

NM - 13

INSPECTIONS & DATA

Order: R-2290 Order never transferred to General Petroleum, Inc.
Case No.: 2599
Date: July 25, 1962
Name: James N. Evans and Dallas McCasland d/b/a
Southwest Reclamation Service
President: unknown
Address: unknown
Location: SW/4 SW/4 Section 28, T 21 S, R 37 E
And NW/4 NW/4 Section 21, T 21 S, R 37 E,
NMPM, Lea County, NM

Letter: November 7, 1978 from General Petroleum to OCD Identifying the
SW/4 SW/4 Section 28, T 21 S, R 37 E, NMPM, Lea County, NM
Location as theirs along with along with the pit in the
NW/4 NW/4 Section 21, T 21 S, R 37 E, NMPM, Lea County, NM

NMPRC name: General Petroleum, Inc merged into Lucky Services, Inc.
Mailing address: Lucky Services, Inc., P.O. Box 5790, Hobbs, NM 88241
Principal Address: 6210 Lovington HWY. Hobbs, NM 88240
Officers: Everett D. Talyor
Stella Taylor
Director : Everett D. Taylor

Certificate of Merger: Dwayne Taylor, 2100 North McKinley, Hobbs, NM 88240
Steve Foster, #7 Regency Square, Hobbs, NM 88240
Tommy D. Parker, 1320 West Brittany, Hobbs, NM 88240
Stella Pauline Taylor. 3107 Cibola, Hobbs, NM 88240

Bond: Nothing on file

Surface Owner: Jimmie T. Cooper P.O. Box 55, Monument, NM 88265
Troy Frank no known address
OCD has no access agreement for the location.

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Score: 79

Name: General Petroleum Inc./ Southwest Reclamation Services

File: 711-013

Location: Eunice, NM. Inside the city limits located just off Ave O on the west side of town. SW/4, SW/4 of section 28, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico

Status: James N Evans and Dallas McCasland d/b/a Southwest Reclamation Services was permitted by order R-2290 on July 25, 1962. The last owners of record for General Petroleum, Inc. was Robert Layton and Steve Foster. Documentation from the New Mexico Public Regulation Commission, Corporation Bureau shows that General Petroleum Inc. merged into Lucky Services, Inc. The owner of record is Everett D Taylor.

There is no financial assurance for this facility.

It is the determination of legal council to the OCD that Lucky Services, Inc is fully responsible for all obligations and liabilities of whatever nature of General Petroleum Incorporated No Stockholders' Liability, which was originally incorporated as Lea County Drip Company.

Plan: The next step in this matter is to draft a letter to Lucky Services, Inc. requesting that they propose a clean up plan to be approved by the OCD.

The facility contains a waste oil pit with a surface area of approximately 55, 000 square feet containing liquid petroleum waste and waste water. The pit is approximately 5 feet deep with contaminated soils extending 20 feet below ground surface. A 210-barrel above ground storage tank, containing an unknown petroleum waste by-product is leaking from a large hole in the side of the tank. The site also contains eleven former tank locations with contamination to 15 feet below ground surface, four large piles of tank bottoms, contaminated soil and paraffin/asphalt hardened soil, many active and inactive buried pipelines crisscrossing the facility, and surface trash including barrels, buckets, cans, scrap metal, fencing, batteries, electrical boxes and meters. This last item has been estimated at 15 tons of material. Approximately 6,000 to 8,000 cu. yards of contaminated soil piles exists on the property. There are residences that border the facility on the north and east and tow residences across the county road to the west. The people that live next to the facility have expressed concern. Dr. Henning who operates a medical clinic across the street south of the facility has expressed concern regarding the facility's potential threat to public health.

Cost Est. \$2.645 Million

Date: January 8, 2003

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Bond: Nothing on file

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TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
155 McCutcheon, Suite H

Lubbock, Texas 79424
El Paso, Texas 79932

800•378•1296
888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296
915•585•3443

FAX 806•794•1298
FAX 915•585•4944

Bill To: **OCD**
1220 S. Saint Francis Dr.
Santa Fe, NM 87505

Attn: **Martyne Kieling**

*Pesticide → Foll
Chlorine TCLP
Semi Vol compost...
Vol Beaker &
PH - Paper water...*

Invoice # 57002

Invoice Date: **Jan 13, 2003**

Order ID: **A02121917**

Project #: **N/A** DFA Vendor #: **752439743**
Project Name: **General Petroleum Pit** P.A. # **20-521-07-02497**
Project Location: **Eunice, NM**

Test	Quantity	Matrix	Description	Price	SubTotal
Cu, Total	4	Sludge	216773 - 216776	\$10.00	\$40.00
-Pesticides	4	Sludge	216773 - 216776	\$175.00	\$700.00
-Semivolatiles	4	Sludge	216773 - 216776	\$275.00	\$1,100.00
Ag, Total	4	Sludge	216773 - 216776	\$10.00	\$40.00
Al, Total	4	Sludge	216773 - 216776	\$10.00	\$40.00
As, Total	4	Sludge	216773 - 216776	\$10.00	\$40.00
B, Total	4	Sludge	216773 - 216776	\$10.00	\$40.00
Ba, Total	4	Sludge	216773 - 216776	\$10.00	\$40.00
Cd, Total	4	Sludge	216773 - 216776	\$10.00	\$40.00
Chloride	4	Sludge	216773 - 216776	\$130.00	\$520.00
-PCB	4	Sludge	216773 - 216776	\$65.00	\$260.00
Cr, Total	4	Sludge	216773 - 216776	\$10.00	\$40.00
Zn, Total	4	Sludge	216773 - 216776	\$10.00	\$40.00
Fe, Total	4	Sludge	216773 - 216776	\$10.00	\$40.00
Hg, Total	4	Sludge	216773 - 216776	\$12.00	\$48.00
Mn, Total	4	Sludge	216773 - 216776	\$10.00	\$40.00
Mo, Total	4	Sludge	216773 - 216776	\$10.00	\$40.00
Ni, Total	4	Sludge	216773 - 216776	\$10.00	\$40.00
Pb, Total	4	Sludge	216773 - 216776	\$10.00	\$40.00
RCI	4	Sludge	216773 - 216776	\$60.00	\$240.00
Se, Total	4	Sludge	216773 - 216776	\$10.00	\$40.00
Si, Total	4	Sludge	216773 - 216776	\$10.00	\$40.00
Volatiles	4	Sludge	216773 - 216776	\$135.00	\$540.00
Co, Total	4	Sludge	216773 - 216776	\$10.00	\$40.00

Payment Terms: Net 30 Days

Total \$4,088.00

*OK to Pay
MJK 1-30-03*

Michael T. and
Director, Dr. Blair Leftwich

Report Date: January 16, 2003 Order Number: A02121917
N/A General Petroleum Pit

Page Number: 1 of 19
Eunice, NM

Summary Report

Martyne Kieling
OCD
1220 S. Saint Francis Dr.
Santa Fe, NM 87505

Report Date: January 16, 2003

Order ID Number: A02121917

Project Number: N/A
Project Name: General Petroleum Pit
Project Location: Eunice, NM

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
216773	1218020855	Sludge	12/18/02	8:55	12/19/02
216774	1218020915	Sludge	12/18/02	9:15	12/19/02
216775	1218020940	Sludge	12/18/02	9:40	12/19/02
216776	1218021000	Sludge	12/18/02	10:00	12/19/02

0 This report consists of a total of 19 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample: 216773 - 1218020855

Param	Flag	Result	Units
Hydroxide Alkalinity		<1.0	mg/L as CaCo3
Carbonate Alkalinity		<1.0	mg/L as CaCo3
Bicarbonate Alkalinity		23.3	mg/L as CaCo3
Total Alkalinity		23.3	mg/L as CaCo3
Specific Conductance		2830	μ MHOS/cm
Corrosivity	Non-corrosive		mm/yr
pH		7.9	s.u.
Total Mercury		2.27	mg/Kg
Ignitability	non-ignitable		
Chloride		833	mg/Kg
Fluoride		<1.0	mg/Kg
Nitrate-N		<1.0	mg/Kg
Sulfate		15.5	mg/Kg
PCB		<0.004	mg/Kg
alpha-BHC		<0.004	mg/Kg
gamma-BHC (Lindane)		<0.004	mg/Kg
beta-BHC		<0.004	mg/Kg
delta-BHC		<0.004	mg/Kg
Heptachlor		<0.004	mg/Kg
Aldrin		<0.004	mg/Kg
Heptachlor Epoxide		<0.004	mg/Kg
gamma-Chlordane		<0.004	mg/Kg
alpha-Chlordane		<0.004	mg/Kg
Endosulfan I		<0.004	mg/Kg
P,P-DDE		<0.004	mg/Kg

Continued on next page ...

This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: January 16, 2003 Order Number: A02121917
N/A General Petroleum Pit

Page Number: 2 of 19
Eunice, NM

Sample 216773 continued ...

Param	Flag	Result	Units
Dieldrin		<0.004	mg/Kg
Endrin		<0.004	mg/Kg
P,P-DDD		<0.004	mg/Kg
Endosulfan II		<0.004	mg/Kg
p,p-DDT		<0.004	mg/Kg
Endrin aldehyde		<0.004	mg/Kg
Endosulfan sulfate		<0.004	mg/Kg
Methoxychlor		<0.004	mg/Kg
Endrin Ketone		<0.004	mg/Kg
Toxaphene		<0.050	mg/Kg
Technical Chlordane		<0.050	mg/Kg
Reactivity		Non-reactive	
Hydrogen Sulfide		<10	mg/Kg
Hydrogen Cyanide		<2.5	mg/Kg
Pyridine		<25.0	mg/Kg
n-Nitrosodimethylamine		<25.0	mg/Kg
2-Picoline		<25.0	mg/Kg
Methyl methanesulfonate		<25.0	mg/Kg
Ethyl methanesulfonate		<25.0	mg/Kg
Phenol		<25.0	mg/Kg
Aniline		<25.0	mg/Kg
bis (2-chloroethyl) ether		<25.0	mg/Kg
2-Chlorophenol		<25.0	mg/Kg
1,3-Dichlorobenzene (meta)		<25.0	mg/Kg
1,4-Dichlorobenzene		<25.0	mg/Kg
Benzyl alcohol		<25.0	mg/Kg
1,2-Dichlorobenzene		<25.0	mg/Kg
2-Methylphenol		<25.0	mg/Kg
bis (2-chloroisopropyl) ether		<25.0	mg/Kg
4-Methylphenol/3-Methylphenol		<25.0	mg/Kg
Acetophenone		<25.0	mg/Kg
n-Nitrosodi-n-propylamine		<25.0	mg/Kg
Hexachloroethane		<25.0	mg/Kg
Nitrobenzene		<25.0	mg/Kg
n-Nitrosopiperidine		<25.0	mg/Kg
Isophorone		<25.0	mg/Kg
2-Nitrophenol		<25.0	mg/Kg
2,4-Dimethylphenol		<25.0	mg/Kg
bis (2-chloroethoxy) methane		<25.0	mg/Kg
Benzoic acid		<25.0	mg/Kg
2,4-Dichlorophenol		<25.0	mg/Kg
1,2,4-Trichlorobenzene		<25.0	mg/Kg
a,a-Dimethylphenethylamine		<25.0	mg/Kg
Naphthalene		44.8	mg/Kg
4-Chloroaniline		<25.0	mg/Kg
2,6-Dichlorophenol		<25.0	mg/Kg
Hexachlorobutadiene		<25.0	mg/Kg
n-Nitroso-di-n-butylamine		<25.0	mg/Kg
4-Chloro-3-methylphenol		<25.0	mg/Kg
1-Methylnaphthalene		87.7	mg/Kg

Continued on next page ...

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Report Date: January 16, 2003 Order Number: A02121917
N/A General Petroleum Pit

Page Number: 3 of 19
Eunice, NM

Sample 216773 continued ...

