	5.3 U
77-69-4	Trichlorofluoromethane	4.9 U	**1330-20-7**	**Total Xylenes**	**7000**
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				4.9 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	75.9%
Bromofluorobenzene	46.2%
d4-1,2-Dichloroethane	93.3%

*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.

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ORGANICS ANALYSIS DATA SHEET - METHOD 8240

Sample No: TB2-0-5

Lab Sample ID: 2423ADM
Sample Matrix: Soil/Sediments

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

Data Release Authorized: Brian N. Bahr
Report Prepared: 01/09/89 MACA

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

Amount Analyzed: 0.0047 gm (Dry Weight)
Percent Moisture: 6.47%
pH: 6.72
Conc/Dil Factor: 1:1

CAS Number		µg/Kg	CAS Number		µg/Kg
74-87-3	Chloromethane	4000 U	78-87-5	1,2-Dichloropropane	740 U
74-83-9	Bromomethane	3300 U	10061-01-5	cis-1,3-Dichloropropene	2000 U
75-01-4	Vinyl Chloride	2100 U	79-01-6	Trichloroethene	640 U
75-00-3	Chloroethane	3500 U	124-48-1	Dibromochloromethane	740 U
75-09-2	**Methylene Chloride**	**5500 B**	79-00-5	1,1,2-Trichloroethane	740 U
67-64-1	Acetone	7300 U	71-43-2	Benzene	1100 U
75-15-0	Carbon Disulfide	1300 U	10061-02-6	Trans-1,3-Dichloropropene	1900 U
75-35-4	1,1-Dichloroethene	740 U	110-75-8	2-Chloroethylvinylether	2900 U
75-34-3	1,1-Dichloroethane	640 U	75-25-2	Bromoform	2700 U
540-59-0	1,2-Dichloroethene (Total)	850 U	108-10-1	4-Methyl-2-Pentanone	3700 U
67-66-3	Chloroform	1200 U	591-78-6	2-Hexanone	3400 U
107-06-2	1,2-Dichloroethane	530 U	127-18-4	Tetrachloroethene	530 U
78-93-3	2-Butanone	6600 U	79-34-5	1,1,2,2-Tetrachloroethane	2900 U
71-55-6	1,1,1-Trichloroethane	640 U	**108-88-3**	**Toluene**	**29000**
56-23-5	Carbon Tetrachloride	960 U	108-90-7	Chlorobenzene	960 U
108-05-4	Vinyl Acetate	3300 U	**100-41-4**	**Ethylbenzene**	**26000**
75-27-4	Bromodichloromethane	320 U	100-42-5	Styrene	1200 U
77-69-4	Trichlorofluoromethane	1100 U	**1330-20-7**	**Total Xylenes**	**60000**
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				1100 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	97.5%
Bromofluorobenzene	88.9%
d4-1,2-Dichloroethane	87.6%

*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.

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ORGANICS ANALYSIS DATA SHEET - METHOD 8240

Sample No: TB2-6-10

Lab Sample ID: 2423EG
Sample Matrix: Soil/Sediments

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

Data Release Authorized: _____
Report Prepared: 01/09/89 MACA

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

Amount Analyzed: 0.0041 gm (Dry Weight)
Percent Moisture: 17.12%
pH: 7.44
Conc/Dil Factor: 1:1

CAS Number		ug/Kg	CAS Number		ug/Kg
74-87-3	Chloromethane	4600 U	78-87-5	1,2-Dichloropropane	850 U
74-83-9	Bromomethane	3800 U	10061-01-5	cis-1,3-Dichloropropene	2300 U
75-01-4	Vinyl Chloride	2400 U	79-01-6	Trichloroethene	730 U
75-00-3	Chloroethane	4000 U	124-48-1	Dibromochloromethane	850 U
75-09-2	**Methylene Chloride**	**9200 B**	79-00-5	1,1,2-Trichloroethane	850 U
67-64-1	Acetone	8400 U	71-43-2	Benzene	1200 U
75-15-0	Carbon Disulfide	1500 U	10061-02-6	Trans-1,3-Dichloropropene	2200 U
75-35-4	1,1-Dichloroethene	850 U	110-75-8	2-Chloroethylvinylether	3300 U
75-34-3	1,1-Dichloroethane	730 U	75-25-2	Bromoform	3000 U
540-59-0	1,2-Dichloroethene (Total)	980 U	108-10-1	4-Methyl-2-Pentanone	4300 U
67-66-3	Chloroform	1300 U	591-78-6	2-Hexanone	3900 U
107-06-2	1,2-Dichloroethane	610 U	127-18-4	Tetrachloroethene	610 U
78-93-3	2-Butanone	7600 U	79-34-5	1,1,2,2-Tetrachloroethane	3300 U
71-55-6	1,1,1-Trichloroethane	730 U	**108-88-3**	**Toluene**	**14000**
56-23-5	Carbon Tetrachloride	1100 U	108-90-7	Chlorobenzene	1100 U
108-05-4	Vinyl Acetate	3800 U	**100-41-4**	**Ethylbenzene**	**9700**
75-27-4	Bromodichloromethane	370 U	100-42-5	Styrene	1300 U
77-69-4	Trichlorofluoromethane	1200 U	**1330-20-7**	**Total Xylenes**	**23000**
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				1200 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	99.5%
Bromofluorobenzene	92.2%
d4-1,2-Dichloroethane	88.8%

*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.

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ORGANICS ANALYSIS DATA SHEET - METHOD 8240

Sample No: TB2-2.5

Lab Sample ID: 2423H
Sample Matrix: Soil/Sediments

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

Data Release Authorized: Brian T. Gates
Report Prepared: 01/09/89 MACA

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

Amount Analyzed: 2.02 gm (Dry Weight)
Percent Moisture: 3.81%
pH: 6.41
Conc/Dil Factor: 1:1

CAS Number		µg/Kg	CAS Number		µg/Kg
74-87-3	Chloromethane	9.4 U	78-87-5	1,2-Dichloropropane	1.7 U
74-83-9	Bromomethane	7.7 U	10061-01-5	cis-1,3-Dichloropropene	4.7 U
75-01-4	Vinyl Chloride	5.0 U	79-01-6	Trichloroethene	1.5 U
75-00-3	Chloroethane	8.2 U	124-48-1	Dibromochloromethane	1.7 U
75-09-2	**Methylene Chloride**	**12 B**	79-00-5	1,1,2-Trichloroethane	1.7 U
67-64-1	**Acetone**	**88**	71-43-2	Benzene	2.5 U
75-15-0	Carbon Disulfide	3.0 U	10061-02-6	Trans-1,3-Dichloropropene	4.5 U
75-35-4	1,1-Dichloroethene	1.7 U	110-75-8	2-Chloroethylvinylether	6.7 U
75-34-3	1,1-Dichloroethane	1.5 U	75-25-2	Bromoform	6.2 U
540-59-0	1,2-Dichloroethene (Total)	2.0 U	108-10-1	4-Methyl-2-Pentanone	8.7 U
67-66-3	Chloroform	2.7 U	591-78-6	2-Hexanone	7.9 U
107-06-2	1,2-Dichloroethane	1.2 U	127-18-4	Tetrachloroethene	1.2 U
78-93-3	2-Butanone	15 U	79-34-5	1,1,2,2-Tetrachloroethane	6.7 U
71-55-6	1,1,1-Trichloroethane	1.5 U	**108-88-3**	**Toluene**	**3.6**
56-23-5	Carbon Tetrachloride	2.2 U	108-90-7	Chlorobenzene	2.2 U
108-05-4	Vinyl Acetate	7.7 U	**100-41-4**	**Ethylbenzene**	**3.6**
75-27-4	Bromodichloromethane	0.7 U	100-42-5	Styrene	2.7 U
77-69-4	Trichlorofluoromethane	2.5 U	**1330-20-7**	**Total Xylenes**	**8.5**
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				2.5 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	97.4%
Bromofluorobenzene	94.1%
d4-1,2-Dichloroethane	94.1%

*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.

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ORGANICS ANALYSIS DATA SHEET - METHOD 8240

Sample No: TB2-15

Lab Sample ID: 24231
Sample Matrix: Soil/Sediments

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

Data Release Authorized: Gary N. Peterson
Report Prepared: 01/09/89 MACA

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

Amount Analyzed: 0.017 gm (Dry Weight)
Percent Moisture: 15.54%
pH: 7.1
Conc/Dil Factor: 1:1

CAS Number		ug/Kg	CAS Number		µg/Kg
74-87-3	Chloromethane	1100 U	78-87-5	1,2-Dichloropropane	210 U
74-83-9	Bromomethane	910 U	10061-01-5	cis-1,3-Dichloropropene	560 U
75-01-4	Vinyl Chloride	590 U	79-01-6	Trichloroethene	180 U
75-00-3	Chloroethane	970 U	124-48-1	Dibromochloromethane	210 U
75-09-2	**Methylene Chloride**	**13000 B**	79-00-5	1,1,2-Trichloroethane	210 U
67-64-1	Acetone	2000 U	71-43-2	Benzene	290 U
75-15-0	Carbon Disulfide	350 U	10061-02-6	Trans-1,3-Dichloropropene	530 U
75-35-4	1,1-Dichloroethene	210 U	110-75-8	2-Chloroethylvinylether	790 U
75-34-3	1,1-Dichloroethane	180 U	75-25-2	Bromoform	740 U
540-59-0	1,2-Dichloroethene (Total)	240 U	108-10-1	4-Methyl-2-Pentanone	1000 U
67-66-3	Chloroform	320 U	591-78-6	2-Hexanone	940 U
107-06-2	1,2-Dichloroethane	150 U	127-18-4	Tetrachloroethene	150 U
78-93-3	2-Butanone	1800 U	79-34-5	1,1,2,2-Tetrachloroethane	790 U
71-55-6	1,1,1-Trichloroethane	180 U	**108-88-3**	**Toluene**	**940**
56-23-5	Carbon Tetrachloride	260 U	108-90-7	Chlorobenzene	260 U
108-05-4	Vinyl Acetate	910 U	**100-41-4**	**Ethylbenzene**	**930**
75-27-4	Bromodichloromethane	88 U	100-42-5	Styrene	320 U
77-69-4	Trichlorofluoromethane	290 U	**1330-20-7**	**Total Xylenes**	**2400**
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				290 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	101%
Bromofluorobenzene	91.7%
d4-1,2-Dichloroethane	89.0%

*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.