Param	Flag	Result	Units
2-Methylnaphthalene		87.9	mg/Kg
1,2,4,5-Tetrachlorobenzene		<25.0	mg/Kg
Hexachlorocyclopentadiene		<25.0	mg/Kg
2,4,6-Trichlorophenol		<25.0	mg/Kg
2,4,5-Trichlorophenol		<25.0	mg/Kg
2-Chloronaphthalene		<25.0	mg/Kg
1-Chloronaphthalene		<25.0	mg/Kg
2-Nitroaniline		<25.0	mg/Kg
Dimethylphthalate		<25.0	mg/Kg
Acenaphthylene		<25.0	mg/Kg
2,6-Dinitrotoluene		<25.0	mg/Kg
3-Nitroaniline		<25.0	mg/Kg
Acenaphthene		<25.0	mg/Kg
2,4-Dinitrophenol		<25.0	mg/Kg
Dibenzofuran		<25.0	mg/Kg
Pentachlorobenzene		<25.0	mg/Kg
4-Nitrophenol		<25.0	mg/Kg
1-Naphthylamine		<25.0	mg/Kg
2,4-Dinitrotoluene		<25.0	mg/Kg
2-Naphthylamine		<25.0	mg/Kg
2,3,4,6-Tetrachlorophenol		<25.0	mg/Kg
Fluorene		<25.0	mg/Kg
Diethylphthalate		<25.0	mg/Kg
4-Chlorophenyl-phenylether		<25.0	mg/Kg
4-Nitroaniline		<25.0	mg/Kg
4,6-Dinitro-2-methylphenol		<25.0	mg/Kg
Diphenylamine		<25.0	mg/Kg
Diphenylhydrazine		<25.0	mg/Kg
4-Bromophenyl-phenylether		<25.0	mg/Kg
Phenacetin		<25.0	mg/Kg
Hexachlorobenzene		<25.0	mg/Kg
4-Aminobiphenyl		<25.0	mg/Kg
Pentachlorophenol		<25.0	mg/Kg
Pentachloronitrobenzene		<25.0	mg/Kg
Pronamide		<25.0	mg/Kg
Phenanthrene		<25.0	mg/Kg
Anthracene		<25.0	mg/Kg
Di-n-butylphthalate		<25.0	mg/Kg
Fluoranthene		<25.0	mg/Kg
Benzidine		<25.0	mg/Kg
Pyrene		<25.0	mg/Kg
p-Dimethylaminoazobenzene		<25.0	mg/Kg
Butylbenzylphthalate		<25.0	mg/Kg
Benzo(a)anthracene		<25.0	mg/Kg
3,3-Dichlorobenzidine		<25.0	mg/Kg
Chrysene		<25.0	mg/Kg
Bis (2-ethylhexyl) phthalate		<25.0	mg/Kg
Di-n-octylphthalate		<25.0	mg/Kg
Benzo(b)fluoranthene		<25.0	mg/Kg
7,12-Dimethylbenz(a)anthracene		<25.0	mg/Kg

Continued on next page ...

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Report Date: January 16, 2003 Order Number: A02121917
N/A General Petroleum PitPage Number: 4 of 19
Eunice, NM

Sample 216773 continued ...

Param	Flag	Result	Units
Benzo(k)fluoranthene		<25.0	mg/Kg
Benzo(a)pyrene		<25.0	mg/Kg
3-Methylcholanthrene		<25.0	mg/Kg
Dibenzo(a,j)acridine		<25.0	mg/Kg
Indeno(1,2,3-cd)pyrene		<25.0	mg/Kg
Dibenzo(a,h)anthracene		<25.0	mg/Kg
Benzo(g,h,i)perylene		<25.0	mg/Kg
Total Aluminum		330	mg/Kg
Total Arsenic		15.6	mg/Kg
Total Barium		455	mg/Kg
Total Boron		4.46	mg/Kg
Total Cadmium		1.09	mg/Kg
Total Calcium		6050	mg/Kg
Total Chromium		25.7	mg/Kg
Total Cobalt		<2.50	mg/Kg
Total Copper		39.8	mg/Kg
Total Iron		19500	mg/Kg
Total Lead		136	mg/Kg
Total Magnesium		681	mg/Kg
Total Manganese		88.0	mg/Kg
Total Molybdenum		<5.00	mg/Kg
Total Nickel		13.9	mg/Kg
Total Potassium		162	mg/Kg
Total Selenium		<1.00	mg/Kg
Total Silica		78.1	mg/Kg
Total Silver		<0.200	mg/Kg
Total Sodium		1820	mg/Kg
Total Zinc		310	mg/Kg
Bromochloromethane		<1000	µg/Kg
Dichlorodifluoromethane		<1000	µg/Kg
Chloromethane (methyl chloride)		<1000	µg/Kg
Vinyl Chloride		<1000	µg/Kg
Bromomethane (methyl bromide)		<5000	µg/Kg
Chloroethane		<1000	µg/Kg
Trichlorofluoromethane		<1000	µg/Kg
Acetone		<10000	µg/Kg
Iodomethane (methyl iodide)		<5000	µg/Kg
Carbon Disulfide		<1000	µg/Kg
Acrylonitrile		<1000	µg/Kg
2-Butanone (MEK)		<5000	µg/Kg
4-methyl-2-pentanone (MIBK)		<5000	µg/Kg
2-hexanone		<5000	µg/Kg
trans 1,4-Dichloro-2-butene		<10000	µg/Kg
1,1-Dichloroethene		<1000	µg/Kg
Methylene chloride		<5000	µg/Kg
MTBE		<1000	µg/Kg
trans-1,2-Dichloroethene		<1000	µg/Kg
1,1-Dichloroethane		<1000	µg/Kg
cis-1,2-Dichloroethene		<1000	µg/Kg
2,2-Dichloropropane		<1000	µg/Kg

Continued on next page ...

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Report Date: January 16, 2003 Order Number: A02121917
N/A General Petroleum Pit

Page Number: 5 of 19
Eunice, NM

Sample 216773 continued ...

Param	Flag	Result	Units
1,2-Dichloroethane (EDC)		<1000	µg/Kg
Chloroform		<1000	µg/Kg
1,1,1-Trichloroethane		<1000	µg/Kg
1,1-Dichloropropene		<1000	µg/Kg
Benzene		66400	µg/Kg
Carbon Tetrachloride		<1000	µg/Kg
1,2-Dichloropropane		<1000	µg/Kg
Trichloroethene (TCE)		<1000	µg/Kg
Dibromomethane (methylene bromide)		<1000	µg/Kg
Bromodichloromethane		<1000	µg/Kg
2-Chloroethyl vinyl ether		<5000	µg/Kg
cis-1,3-Dichloropropene		<1000	µg/Kg
trans-1,3-Dichloropropene		<1000	µg/Kg
Toluene		109000	µg/Kg
1,1,2-Trichloroethane		<1000	µg/Kg
1,3-Dichloropropane		<1000	µg/Kg
Dibromochloromethane		<1000	µg/Kg
1,2-Dibromoethane (EDB)		<1000	µg/Kg
Tetrachloroethene (PCE)		<1000	µg/Kg
Chlorobenzene		<1000	µg/Kg
1,1,1,2-Tetrachloroethane		<1000	µg/Kg
Ethylbenzene		108000	µg/Kg
m,p-Xylene		145000	µg/Kg
Bromoform		<1000	µg/Kg
Styrene		<1000	µg/Kg
o-Xylene		55400	µg/Kg
1,1,2,2-Tetrachloroethane		<1000	µg/Kg
2-Chlorotoluene		<1000	µg/Kg
1,2,3-Trichloropropane		<1000	µg/Kg
Isopropylbenzene		22600	µg/Kg
Bromobenzene		<1000	µg/Kg
n-Propylbenzene		31100	µg/Kg
1,3,5-Trimethylbenzene		30700	µg/Kg
tert-Butylbenzene		<1000	µg/Kg
1,2,4-Trimethylbenzene		84200	µg/Kg
1,4-Dichlorobenzene (para)		<1000	µg/Kg
sec-Butylbenzene		11600	µg/Kg
1,3-Dichlorobenzene (meta)		<1000	µg/Kg
p-Isopropyltoluene		7690	µg/Kg
4-Chlorotoluene		<1000	µg/Kg
1,2-Dichlorobenzene (ortho)		<1000	µg/Kg
n-Butylbenzene		13300	µg/Kg
1,2-Dibromo-3-chloropropane		<5000	µg/Kg
1,2,3-Trichlorobenzene		<5000	µg/Kg
1,2,4-Trichlorobenzene		<5000	µg/Kg
Naphthalene		39200	µg/Kg
Hexachlorobutadiene		<5000	µg/Kg
pH		6.8	s.u.

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Report Date: January 16, 2003 Order Number: A02121917
N/A General Petroleum Pit

Page Number: 6 of 19
Eunice, NM

Sample: 216774 - 1218020915

Param	Flag	Result	Units
Hydroxide Alkalinity		<1.0	mg/L as CaCo3
Carbonate Alkalinity		<1.0	mg/L as CaCo3
Bicarbonate Alkalinity		147	mg/L as CaCo3
Total Alkalinity		147	mg/L as CaCo3
Specific Conductance		976	μMHOS/cm
Corrosivity	Non-corrosive		mm/yr
pH		8.2	s.u.
Total Mercury		5.46	mg/Kg
Ignitability	non-ignitable		
Chloride		156	mg/Kg
Fluoride		<1.0	mg/Kg
Nitrate-N		<1.0	mg/Kg
Sulfate		12.0	mg/Kg
PCB		<0.004	mg/Kg
alpha-BHC		<0.004	mg/Kg
gamma-BHC (Lindane)		<0.004	mg/Kg
beta-BHC		<0.004	mg/Kg
delta-BHC		<0.004	mg/Kg
Heptachlor		<0.004	mg/Kg
Aldrin		<0.004	mg/Kg
Heptachlor Epoxide		<0.004	mg/Kg
gamma-Chlordane		<0.004	mg/Kg
alpha-Chlordane		<0.004	mg/Kg
Endosulfan I		<0.004	mg/Kg
P,P-DDE		<0.004	mg/Kg
Dieldrin		<0.004	mg/Kg
Endrin		<0.004	mg/Kg
P,P-DDD		<0.004	mg/Kg
Endosulfan II		<0.004	mg/Kg
p,p-DDT		<0.004	mg/Kg
Endrin aldehyde		<0.004	mg/Kg
Endosulfan sulfate		<0.004	mg/Kg
Methoxychlor		<0.004	mg/Kg
Endrin Ketone		<0.004	mg/Kg
Toxaphene		<0.050	mg/Kg
Technical Chlordane		<0.050	mg/Kg
Reactivity	Non-reactive		
Hydrogen Sulfide		<10	mg/Kg
Hydrogen Cyanide		<2.5	mg/Kg
Pyridine		<0.25	mg/Kg
n-Nitrosodimethylamine		<0.25	mg/Kg
2-Picoline		<0.25	mg/Kg
Methyl methanesulfonate		<0.25	mg/Kg
Ethyl methanesulfonate		<0.25	mg/Kg
Phenol		<0.25	mg/Kg
Aniline		<0.25	mg/Kg
bis (2-chloroethyl) ether		<0.25	mg/Kg
2-Chlorophenol		<0.25	mg/Kg
1,3-Dichlorobenzene (meta)		<0.25	mg/Kg
1,4-Dichlorobenzene		<0.25	mg/Kg
Benzyl alcohol		<0.25	mg/Kg

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This is only a summary. Please, refer to the complete report package for quality control data.

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Sample 216774 continued ...

Param	Flag	Result	Units
1,2-Dichlorobenzene		<0.25	mg/Kg
2-Methylphenol		<0.25	mg/Kg
bis (2-chloroisopropyl) ether		<0.25	mg/Kg
4-Methylphenol/3-Methylphenol		<0.25	mg/Kg
Acetophenone		<0.25	mg/Kg
n-Nitrosodi-n-propylamine		<0.25	mg/Kg
Hexachloroethane		<0.25	mg/Kg
Nitrobenzene		<0.25	mg/Kg
n-Nitrosopiperidine		<0.25	mg/Kg
Isophorone		<0.25	mg/Kg
2-Nitrophenol		<0.25	mg/Kg
2,4-Dimethylphenol		<0.25	mg/Kg
bis (2-chloroethoxy) methane		<0.25	mg/Kg
Benzoic acid		<0.25	mg/Kg
2,4-Dichlorophenol		<0.25	mg/Kg
1,2,4-Trichlorobenzene		<0.25	mg/Kg
a,a-Dimethylphenethylamine		<0.25	mg/Kg
Naphthalene		36.6	mg/Kg
4-Chloroaniline		<0.25	mg/Kg
2,6-Dichlorophenol		<0.25	mg/Kg
Hexachlorobutadiene		<0.25	mg/Kg
n-Nitroso-di-n-butylamine		<0.25	mg/Kg
4-Chloro-3-methylphenol		<0.25	mg/Kg
1-Methylnaphthalene		92.6	mg/Kg
2-Methylnaphthalene		53.9	mg/Kg
1,2,4,5-Tetrachlorobenzene		<0.25	mg/Kg
Hexachlorocyclopentadiene		<0.25	mg/Kg
2,4,6-Trichlorophenol		<0.25	mg/Kg
2,4,5-Trichlorophenol		<0.25	mg/Kg
2-Chloronaphthalene		<0.25	mg/Kg
1-Chloronaphthalene		<0.25	mg/Kg
2-Nitroaniline		<0.25	mg/Kg
Dimethylphthalate		<0.25	mg/Kg
Acenaphthylene		<0.25	mg/Kg
2,6-Dinitrotoluene		<0.25	mg/Kg
3-Nitroaniline		<0.25	mg/Kg
Acenaphthene		<0.25	mg/Kg
2,4-Dinitrophenol		<0.25	mg/Kg
Dibenzofuran		<0.25	mg/Kg
Pentachlorobenzene		<0.25	mg/Kg
4-Nitrophenol		<0.25	mg/Kg
1-Naphthylamine		<0.25	mg/Kg
2,4-Dinitrotoluene		<0.25	mg/Kg
2-Naphthylamine		<0.25	mg/Kg
2,3,4,6-Tetrachlorophenol		<0.25	mg/Kg
Fluorene		<0.25	mg/Kg
Diethylphthalate		<0.25	mg/Kg
4-Chlorophenyl-phenylether		<0.25	mg/Kg
4-Nitroaniline		<0.25	mg/Kg
4,6-Dinitro-2-methylphenol		<0.25	mg/Kg

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Eunice, NM*Sample 216774 continued ...*

Param	Flag	Result	Units
Diphenylamine		<0.25	mg/Kg
Diphenylhydrazine		<0.25	mg/Kg
4-Bromophenyl-phenylether		<0.25	mg/Kg
Phenacetin		<0.25	mg/Kg
Hexachlorobenzene		<0.25	mg/Kg
4-Aminobiphenyl		<0.25	mg/Kg
Pentachlorophenol		<0.25	mg/Kg
Pentachloronitrobenzene		<0.25	mg/Kg
Pronamide		<0.25	mg/Kg
Phenanthrene		<0.25	mg/Kg
Anthracene		33.3	mg/Kg
Di-n-butylphthalate		<0.25	mg/Kg
Fluoranthene		<0.25	mg/Kg
Benzidine		<0.25	mg/Kg
Pyrene		<0.25	mg/Kg
p-Dimethylaminoazobenzene		<0.25	mg/Kg
Butylbenzylphthalate		<0.25	mg/Kg
Benzo(a)anthracene		<0.25	mg/Kg
3,3-Dichlorobenzidine		<0.25	mg/Kg
Chrysene		6.37	mg/Kg
Bis (2-ethylhexyl) phthalate		<0.25	mg/Kg
Di-n-octylphthalate		<0.25	mg/Kg
Benzo(b)fluoranthene		<0.25	mg/Kg
7,12-Dimethylbenz(a)anthracene		<0.25	mg/Kg
Benzo(k)fluoranthene		<0.25	mg/Kg
Benzo(a)pyrene		<0.25	mg/Kg
3-Methylcholanthrene		<0.25	mg/Kg
Dibenzo(a,j)acridine		<0.25	mg/Kg
Indeno(1,2,3-cd)pyrene		<0.25	mg/Kg
Dibenzo(a,h)anthracene		<0.25	mg/Kg
Benzo(g,h,i)perylene		<0.25	mg/Kg
Total Aluminum		4000	mg/Kg
Total Arsenic		5.39	mg/Kg
Total Barium		421	mg/Kg
Total Boron		6.04	mg/Kg
Total Cadmium		<0.500	mg/Kg
Total Calcium		41800	mg/Kg
Total Chromium		23.8	mg/Kg
Total Cobalt		<2.50	mg/Kg
Total Copper		20.8	mg/Kg
Total Iron		6890	mg/Kg
Total Lead		25.8	mg/Kg
Total Magnesium		1000	mg/Kg
Total Manganese		47.6	mg/Kg
Total Molybdenum		<5.00	mg/Kg
Total Nickel		6.91	mg/Kg
Total Potassium		762	mg/Kg
Total Selenium		<1.00	mg/Kg
Total Silica		115	mg/Kg
Total Silver		<0.200	mg/Kg

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Sample 216774 continued ...

Param	Flag	Result	Units
Total Sodium		447	mg/Kg
Total Zinc		85.8	mg/Kg
Bromochloromethane		<500	µg/Kg
Dichlorodifluoromethane		<500	µg/Kg
Chloromethane (methyl chloride)		<500	µg/Kg
Vinyl Chloride		<500	µg/Kg
Bromomethane (methyl bromide)		<2500	µg/Kg
Chloroethane		<500	µg/Kg
Trichlorofluoromethane		<500	µg/Kg
Acetone		<5000	µg/Kg
Iodomethane (methyl iodide)		<2500	µg/Kg
Carbon Disulfide		<500	µg/Kg
Acrylonitrile		<500	µg/Kg
2-Butanone (MEK)		<2500	µg/Kg
4-methyl-2-pentanone (MIBK)		<2500	µg/Kg
2-hexanone		<2500	µg/Kg
trans 1,4-Dichloro-2-butene		<5000	µg/Kg
1,1-Dichloroethene		<500	µg/Kg
Methylene chloride		<2500	µg/Kg
MTBE		<500	µg/Kg
trans-1,2-Dichloroethene		<500	µg/Kg
1,1-Dichloroethane		<500	µg/Kg
cis-1,2-Dichloroethene		<500	µg/Kg
2,2-Dichloropropane		<500	µg/Kg
1,2-Dichloroethane (EDC)		<500	µg/Kg
Chloroform		<500	µg/Kg
1,1,1-Trichloroethane		<500	µg/Kg
1,1-Dichloropropene		<500	µg/Kg
Benzene		13900	µg/Kg
Carbon Tetrachloride		<500	µg/Kg
1,2-Dichloropropane		<500	µg/Kg
Trichloroethene (TCE)		<500	µg/Kg
Dibromomethane (methylene bromide)		<500	µg/Kg
Bromodichloromethane		<500	µg/Kg
2-Chloroethyl vinyl ether		<2500	µg/Kg
cis-1,3-Dichloropropene		<500	µg/Kg
trans-1,3-Dichloropropene		<500	µg/Kg
Toluene		5890	µg/Kg
1,1,2-Trichloroethane		<500	µg/Kg
1,3-Dichloropropane		<500	µg/Kg
Dibromochloromethane		<500	µg/Kg
1,2-Dibromoethane (EDB)		<500	µg/Kg
Tetrachloroethene (PCE)		<500	µg/Kg
Chlorobenzene		<500	µg/Kg
1,1,1,2-Tetrachloroethane		<500	µg/Kg
Ethylbenzene		41700	µg/Kg
m,p-Xylene		47600	µg/Kg
Bromoform		<500	µg/Kg
Styrene		<500	µg/Kg
o-Xylene		7680	µg/Kg

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Sample 216774 continued ...

Param	Flag	Result	Units
1,1,2,2-Tetrachloroethane		<500	µg/Kg
2-Chlorotoluene		<500	µg/Kg
1,2,3-Trichloropropane		<500	µg/Kg
Isopropylbenzene		8690	µg/Kg
Bromobenzene		<500	µg/Kg
n-Propylbenzene		12500	µg/Kg
1,3,5-Trimethylbenzene		10500	µg/Kg
tert-Butylbenzene		<500	µg/Kg
1,2,4-Trimethylbenzene		33400	µg/Kg
1,4-Dichlorobenzene (para)		<500	µg/Kg
sec-Butylbenzene		4720	µg/Kg
1,3-Dichlorobenzene (meta)		<500	µg/Kg
p-Isopropyltoluene		3110	µg/Kg
4-Chlorotoluene		<500	µg/Kg
1,2-Dichlorobenzene (ortho)		<500	µg/Kg
n-Butylbenzene		5310	µg/Kg
1,2-Dibromo-3-chloropropane		<2500	µg/Kg
1,2,3-Trichlorobenzene		<2500	µg/Kg
1,2,4-Trichlorobenzene		<2500	µg/Kg
Naphthalene		10300	µg/Kg
Hexachlorobutadiene		<2500	µg/Kg
pH		8.0	s.u.

Sample: 216775 - 1218020940

Param	Flag	Result	Units
Hydroxide Alkalinity		<1.0	mg/L as CaCo3
Carbonate Alkalinity		<1.0	mg/L as CaCo3
Bicarbonate Alkalinity		110	mg/L as CaCo3
Total Alkalinity		110	mg/L as CaCo3
Specific Conductance		937	µMHOS/cm
Corrosivity	Non-corrosive		mm/yr
pH		7.5	s.u.
Total Mercury		0.46	mg/Kg
Ignitability	non-ignitable		
Chloride		87.1	mg/Kg
Fluoride		<1.0	mg/Kg
Nitrate-N		<1.0	mg/Kg
Sulfate		64.9	mg/Kg
PCB		<0.004	mg/Kg
alpha-BHC		<0.004	mg/Kg
gamma-BHC (Lindane)		<0.004	mg/Kg
beta-BHC		<0.004	mg/Kg
delta-BHC		<0.004	mg/Kg
Heptachlor		<0.004	mg/Kg
Aldrin		<0.004	mg/Kg
Heptachlor Epoxide		<0.004	mg/Kg
gamma-Chlordane		<0.004	mg/Kg
alpha-Chlordane		<0.004	mg/Kg

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Sample 216775 continued ...