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ORGANICS ANALYSIS DATA SHEET - METHOD 8240

Sample No: TB2-20

Lab Sample ID: 2423J
Sample Matrix: Soil/Sediments

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

Data Release Authorized: _____
Report Prepared 01/09/89 MACA

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

Amount Analyzed: 0.86 gm (Dry Weight)
Percent Moisture: 20.16%
pH: 7.42
Conc/Dil Factor: 1:1

CAS Number		µg/Kg	CAS Number		µg/Kg
74-87-3	Chloromethane	22 U	78-87-5	1,2-Dichloropropane	4.1 U
74-83-9	Bromomethane	18 U	10061-01-5	cis-1,3-Dichloropropene	11 U
75-01-4	Vinyl Chloride	12 U	79-01-6	Trichloroethene	3.5 U
75-00-3	Chloroethane	19 U	124-48-1	Dibromochloromethane	4.1 U
75-09-2	**Methylene Chloride**	**36 B**	79-00-5	1,1,2-Trichloroethane	4.1 U
67-64-1	Acetone	40 U	71-43-2	Benzene	5.8 U
75-15-0	Carbon Disulfide	7.0 U	10061-02-6	Trans-1,3-Dichloropropene	11 U
75-35-4	1,1-Dichloroethene	4.1 U	110-75-8	2-Chloroethylvinylether	16 U
75-34-3	1,1-Dichloroethane	3.5 U	75-25-2	Bromoform	15 U
540-59-0	1,2-Dichloroethene (Total)	4.7 U	108-10-1	4-Methyl-2-Pentanone	20 U
67-66-3	Chloroform	6.4 U	591-78-6	2-Hexanone	19 U
107-06-2	1,2-Dichloroethane	2.9 U	127-18-4	Tetrachloroethene	2.9 U
78-93-3	2-Butanone	36 U	79-34-5	1,1,2,2-Tetrachloroethane	16 U
71-55-6	1,1,1-Trichloroethane	3.5 U	**108-88-3**	**Toluene**	**71**
56-23-5	Carbon Tetrachloride	5.2 U	108-90-7	Chlorobenzene	5.2 U
108-05-4	Vinyl Acetate	18 U	**100-41-4**	**Ethylbenzene**	**100**
75-27-4	Bromodichloromethane	1.7 U	100-42-5	Styrene	6.4 U
77-69-4	Trichlorofluoromethane	5.8 U	**1330-20-7**	**Total Xylenes**	**260**
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				5.8 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	99.1%
Bromofluorobenzene	113%
d4-1,2-Dichloroethane	92.3%

*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.

ORGANICS ANALYSIS DATA SHEET
METHOD 624/524

Sample No: TB2-A

ANALYTICAL RESOURCES INCORPORATED

Analytical Chemists & Consultants

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

Lab Sample ID: 2423K
Sample Matrix: Waters

QC Report No: 2423 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/21/88

Data Release Authorized: _____
Report Prepared: 01/09/89 MACA

Instrument ID: FINN III
Date Analyzed: 12/23/88
Conc/Dilution Factor: 1:10
Amount Analyzed: 5.00 ml

CAS Number		µg/L	CAS Number		µg/L
74-87-3	Chloromethane	29 U	78-87-5	1,2-Dichloropropane	6.0 U
74-83-9	Bromomethane	9.0 U	10061-01-5	Cis-1,3-Dichloropropene	5.0 U
75-01-4	**Vinyl Chloride**	**45**	79-01-6	Trichloroethene	8.0 U
75-00-3	**Chloroethane**	**1800**	124-48-1	Dibromochloromethane	9.0 U
75-09-2	**Methylene Chloride**	**100 B**	79-00-5	1,1,2-Trichloroethane	3.0 U
67-64-1	**Acetone**	**5000 K**	**71-43-2**	**Benzene**	**96**
75-15-0	Carbon Disulfide	20 U	10061-02-6	Trans-1,3-Dichloropropene	6.0 U
75-35-4	1,1-Dichloroethene	13 U	110-75-8	2-Chloroethylvinylether	15 U
75-34-3	**1,1-Dichloroethane**	**910**	75-25-2	Bromoform	3.0 U
156-60-5	**Trans-1,2-Dichloroethene**	**38**	**108-10-1**	**4-Methyl-2-Pentanone**	**1100**
156-57-2	**Cis-1,2-Dichloroethene**	**20**	591-78-6	2-Hexanone	13 U
67-66-3	Chloroform	9.0 U	127-18-4	Tetrachloroethene	6.0 U
107-06-2	1,2-Dichloroethane	6.0 U	79-34-5	1,1,2,2-Tetrachloroethane	6.0 U
78-93-3	**2-Butanone**	**4500 K**	**108-88-3**	**Toluene**	**2300**
71-55-6	1,1,1-Trichloroethane	10 U	108-90-7	Chlorobenzene	6.0 U
56-23-5	Carbon Tetrachloride	5.0 U	**100-41-4**	**Ethylbenzene**	**340**
108-05-4	Vinyl Acetate	17 U	100-42-5	Styrene	5.0 U
75-27-4	Bromodichloromethane	2.0 U	**1330-20-7**	**Total Xylenes**	**700**
77-69-4	Trichlorofluoromethane	10 U			
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				10 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	98.4%
Bromofluorobenzene	101%
d4-1,2-Dichloroethane	108%

Data Reporting Qualifiers

Value	If the result is a value greater than or equal to the detection limit, the value is reported.
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.

ORGANICS ANALYSIS DATA SHEET
METHOD 624/524

Sample No: TB2-A
Rerun

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Lab Sample ID: 2423K2
Sample Matrix: Waters

QC Report No: 2423 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/21/88

Data Release Authorized: _____
Report Prepared: 01/09/89 MACA

Instrument ID: FINN III
Date Analyzed: 12/27/88
Conc/Dilution Factor: 1:100
Amount Analyzed: 5.00 ml

CAS Number		ug/L
74-87-3	Chloromethane	290 U
74-83-9	Bromomethane	90 U
75-01-4	**Vinyl Chloride**	**28 M**
75-00-3	**Chloroethane**	**1800**
75-09-2	**Methylene Chloride**	**100 B**
67-64-1	**Acetone**	**2900**
75-15-0	Carbon Disulfide	200 U
75-35-4	1,1-Dichloroethene	130 U
75-34-3	**1,1-Dichloroethane**	**990**
156-60-5	**Trans-1,2-Dichloroethene**	**33 M**
156-57-2	Cis-1,2-Dichloroethene	120 U
67-66-3	Chloroform	90 U
107-06-2	1,2-Dichloroethane	60 U
78-93-3	**2-Butanone**	**2400**
71-55-6	1,1,1-Trichloroethane	100 U
56-23-5	Carbon Tetrachloride	50 U
108-05-4	Vinyl Acetate	170 U
75-27-4	Bromodichloromethane	20 U
77-69-4	Trichlorofluoromethane	100 U

CAS Number		ug/L
78-87-5	1,2-Dichloropropane	60 U
10061-01-5	Cis-1,3-Dichloropropene	50 U
79-01-6	Trichloroethene	80 U
124-48-1	Dibromochloromethane	90 U
79-00-5	1,1,2-Trichloroethane	30 U
71-43-2	**Benzene**	**97**
10061-02-6	Trans-1,3-Dichloropropene	60 U
110-75-8	2-Chloroethylvinylether	150 U
75-25-2	Bromoform	30 U
108-10-1	**4-Methyl-2-Pentanone**	**770**
591-78-6	2-Hexanone	130 U
127-18-4	Tetrachloroethene	60 U
79-34-5	1,1,2,2-Tetrachloroethane	60 U
108-88-3	**Toluene**	**2300**
108-90-7	Chlorobenzene	60 U
100-41-4	**Ethylbenzene**	**430**
100-42-5	Styrene	50 U
1330-20-7	**Total Xylenes**	**920**

76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	100 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	103%
Bromofluorobenzene	108%
d4-1,2-Dichloroethane	103%

Data Reporting Qualifiers

Value	If the result is a value greater than or equal to the detection limit, the value is reported.
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.

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ORGANICS ANALYSIS DATA SHEET
METHOD 624/524

Sample No: TB2-B

Lab Sample ID: 2423L
Sample Matrix: Waters

QC Report No: 2423 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/21/88

Data Release Authorized: [signature]
Report Prepared: 01/09/89 MACA

Instrument ID: FINN III
Date Analyzed: 12/23/88
Conc/Dilution Factor: 1:10
Amount Analyzed: 5.00 ml

CAS Number		µg/L	CAS Number		µg/L
74-87-3	Chloromethane	29 U	78-87-5	1,2-Dichloropropane	6.0 U
74-83-9	Bromomethane	9.0 U	10061-01-5	Cis-1,3-Dichloropropene	5.0 U
75-01-4	**Vinyl Chloride**	**42**	79-01-6	Trichloroethene	8.0 U
75-00-3	**Chloroethane**	**1700**	124-48-1	Dibromochloromethane	9.0 U
75-09-2	**Methylene Chloride**	**110 B**	79-00-5	1,1,2-Trichloroethane	3.0 U
67-64-1	**Acetone**	**6100 K**	**71-43-2**	**Benzene**	**97**
75-15-0	Carbon Disulfide	20 U	10061-02-6	Trans-1,3-Dichloropropene	6.0 U
75-35-4	1,1-Dichloroethene	13 U	110-75-8	2-Chloroethylvinylether	15 U
75-34-3	**1,1-Dichloroethane**	**1000**	75-25-2	Bromoform	3.0 U
156-60-5	**Trans-1,2-Dichloroethene**	**32**	**108-10-1**	**4-Methyl-2-Pentanone**	**1500**
156-57-2	**Cis-1,2-Dichloroethene**	**19**	591-78-6	2-Hexanone	13 U
67-66-3	Chloroform	9.0 U	127-18-4	Tetrachloroethene	6.0 U
107-06-2	1,2-Dichloroethane	6.0 U	79-34-5	1,1,2,2-Tetrachloroethane	6.0 U
78-93-3	**2-Butanone**	**5200 K**	**108-88-3**	**Toluene**	**2600**
71-55-6	1,1,1-Trichloroethane	10 U	108-90-7	Chlorobenzene	6.0 U
56-23-5	Carbon Tetrachloride	5.0 U	**100-41-4**	**Ethylbenzene**	**630**
108-05-4	Vinyl Acetate	17 U	100-42-5	Styrene	5.0 U
75-27-4	Bromodichloromethane	2.0 U	**1330-20-7**	**Total Xylenes**	**1500**
77-69-4	Trichlorofluoromethane	10 U			
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				10 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	99.1%
Bromofluorobenzene	113%
d4-1,2-Dichloroethane	109%

Data Reporting Qualifiers

Value	If the result is a value greater than or equal to the detection limit, the value is reported.
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.