Param	Flag	Result	Units
Endosulfan I		<0.004	mg/Kg
P,P-DDE		<0.004	mg/Kg
Dieldrin		<0.004	mg/Kg
Endrin		<0.004	mg/Kg
P,P-DDD		<0.004	mg/Kg
Endosulfan II		<0.004	mg/Kg
p,p-DDT		<0.004	mg/Kg
Endrin aldehyde		<0.004	mg/Kg
Endosulfan sulfate		<0.004	mg/Kg
Methoxychlor		<0.004	mg/Kg
Endrin Ketone		<0.004	mg/Kg
Toxaphene		<0.050	mg/Kg
Technical Chlordane		<0.050	mg/Kg
Reactivity		Non-reactive	
Hydrogen Sulfide		<10	mg/Kg
Hydrogen Cyanide		<2.5	mg/Kg
Pyridine		<2.50	mg/Kg
n-Nitrosodimethylamine		<2.50	mg/Kg
2-Picoline		<2.50	mg/Kg
Methyl methanesulfonate		<2.50	mg/Kg
Ethyl methanesulfonate		<2.50	mg/Kg
Phenol		<2.50	mg/Kg
Aniline		<2.50	mg/Kg
bis (2-chloroethyl) ether		<2.50	mg/Kg
2-Chlorophenol		<2.50	mg/Kg
1,3-Dichlorobenzene (meta)		<2.50	mg/Kg
1,4-Dichlorobenzene		<2.50	mg/Kg
Benzyl alcohol		<2.50	mg/Kg
1,2-Dichlorobenzene		<2.50	mg/Kg
2-Methylphenol		<2.50	mg/Kg
bis (2-chloroisopropyl) ether		<2.50	mg/Kg
4-Methylphenol/3-Methylphenol		<2.50	mg/Kg
Acetophenone		<2.50	mg/Kg
n-Nitrosodi-n-propylamine		<2.50	mg/Kg
Hexachloroethane		<2.50	mg/Kg
Nitrobenzene		<2.50	mg/Kg
n-Nitrosopiperidine		<2.50	mg/Kg
Isophorone		<2.50	mg/Kg
2-Nitrophenol		<2.50	mg/Kg
2,4-Dimethylphenol		<2.50	mg/Kg
bis (2-chloroethoxy) methane		<2.50	mg/Kg
Benzoic acid		<2.50	mg/Kg
2,4-Dichlorophenol		<2.50	mg/Kg
1,2,4-Trichlorobenzene		<2.50	mg/Kg
a,a-Dimethylphenethylamine		<2.50	mg/Kg
Naphthalene		7.00	mg/Kg
4-Chloroaniline		<2.50	mg/Kg
2,6-Dichlorophenol		<2.50	mg/Kg
Hexachlorobutadiene		<2.50	mg/Kg
n-Nitroso-di-n-butylamine		<2.50	mg/Kg

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Eunice, NM*Sample 216775 continued ...*

Param	Flag	Result	Units
4-Chloro-3-methylphenol		<2.50	mg/Kg
1-Methylnaphthalene		16.3	mg/Kg
2-Methylnaphthalene		17.2	mg/Kg
1,2,4,5-Tetrachlorobenzene		<2.50	mg/Kg
Hexachlorocyclopentadiene		<2.50	mg/Kg
2,4,6-Trichlorophenol		<2.50	mg/Kg
2,4,5-Trichlorophenol		<2.50	mg/Kg
2-Chloronaphthalene		<2.50	mg/Kg
1-Chloronaphthalene		<2.50	mg/Kg
2-Nitroaniline		<2.50	mg/Kg
Dimethylphthalate		<2.50	mg/Kg
Acenaphthylene		<2.50	mg/Kg
2,6-Dinitrotoluene		<2.50	mg/Kg
3-Nitroaniline		<2.50	mg/Kg
Acenaphthene		<2.50	mg/Kg
2,4-Dinitrophenol		<2.50	mg/Kg
Dibenzofuran		<2.50	mg/Kg
Pentachlorobenzene		<2.50	mg/Kg
4-Nitrophenol		<2.50	mg/Kg
1-Naphthylamine		<2.50	mg/Kg
2,4-Dinitrotoluene		<2.50	mg/Kg
2-Naphthylamine		<2.50	mg/Kg
2,3,4,6-Tetrachlorophenol		<2.50	mg/Kg
Fluorene		<2.50	mg/Kg
Diethylphthalate		<2.50	mg/Kg
4-Chlorophenyl-phenylether		<2.50	mg/Kg
4-Nitroaniline		<2.50	mg/Kg
4,6-Dinitro-2-methylphenol		<2.50	mg/Kg
Diphenylamine		<2.50	mg/Kg
Diphenylhydrazine		<2.50	mg/Kg
4-Bromophenyl-phenylether		<2.50	mg/Kg
Phenacetin		<2.50	mg/Kg
Hexachlorobenzene		<2.50	mg/Kg
4-Aminobiphenyl		<2.50	mg/Kg
Pentachlorophenol		<2.50	mg/Kg
Pentachloronitrobenzene		<2.50	mg/Kg
Pronamide		<2.50	mg/Kg
Phenanthrene		<2.50	mg/Kg
Anthracene		9.24	mg/Kg
Di-n-butylphthalate		<2.50	mg/Kg
Fluoranthene		<2.50	mg/Kg
Benzidine		<2.50	mg/Kg
Pyrene		<2.50	mg/Kg
p-Dimethylaminoazobenzene		<2.50	mg/Kg
Butylbenzylphthalate		<2.50	mg/Kg
Benzo(a)anthracene		<2.50	mg/Kg
3,3-Dichlorobenzidine		<2.50	mg/Kg
Chrysene		3.09	mg/Kg
Bis (2-ethylhexyl) phthalate		<2.50	mg/Kg
Di-n-octylphthalate		<2.50	mg/Kg

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Sample 216775 continued ...

Param	Flag	Result	Units
Benzo(b)fluoranthene		<2.50	mg/Kg
7,12-Dimethylbenz(a)anthracene		<2.50	mg/Kg
Benzo(k)fluoranthene		<2.50	mg/Kg
Benzo(a)pyrene		<2.50	mg/Kg
3-Methylcholanthrene		<2.50	mg/Kg
Dibenzo(a,j)acridine		<2.50	mg/Kg
Indeno(1,2,3-cd)pyrene		<2.50	mg/Kg
Dibenzo(a,h)anthracene		<2.50	mg/Kg
Benzo(g,h,i)perylene		<2.50	mg/Kg
Total Aluminum		850	mg/Kg
Total Arsenic		5.5	mg/Kg
Total Barium		190	mg/Kg
Total Boron		126	mg/Kg
Total Cadmium		<0.500	mg/Kg
Total Calcium		2920	mg/Kg
Total Chromium		9.03	mg/Kg
Total Cobalt		<2.50	mg/Kg
Total Copper		12.5	mg/Kg
Total Iron		10900	mg/Kg
Total Lead		24.9	mg/Kg
Total Magnesium		233	mg/Kg
Total Manganese		95.2	mg/Kg
Total Molybdenum		<5.00	mg/Kg
Total Nickel		8.81	mg/Kg
Total Potassium		203	mg/Kg
Total Selenium		<1.00	mg/Kg
Total Silica		78.7	mg/Kg
Total Silver		<0.200	mg/Kg
Total Sodium		377	mg/Kg
Total Zinc		92.3	mg/Kg
Bromochloromethane		<500	µg/Kg
Dichlorodifluoromethane		<500	µg/Kg
Chloromethane (methyl chloride)		<500	µg/Kg
Vinyl Chloride		<500	µg/Kg
Bromomethane (methyl bromide)		<2500	µg/Kg
Chloroethane		<500	µg/Kg
Trichlorofluoromethane		<500	µg/Kg
Acetone		<5000	µg/Kg
Iodomethane (methyl iodide)		<2500	µg/Kg
Carbon Disulfide		<500	µg/Kg
Acrylonitrile		<500	µg/Kg
2-Butanone (MEK)		<2500	µg/Kg
4-methyl-2-pentanone (MIBK)		<2500	µg/Kg
2-hexanone		<2500	µg/Kg
trans 1,4-Dichloro-2-butene		<5000	µg/Kg
1,1-Dichloroethene		<500	µg/Kg
Methylene chloride		<2500	µg/Kg
MTBE		<500	µg/Kg
trans-1,2-Dichloroethene		<500	µg/Kg
1,1-Dichloroethane		<500	µg/Kg

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Sample 216775 continued ...

Param	Flag	Result	Units
cis-1,2-Dichloroethene		<500	µg/Kg
2,2-Dichloropropane		<500	µg/Kg
1,2-Dichloroethane (EDC)		<500	µg/Kg
Chloroform		<500	µg/Kg
1,1,1-Trichloroethane		<500	µg/Kg
1,1-Dichloropropene		<500	µg/Kg
Benzene		2700	µg/Kg
Carbon Tetrachloride		<500	µg/Kg
1,2-Dichloropropane		<500	µg/Kg
Trichloroethene (TCE)		<500	µg/Kg
Dibromomethane (methylene bromide)		<500	µg/Kg
Bromodichloromethane		<500	µg/Kg
2-Chloroethyl vinyl ether		<2500	µg/Kg
cis-1,3-Dichloropropene		<500	µg/Kg
trans-1,3-Dichloropropene		<500	µg/Kg
Toluene		570	µg/Kg
1,1,2-Trichloroethane		<500	µg/Kg
1,3-Dichloropropane		<500	µg/Kg
Dibromochloromethane		<500	µg/Kg
1,2-Dibromoethane (EDB)		<500	µg/Kg
Tetrachloroethene (PCE)		<500	µg/Kg
Chlorobenzene		<500	µg/Kg
1,1,1,2-Tetrachloroethane		<500	µg/Kg
Ethylbenzene		15400	µg/Kg
m,p-Xylene		2420	µg/Kg
Bromoform		<500	µg/Kg
Styrene		<500	µg/Kg
o-Xylene		696	µg/Kg
1,1,2,2-Tetrachloroethane		<500	µg/Kg
2-Chlorotoluene		<500	µg/Kg
1,2,3-Trichloropropane		<500	µg/Kg
Isopropylbenzene		4500	µg/Kg
Bromobenzene		<500	µg/Kg
n-Propylbenzene		5620	µg/Kg
1,3,5-Trimethylbenzene		630	µg/Kg
tert-Butylbenzene		<500	µg/Kg
1,2,4-Trimethylbenzene		5070	µg/Kg
1,4-Dichlorobenzene (para)		<500	µg/Kg
sec-Butylbenzene		2810	µg/Kg
1,3-Dichlorobenzene (meta)		<500	µg/Kg
p-Isopropyltoluene		799	µg/Kg
4-Chlorotoluene		<500	µg/Kg
1,2-Dichlorobenzene (ortho)		<500	µg/Kg
n-Butylbenzene		2990	µg/Kg
1,2-Dibromo-3-chloropropane		<2500	µg/Kg
1,2,3-Trichlorobenzene		<2500	µg/Kg
1,2,4-Trichlorobenzene		<2500	µg/Kg
Naphthalene		5130	µg/Kg
Hexachlorobutadiene		<2500	µg/Kg
pH		7.6	s.u.

This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: January 16, 2003 Order Number: A02121917
N/A General Petroleum Pit

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Eunice, NM

Sample: 216776 - 1218021000

Param	Flag	Result	Units
Hydroxide Alkalinity		<1.0	mg/L as CaCo3
Carbonate Alkalinity		<1.0	mg/L as CaCo3
Bicarbonate Alkalinity		83.3	mg/L as CaCo3
Total Alkalinity		83.3	mg/L as CaCo3
Specific Conductance		3890	μMHOS/cm
Corrosivity	Non-corrosive		mm/yr
pH		7.5	s.u.
Total Mercury		3.86	mg/Kg
Ignitability	non-ignitable		
Chloride		814	mg/Kg
Fluoride		<1.0	mg/Kg
Nitrate-N		<1.0	mg/Kg
Sulfate		15.1	mg/Kg
PCB		<0.004	mg/Kg
alpha-BHC		<0.004	mg/Kg
gamma-BHC (Lindane)		<0.004	mg/Kg
beta-BHC		<0.004	mg/Kg
delta-BHC		<0.004	mg/Kg
Heptachlor		<0.004	mg/Kg
Aldrin		<0.004	mg/Kg
Heptachlor Epoxide		<0.004	mg/Kg
gamma-Chlordane		<0.004	mg/Kg
alpha-Chlordane		<0.004	mg/Kg
Endosulfan I		<0.004	mg/Kg
P,P-DDE		<0.004	mg/Kg
Dieldrin		<0.004	mg/Kg
Endrin		<0.004	mg/Kg
P,P-DDD		<0.004	mg/Kg
Endosulfan II		<0.004	mg/Kg
p,p-DDT		<0.004	mg/Kg
Endrin aldehyde		<0.004	mg/Kg
Endosulfan sulfate		<0.004	mg/Kg
Methoxychlor		<0.004	mg/Kg
Endrin Ketone		<0.004	mg/Kg
Toxaphene		<0.050	mg/Kg
Technical Chlordane		<0.050	mg/Kg
Reactivity	Non-reactive		
Hydrogen Sulfide		<10	mg/Kg
Hydrogen Cyanide		<2.5	mg/Kg
Pyridine		<2.50	mg/Kg
n-Nitrosodimethylamine		<2.50	mg/Kg
2-Picoline		<2.50	mg/Kg
Methyl methanesulfonate		<2.50	mg/Kg
Ethyl methanesulfonate		<2.50	mg/Kg
Phenol		<2.50	mg/Kg
Aniline		<2.50	mg/Kg
bis (2-chloroethyl) ether		<2.50	mg/Kg
2-Chlorophenol		<2.50	mg/Kg
1,3-Dichlorobenzene (meta)		<2.50	mg/Kg
1,4-Dichlorobenzene		<2.50	mg/Kg
Benzyl alcohol		<2.50	mg/Kg

Continued on next page ...

This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: January 16, 2003 Order Number: A02121917
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Eunice, NM*Sample 216776 continued ...*

Param	Flag	Result	Units
1,2-Dichlorobenzene		<2.50	mg/Kg
2-Methylphenol		<2.50	mg/Kg
bis (2-chloroisopropyl) ether		<2.50	mg/Kg
4-Methylphenol/3-Methylphenol		<2.50	mg/Kg
Acetophenone		<2.50	mg/Kg
n-Nitrosodi-n-propylamine		<2.50	mg/Kg
Hexachloroethane		<2.50	mg/Kg
Nitrobenzene		<2.50	mg/Kg
n-Nitrosopiperidine		<2.50	mg/Kg
Isophorone		<2.50	mg/Kg
2-Nitrophenol		<2.50	mg/Kg
2,4-Dimethylphenol		<2.50	mg/Kg
bis (2-chloroethoxy) methane		<2.50	mg/Kg
Benzoic acid		<2.50	mg/Kg
2,4-Dichlorophenol		<2.50	mg/Kg
1,2,4-Trichlorobenzene		<2.50	mg/Kg
a,a-Dimethylphenethylamine		<2.50	mg/Kg
Naphthalene		25.7	mg/Kg
4-Chloroaniline		<2.50	mg/Kg
2,6-Dichlorophenol		<2.50	mg/Kg
Hexachlorobutadiene		<2.50	mg/Kg
n-Nitroso-di-n-butylamine		<2.50	mg/Kg
4-Chloro-3-methylphenol		<2.50	mg/Kg
1-Methylnaphthalene		63.9	mg/Kg
2-Methylnaphthalene		61.2	mg/Kg
1,2,4,5-Tetrachlorobenzene		<2.50	mg/Kg
Hexachlorocyclopentadiene		<2.50	mg/Kg
2,4,6-Trichlorophenol		<2.50	mg/Kg
2,4,5-Trichlorophenol		<2.50	mg/Kg
2-Chloronaphthalene		<2.50	mg/Kg
1-Chloronaphthalene		<2.50	mg/Kg
2-Nitroaniline		<2.50	mg/Kg
Dimethylphthalate		<2.50	mg/Kg
Acenaphthylene		<2.50	mg/Kg
2,6-Dinitrotoluene		<2.50	mg/Kg
3-Nitroaniline		<2.50	mg/Kg
Acenaphthene		<2.50	mg/Kg
2,4-Dinitrophenol		<2.50	mg/Kg
Dibenzofuran		<2.50	mg/Kg
Pentachlorobenzene		<2.50	mg/Kg
4-Nitrophenol		<2.50	mg/Kg
1-Naphthylamine		<2.50	mg/Kg
2,4-Dinitrotoluene		<2.50	mg/Kg
2-Naphthylamine		<2.50	mg/Kg
2,3,4,6-Tetrachlorophenol		<2.50	mg/Kg
Fluorene		<2.50	mg/Kg
Diethylphthalate		<2.50	mg/Kg
4-Chlorophenyl-phenylether		<2.50	mg/Kg
4-Nitroaniline		<2.50	mg/Kg
4,6-Dinitro-2-methylphenol		<2.50	mg/Kg

*Continued on next page ...**This is only a summary. Please, refer to the complete report package for quality control data.*

Report Date: January 16, 2003 Order Number: A02121917
N/A General Petroleum Pit

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Eunice, NM

Sample 216776 continued ...

Param	Flag	Result	Units
Diphenylamine		<2.50	mg/Kg
Diphenylhydrazine		<2.50	mg/Kg
4-Bromophenyl-phenylether		<2.50	mg/Kg
Phenacetin		<2.50	mg/Kg
Hexachlorobenzene		<2.50	mg/Kg
4-Aminobiphenyl		<2.50	mg/Kg
Pentachlorophenol		<2.50	mg/Kg
Pentachloronitrobenzene		<2.50	mg/Kg
Pronamide		<2.50	mg/Kg
Phenanthrene		<2.50	mg/Kg
Anthracene		16.1	mg/Kg
Di-n-butylphthalate		<2.50	mg/Kg
Fluoranthene		<2.50	mg/Kg
Benzidine		<2.50	mg/Kg
Pyrene		<2.50	mg/Kg
p-Dimethylaminoazobenzene		<2.50	mg/Kg
Butylbenzylphthalate		<2.50	mg/Kg
Benzo(a)anthracene		<2.50	mg/Kg
3,3-Dichlorobenzidine		<2.50	mg/Kg
Chrysene		3.66	mg/Kg
Bis (2-ethylhexyl) phthalate		<2.50	mg/Kg
Di-n-octylphthalate		<2.50	mg/Kg
Benzo(b)fluoranthene		<2.50	mg/Kg
7,12-Dimethylbenz(a)anthracene		<2.50	mg/Kg
Benzo(k)fluoranthene		<2.50	mg/Kg
Benzo(a)pyrene		<2.50	mg/Kg
3-Methylcholanthrene		<2.50	mg/Kg
Dibenzo(a,j)acridine		<2.50	mg/Kg
Indeno(1,2,3-cd)pyrene		<2.50	mg/Kg
Dibenzo(a,h)anthracene		<2.50	mg/Kg
Benzo(g,h,i)perylene		<2.50	mg/Kg
Test Comments		<2.50	mg/Kg
Total Aluminum		550	mg/Kg
Total Arsenic		25.1	mg/Kg
Total Barium		1170	mg/Kg
Total Boron		4.53	mg/Kg
Total Cadmium		1.44	mg/Kg
Total Calcium		7940	mg/Kg
Total Chromium		19	mg/Kg
Total Cobalt		3.01	mg/Kg
Total Copper		58.8	mg/Kg
Total Iron		21500	mg/Kg
Total Lead		122	mg/Kg
Total Magnesium		861	mg/Kg
Total Manganese		95.2	mg/Kg
Total Molybdenum		<5.00	mg/Kg
Total Nickel		19	mg/Kg
Total Potassium		246	mg/Kg
Total Selenium		<1.00	mg/Kg
Total Silica		78.7	mg/Kg

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This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: January 16, 2003 Order Number: A02121917
N/A General Petroleum PitPage Number: 18 of 19
Eunice, NM*Sample 216776 continued ...*

Param	Flag	Result	Units
Total Silver		<0.200	mg/Kg
Total Sodium		1620	mg/Kg
Total Zinc		430	mg/Kg
Bromochloromethane		<1000	µg/Kg
Dichlorodifluoromethane		<1000	µg/Kg
Chloromethane (methyl chloride)		<1000	µg/Kg
Vinyl Chloride		<1000	µg/Kg
Bromomethane (methyl bromide)		<5000	µg/Kg
Chloroethane		<1000	µg/Kg
Trichlorofluoromethane		<1000	µg/Kg
Acetone		<10000	µg/Kg
Iodomethane (methyl iodide)		<5000	µg/Kg
Carbon Disulfide		<1000	µg/Kg
Acrylonitrile		<1000	µg/Kg
2-Butanone (MEK)		<5000	µg/Kg
4-methyl-2-pentanone (MIBK)		<5000	µg/Kg
2-hexanone		<5000	µg/Kg
trans 1,4-Dichloro-2-butene		<10000	µg/Kg
1,1-Dichloroethene		<1000	µg/Kg
Methylene chloride		<5000	µg/Kg
MTBE		<1000	µg/Kg
trans-1,2-Dichloroethene		<1000	µg/Kg
1,1-Dichloroethane		<1000	µg/Kg
cis-1,2-Dichloroethene		<1000	µg/Kg
2,2-Dichloropropane		<1000	µg/Kg
1,2-Dichloroethane (EDC)		<1000	µg/Kg
Chloroform		<1000	µg/Kg
1,1,1-Trichloroethane		<1000	µg/Kg
1,1-Dichloropropene		<1000	µg/Kg
Benzene		54700	µg/Kg
Carbon Tetrachloride		<1000	µg/Kg
1,2-Dichloropropane		<1000	µg/Kg
Trichloroethene (TCE)		<1000	µg/Kg
Dibromomethane (methylene bromide)		<1000	µg/Kg
Bromodichloromethane		<1000	µg/Kg
2-Chloroethyl vinyl ether		<5000	µg/Kg
cis-1,3-Dichloropropene		<1000	µg/Kg
trans-1,3-Dichloropropene		<1000	µg/Kg
Toluene		110000	µg/Kg
1,1,2-Trichloroethane		<1000	µg/Kg
1,3-Dichloropropane		<1000	µg/Kg
Dibromochloromethane		<1000	µg/Kg
1,2-Dibromoethane (EDB)		<1000	µg/Kg
Tetrachloroethene (PCE)		<1000	µg/Kg
Chlorobenzene		<1000	µg/Kg
1,1,1,2-Tetrachloroethane		<1000	µg/Kg
Ethylbenzene		82900	µg/Kg
m,p-Xylene		119000	µg/Kg
Bromoform		<1000	µg/Kg
Styrene		<1000	µg/Kg

*Continued on next page ...**This is only a summary. Please, refer to the complete report package for quality control data.*

Report Date: January 16, 2003 Order Number: A02121917
N/A General Petroleum Pit

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Eunice, NM

Sample 216776 continued ...

Param	Flag	Result	Units
o-Xylene		43300	µg/Kg
1,1,2,2-Tetrachloroethane		<1000	µg/Kg
2-Chlorotoluene		<1000	µg/Kg
1,2,3-Trichloropropane		<1000	µg/Kg
Isopropylbenzene		17300	µg/Kg
Bromobenzene		<1000	µg/Kg
n-Propylbenzene		22800	µg/Kg
1,3,5-Trimethylbenzene		23500	µg/Kg
tert-Butylbenzene		<1000	µg/Kg
1,2,4-Trimethylbenzene		66200	µg/Kg
1,4-Dichlorobenzene (para)		<1000	µg/Kg
sec-Butylbenzene		8620	µg/Kg
1,3-Dichlorobenzene (meta)		<1000	µg/Kg
p-Isopropyltoluene		5750	µg/Kg
4-Chlorotoluene		<1000	µg/Kg
1,2-Dichlorobenzene (ortho)		<1000	µg/Kg
n-Butylbenzene		9060	µg/Kg
1,2-Dibromo-3-chloropropane		<5000	µg/Kg
1,2,3-Trichlorobenzene		<5000	µg/Kg
1,2,4-Trichlorobenzene		<5000	µg/Kg
Naphthalene		43800	µg/Kg
Hexachlorobutadiene		<5000	µg/Kg
pH		6.9	s.u.

This is only a summary. Please, refer to the complete report package for quality control data.



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Analytical and Quality Control Report

Martyne Kieling
OCD
1220 S. Saint Francis Dr.
Santa Fe, NM 87505

Report Date: January 16, 2003

Order ID Number: A02121917

Project Number: N/A
Project Name: General Petroleum Pit
Project Location: Eunice, NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

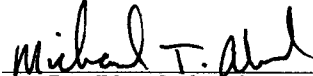
Sample	Description	Matrix	Date Taken	Time Taken	Date Received
216773	1218020855	Sludge	12/18/02	8:55	12/19/02
216774	1218020915	Sludge	12/18/02	9:15	12/19/02
216775	1218020940	Sludge	12/18/02	9:40	12/19/02
216776	1218021000	Sludge	12/18/02	10:00	12/19/02

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed. Note: the RDL is equal to MQL for all organic analytes including TPH.