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ORGANICS ANALYSIS DATA SHEET
METHOD 624/524

Sample No: TB2-B
Rerun (Vial #2)

Lab Sample ID: 2423L2
Sample Matrix: Waters

QC Report No: 2423 - Sweet Edwards
Project: 3940702
Pier 91

Data Release Authorized: Ryan N. Pelo
Report Prepared: 01/09/89 MACA

Date Received: 12/21/88

Instrument ID: FINN III
Date Analyzed: 12/27/88
Conc/Dilution Factor: 1:100
Amount Analyzed: 5.00 ml

CAS Number		µg/L	CAS Number		µg/L
74-87-3	Chloromethane	290 U	78-87-5	1,2-Dichloropropane	60 U
74-83-9	Bromomethane	90 U	10061-01-5	Cis-1,3-Dichloropropene	50 U
75-01-4	Vinyl Chloride	200 U	79-01-6	Trichloroethene	80 U
75-00-3	**Chloroethane**	**1800**	124-48-1	Dibromochloromethane	90 U
75-09-2	**Methylene Chloride**	**98 B**	79-00-5	1,1,2-Trichloroethane	30 U
67-64-1	**Acetone**	**2800**	**71-43-2**	**Benzene**	**100**
75-15-0	Carbon Disulfide	200 U	10061-02-6	Trans-1,3-Dichloropropene	60 U
75-35-4	1,1-Dichloroethene	130 U	110-75-8	2-Chloroethylvinylether	150 U
75-34-3	**1,1-Dichloroethane**	**910**	75-25-2	Bromoform	30 U
156-60-5	**Trans-1,2-Dichloroethene**	**32 M**	**108-10-1**	**4-Methyl-2-Pentanone**	**770**
156-57-2	Cis-1,2-Dichloroethene	120 U	591-78-6	2-Hexanone	130 U
67-66-3	Chloroform	90 U	127-18-4	Tetrachloroethene	60 U
107-06-2	1,2-Dichloroethane	60 U	79-34-5	1,1,2,2-Tetrachloroethane	60 U
78-93-3	**2-Butanone**	**2300**	**108-88-3**	**Toluene**	**2400**
71-55-6	1,1,1-Trichloroethane	100 U	108-90-7	Chlorobenzene	60 U
56-23-5	Carbon Tetrachloride	50 U	**100-41-4**	**Ethylbenzene**	**520**
108-05-4	Vinyl Acetate	170 U	100-42-5	Styrene	50 U
75-27-4	Bromodichloromethane	20 U	**1330-20-7**	**Total Xylenes**	**1100**
77-69-4	Trichlorofluoromethane	100 U			
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				100 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	106%
Bromofluorobenzene	107%
d4-1,2-Dichloroethane	102%

Data Reporting Qualifiers

Value	If the result is a value greater than or equal to the detection limit, the value is reported.
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

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ORGANICS ANALYSIS DATA SHEET - METHOD 625

Sample No: TB2-B

Lab Sample ID: 2423L
Sample Matrix: Waters

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

Date Release Authorized: Brian N. Edwards
Report Prepared: 01/13/89 MACA

Sample Volume: 1000 ml
Final Extract Volume: 1.0 ml
Conc/Dilution Factor: 1:20
Total Conc/Dilution: 1:20

Date Extracted: 12/30/88
Date Analyzed: 01/04/89
GPC Clean-up: YES (1 of 1)
Instrument ID: FINN II

CAS Number		ug/L
108-95-2	**Phenol**	**190**
111-44-4	bis(2-Chloroethyl)Ether	20 U
95-57-8	2-Chlorophenol	20 U
541-73-1	1,3-Dichlorobenzene	20 U
106-46-7	1,4-Dichlorobenzene	20 U
100-51-6	Benzyl Alcohol	170 UJ
95-50-1	1,2-Dichlorobenzene	20 U
95-48-7	**2-Methylphenol**	**160**
39638-32-9	bis(2-chloroisopropyl)Ether	20 U
106-44-5	**4-Methylphenol**	**350**
621-64-7	N-Nitroso-Di-n-Propylamine	20 U
67-72-1	Hexachloroethane	40 U
98-95-3	Nitrobenzene	20 U
78-59-1	Isophorone	20 U
88-75-5	2-Nitrophenol	100 U
105-67-9	**2,4-Dimethylphenol**	**250**
65-85-0	Benzoic Acid	200 U
111-91-1	bis(2-Chloroethoxy)Methane	20 U
120-83-2	2,4-Dichlorophenol	60 U
120-82-1	1,2,4-Trichlorobenzene	20 U
91-20-3	**Naphthalene**	**390**
106-47-8	4-Chloroaniline	60 U
87-68-3	Hexachlorobutadiene	40 U
59-50-7	4-Chloro-3-Methylphenol	40 U
91-57-6	**2-Methylnaphthalene**	**1000**
77-47-4	Hexachlorocyclopentadiene	100 U
88-06-2	2,4,6-Trichlorophenol	100 U
95-95-4	2,4,5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 U
88-74-4	2-Nitroaniline	100 U
131-11-3	Dimethyl Phthalate	20 U
208-96-8	Acenaphthylene	20 U
99-09-2	3-Nitroaniline	100 U

CAS Number		ug/L
83-32-9	**Acenaphthene**	**68**
51-28-5	2,4-Dinitrophenol	200 U
100-02-7	4-Nitrophenol	100 U
132-64-9	**Dibenzofuran**	**81**
121-14-2	2,4-Dinitrotoluene	100 U
606-20-2	2,6-Dinitrotoluene	100 U
84-66-2	Diethylphthalate	20 U
7005-72-3	4-Chlorophenyl-phenylether	20 U
86-73-7	**Fluorene**	**180**
100-01-6	4-Nitroaniline	100 U
534-52-1	4,6-Dinitro-2-Methylphenol	200 U
86-30-6	N-Nitrosodiphenylamine(1)	20 U
101-55-3	4-Bromophenyl-phenylether	20 U
118-74-1	Hexachlorobenzene	20 U
87-86-5	Pentachlorophenol	100 U
85-01-8	**Phenanthrene**	**340**
120-12-7	**Anthracene**	**20**
84-74-2	Di-n-Butylphthalate	20 U
206-44-0	**Fluoranthene**	**46**
129-00-0	**Pyrene**	**57**
85-68-7	Butylbenzylphthalate	20 U
91-94-1	3,3'-Dichlorobenzidine	100 U
56-55-3	**Benzo(a)Anthracene**	**15 J**
117-81-7	**bis(2-Ethylhexyl)Phthalate**	**1000**
218-01-9	**Chrysene**	**23**
117-84-0	Di-n-Octyl Phthalate	20 U
205-99-2	**Benzo(b)Fluoranthene &**	
207-08-9	**Benzo(k)Fluoranthene**	**14 J**
50-32-8	**Benzo(a)Pyrene**	**7.9 J**
193-39-5	Indeno(1,2,3-cd)Pyrene	20 U
53-70-3	Dibenz(a,h)Anthracene	20 U
191-24-2	Benzo(ghi)Perylene	20 U

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	129%
2-Fluorobiphenyl	66.6%
d14-p-Terphenyl	67.6%

***Acid surrogate recoveries**

d5-Phenol	51.0%
2-Fluorophenol	8.0%
2,4,6-Tribromophenol	15.5%

U = Sample analyzed beyond detection limit of analyte.

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ORGANICS ANALYSIS DATA SHEET
METHOD 624/524

Sample No: Method Blank

Lab Sample ID: MB1227
Sample Matrix: Waters

QC Report No: 2423 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/21/88

Data Release Authorized: Brian N. Ebner
Report Prepared 01/09/89 MACA

Instrument ID: FINN III
Date Analyzed: 12/27/88
Conc/Dilution Factor: 1:1
Amount Analyzed: 5.00 ml

CAS Number		µg/L	CAS Number		µg/L
74-87-3	Chloromethane	2.9 U	78-87-5	1,2-Dichloropropane	0.6 U
74-83-9	Bromomethane	0.9 U	10061-01-5	Cis-1,3-Dichloropropene	0.5 U
75-01-4	Vinyl Chloride	1.1 U	79-01-6	Trichloroethene	0.8 U
75-00-3	Chloroethane	0.9 U	124-48-1	Dibromochloromethane	0.9 U
75-09-2	**Methylene Chloride**	**0.3 M**	79-00-5	1,1,2-Trichloroethane	0.3 U
67-64-1	Acetone	0.6 U	71-43-2	Benzene	0.4 U
75-15-0	Carbon Disulfide	2.0 U	10061-02-6	Trans-1,3-Dichloropropene	0.6 U
75-35-4	1,1-Dichloroethene	1.3 U	110-75-8	2-Chloroethylvinylether	1.5 U
75-34-3	1,1-Dichloroethane	1.1 U	75-25-2	Bromoform	0.3 U
156-60-5	Trans-1,2-Dichloroethene	1.1 U	108-10-1	4-Methyl-2-Pentanone	1.8 U
156-57-2	Cis-1,2-Dichloroethene	1.2 U	591-78-6	2-Hexanone	1.3 U
67-66-3	Chloroform	0.9 U	127-18-4	Tetrachloroethene	0.6 U
107-06-2	1,2-Dichloroethane	0.6 U	79-34-5	1,1,2,2-Tetrachloroethane	0.6 U
78-93-3	2-Butanone	1.0 U	108-88-3	Toluene	0.6 U
71-55-6	1,1,1-Trichloroethane	1.0 U	108-90-7	Chlorobenzene	0.6 U
56-23-5	Carbon Tetrachloride	0.5 U	100-41-4	Ethylbenzene	1.0 U
108-05-4	Vinyl Acetate	1.7 U	100-42-5	Styrene	0.5 U
75-27-4	Bromodichloromethane	0.2 U	1330-20-7	Total Xylenes	1.5 U
77-69-4	Trichlorofluoromethane	1.0 U			
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				1.0 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	104%
Bromofluorobenzene	107%
d4-1,2-Dichloroethane	102%

Data Reporting Qualifiers

Value	If the result is a value greater than or equal to the detection limit, the value is reported.
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

ORGANICS ANALYSIS DATA SHEET
METHOD 624/524

Sample No: Method Blank

ANALYTICAL RESOURCES INCORPORATED

Analytical Chemists & Consultants

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Lab Sample ID: MB1223
Sample Matrix: Waters

QC Report No: 2423 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/21/88

Data Release Authorized: _____
Report Prepared: 01/09/89 MACA

Instrument ID: FINN III
Date Analyzed: 12/23/88
Conc/Dilution Factor: 1:1
Amount Analyzed: 5.00 ml

CAS Number		µg/L
74-87-3	Chloromethane	2.9 U
74-83-9	Bromomethane	0.9 U
75-01-4	Vinyl Chloride	1.1 U
75-00-3	Chloroethane	0.9 U
75-09-2	**Methylene Chloride**	**1.0**
67-64-1	Acetone	0.6 U
75-15-0	Carbon Disulfide	2.0 U
75-35-4	1,1-Dichloroethene	1.3 U
75-34-3	1,1-Dichloroethane	1.1 U
156-60-5	Trans-1,2-Dichloroethene	1.1 U
156-57-2	Cis-1,2-Dichloroethene	1.2 U
67-66-3	Chloroform	0.9 U
107-06-2	1,2-Dichloroethane	0.6 U
78-93-3	2-Butanone	1.0 U
71-55-6	1,1,1-Trichloroethane	1.0 U
56-23-5	Carbon Tetrachloride	0.5 U
108-05-4	Vinyl Acetate	1.7 U
75-27-4	Bromodichloromethane	0.2 U
77-69-4	Trichlorofluoromethane	1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0 U

CAS Number		µg/L
78-87-5	1,2-Dichloropropane	0.6 U
10061-01-5	Cis-1,3-Dichloropropene	0.5 U
79-01-6	Trichloroethene	0.8 U
124-48-1	Dibromochloromethane	0.9 U
79-00-5	1,1,2-Trichloroethane	0.3 U
71-43-2	Benzene	0.4 U
10061-02-6	Trans-1,3-Dichloropropene	0.6 U
110-75-8	2-Chloroethylvinylether	1.5 U
75-25-2	Bromoform	0.3 U
108-10-1	4-Methyl-2-Pentanone	1.8 U
591-78-6	2-Hexanone	1.3 U
127-18-4	Tetrachloroethene	0.6 U
79-34-5	1,1,2,2-Tetrachloroethane	0.6 U
108-88-3	Toluene	0.6 U
108-90-7	Chlorobenzene	0.6 U
100-41-4	Ethylbenzene	1.0 U
100-42-5	Styrene	0.5 U
1330-20-7	Total Xylenes	1.5 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	102%
Bromofluorobenzene	110%
d4-1,2-Dichloroethane	104%