The test results contained within this report meet all requirements of LAC 33:I unless otherwise noted.

This report consists of a total of 45 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Note: Samples will be disposed of 30 days from the report date unless the lab is contacted before the 30 days has past.


Dr. Blair Leftwich, Director

Report Date: January 16, 2003
N/A

Order Number: A02121917
General Petroleum Pit

Page Number: 2 of 45
Eunice, NM

Analytical Report

Sample: 216773 - 1218020855

Analysis: Alkalinity Analytical Method: E 310.1 QC Batch: QC25954 Date Analyzed: 1/2/03
Analyst: RS Preparation Method: N/A Prep Batch: PB24025 Date Prepared: 1/2/03

Param	Flag	Result	Units	Dilution	RDL
Hydroxide Alkalinity		<1.0	mg/L as CaCo3	1	1
Carbonate Alkalinity		<1.0	mg/L as CaCo3	1	1
Bicarbonate Alkalinity		23.3	mg/L as CaCo3	1	4
Total Alkalinity		23.3	mg/L as CaCo3	1	4

Sample: 216773 - 1218020855

Analysis: Conductivity Analytical Method: SM 2510B QC Batch: QC26074 Date Analyzed: 1/8/03
Analyst: JSW Preparation Method: N/A Prep Batch: PB24116 Date Prepared: 1/8/03

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		2830	μMHOS/cm	1	

Sample: 216773 - 1218020855

Analysis: Corrosivity Analytical Method: S 1110 QC Batch: QC25828 Date Analyzed: 12/26/02
Analyst: JH Preparation Method: N/A Prep Batch: PB23933 Date Prepared: 12/26/02

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		Non-corrosive	mm/yr	1	
pH		7.9	s.u.	1	

Sample: 216773 - 1218020855

Analysis: Hg, Total Analytical Method: S 7471A QC Batch: QC25879 Date Analyzed: 12/27/02
Analyst: BC Preparation Method: N/A Prep Batch: PB23968 Date Prepared: 12/26/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		2.27	mg/Kg	1	0.25

Sample: 216773 - 1218020855

Analysis: Ignitability Analytical Method: SW-846 Ch. 7.1 QC Batch: QC25826 Date Analyzed: 12/26/02
Analyst: JH Preparation Method: N/A Prep Batch: PB23931 Date Prepared: 12/26/02

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		1	

Sample: 216773 - 1218020855

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC25902 Date Analyzed: 12/30/02
Analyst: RS Preparation Method: N/A Prep Batch: PB23983 Date Prepared: 12/30/02

Report Date: January 16, 2003
N/A

Order Number: A02121917
General Petroleum Pit

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Eunice, NM

Param	Flag	Result	Units	Dilution	RDL
Chloride		833	mg/Kg	50	1
Fluoride		<1.0	mg/Kg	5	0.20
Nitrate-N		<1.0	mg/Kg	5	0.20
Sulfate		15.5	mg/Kg	5	1

Sample: 216773 - 1218020855

Analysis: PCB Analytical Method: 8082 QC Batch: QC25771 Date Analyzed: 12/23/02
Analyst: AG Preparation Method: 3550 Prep Batch: PB23879 Date Prepared: 12/23/02

Param	Flag	Result	Units	Dilution	RDL
PCB		<0.004	mg/Kg	0.16	0.02

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
deca chlorobiphenyl		0.0048	mg/Kg	0.16	0.01	30	0 - 183

Sample: 216773 - 1218020855

Analysis: Pesticides Analytical Method: E 8081 QC Batch: QC25833 Date Analyzed: 12/26/02
Analyst: AG Preparation Method: 3550 Prep Batch: PB23879 Date Prepared: 12/23/02

Param	Flag	Result	Units	Dilution	RDL
alpha-BHC		<0.004	mg/Kg	0.16	0.02
gamma-BHC (Lindane)		<0.004	mg/Kg	0.16	0.02
beta-BHC		<0.004	mg/Kg	0.16	0.02
delta-BHC		<0.004	mg/Kg	0.16	0.02
Heptachlor		<0.004	mg/Kg	0.16	0.02
Aldrin		<0.004	mg/Kg	0.16	0.02
Heptachlor Epoxide		<0.004	mg/Kg	0.16	0.02
gamma-Chlordane		<0.004	mg/Kg	0.16	0.02
alpha-Chlordane		<0.004	mg/Kg	0.16	0.02
Endosulfan I		<0.004	mg/Kg	0.16	0.02
P,P-DDE		<0.004	mg/Kg	0.16	0.02
Dieldrin		<0.004	mg/Kg	0.16	0.02
Endrin		<0.004	mg/Kg	0.16	0.02
P,P-DDD		<0.004	mg/Kg	0.16	0.02
Endosulfan II		<0.004	mg/Kg	0.16	0.02
p,p-DDT		<0.004	mg/Kg	0.16	0.02
Endrin aldehyde		<0.004	mg/Kg	0.16	0.02
Endosulfan sulfate		<0.004	mg/Kg	0.16	0.02
Methoxychlor		<0.004	mg/Kg	0.16	0.02
Endrin Ketone		<0.004	mg/Kg	0.16	0.02
Toxaphene		<0.050	mg/Kg	0.16	0.31
Technical Chlordane		<0.050	mg/Kg	0.16	0.31

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2,4,5,6-Tetrachloro-m-xylene		0.006	mg/Kg	0.16	0.01	37	-
deca chlorobiphenyl		0.0081	mg/Kg	0.16	0.01	50	-

Report Date: January 16, 2003
N/A

Order Number: A02121917
General Petroleum Pit

Page Number: 4 of 45
Eunice,NM

Sample: 216773 - 1218020855

Analysis: Reactivity Analytical Method: ASTM D 5049-90/4978-95 QC Batch: QC25829 Date Analyzed: 12/26/02
Analyst: JH Preparation Method: N/A Prep Batch: PB23934 Date Prepared: 12/26/02

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		1	
Hydrogen Sulfide		<10	mg/Kg	1	
Hydrogen Cyanide		<2.5	mg/Kg	1	

Sample: 216773 - 1218020855

Analysis: Semivolatiles Analytical Method: S 8270C QC Batch: QC25987 Date Analyzed: 1/4/03
Analyst: RC Preparation Method: E 3510C Prep Batch: PB24057 Date Prepared: 12/19/02

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<25.0	mg/Kg	100	0.25
n-Nitrosodimethylamine		<25.0	mg/Kg	100	0.25
2-Picoline		<25.0	mg/Kg	100	0.25
Methyl methanesulfonate		<25.0	mg/Kg	100	0.25
Ethyl methanesulfonate		<25.0	mg/Kg	100	0.25
Phenol		<25.0	mg/Kg	100	0.25
Aniline		<25.0	mg/Kg	100	0.25
bis (2-chloroethyl) ether		<25.0	mg/Kg	100	0.25
2-Chlorophenol		<25.0	mg/Kg	100	0.25
1,3-Dichlorobenzene (meta)		<25.0	mg/Kg	100	0.25
1,4-Dichlorobenzene		<25.0	mg/Kg	100	0.25
Benzyl alcohol		<25.0	mg/Kg	100	0.25
1,2-Dichlorobenzene		<25.0	mg/Kg	100	0.25
2-Methylphenol		<25.0	mg/Kg	100	0.25
bis (2-chloroisopropyl) ether		<25.0	mg/Kg	100	0.25
4-Methylphenol/3-Methylphenol		<25.0	mg/Kg	100	0.25
Acetophenone		<25.0	mg/Kg	100	0.25
n-Nitrosodi-n-propylamine		<25.0	mg/Kg	100	0.25
Hexachloroethane		<25.0	mg/Kg	100	0.25
Nitrobenzene		<25.0	mg/Kg	100	0.25
n-Nitrosopiperidine		<25.0	mg/Kg	100	0.25
Isophorone		<25.0	mg/Kg	100	0.25
2-Nitrophenol		<25.0	mg/Kg	100	0.25
2,4-Dimethylphenol		<25.0	mg/Kg	100	0.25
bis (2-chloroethoxy) methane		<25.0	mg/Kg	100	0.25
Benzoic acid		<25.0	mg/Kg	100	0.25
2,4-Dichlorophenol		<25.0	mg/Kg	100	0.25
1,2,4-Trichlorobenzene		<25.0	mg/Kg	100	0.25
a,a-Dimethylphenethylamine		<25.0	mg/Kg	100	0.25
Naphthalene		44.8	mg/Kg	100	0.25
4-Chloroaniline		<25.0	mg/Kg	100	0.25
2,6-Dichlorophenol		<25.0	mg/Kg	100	0.25
Hexachlorobutadiene		<25.0	mg/Kg	100	0.25
n-Nitroso-di-n-butylamine		<25.0	mg/Kg	100	0.25
4-Chloro-3-methylphenol		<25.0	mg/Kg	100	0.25
1-Methylnaphthalene		87.7	mg/Kg	100	0.25
2-Methylnaphthalene		87.9	mg/Kg	100	0.25
1,2,4,5-Tetrachlorobenzene		<25.0	mg/Kg	100	0.25
Hexachlorocyclopentadiene		<25.0	mg/Kg	100	0.25

Continued ...

... Continued Sample: 216773 Analysis: Semivolatiles

Param	Flag	Result	Units	Dilution	RDL
2,4,6-Trichlorophenol		<25.0	mg/Kg	100	0.25
2,4,5-Trichlorophenol		<25.0	mg/Kg	100	0.25
2-Chloronaphthalene		<25.0	mg/Kg	100	0.25
1-Chloronaphthalene		<25.0	mg/Kg	100	0.25
2-Nitroaniline		<25.0	mg/Kg	100	0.25
Dimethylphthalate		<25.0	mg/Kg	100	0.25
Acenaphthylene		<25.0	mg/Kg	100	0.25
2,6-Dinitrotoluene		<25.0	mg/Kg	100	0.25
3-Nitroaniline		<25.0	mg/Kg	100	0.25
Acenaphthene		<25.0	mg/Kg	100	0.25
2,4-Dinitrophenol		<25.0	mg/Kg	100	0.25
Dibenzofuran		<25.0	mg/Kg	100	0.25
Pentachlorobenzene		<25.0	mg/Kg	100	0.25
4-Nitrophenol		<25.0	mg/Kg	100	0.25
1-Naphthylamine		<25.0	mg/Kg	100	0.25
2,4-Dinitrotoluene		<25.0	mg/Kg	100	0.25
2-Naphthylamine		<25.0	mg/Kg	100	0.25
2,3,4,6-Tetrachlorophenol		<25.0	mg/Kg	100	0.25
Fluorene		<25.0	mg/Kg	100	0.25
Diethylphthalate		<25.0	mg/Kg	100	0.25
4-Chlorophenyl-phenylether		<25.0	mg/Kg	100	0.25
4-Nitroaniline		<25.0	mg/Kg	100	0.25
4,6-Dinitro-2-methylphenol		<25.0	mg/Kg	100	0.25
Diphenylamine		<25.0	mg/Kg	100	0.25
Diphenylhydrazine		<25.0	mg/Kg	100	0.25
4-Bromophenyl-phenylether		<25.0	mg/Kg	100	0.25
Phenacetin		<25.0	mg/Kg	100	0.25
Hexachlorobenzene		<25.0	mg/Kg	100	0.25
4-Aminobiphenyl		<25.0	mg/Kg	100	0.25
Pentachlorophenol		<25.0	mg/Kg	100	0.25
Pentachloronitrobenzene		<25.0	mg/Kg	100	0.25
Pronamide		<25.0	mg/Kg	100	0.25
Phenanthrene		<25.0	mg/Kg	100	0.25
Anthracene		<25.0	mg/Kg	100	0.25
Di-n-butylphthalate		<25.0	mg/Kg	100	0.25
Fluoranthene		<25.0	mg/Kg	100	0.25
Benzidine		<25.0	mg/Kg	100	0.25
Pyrene		<25.0	mg/Kg	100	0.25
p-Dimethylaminoazobenzene		<25.0	mg/Kg	100	0.25
Butylbenzylphthalate		<25.0	mg/Kg	100	0.25
Benzo(a)anthracene		<25.0	mg/Kg	100	0.25
3,3-Dichlorobenzidine		<25.0	mg/Kg	100	0.25
Chrysene		<25.0	mg/Kg	100	0.25
Bis (2-ethylhexyl) phthalate		<25.0	mg/Kg	100	0.25
Di-n-octylphthalate		<25.0	mg/Kg	100	0.25
Benzo(b)fluoranthene		<25.0	mg/Kg	100	0.25
7,12-Dimethylbenz(a)anthracene		<25.0	mg/Kg	100	0.25
Benzo(k)fluoranthene		<25.0	mg/Kg	100	0.25
Benzo(a)pyrene		<25.0	mg/Kg	100	0.25
3-Methylcholanthrene		<25.0	mg/Kg	100	0.25
Dibenzo(a,j)acridine		<25.0	mg/Kg	100	0.25
Indeno(1,2,3-cd)pyrene		<25.0	mg/Kg	100	0.25
Dibenzo(a,h)anthracene		<25.0	mg/Kg	100	0.25

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... Continued Sample: 216773 Analysis: Semivolatiles

Param	Flag	Result	Units	Dilution	RDL
Benzo(g,h,i)perylene		<25.0	mg/Kg	100	0.25

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol	1	102.7	mg/Kg	100	80	128	25 - 121
Phenol-d5	2	88.8	mg/Kg	100	80	111	24 - 113
Nitrobenzene-d5	3	891	mg/Kg	100	80	1113	23 - 120
2-Fluorobiphenyl	4	288	mg/Kg	100	80	360	30 - 115
2,4,6-Tribromophenol	5	0	mg/Kg	100	80	0	19 - 122
Terphenyl-d14	6	346	mg/Kg	100	80	432	28 - 137

Sample: 216773 - 1218020855

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC25875 Date Analyzed: 12/29/02
Analyst: RR Preparation Method: S 3050B Prep Batch: PB23925 Date Prepared: 12/26/02

Param	Flag	Result	Units	Dilution	RDL
Total Aluminum		330	mg/Kg	100	0.10
Total Arsenic		15.6	mg/Kg	100	0.05
Total Barium		455	mg/Kg	100	0.10
Total Boron		4.46	mg/Kg	100	0.005
Total Cadmium		1.09	mg/Kg	100	0.005
Total Calcium		6050	mg/Kg	1	0.50
Total Chromium		25.7	mg/Kg	100	0.01
Total Cobalt		<2.50	mg/Kg	100	0.02
Total Copper		39.8	mg/Kg	100	0.01
Total Iron		19500	mg/Kg	100	0.05
Total Lead		136	mg/Kg	100	0.01
Total Magnesium		681	mg/Kg	1	0.50
Total Manganese		88.0	mg/Kg	100	0.02
Total Molybdenum		<5.00	mg/Kg	100	0.05
Total Nickel		13.9	mg/Kg	100	0.02
Total Potassium		162	mg/Kg	1	0.50
Total Selenium		<1.00	mg/Kg	100	0.01
Total Silica		78.1	mg/Kg	100	0.05
Total Silver		<0.200	mg/Kg	100	0.002
Total Sodium		1820	mg/Kg	1	0.50
Total Zinc		310	mg/Kg	100	0.02

Sample: 216773 - 1218020855

Analysis: Volatiles Analytical Method: S 8260B QC Batch: QC25943 Date Analyzed: 12/30/02
Analyst: JG Preparation Method: E 5030B Prep Batch: PB24020 Date Prepared: 12/30/02

¹ Sample surrogate recovery out of range due to sample matrix.

² Sample surrogate recovery out of range due to sample matrix.

³ Sample surrogate recovery out of range due to sample matrix.

⁴ Sample surrogate recovery out of range due to sample matrix.

⁵ Sample surrogate recovery out of range due to sample matrix.

⁶ Sample surrogate recovery out of range due to sample matrix.

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1000	µg/Kg	1000	1
Dichlorodifluoromethane		<1000	µg/Kg	1000	1
Chloromethane (methyl chloride)		<1000	µg/Kg	1000	1
Vinyl Chloride		<1000	µg/Kg	1000	1
Bromomethane (methyl bromide)		<5000	µg/Kg	1000	5
Chloroethane		<1000	µg/Kg	1000	1
Trichlorofluoromethane		<1000	µg/Kg	1000	1
Acetone		<10000	µg/Kg	1000	10
Iodomethane (methyl iodide)		<5000	µg/Kg	1000	5
Carbon Disulfide		<1000	µg/Kg	1000	1
Acrylonitrile		<1000	µg/Kg	1000	1
2-Butanone (MEK)		<5000	µg/Kg	1000	5
4-methyl-2-pentanone (MIBK)		<5000	µg/Kg	1000	5
2-hexanone		<5000	µg/Kg	1000	5
trans 1,4-Dichloro-2-butene		<10000	µg/Kg	1000	10
1,1-Dichloroethene		<1000	µg/Kg	1000	1
Methylene chloride		<5000	µg/Kg	1000	5
MTBE		<1000	µg/Kg	1000	1
trans-1,2-Dichloroethene		<1000	µg/Kg	1000	1
1,1-Dichloroethane		<1000	µg/Kg	1000	1
cis-1,2-Dichloroethene		<1000	µg/Kg	1000	1
2,2-Dichloropropane		<1000	µg/Kg	1000	1
1,2-Dichloroethane (EDC)		<1000	µg/Kg	1000	1
Chloroform		<1000	µg/Kg	1000	1
1,1,1-Trichloroethane		<1000	µg/Kg	1000	1
1,1-Dichloropropene		<1000	µg/Kg	1000	1
Benzene		66400	µg/Kg	1000	1
Carbon Tetrachloride		<1000	µg/Kg	1000	1
1,2-Dichloropropane		<1000	µg/Kg	1000	1
Trichloroethene (TCE)		<1000	µg/Kg	1000	1
Dibromomethane (methylene bromide)		<1000	µg/Kg	1000	1
Bromodichloromethane		<1000	µg/Kg	1000	1
2-Chloroethyl vinyl ether		<5000	µg/Kg	1000	5
cis-1,3-Dichloropropene		<1000	µg/Kg	1000	1
trans-1,3-Dichloropropene		<1000	µg/Kg	1000	1
Toluene		109000	µg/Kg	1000	1
1,1,2-Trichloroethane		<1000	µg/Kg	1000	1
1,3-Dichloropropane		<1000	µg/Kg	1000	1
Dibromochloromethane		<1000	µg/Kg	1000	1
1,2-Dibromoethane (EDB)		<1000	µg/Kg	1000	1
Tetrachloroethene (PCE)		<1000	µg/Kg	1000	1
Chlorobenzene		<1000	µg/Kg	1000	1
1,1,1,2-Tetrachloroethane		<1000	µg/Kg	1000	1
Ethylbenzene		108000	µg/Kg	1000	1
m,p-Xylene		145000	µg/Kg	1000	1
Bromoform		<1000	µg/Kg	1000	1
Styrene		<1000	µg/Kg	1000	1
o-Xylene		55400	µg/Kg	1000	1
1,1,2,2-Tetrachloroethane		<1000	µg/Kg	1000	1
2-Chlorotoluene		<1000	µg/Kg	1000	1
1,2,3-Trichloropropane		<1000	µg/Kg	1000	1
Isopropylbenzene		22600	µg/Kg	1000	1
Bromobenzene		<1000	µg/Kg	1000	1

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... Continued Sample: 216773 Analysis: Volatiles

Param	Flag	Result	Units	Dilution	RDL
n-Propylbenzene		31100	µg/Kg	1000	1
1,3,5-Trimethylbenzene		30700	µg/Kg	1000	1
tert-Butylbenzene		<1000	µg/Kg	1000	1
1,2,4-Trimethylbenzene		84200	µg/Kg	1000	1
1,4-Dichlorobenzene (para)		<1000	µg/Kg	1000	1
sec-Butylbenzene		11600	µg/Kg	1000	1
1,3-Dichlorobenzene (meta)		<1000	µg/Kg	1000	1
p-Isopropyltoluene		7690	µg/Kg	1000	1
4-Chlorotoluene		<1000	µg/Kg	1000	1
1,2-Dichlorobenzene (ortho)		<1000	µg/Kg	1000	1
n-Butylbenzene		13300	µg/Kg	1000	1
1,2-Dibromo-3-chloropropane		<5000	µg/Kg	1000	5
1,2,3-Trichlorobenzene		<5000	µg/Kg	1000	5
1,2,4-Trichlorobenzene		<5000	µg/Kg	1000	5
Naphthalene		39200	µg/Kg	1000	5
Hexachlorobutadiene		<5000	µg/Kg	1000	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		39.7	µg/Kg	1000	50	79	45 - 105
Toluene-d8		49.9	µg/Kg	1000	50	99	92 - 106
4-Bromofluorobenzene		47.2	µg/Kg	1000	50	94	84 - 115

Sample: 216773 - 1218020855

Analysis: pH Analytical Method: E 150.1 QC Batch: QC25936 Date Analyzed: 12/27/02
Analyst: RS Preparation Method: N/A Prep Batch: PB24015 Date Prepared: 12/27/02

Param	Flag	Result	Units	Dilution	RDL
pH		6.8	s.u.	1	1

Sample: 216774 - 1218020915

Analysis: Alkalinity Analytical Method: E 310.1 QC Batch: QC25954 Date Analyzed: 1/2/03
Analyst: RS Preparation Method: N/A Prep Batch: PB24025 Date Prepared: 1/2/03

Param	Flag	Result	Units	Dilution	RDL
Hydroxide Alkalinity		<1.0	mg/L as CaCo3	1	1
Carbonate Alkalinity		<1.0	mg/L as CaCo3	1	1
Bicarbonate Alkalinity		147	mg/L as CaCo3	1	4
Total Alkalinity		147	mg/L as CaCo3	1	4

Sample: 216774 - 1218020915

Analysis: Conductivity Analytical Method: SM 2510B QC Batch: QC26074 Date Analyzed: 1/8/03
Analyst: JSW Preparation Method: N/A Prep Batch: PB24116 Date Prepared: 1/8/03

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		976	µMHOS/cm	1	

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Sample: 216774 - 1218020915

Analysis: Corrosivity Analytical Method: S 1110 QC Batch: QC25828 Date Analyzed: 12/26/02
Analyst: JH Preparation Method: N/A Prep Batch: PB23933 Date Prepared: 12/26/02

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		Non-corrosive	mm/yr	1	
pH		8.2	s.u.	1	

Sample: 216774 - 1218020915

Analysis: Hg, Total Analytical Method: S 7471A QC Batch: QC25879 Date Analyzed: 12/27/02
Analyst: BC Preparation Method: N/A Prep Batch: PB23968 Date Prepared: 12/26/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		5.46	mg/Kg	1	0.25

Sample: 216774 - 1218020915

Analysis: Ignitability Analytical Method: SW-846 Ch. 7.1 QC Batch: QC25826 Date Analyzed: 12/26/02
Analyst: JH Preparation Method: N/A Prep Batch: PB23931 Date Prepared: 12/26/02

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		1	

Sample: 216774 - 1218020915

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC25902 Date Analyzed: 12/30/02
Analyst: RS Preparation Method: N/A Prep Batch: PB23983 Date Prepared: 12/30/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		156	mg/Kg	5	1
Fluoride		<1.0	mg/Kg	5	0.20
Nitrate-N		<1.0	mg/Kg	5	0.20
Sulfate		12.0	mg/Kg	5	1

Sample: 216774 - 1218020915

Analysis: PCB Analytical Method: 8082 QC Batch: QC25771 Date Analyzed: 12/23/02
Analyst: AG Preparation Method: 3550 Prep Batch: PB23879 Date Prepared: 12/23/02