Data Reporting Qualifiers

Value	If the result is a value greater than or equal to the detection limit, the value is reported.
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

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ORGANICS ANALYSIS DATA SHEET - METHOD 625

Sample No: Method Blank

Lab Sample ID: 2423MB
Sample Matrix: Waters

Date Release Authorized: [signature]
Report Prepared: 01/13/89 MAOA

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

Date Extracted: 12/30/88
Date Analyzed: 01/10/89
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		ug/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	90.9%
2-Fluorobiphenyl	82.3%
d14-p-Terphenyl	117%

***Acid surrogate recoveries**

d5-Phenol	35.6%
2-Fluorophenol	55.6%
2,4,6-Tribromophenol	95.5%

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ORGANICS ANALYSIS DATA SHEET - METHOD 8270

Sample No: TB2-0-5

Lab Sample ID: 2423AD
Sample Matrix: Soil/Sediments

QC Report No: 2423 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/21/88

Date Release Authorized: Brian N. Bebee
Report Revised: 03/21/89 MAC: A

Dry weight extracted (gm): 30.73
Final Volume: 1.0 ml
Percent Moisture: 6.47%
pH: 6.72
Conc/Dilution Factor: 1 to 5
Total Dilution: 1 to 10

Date Extracted: 12/30/88
Date Analyzed: 01/06/89
GPC Clean-up: YES (1 of 2)
Instrument ID: FINN II

CAS Number		µg/Kg
108-95-2	Phenol	330 U
111-44-4	bis(2-Chloroethyl)Ether	330 U
95-57-8	2-Chlorophenol	330 U
541-73-1	1,3-Dichlorobenzene	330 U
106-46-7	1,4-Dichlorobenzene	330 U
100-51-6	Benzyl Alcohol	1600 UJ
95-50-1	1,2-Dichlorobenzene	330 U
95-48-7	2-Methylphenol	330 U
39638-32-9	bis(2-chloroisopropyl)Ether	330 U
106-44-5	4-Methylphenol	330 U
621-64-7	N-Nitroso-Di-n-Propylamine	330 U
67-72-1	Hexachloroethane	650 U
98-95-3	Nitrobenzene	330 U
78-59-1	Isophorone	330 U
88-75-5	2-Nitrophenol	1600 U
105-67-9	2,4-Dimethylphenol	650 U
65-85-0	Benzoic Acid	3300 U
111-91-1	bis(2-Chloroethoxy)Methane	330 U
120-83-2	2,4-Dichlorophenol	980 U
120-82-1	1,2,4-Trichlorobenzene	330 U
91-20-3	**Naphthalene**	**4200**
106-47-8	4-Chloroaniline	976 U
87-68-3	Hexachlorobutadiene	650 U
59-50-7	4-Chloro-3-Methylphenol	650 U
91-57-6	**2-Methylnaphthalene**	**15000**
77-47-4	Hexachlorocyclopentadiene	1600 U
88-06-2	2,4,6-Trichlorophenol	1600 U
95-95-4	2,4,5-Trichlorophenol	1600 U
91-58-7	2-Chloronaphthalene	330 U
88-74-4	2-Nitroaniline	1600 U
131-11-3	Dimethyl Phthalate	330 U
208-96-8	Acenaphthylene	330 U
99-09-2	3-Nitroaniline	1600 U

CAS Number		µg/Kg
83-32-9	**Acenaphthene**	**880**
51-28-5	2,4-Dinitrophenol	3300 U
100-02-7	4-Nitrophenol	1600 U
132-64-9	**Dibenzofuran**	**1100**
121-14-2	2,4-Dinitrotoluene	1600 U
606-20-2	2,6-Dinitrotoluene	1600 U
84-66-2	Diethylphthalate	330 U
7005-72-3	4-Chlorophenyl-phenylether	330 U
86-73-7	**Fluorene**	**2000**
100-01-6	4-Nitroaniline	1600 U
534-52-1	4,6-Dinitro-2-Methylphenol	3300 U
86-30-6	N-Nitrosodiphenylamine(1)	330 U
101-55-3	4-Bromophenyl-phenylether	330 U
118-74-1	Hexachlorobenzene	330 U
87-86-5	Pentachlorophenol	1600 U
85-01-8	**Phenanthrene**	**4600**
120-12-7	**Anthracene**	**250 J**
84-74-2	Di-n-Butylphthalate	330 U
206-44-0	**Fluoranthene**	**560**
129-00-0	**Pyrene**	**910**
85-68-7	Butylbenzylphthalate	330 U
91-94-1	3,3'-Dichlorobenzidine	1600 U
56-55-3	**Benzo(a)Anthracene**	**480**
117-81-7	**bis(2-Ethylhexyl)Phthalate**	**330**
218-01-9	**Chrysene**	**530**
117-84-0	Di-n-Octyl Phthalate	330 U
205-99-2 **207-08-9**	**Benzo(b)Fluoranthene &** **Benzo(k)Fluoranthene**	**820**
50-32-8	**Benzo(a)Pyrene**	**470**
193-39-5	**Indeno(1,2,3-cd)Pyrene**	**490**
53-70-3	**Dibenz(a,h)Anthracene**	**300 J**
191-24-2	**Benzo(ghi)Perylene**	**440**

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	18.0%
2-Fluorobiphenyl	99.1%
d14-o-Terphenyl	102%

***Acid surrogate recoveries**

d5-Phenol	42.5%
2-Fluorophenol	22.4%
2,4,6-Tribromophenol	7.1%

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ORGANICS ANALYSIS DATA SHEET - METHOD 8270

Sample No: TB2-6-10

Lab Sample ID: 2423EG
Sample Matrix: Soil/Sediments

QC Report No: 2423 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/21/88

Date Release Authorized: [signature]
Report Revised: 05/21/89 MAC:A

Dry weight extracted (gm): 26.77
Final Volume: 1.0 ml
Percent Moisture: 17.12%
pH: 7.44
Conc/Dilution Factor: 1 to 2
Total Dilution: 1 to 4

Date Extracted: 12/30/88
Date Analyzed: 01/06/89
GPC Clean-up: YES (1 of 2)
Instrument ID: FINN II

CAS Number		µg/Kg
108-95-2	Phenol	150 U
111-44-4	bis(2-Chloroethyl)Ether	150 U
95-57-8	2-Chlorophenol	150 U
541-73-1	1,3-Dichlorobenzene	150 U
106-46-7	1,4-Dichlorobenzene	150 U
100-51-6	Benzyl Alcohol	240 UJ
95-50-1	1,2-Dichlorobenzene	150 U
95-48-7	2-Methylphenol	150 U
39638-32-9	bis(2-chloroisopropyl)Ether	150 U
106-44-5	4-Methylphenol	150 U
621-64-7	N-Nitroso-Di-n-Propylamine	150 U
67-72-1	Hexachloroethane	300 U
98-95-3	Nitrobenzene	150 U
78-59-1	Isophorone	150 U
88-75-5	2-Nitrophenol	750 U
105-67-9	2,4-Dimethylphenol	300 U
65-85-0	Benzoic Acid	1500 U
111-91-1	bis(2-Chloroethoxy)Methane	150 U
120-83-2	2,4-Dichlorophenol	450 U
120-82-1	1,2,4-Trichlorobenzene	150 U
91-20-3	**Naphthalene**	**900**
106-47-8	4-Chloroaniline	450 U
87-68-3	Hexachlorobutadiene	300 U
59-50-7	4-Chloro-3-Methylphenol	300 U
91-57-6	**2-Methylnaphthalene**	**2800**
77-47-4	Hexachlorocyclopentadiene	750 U
88-06-2	2,4,6-Trichlorophenol	750 U
95-95-4	2,4,5-Trichlorophenol	750 U
91-58-7	2-Chloronaphthalene	150 U
88-74-4	2-Nitroaniline	750 U
131-11-3	Dimethyl Phthalate	150 U
208-96-8	Acenaphthylene	150 U
99-09-2	3-Nitroaniline	750 U

CAS Number		µg/Kg
83-32-9	**Acenaphthene**	**160**
51-28-5	2,4-Dinitrophenol	1500 U
100-02-7	4-Nitrophenol	750 U
132-64-9	**Dibenzofuran**	**170**
121-14-2	2,4-Dinitrotoluene	750 U
606-20-2	2,6-Dinitrotoluene	750 U
84-66-2	Diethylphthalate	150 U
7005-72-3	4-Chlorophenyl-phenylether	150 U
86-73-7	**Fluorene**	**410**
100-01-6	4-Nitroaniline	750 U
534-52-1	4,6-Dinitro-2-Methylphenol	1500 U
86-30-6	N-Nitrosodiphenylamine(1)	150 U
101-55-3	4-Bromophenyl-phenylether	150 U
118-74-1	Hexachlorobenzene	150 U
87-86-5	Pentachlorophenol	750 U
85-01-8	**Phenanthrene**	**820**
120-12-7	Anthracene	150 U
84-74-2	Di-n-Butylphthalate	150 U
206-44-0	**Fluoranthene**	**110 J**
129-00-0	**Pyrene**	**150 J**
85-68-7	Butylbenzylphthalate	150 U
91-94-1	3,3'-Dichlorobenzidine	750 U
56-55-3	**Benzo(a)Anthracene**	**84 M**
117-81-7	bis(2-Ethylhexyl)Phthalate	150 U
218-01-9	**Chrysene**	**100 J**
117-84-0	Di-n-Octyl Phthalate	150 U
205-99-2	**Benzo(b)Fluoranthene &**	
207-08-9	**Benzo(k)Fluoranthene**	**82 J**
50-32-8	**Benzo(a)Pyrene**	**57 J**
193-39-5	Indeno(1,2,3-cd)Pyrene	150 U
53-70-3	Dibenz(a,h)Anthracene	150 U
191-24-2	Benzo(ghi)Perylene	150 U

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	1.1%
2-Fluorobiphenyl	12.8%
d14-p-Terphenyl	12.5%

***Acid surrogate recoveries**

d5-Phenol	3.5%
2-Fluorophenol	1.5%
2,4,6-Tribromophenol	0.0%

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ORGANICS ANALYSIS DATA SHEET - METHOD 8270

Sample No: TB2-6-10 Re-Extract

Lab Sample ID: 2423EG
Sample Matrix: Soil/Sediments

QC Report No: 2423 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/21/88

Date Release Authorized: [signature]
Report Revised: 03/21/89 MAC: A

Dry weight extracted (gm): 29.65
Final Volume: 2.0 ml
Percent Moisture: 17.12%
pH: 7.44
Conc/Dilution Factor: 1 to 2
Total Dilution: 1 to 4

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

CAS Number		µg/Kg
108-95-2	Phenol	130 U
111-44-4	bis(2-Chloroethyl)Ether	130 U
95-57-8	2-Chlorophenol	130 U
541-73-1	1,3-Dichlorobenzene	130 U
106-46-7	1,4-Dichlorobenzene	130 U
100-51-6	Benzyl Alcohol	2100 UJ
95-50-1	1,2-Dichlorobenzene	130 U
95-48-7	2-Methylphenol	130 U
39638-32-9	bis(2-chloroisopropyl)Ether	130 U
106-44-5	4-Methylphenol	130 U
621-64-7	N-Nitroso-Di-n-Propylamine	130 U
67-72-1	Hexachloroethane	270 U
98-95-3	Nitrobenzene	130 U
78-59-1	Isophorone	130 U
88-75-5	2-Nitrophenol	670 U
105-67-9	2,4-Dimethylphenol	270 U
65-85-0	Benzoic Acid	1300 U
111-91-1	bis(2-Chloroethoxy)Methane	130 U
120-83-2	2,4-Dichlorophenol	400 U
120-82-1	1,2,4-Trichlorobenzene	130 U
91-20-3	**Naphthalene**	**4300**
106-47-8	4-Chloroaniline	400 U
87-68-3	Hexachlorobutadiene	270 U
59-50-7	4-Chloro-3-Methylphenol	270 U
91-57-6	**2-Methylnaphthalene**	**17000**
77-47-4	Hexachlorocyclopentadiene	670 U
88-06-2	2,4,6-Trichlorophenol	670 U
95-95-4	2,4,5-Trichlorophenol	670 U
91-58-7	2-Chloronaphthalene	130 U
88-74-4	2-Nitroaniline	670 U
131-11-3	Dimethyl Phthalate	130 U
208-96-8	Acenaphthylene	130 U
99-09-2	3-Nitroaniline	670 U

CAS Number		µg/Kg
83-32-9	**Acenaphthene**	**660**
51-28-5	2,4-Dinitrophenol	1300 U
100-02-7	4-Nitrophenol	670 U
132-64-9	**Dibenzofuran**	**1200**
121-14-2	2,4-Dinitrotoluene	670 U
606-20-2	2,6-Dinitrotoluene	670 U
84-66-2	Diethylphthalate	130 U
7005-72-3	4-Chlorophenyl-phenylether	130 U
86-73-7	**Fluorene**	**3900**
100-01-6	4-Nitroaniline	670 U
534-52-1	4,6-Dinitro-2-Methylphenol	1300 U
86-30-6	N-Nitrosodiphenylamine(1)	130 U
101-55-3	4-Bromophenyl-phenylether	130 U
118-74-1	Hexachlorobenzene	130 U
87-86-5	Pentachlorophenol	670 U
85-01-8	**Phenanthrene**	**4000**
120-12-7	Anthracene	130 U
84-74-2	Di-n-Butylphthalate	130 U
206-44-0	**Fluoranthene**	**730**
129-00-0	**Pyrene**	**480**
85-68-7	Butylbenzylphthalate	130 U
91-94-1	3,3'-Dichlorobenzidine	670 U
56-55-3	**Benzo(a)Anthracene**	**400**
117-81-7	**bis(2-Ethylhexyl)Phthalate**	**480**
218-01-9	**Chrysene**	**380**
117-84-0	Di-n-Octyl Phthalate	130 U
205-99-2	Benzo(b)Fluoranthene	130 U
207-08-9	Benzo(k)Fluoranthene	130 U
50-32-8	Benzo(a)Pyrene	130 U
193-39-5	Indeno(1,2,3-cd)Pyrene	130 U
53-70-3	Dibenz(a,h)Anthracene	130 U
191-24-2	Benzo(ghi)Perylene	130 U

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	54.4%
2-Fluorobiphenyl	78.7%
d14-p-Terphenyl	56.2%

***Acid surrogate recoveries**

d5-Phenol	65.9%
2-Fluorophenol	30.2%
2,4,6-Tribromophenol	45.2%

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ORGANICS ANALYSIS DATA SHEET - METHOD 8270

Sample No: TB2-2.5

Lab Sample ID: 2423H
Sample Matrix: Soil/Sediments

QC Report No: 2423 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/21/88

Date Release Authorized: Brian N. Gabel
Report Revised: 03/21/89 MAC: A

Dry weight extracted (gm): 34.27
Final Volume: 1.0 ml
Percent Moisture: 3.81%
pH: 6.41
Conc/Dilution Factor: 1 to 2
Total Dilution: 1 to 2

Date Extracted: 12/30/88
Date Analyzed: 01/04/89
GPC Clean-up: NO
Instrument ID: FINN IV

CAS Number		µg/Kg
108-95-2	Phenol	58 U
111-44-4	bis(2-Chloroethyl)Ether	58 U
95-57-8	2-Chlorophenol	58 U
541-73-1	1,3-Dichlorobenzene	58 U
106-46-7	1,4-Dichlorobenzene	58 U
100-51-6	Benzyl Alcohol	290 U
95-50-1	1,2-Dichlorobenzene	58 U
95-48-7	2-Methylphenol	58 U
39638-32-9	bis(2-chloroisopropyl)Ether	58 U
106-44-5	4-Methylphenol	58 U
621-64-7	N-Nitroso-Di-n-Propylamine	58 U
67-72-1	Hexachloroethane	120 U
98-95-3	Nitrobenzene	58 U
78-59-1	Isophorone	58 U
88-75-5	2-Nitrophenol	290 U
105-67-9	2,4-Dimethylphenol	120 U
65-85-0	Benzoic Acid	580 U
111-91-1	bis(2-Chloroethoxy)Methane	58 U
120-83-2	2,4-Dichlorophenol	175 U
120-82-1	1,2,4-Trichlorobenzene	58 U
91-20-3	**Naphthalene**	**91**
106-47-8	4-Chloroaniline	175 U
87-68-3	Hexachlorobutadiene	120 U
59-50-7	4-Chloro-3-Methylphenol	120 U
91-57-6	**2-Methylnaphthalene**	**100**
77-47-4	Hexachlorocyclopentadiene	290 U
88-06-2	2,4,6-Trichlorophenol	290 U
95-95-4	2,4,5-Trichlorophenol	290 U
91-58-7	2-Chloronaphthalene	58 U
88-74-4	2-Nitroaniline	290 U
131-11-3	Dimethyl Phthalate	58 U
208-96-8	Acenaphthylene	58 U
99-09-2	3-Nitroaniline	290 U

CAS Number		µg/Kg
83-32-9	Acenaphthene	58 U
51-28-5	2,4-Dinitrophenol	580 U
100-02-7	4-Nitrophenol	290 U
132-64-9	Dibenzofuran	58 U
121-14-2	2,4-Dinitrotoluene	290 U
606-20-2	2,6-Dinitrotoluene	290 U
84-66-2	Diethylphthalate	58 U
7005-72-3	4-Chlorophenyl-phenylether	58 U
86-73-7	Fluorene	58 U
100-01-6	4-Nitroaniline	290 U
534-52-1	4,6-Dinitro-2-Methylphenol	580 U
86-30-6	N-Nitrosodiphenylamine(1)	58 U
101-55-3	4-Bromophenyl-phenylether	58 U
118-74-1	Hexachlorobenzene	58 U
87-86-5	Pentachlorophenol	290 U
85-01-8	Phenanthrene	58 U
120-12-7	Anthracene	58 U
84-74-2	Di-n-Butylphthalate	58 U
206-44-0	Fluoranthene	58 U
129-00-0	Pyrene	58 U
85-68-7	Butylbenzylphthalate	58 U
91-94-1	3,3'-Dichlorobenzidine	290 U
56-55-3	Benzo(a)Anthracene	58 U
117-81-7	bis(2-Ethylhexyl)Phthalate	58 U
218-01-9	Chrysene	58 U
117-84-0	Di-n-Octyl Phthalate	58 U
205-99-2	Benzo(b)Fluoranthene	58 U
207-08-9	Benzo(k)Fluoranthene	58 U
50-32-8	Benzo(a)Pyrene	58 U
193-39-5	Indeno(1,2,3-cd)Pyrene	58 U
53-70-3	Dibenz(a,h)Anthracene	58 U
191-24-2	Benzo(ghi)Perylene	58 U

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	94.8%
2-Fluorobiphenyl	89.1%
d14-p-Terphenyl	92.8%

***Acid surrogate recoveries**

d5-Phenol	88.1%
2-Fluorophenol	90.3%
2,4,6-Tribromophenol	106%

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ORGANICS ANALYSIS DATA SHEET - METHOD 8270

Sample No: TB2-15

Lab Sample ID: 24231
Sample Matrix: Soil/Sediments

QC Report No: 2423 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/21/88

Date Release Authorized: Brian N. Cole
Report Revised: 03/21/89 MAC: A

Dry weight extracted (gm): 29.08
Final Volume: 1.0 ml
Percent Moisture: 15.54%
pH: 7.10
Conc/Dilution Factor: 1 to 2
Total Dilution: 1 to 2

Date Extracted: 12/30/88
Date Analyzed: 01/04/89
GPC Clean-up: NO
Instrument ID: FINN IV

CAS Number		µg/Kg
108-95-2	Phenol	69 U
111-44-4	bis(2-Chloroethyl)Ether	69 U
95-57-8	2-Chlorophenol	69 U
541-73-1	1,3-Dichlorobenzene	69 U
106-46-7	1,4-Dichlorobenzene	69 U
100-51-6	Benzyl Alcohol	170 UJ
95-50-1	1,2-Dichlorobenzene	69 U
95-48-7	2-Methylphenol	69 U
39638-32-9	bis(2-chloroisopropyl)Ether	69 U
106-44-5	4-Methylphenol	90 UJ
621-64-7	N-Nitroso-Di-n-Propylamine	69 U
67-72-1	Hexachloroethane	140 U
98-95-3	Nitrobenzene	69 U
78-59-1	Isophorone	69 U
88-75-5	2-Nitrophenol	340 U
105-67-9	2,4-Dimethylphenol	140 U
65-85-0	Benzoic Acid	690 U
111-91-1	bis(2-Chloroethoxy)Methane	69 U
120-83-2	2,4-Dichlorophenol	210 U
120-82-1	1,2,4-Trichlorobenzene	69 U
91-20-3	**Naphthalene**	**760**
106-47-8	4-Chloroaniline	210 U
87-68-3	Hexachlorobutadiene	140 U
59-50-7	4-Chloro-3-Methylphenol	140 U
91-57-6	**2-Methylnaphthalene**	**1700**
77-47-4	Hexachlorocyclopentadiene	340 U
88-06-2	2,4,6-Trichlorophenol	340 U
95-95-4	2,4,5-Trichlorophenol	340 U
91-58-7	2-Chloronaphthalene	69 U
88-74-4	2-Nitroaniline	340 U
131-11-3	Dimethyl Phthalate	69 U
208-96-8	Acenaphthylene	69 U
99-09-2	3-Nitroaniline	340 U

CAS Number		µg/Kg
83-32-9	**Acenaphthene**	**230**
51-28-5	2,4-Dinitrophenol	690 U
100-02-7	4-Nitrophenol	340 U
132-64-9	**Dibenzofuran**	**180**
121-14-2	2,4-Dinitrotoluene	340 U
606-20-2	2,6-Dinitrotoluene	340 U
84-66-2	Diethylphthalate	69 U
7005-72-3	4-Chlorophenyl-phenylether	69 U
86-73-7	**Fluorene**	**570**
100-01-6	4-Nitroaniline	340 U
534-52-1	4,6-Dinitro-2-Methylphenol	690 U
86-30-6	N-Nitrosodiphenylamine(1)	69 U
101-55-3	4-Bromophenyl-phenylether	69 U
118-74-1	Hexachlorobenzene	69 U
87-86-5	Pentachlorophenol	340 U
85-01-8	**Phenanthrene**	**1200**
120-12-7	**Anthracene**	**71 M**
84-74-2	Di-n-Butylphthalate	69 U
206-44-0	**Fluoranthene**	**140**
129-00-0	**Pyrene**	**210**
85-68-7	Butylbenzylphthalate	69 U
91-94-1	3,3'-Dichlorobenzidine	340 U
56-55-3	**Benzo(a)Anthracene**	**52 J**
117-81-7	bis(2-Ethylhexyl)Phthalate	69 U
218-01-9	**Chrysene**	**79**
117-84-0	Di-n-Octyl Phthalate	69 U
205-99-2	Benzo(b)Fluoranthene	69 U
207-08-9	Benzo(k)Fluoranthene	69 U
50-32-8	Benzo(a)Pyrene	69 U
193-39-5	Indeno(1,2,3-cd)Pyrene	69 U
53-70-3	Dibenz(a,h)Anthracene	69 U
191-24-2	Benzo(ghi)Perylene	69 U

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	80.8%
2-Fluorobiphenyl	85.6%
d14-p-Terphenyl	84.1%

***Acid surrogate recoveries**

d5-Phenol	76.7%
2-Fluorophenol	78.8%
2,4,6-Tribromophenol	93.0%

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ORGANICS ANALYSIS DATA SHEET - METHOD 8270

Sample No: TB2-20

Lab Sample ID: 2423J
Sample Matrix: Soil/Sediments

QC Report No: 2423 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/21/88

Date Release Authorized: Brian N Cohen
Report Revised: 03/21/89 MAC: A

Dry weight extracted (gm): 26.43
Final Volume: 1.0 ml
Percent Moisture: 20.16%
pH: 7.42
Conc/Dilution Factor: 1 to 2
Total Dilution: 1 to 2

Date Extracted: 12/30/88
Date Analyzed: 01/04/89
GPC Clean-up: NO
Instrument ID: FINN IV

CAS Number		µg/Kg
108-95-2	Phenol	76 U
111-44-4	bis(2-Chloroethyl)Ether	76 U
95-57-8	2-Chlorophenol	76 U
541-73-1	1,3-Dichlorobenzene	76 U
106-46-7	1,4-Dichlorobenzene	76 U
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	76 U
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	227 U
120-82-1	1,2,4-Trichlorobenzene	76 U
91-20-3	**Naphthalene**	**100**
106-47-8	4-Chloroaniline	227 U
87-68-3	Hexachlorobutadiene	150 U
59-50-7	4-Chloro-3-Methylphenol	150 U
91-57-6	**2-Methylnaphthalene**	**290**
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**	**49 J**
51-28-5	2,4-Dinitrophenol	760 U
100-02-7	4-Nitrophenol	380 U
132-64-9	Dibenzofuran	76 U
121-14-2	2,4-Dinitrotoluene	380 U
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**	**180**
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	380 U
85-01-8	**Phenanthrene**	**360**
120-12-7	**Anthracene**	**24 J**
84-74-2	Di-n-Butylphthalate	76 U
206-44-0	**Fluoranthene**	**37 J**
129-00-0	**Pyrene**	**61 J**
85-68-7	Butylbenzylphthalate	76 U
91-94-1	3,3'-Dichlorobenzidine	380 U
56-55-3	**Benzo(a)Anthracene**	**23 J**
117-81-7	**bis(2-Ethylhexyl)Phthalate**	**84**
218-01-9	**Chrysene**	**26 J**
117-84-0	Di-n-Octyl Phthalate	76 U
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	76.0%
2-Fluorobiphenyl	82.4%
d14-p-Terphenyl	86.9%

***Acid surrogate recoveries**

d5-Phenol	77.0%
2-Fluorophenol	77.2%
2,4,6-Tribromophenol	100%

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ORGANICS ANALYSIS DATA SHEET - METHOD 8240

Sample No: SB1-0-5

Lab Sample ID: 2423MP
Sample Matrix: Soil/Sediments

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

Data Release Authorized: Brian N. Zeller
Report Prepared: 01/09/89 MACA

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

Amount Analyzed: 4.72 gm (Dry Weight)
Percent Moisture: 9.67%
pH: 6.78
Conc/Dil Factor: 1:1

CAS Number		µg/Kg	CAS Number		µg/Kg
74-87-3	Chloromethane	4.0 U	78-87-5	1,2-Dichloropropane	0.7 U
74-83-9	Bromomethane	3.3 U	10061-01-5	cis-1,3-Dichloropropene	2.0 U
75-01-4	Vinyl Chloride	2.1 U	79-01-6	Trichloroethene	0.6 U
75-00-3	Chloroethane	3.5 U	124-48-1	Dibromochloromethane	0.7 U
75-09-2	**Methylene Chloride**	**7.7 B**	79-00-5	1,1,2-Trichloroethane	0.7 U
67-64-1	Acetone	7.3 U	71-43-2	Benzene	1.1 U
75-15-0	Carbon Disulfide	1.3 U	10061-02-6	Trans-1,3-Dichloropropene	1.9 U
75-35-4	1,1-Dichloroethene	0.7 U	110-75-8	2-Chloroethylvinylether	2.9 U
75-34-3	1,1-Dichloroethane	0.6 U	75-25-2	Bromoform	2.6 U
540-59-0	1,2-Dichloroethene (Total)	0.8 U	108-10-1	4-Methyl-2-Pentanone	3.7 U
67-66-3	Chloroform	1.2 U	591-78-6	2-Hexanone	3.4 U
107-06-2	1,2-Dichloroethane	0.5 U	127-18-4	Tetrachloroethene	0.5 U
78-93-3	2-Butanone	6.6 U	79-34-5	1,1,2,2-Tetrachloroethane	2.9 U
71-55-6	1,1,1-Trichloroethane	0.6 U	**108-88-3**	**Toluene**	**3.2**
56-23-5	Carbon Tetrachloride	1.0 U	108-90-7	Chlorobenzene	1.0 U
108-05-4	Vinyl Acetate	3.3 U	**100-41-4**	**Ethylbenzene**	**1.5**
75-27-4	Bromodichloromethane	0.3 U	100-42-5	Styrene	1.2 U
77-69-4	Trichlorofluoromethane	1.1 U	**1330-20-7**	**Total Xylenes**	**4.6**
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				1.1 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	105%
Bromofluorobenzene	81.8%
d4-1,2-Dichloroethane	94.2%

*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.

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ORGANICS ANALYSIS DATA SHEET - METHOD 8240

Sample No: SB1-6-10

Lab Sample ID: 2423QS
Sample Matrix: Soil/Sediments

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

Data Release Authorized: Glen N. Edwards
Report Prepared: 01/09/89 MACA

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

Amount Analyzed: 4.51 gm (Dry Weight)
Percent Moisture: 19.70%
pH: 7.85
Conc/Dil Factor: 1:1

CAS Number		ug/Kg	CAS Number		ug/Kg
74-87-3	Chloromethane	4.2 U	78-87-5	1,2-Dichloropropane	0.8 U
74-83-9	Bromomethane	3.4 U	10061-01-5	cis-1,3-Dichloropropene	2.1 U
75-01-4	Vinyl Chloride	2.2 U	79-01-6	Trichloroethene	0.7 U
75-00-3	Chloroethane	3.7 U	124-48-1	Dibromochloromethane	0.8 U
75-09-2	**Methylene Chloride**	**17 B**	79-00-5	1,1,2-Trichloroethane	0.8 U
67-64-1	Acetone	7.7 U	71-43-2	Benzene	1.1 U
75-15-0	Carbon Disulfide	1.3 U	10061-02-6	Trans-1,3-Dichloropropene	2.0 U
75-35-4	1,1-Dichloroethene	0.8 U	110-75-8	2-Chloroethylvinylether	3.0 U
75-34-3	1,1-Dichloroethane	0.7 U	75-25-2	Bromoform	2.8 U
540-59-0	1,2-Dichloroethene (Total)	0.9 U	108-10-1	4-Methyl-2-Pentanone	3.9 U
67-66-3	Chloroform	1.2 U	591-78-6	2-Hexanone	3.5 U
107-06-2	1,2-Dichloroethane	0.6 U	127-18-4	Tetrachloroethene	0.6 U
78-93-3	2-Butanone	6.9 U	79-34-5	1,1,2,2-Tetrachloroethane	3.0 U
71-55-6	1,1,1-Trichloroethane	0.7 U	**108-88-3**	**Toluene**	**1.6**
56-23-5	Carbon Tetrachloride	1.0 U	108-90-7	Chlorobenzene	1.0 U
108-05-4	Vinyl Acetate	3.4 U	**100-41-4**	**Ethylbenzene**	**0.5 J**
75-27-4	Bromodichloromethane	0.3 U	100-42-5	Styrene	1.2 U
77-69-4	Trichlorofluoromethane	1.1 U	**1330-20-7**	**Total Xylenes**	**1.8 J**
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				1.1 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	102%
Bromofluorobenzene	87.1%
d4-1,2-Dichloroethane	88.0%

*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.

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ORGANICS ANALYSIS DATA SHEET - METHOD 8240

Sample No: SB1-2.5

Lab Sample ID: 2423T
Sample Matrix: Soil/Sediments

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

Data Release Authorized: _____
Report Prepared: 01/10/89 MACA

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

Amount Analyzed: 5.35 gm (Dry Weight)
Percent Moisture: 2.68%
pH: 6.69
Conc/Dil Factor: 1:1

CAS Number		ug/Kg	CAS Number		ug/Kg
74-87-3	Chloromethane	3.6 U	78-87-5	1,2-Dichloropropane	0.7 U
74-83-9	Bromomethane	2.9 U	10061-01-5	cis-1,3-Dichloropropene	1.8 U
75-01-4	Vinyl Chloride	1.9 U	79-01-6	Trichloroethene	0.6 U
75-00-3	Chloroethane	3.1 U	124-48-1	Dibromochloromethane	0.7 U
75-09-2	**Methylene Chloride**	**6.0 B**	79-00-5	1,1,2-Trichloroethane	0.7 U
67-64-1	Acetone	6.5 U	71-43-2	Benzene	0.9 U
75-15-0	Carbon Disulfide	1.1 U	10061-02-6	Trans-1,3-Dichloropropene	1.7 U
75-35-4	1,1-Dichloroethene	0.7 U	110-75-8	2-Chloroethylvinylether	2.5 U
75-34-3	1,1-Dichloroethane	0.6 U	75-25-2	Bromoform	2.3 U
540-59-0	1,2-Dichloroethene (Total)	0.7 U	108-10-1	4-Methyl-2-Pentanone	3.3 U
67-66-3	Chloroform	1.0 U	591-78-6	2-Hexanone	3.0 U
107-06-2	1,2-Dichloroethane	0.5 U	127-18-4	Tetrachloroethene	0.5 U
78-93-3	2-Butanone	5.8 U	79-34-5	1,1,2,2-Tetrachloroethane	2.5 U
71-55-6	1,1,1-Trichloroethane	0.6 U	108-88-3	Toluene	0.7 U
56-23-5	Carbon Tetrachloride	0.8 U	108-90-7	Chlorobenzene	0.8 U
108-05-4	Vinyl Acetate	2.9 U	**100-41-4**	**Ethylbenzene**	**0.4 J**
75-27-4	Bromodichloromethane	0.3 U	100-42-5	Styrene	1.0 U
77-69-4	Trichlorofluoromethane	0.9 U	1330-20-7	Total Xylenes	1.7 U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				0.9 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	102%
Bromofluorobenzene	92.0%
d4-1,2-Dichloroethane	86.6%

*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.

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ORGANICS ANALYSIS DATA SHEET - METHOD 8270

Sample No: SB1-0-5

Lab Sample ID: 2423MP
Sample Matrix: Soil/Sediments

QC Report No: 2423 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/21/88

Date Release Authorized: _____
Report Revised: 03/21/89 MAC: A

Dry weight extracted (gm): 28.24
Final Volume: 1.0 ml
Percent Moisture: 9.67%
pH: 6.78
Conc/Dilution Factor: 1 to 2
Total Dilution: 1 to 2

Date Extracted: 12/30/88
Date Analyzed: 01/04/89
GPC Clean-up: NO
Instrument ID: FINN IV

CAS Number		µg/Kg
108-95-2	Phenol	71 U
111-44-4	bis(2-Chloroethyl)Ether	71 U
95-57-8	2-Chlorophenol	71 U
541-73-1	1,3-Dichlorobenzene	71 U
106-46-7	1,4-Dichlorobenzene	71 U
100-51-6	Benzyl Alcohol	350 U
95-50-1	1,2-Dichlorobenzene	71 U
95-48-7	2-Methylphenol	71 U
39638-32-9	bis(2-chloroisopropyl)Ether	71 U
106-44-5	4-Methylphenol	71 U
621-64-7	N-Nitroso-Di-n-Propylamine	71 U
67-72-1	Hexachloroethane	140 U
98-95-3	Nitrobenzene	71 U
78-59-1	Isophorone	71 U
88-75-5	2-Nitrophenol	350 U
105-67-9	2,4-Dimethylphenol	140 U
65-85-0	Benzoic Acid	710 U
111-91-1	bis(2-Chloroethoxy)Methane	71 U
120-83-2	2,4-Dichlorophenol	213 U
120-82-1	1,2,4-Trichlorobenzene	71 U
91-20-3	Naphthalene	71 U
106-47-8	4-Chloroaniline	213 U
87-68-3	Hexachlorobutadiene	140 U
59-50-7	4-Chloro-3-Methylphenol	140 U
91-57-6	2-Methylnaphthalene	71 U
77-47-4	Hexachlorocyclopentadiene	350 U
88-06-2	2,4,6-Trichlorophenol	350 U
95-95-4	2,4,5-Trichlorophenol	350 U
91-58-7	2-Chloronaphthalene	71 U
88-74-4	2-Nitroaniline	350 U
131-11-3	Dimethyl Phthalate	71 U
208-96-8	Acenaphthylene	71 U
99-09-2	3-Nitroaniline	350 U

CAS Number		µg/Kg
83-32-9	Acenaphthene	71 U
51-28-5	2,4-Dinitrophenol	710 U
100-02-7	4-Nitrophenol	350 U
132-64-9	Dibenzofuran	71 U
121-14-2	2,4-Dinitrotoluene	350 U
606-20-2	2,6-Dinitrotoluene	350 U
84-66-2	Diethylphthalate	71 U
7005-72-3	4-Chlorophenyl-phenylether	71 U
86-73-7	Fluorene	71 U
100-01-6	4-Nitroaniline	350 U
534-52-1	4,6-Dinitro-2-Methylphenol	710 U
86-30-6	N-Nitrosodiphenylamine(1)	71 U
101-55-3	4-Bromophenyl-phenylether	71 U
118-74-1	Hexachlorobenzene	71 U
87-86-5	Pentachlorophenol	350 U
85-01-8	**Phenanthrene**	**29 J**
120-12-7	**Anthracene**	**11 J**
84-74-2	Di-n-Butylphthalate	71 U
206-44-0	**Fluoranthene**	**48 J**
129-00-0	**Pyrene**	**51 J**
85-68-7	Butylbenzylphthalate	71 U
91-94-1	3,3'-Dichlorobenzidine	350 U
56-55-3	**Benzo(a)Anthracene**	**27 J**
117-81-7	bis(2-Ethylhexyl)Phthalate	71 U
218-01-9	**Chrysene**	**42 J**
117-84-0	Di-n-Octyl Phthalate	71 U
205-99-2	**Benzo(b)Fluoranthene &**	
207-08-9	**Benzo(k)Fluoranthene**	**66 J**
50-32-8	Benzo(a)Pyrene	71 U
193-39-5	Indeno(1,2,3-cd)Pyrene	71 U
53-70-3	Dibenz(a,h)Anthracene	71 U
191-24-2	Benzo(ghi)Perylene	71 U

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	63.5%
2-Fluorobiphenyl	73.9%
d14-p-Terphenyl	80.5%

***Acid surrogate recoveries**

d5-Phenol	65.2%
2-Fluorophenol	62.0%
2,4,6-Tribromophenol	87.8%

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Consultants

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

ORGANICS ANALYSIS DATA SHEET - METHOD 8270

Sample No: SB1-6-10

Lab Sample ID: 2423QS
Sample Matrix: Soil/Sediments

QC Report No: 2423 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/21/88

Date Release Authorized: Brian N. Cebe
Report Revised: 03/21/89 MAC: A

Dry weight extracted (gm): 28.16
Final Volume: 1.0 ml
Percent Moisture: 19.70%
pH: 7.85
Conc/Dilution Factor: 1 to 2
Total Dilution: 1 to 2

Date Extracted: 12/30/88
Date Analyzed: 01/04/89
GPC Clean-up: NO
Instrument ID: FINN IV

CAS Number		µg/Kg
108-95-2	Phenol	71 U
111-44-4	bis(2-Chloroethyl)Ether	71 U
95-57-8	2-Chlorophenol	71 U
541-73-1	1,3-Dichlorobenzene	71 U
106-46-7	1,4-Dichlorobenzene	71 U
100-51-6	Benzyl Alcohol	360 U
95-50-1	1,2-Dichlorobenzene	71 U
95-48-7	2-Methylphenol	71 U
39638-32-9	bis(2-chloroisopropyl)Ether	71 U
106-44-5	4-Methylphenol	71 U
621-64-7	N-Nitroso-Di-n-Propylamine	71 U
67-72-1	Hexachloroethane	140 U
98-95-3	Nitrobenzene	71 U
78-59-1	Isophorone	71 U
88-75-5	2-Nitrophenol	360 U
105-67-9	2,4-Dimethylphenol	140 U
65-85-0	Benzoic Acid	710 U
111-91-1	bis(2-Chloroethoxy)Methane	71 U
120-83-2	2,4-Dichlorophenol	210 U
120-82-1	1,2,4-Trichlorobenzene	71 U
91-20-3	Naphthalene	71 U
106-47-8	4-Chloroaniline	210 U
87-68-3	Hexachlorobutadiene	140 U
59-50-7	4-Chloro-3-Methylphenol	140 U
91-57-6	2-Methylnaphthalene	71 U
77-47-4	Hexachlorocyclopentadiene	360 U
88-06-2	2,4,6-Trichlorophenol	360 U
95-95-4	2,4,5-Trichlorophenol	360 U
91-58-7	2-Chloronaphthalene	71 U
88-74-4	2-Nitroaniline	360 U
131-11-3	Dimethyl Phthalate	71 U
208-96-8	Acenaphthylene	71 U
99-09-2	3-Nitroaniline	360 U

CAS Number		µg/Kg
83-32-9	Acenaphthene	71 U
51-28-5	2,4-Dinitrophenol	710 U
100-02-7	4-Nitrophenol	360 U
132-64-9	Dibenzofuran	71 U
121-14-2	2,4-Dinitrotoluene	360 U
606-20-2	2,6-Dinitrotoluene	360 U
84-66-2	Diethylphthalate	71 U
7005-72-3	4-Chlorophenyl-phenylether	71 U
86-73-7	Fluorene	71 U
100-01-6	4-Nitroaniline	360 U
534-52-1	4,6-Dinitro-2-Methylphenol	710 U
86-30-6	N-Nitrosodiphenylamine(1)	71 U
101-55-3	4-Bromophenyl-phenylether	71 U
118-74-1	Hexachlorobenzene	71 U
87-86-5	Pentachlorophenol	360 U
85-01-8	Phenanthrene	71 U
120-12-7	Anthracene	71 U
84-74-2	Di-n-Butylphthalate	71 U
206-44-0	Fluoranthene	71 U
129-00-0	Pyrene	71 U
85-68-7	Butylbenzylphthalate	71 U
91-94-1	3,3'-Dichlorobenzidine	360 U
56-55-3	Benzo(a)Anthracene	71 U
117-81-7	**bis(2-Ethylhexyl)Phthalate**	**100**
218-01-9	Chrysene	71 U
117-84-0	Di-n-Octyl Phthalate	71 U
205-99-2	Benzo(b)Fluoranthene	71 U
207-08-9	Benzo(k)Fluoranthene	71 U
50-32-8	Benzo(a)Pyrene	71 U
193-39-5	Indeno(1,2,3-cd)Pyrene	71 U
53-70-3	Dibenz(a,h)Anthracene	71 U
191-24-2	Benzo(ghi)Perylene	71 U

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	85.1%
2-Fluorobiphenyl	80.1%
d14-p-Terphenyl	85.8%

***Acid surrogate recoveries**

d5-Phenol	74.8%
2-Fluorophenol	82.5%
2,4,6-Tribromophenol	96.8%

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Seattle, Wa 98109-5187
(206) 621-6490

ORGANICS ANALYSIS DATA SHEET - METHOD 8270

Sample No: SB1-2.5

Lab Sample ID: 2423T
Sample Matrix: Soil/Sediments

QC Report No: 2423 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/21/88

Date Release Authorized: Brian N. Sebree
Report Revised: 03/21/89 MAC: A

Dry weight extracted (gm): 33.58
Final Volume: 1.0 ml
Percent Moisture: 2.68%
pH: 6.69
Conc/Dilution Factor: 1 to 2
Total Dilution: 1 to 2

Date Extracted: 12/30/88
Date Analyzed: 01/04/89
GPC Clean-up: NO
Instrument ID: FINN IV

CAS Number		µg/Kg
108-95-2	Phenol	60 U
111-44-4	bis(2-Chloroethyl)Ether	60 U
95-57-8	2-Chlorophenol	60 U
541-73-1	1,3-Dichlorobenzene	60 U
106-46-7	1,4-Dichlorobenzene	60 U
100-51-6	Benzyl Alcohol	300 U
95-50-1	1,2-Dichlorobenzene	60 U
95-48-7	2-Methylphenol	60 U
39638-32-9	bis(2-chloroisopropyl)Ether	60 U
106-44-5	4-Methylphenol	60 U
621-64-7	N-Nitroso-Di-n-Propylamine	60 U
67-72-1	Hexachloroethane	120 U
98-95-3	Nitrobenzene	60 U
78-59-1	Isophorone	60 U
88-75-5	2-Nitrophenol	300 U
105-67-9	2,4-Dimethylphenol	120 U
65-85-0	Benzoic Acid	600 U
111-91-1	bis(2-Chloroethoxy)Methane	60 U
120-83-2	2,4-Dichlorophenol	180 U
120-82-1	1,2,4-Trichlorobenzene	60 U
91-20-3	Naphthalene	60 U
106-47-8	4-Chloroaniline	180 U
87-68-3	Hexachlorobutadiene	120 U
59-50-7	4-Chloro-3-Methylphenol	120 U
91-57-6	2-Methylnaphthalene	60 U
77-47-4	Hexachlorocyclopentadiene	300 U
88-06-2	2,4,6-Trichlorophenol	300 U
95-95-4	2,4,5-Trichlorophenol	300 U
91-58-7	2-Chloronaphthalene	60 U
88-74-4	2-Nitroaniline	300 U
131-11-3	Dimethyl Phthalate	60 U
208-96-8	Acenaphthylene	60 U
99-09-2	3-Nitroaniline	300 U

CAS Number		µg/Kg
83-32-9	Acenaphthene	60 U
51-28-5	2,4-Dinitrophenol	600 U
100-02-7	4-Nitrophenol	300 U
132-64-9	Dibenzofuran	60 U
121-14-2	2,4-Dinitrotoluene	300 U
606-20-2	2,6-Dinitrotoluene	300 U
84-66-2	Diethylphthalate	60 U
7005-72-3	4-Chlorophenyl-phenylether	60 U
86-73-7	Fluorene	60 U
100-01-6	4-Nitroaniline	300 U
534-52-1	4,6-Dinitro-2-Methylphenol	600 U
86-30-6	N-Nitrosodiphenylamine(1)	60 U
101-55-3	4-Bromophenyl-phenylether	60 U
118-74-1	Hexachlorobenzene	60 U
87-86-5	Pentachlorophenol	300 U
85-01-8	Phenanthrene	60 U
120-12-7	Anthracene	60 U
84-74-2	Di-n-Butylphthalate	60 U
206-44-0	Fluoranthene	60 U
129-00-0	Pyrene	60 U
85-68-7	Butylbenzylphthalate	60 U
91-94-1	3,3'-Dichlorobenzidine	300 U
56-55-3	Benzo(a)Anthracene	60 U
117-81-7	bis(2-Ethylhexyl)Phthalate	60 U
218-01-9	Chrysene	60 U
117-84-0	Di-n-Octyl Phthalate	60 U
205-99-2	Benzo(b)Fluoranthene	60 U
207-08-9	Benzo(k)Fluoranthene	60 U
50-32-8	Benzo(a)Pyrene	60 U
193-39-5	Indeno(1,2,3-cd)Pyrene	60 U
53-70-3	Dibenz(a,h)Anthracene	60 U
191-24-2	Benzo(ghi)Perylene	60 U

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	86.6%
2-Fluorobiphenyl	83.9%
d14-o-Terphenyl	89.3%

***Acid surrogate recoveries**

d5-Phenol	75.0%
2-Fluorophenol	79.1%
2,4,6-Tribromophenol	96.6%

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Seattle, Wa 98109-5187
(206) 621-6490

ORGANICS ANALYSIS DATA SHEET - METHOD 8270

Sample No: Method Blank

Lab Sample ID: 2423MB
Sample Matrix: Soil/Sediments

QC Report No: 2423 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/21/88

Date Release Authorized: Brian N. Ochs
Report Revised: 03/21/89 MAC: A

Dry weight extracted (gm): 30.00
Final Volume: 1.0 ml
Percent Moisture: NR
pH: NR
Conc/Dilution Factor: 1 to 2
Total Dilution: 1 to 2

Date Extracted: 12/30/88
Date Analyzed: 01/04/89
GPC Clean-up: NO
Instrument ID: FINN IV

CAS Number		µg/Kg
108-95-2	Phenol	67 U
111-44-4	bis(2-Chloroethyl)Ether	67 U
95-57-8	2-Chlorophenol	67 U
541-73-1	1,3-Dichlorobenzene	67 U
106-46-7	1,4-Dichlorobenzene	67 U
100-51-6	Benzyl Alcohol	330 U
95-50-1	1,2-Dichlorobenzene	67 U
95-48-7	2-Methylphenol	67 U
39638-32-9	bis(2-chloroisopropyl)Ether	67 U
106-44-5	4-Methylphenol	67 U
621-64-7	N-Nitroso-Di-n-Propylamine	67 U
67-72-1	Hexachloroethane	130 U
98-95-3	Nitrobenzene	67 U
78-59-1	Isophorone	67 U
88-75-5	2-Nitrophenol	330 U
105-67-9	2,4-Dimethylphenol	130 U
65-85-0	Benzoic Acid	670 U
111-91-1	bis(2-Chloroethoxy)Methane	67 U
120-83-2	2,4-Dichlorophenol	200 U
120-82-1	1,2,4-Trichlorobenzene	67 U
91-20-3	Naphthalene	67 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	67 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	67 U
88-74-4	2-Nitroaniline	330 U
131-11-3	Dimethyl Phthalate	67 U
208-96-8	Acenaphthylene	67 U
99-09-2	3-Nitroaniline	330 U

CAS Number		µg/Kg
83-32-9	Acenaphthene	67 U
51-28-5	2,4-Dinitrophenol	670 U
100-02-7	4-Nitrophenol	330 U
132-64-9	Dibenzofuran	67 U
121-14-2	2,4-Dinitrotoluene	330 U
606-20-2	2,6-Dinitrotoluene	330 U
84-66-2	Diethylphthalate	67 U
7005-72-3	4-Chlorophenyl-phenylether	67 U
86-73-7	Fluorene	67 U
100-01-6	4-Nitroaniline	330 U
534-52-1	4,6-Dinitro-2-Methylphenol	670 U
86-30-6	N-Nitrosodiphenylamine(1)	67 U
101-55-3	4-Bromophenyl-phenylether	67 U
118-74-1	Hexachlorobenzene	67 U
87-86-5	Pentachlorophenol	330 U
85-01-8	Phenanthrene	67 U
120-12-7	Anthracene	67 U
84-74-2	Di-n-Butylphthalate	67 U
206-44-0	Fluoranthene	67 U
129-00-0	Pyrene	67 U
85-68-7	Butylbenzylphthalate	67 U
91-94-1	3,3'-Dichlorobenzidine	330 U
56-55-3	Benzo(a)Anthracene	67 U
117-81-7	bis(2-Ethylhexyl)Phthalate	67 U
218-01-9	Chrysene	67 U
117-84-0	Di-n-Octyl Phthalate	67 U
205-99-2	Benzo(b)Fluoranthene	67 U
207-08-9	Benzo(k)Fluoranthene	67 U
50-32-8	Benzo(a)Pyrene	67 U
193-39-5	Indeno(1,2,3-cd)Pyrene	67 U
53-70-3	Dibenz(a,h)Anthracene	67 U
191-24-2	Benzo(ghi)Perylene	67 U

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	86.2%
2-Fluorobiphenyl	81.7%
d14-p-Terphenyl	94.5%

***Acid surrogate recoveries**

d5-Phenol	77.9%
2-Fluorophenol	79.4%
2,4,6-Tribromophenol	97.3%

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ORGANICS ANALYSIS DATA SHEET - METHOD 8270

Sample No: Method Blank Re-Extract

Lab Sample ID: 2423MBRE
Sample Matrix: Soil/Sediments

QC Report No: 2423 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/21/88

Date Release Authorized: Brian R. Cofer
Report Revised: 03/21/89 MAC: A

Dry weight extracted (gm): 30.00
Final Volume: 1.0 ml
Percent Moisture: NR
pH: NR
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 IV

CAS Number		µg/Kg
108-95-2	Phenol	67 U
111-44-4	bis(2-Chloroethyl)Ether	67 U
95-57-8	2-Chlorophenol	67 U
541-73-1	1,3-Dichlorobenzene	67 U
106-46-7	1,4-Dichlorobenzene	67 U
100-51-6	Benzyl Alcohol	330 U
95-50-1	1,2-Dichlorobenzene	67 U
95-48-7	2-Methylphenol	67 U
39638-32-9	bis(2-chloroisopropyl)Ether	67 U
106-44-5	4-Methylphenol	67 U
621-64-7	N-Nitroso-Di-n-Propylamine	67 U
67-72-1	Hexachloroethane	130 U
98-95-3	Nitrobenzene	67 U
78-59-1	Isophorone	67 U
88-75-5	2-Nitrophenol	330 U
105-67-9	2,4-Dimethylphenol	130 U
65-85-0	Benzoic Acid	670 U
111-91-1	bis(2-Chloroethoxy)Methane	67 U
120-83-2	2,4-Dichlorophenol	200 U
120-82-1	1,2,4-Trichlorobenzene	67 U
91-20-3	Naphthalene	67 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	67 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	67 U
88-74-4	2-Nitroaniline	330 U
131-11-3	Dimethyl Phthalate	67 U
208-96-8	Acenaphthylene	67 U
99-09-2	3-Nitroaniline	330 U

CAS Number		µg/Kg
83-32-9	Acenaphthene	67 U
51-28-5	2,4-Dinitrophenol	670 U
100-02-7	4-Nitrophenol	330 U
132-64-9	Dibenzofuran	67 U
121-14-2	2,4-Dinitrotoluene	330 U
606-20-2	2,6-Dinitrotoluene	330 U
84-66-2	Diethylphthalate	67 U
7005-72-3	4-Chlorophenyl-phenylether	67 U
86-73-7	Fluorene	67 U
100-01-6	4-Nitroaniline	330 U
534-52-1	4,6-Dinitro-2-Methylphenol	670 U
86-30-6	N-Nitrosodiphenylamine(1)	67 U
101-55-3	4-Bromophenyl-phenylether	67 U
118-74-1	Hexachlorobenzene	67 U
87-86-5	Pentachlorophenol	330 U
85-01-8	Phenanthrene	67 U
120-12-7	Anthracene	67 U
84-74-2	Di-n-Butylphthalate	67 U
206-44-0	Fluoranthene	67 U
129-00-0	Pyrene	67 U
85-68-7	Butylbenzylphthalate	67 U
91-94-1	3,3'-Dichlorobenzidine	330 U
56-55-3	Benzo(a)Anthracene	67 U
117-81-7	bis(2-Ethylhexyl)Phthalate	67 U
218-01-9	Chrysene	67 U
117-84-0	Di-n-Octyl Phthalate	67 U
205-99-2	Benzo(b)Fluoranthene	67 U
207-08-9	Benzo(k)Fluoranthene	67 U
50-32-8	Benzo(a)Pyrene	67 U
193-39-5	Indeno(1,2,3-cd)Pyrene	67 U
53-70-3	Dibenz(a,h)Anthracene	67 U
191-24-2	Benzo(ghi)Perylene	67 U

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	85.3%
2-Fluorobiphenyl	97.4%
d14-p-Terphenyl	87.4%

***Acid surrogate recoveries**

d5-Phenol	105%
2-Fluorophenol	97.6%
2,4,6-Tribromophenol	59.9%