Param	Flag	Result	Units	Dilution	RDL
PCB		<0.004	mg/Kg	0.16	0.02

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
deca chlorobiphenyl		0.0041	mg/Kg	0.16	0.01	25	0 - 183

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Sample: 216774 - 1218020915

Analysis: Pesticides Analytical Method: E 8081 QC Batch: QC25833 Date Analyzed: 12/26/02
Analyst: AG Preparation Method: 3550 Prep Batch: PB23879 Date Prepared: 12/23/02

Param	Flag	Result	Units	Dilution	RDL
alpha-BHC		<0.004	mg/Kg	0.16	0.02
gamma-BHC (Lindane)		<0.004	mg/Kg	0.16	0.02
beta-BHC		<0.004	mg/Kg	0.16	0.02
delta-BHC		<0.004	mg/Kg	0.16	0.02
Heptachlor		<0.004	mg/Kg	0.16	0.02
Aldrin		<0.004	mg/Kg	0.16	0.02
Heptachlor Epoxide		<0.004	mg/Kg	0.16	0.02
gamma-Chlordane		<0.004	mg/Kg	0.16	0.02
alpha-Chlordane		<0.004	mg/Kg	0.16	0.02
Endosulfan I		<0.004	mg/Kg	0.16	0.02
P,P-DDE		<0.004	mg/Kg	0.16	0.02
Dieldrin		<0.004	mg/Kg	0.16	0.02
Endrin		<0.004	mg/Kg	0.16	0.02
P,P-DDD		<0.004	mg/Kg	0.16	0.02
Endosulfan II		<0.004	mg/Kg	0.16	0.02
p,p-DDT		<0.004	mg/Kg	0.16	0.02
Endrin aldehyde		<0.004	mg/Kg	0.16	0.02
Endosulfan sulfate		<0.004	mg/Kg	0.16	0.02
Methoxychlor		<0.004	mg/Kg	0.16	0.02
Endrin Ketone		<0.004	mg/Kg	0.16	0.02
Toxaphene		<0.050	mg/Kg	0.16	0.31
Technical Chlordane		<0.050	mg/Kg	0.16	0.31

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2,4,5,6-Tetrachloro-m-xylene		0.0135	mg/Kg	0.16	0.01	84	-
deca chlorobiphenyl		0.0116	mg/Kg	0.16	0.01	72	-

Sample: 216774 - 1218020915

Analysis: Reactivity Analytical Method: ASTM D 5049-90/4978-95 QC Batch: QC25829 Date Analyzed: 12/26/02
Analyst: JH Preparation Method: N/A Prep Batch: PB23934 Date Prepared: 12/26/02

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		1	
Hydrogen Sulfide		<10	mg/Kg	1	
Hydrogen Cyanide		<2.5	mg/Kg	1	

Sample: 216774 - 1218020915

Analysis: Semivolatiles Analytical Method: S 8270C QC Batch: QC25987 Date Analyzed: 1/4/03
Analyst: RC Preparation Method: E 3510C Prep Batch: PB24057 Date Prepared: 12/19/02

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.25	mg/Kg	1	0.25
n-Nitrosodimethylamine		<0.25	mg/Kg	1	0.25
2-Picoline		<0.25	mg/Kg	1	0.25

Continued ...

... Continued Sample: 216774 Analysis: Semivolatiles

Param	Flag	Result	Units	Dilution	RDL
Methyl methanesulfonate		<0.25	mg/Kg	1	0.25
Ethyl methanesulfonate		<0.25	mg/Kg	1	0.25
Phenol		<0.25	mg/Kg	1	0.25
Aniline		<0.25	mg/Kg	1	0.25
bis (2-chloroethyl) ether		<0.25	mg/Kg	1	0.25
2-Chlorophenol		<0.25	mg/Kg	1	0.25
1,3-Dichlorobenzene (meta)		<0.25	mg/Kg	1	0.25
1,4-Dichlorobenzene		<0.25	mg/Kg	1	0.25
Benzyl alcohol		<0.25	mg/Kg	1	0.25
1,2-Dichlorobenzene		<0.25	mg/Kg	1	0.25
2-Methylphenol		<0.25	mg/Kg	1	0.25
bis (2-chloroisopropyl) ether		<0.25	mg/Kg	1	0.25
4-Methylphenol/3-Methylphenol		<0.25	mg/Kg	1	0.25
Acetophenone		<0.25	mg/Kg	1	0.25
n-Nitrosodi-n-propylamine		<0.25	mg/Kg	1	0.25
Hexachloroethane		<0.25	mg/Kg	1	0.25
Nitrobenzene		<0.25	mg/Kg	1	0.25
n-Nitrosopiperidine		<0.25	mg/Kg	1	0.25
Isophorone		<0.25	mg/Kg	1	0.25
2-Nitrophenol		<0.25	mg/Kg	1	0.25
2,4-Dimethylphenol		<0.25	mg/Kg	1	0.25
bis (2-chloroethoxy) methane		<0.25	mg/Kg	1	0.25
Benzoic acid		<0.25	mg/Kg	1	0.25
2,4-Dichlorophenol		<0.25	mg/Kg	1	0.25
1,2,4-Trichlorobenzene		<0.25	mg/Kg	1	0.25
a,a-Dimethylphenethylamine		<0.25	mg/Kg	1	0.25
Naphthalene		36.6	mg/Kg	1	0.25
4-Chloroaniline		<0.25	mg/Kg	1	0.25
2,6-Dichlorophenol		<0.25	mg/Kg	1	0.25
Hexachlorobutadiene		<0.25	mg/Kg	1	0.25
n-Nitroso-di-n-butylamine		<0.25	mg/Kg	1	0.25
4-Chloro-3-methylphenol		<0.25	mg/Kg	1	0.25
1-Methylnaphthalene		92.6	mg/Kg	1	0.25
2-Methylnaphthalene		53.9	mg/Kg	1	0.25
1,2,4,5-Tetrachlorobenzene		<0.25	mg/Kg	1	0.25
Hexachlorocyclopentadiene		<0.25	mg/Kg	1	0.25
2,4,6-Trichlorophenol		<0.25	mg/Kg	1	0.25
2,4,5-Trichlorophenol		<0.25	mg/Kg	1	0.25
2-Chloronaphthalene		<0.25	mg/Kg	1	0.25
1-Chloronaphthalene		<0.25	mg/Kg	1	0.25
2-Nitroaniline		<0.25	mg/Kg	1	0.25
Dimethylphthalate		<0.25	mg/Kg	1	0.25
Acenaphthylene		<0.25	mg/Kg	1	0.25
2,6-Dinitrotoluene		<0.25	mg/Kg	1	0.25
3-Nitroaniline		<0.25	mg/Kg	1	0.25
Acenaphthene		<0.25	mg/Kg	1	0.25
2,4-Dinitrophenol		<0.25	mg/Kg	1	0.25
Dibenzofuran		<0.25	mg/Kg	1	0.25
Pentachlorobenzene		<0.25	mg/Kg	1	0.25
4-Nitrophenol		<0.25	mg/Kg	1	0.25
1-Naphthylamine		<0.25	mg/Kg	1	0.25
2,4-Dinitrotoluene		<0.25	mg/Kg	1	0.25
2-Naphthylamine		<0.25	mg/Kg	1	0.25

Continued ...

... Continued Sample: 216774 Analysis: Semivolatiles

Param	Flag	Result	Units	Dilution	RDL
2,3,4,6-Tetrachlorophenol		<0.25	mg/Kg	1	0.25
Fluorene		<0.25	mg/Kg	1	0.25
Diethylphthalate		<0.25	mg/Kg	1	0.25
4-Chlorophenyl-phenylether		<0.25	mg/Kg	1	0.25
4-Nitroaniline		<0.25	mg/Kg	1	0.25
4,6-Dinitro-2-methylphenol		<0.25	mg/Kg	1	0.25
Diphenylamine		<0.25	mg/Kg	1	0.25
Diphenylhydrazine		<0.25	mg/Kg	1	0.25
4-Bromophenyl-phenylether		<0.25	mg/Kg	1	0.25
Phenacetin		<0.25	mg/Kg	1	0.25
Hexachlorobenzene		<0.25	mg/Kg	1	0.25
4-Aminobiphenyl		<0.25	mg/Kg	1	0.25
Pentachlorophenol		<0.25	mg/Kg	1	0.25
Pentachloronitrobenzene		<0.25	mg/Kg	1	0.25
Pronamide		<0.25	mg/Kg	1	0.25
Phenanthrene		<0.25	mg/Kg	1	0.25
Anthracene		33.3	mg/Kg	1	0.25
Di-n-butylphthalate		<0.25	mg/Kg	1	0.25
Fluoranthene		<0.25	mg/Kg	1	0.25
Benzidine		<0.25	mg/Kg	1	0.25
Pyrene		<0.25	mg/Kg	1	0.25
p-Dimethylaminoazobenzene		<0.25	mg/Kg	1	0.25
Butylbenzylphthalate		<0.25	mg/Kg	1	0.25
Benzo(a)anthracene		<0.25	mg/Kg	1	0.25
3,3-Dichlorobenzidine		<0.25	mg/Kg	1	0.25
Chrysene		6.37	mg/Kg	1	0.25
Bis (2-ethylhexyl) phthalate		<0.25	mg/Kg	1	0.25
Di-n-octylphthalate		<0.25	mg/Kg	1	0.25
Benzo(b)fluoranthene		<0.25	mg/Kg	1	0.25
7,12-Dimethylbenz(a)anthracene		<0.25	mg/Kg	1	0.25
Benzo(k)fluoranthene		<0.25	mg/Kg	1	0.25
Benzo(a)pyrene		<0.25	mg/Kg	1	0.25
3-Methylcholanthrene		<0.25	mg/Kg	1	0.25
Dibenzo(a,j)acridine		<0.25	mg/Kg	1	0.25
Indeno(1,2,3-cd)pyrene		<0.25	mg/Kg	1	0.25
Dibenzo(a,h)anthracene		<0.25	mg/Kg	1	0.25
Benzo(g,h,i)perylene		<0.25	mg/Kg	1	0.25

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol	7	15.28	mg/Kg	1	80	19	25 - 121
Phenol-d5	8	6.86	mg/Kg	1	80	8	24 - 113
Nitrobenzene-d5	9	20.87	mg/Kg	1	80	26	23 - 120
2-Fluorobiphenyl	10	27.22	mg/Kg	1	80	34	30 - 115
2,4,6-Tribromophenol	11	0	mg/Kg	1	80	0	19 - 122
Terphenyl-d14		36.17	mg/Kg	1	80	45	28 - 137

⁷Sample surrogate recovery out of range due to sample matrix.

⁸Sample surrogate recovery out of range due to sample matrix.

⁹Sample surrogate recovery out of range due to sample matrix.

¹⁰Sample surrogate recovery out of range due to sample matrix.

¹¹Sample surrogate recovery out of range due to sample matrix.

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Sample: 216774 - 1218020915

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC25875 Date Analyzed: 12/29/02
Analyst: RR Preparation Method: S 3050B Prep Batch: PB23925 Date Prepared: 12/26/02

Param	Flag	Result	Units	Dilution	RDL
Total Aluminum		4000	mg/Kg	100	0.10
Total Arsenic		5.39	mg/Kg	100	0.05
Total Barium		421	mg/Kg	100	0.10
Total Boron		6.04	mg/Kg	100	0.005
Total Cadmium		<0.500	mg/Kg	100	0.005
Total Calcium		41800	mg/Kg	1	0.50
Total Chromium		23.8	mg/Kg	100	0.01
Total Cobalt		<2.50	mg/Kg	100	0.02
Total Copper		20.8	mg/Kg	100	0.01
Total Iron		6890	mg/Kg	100	0.05
Total Lead		25.8	mg/Kg	100	0.01
Total Magnesium		1000	mg/Kg	1	0.50
Total Manganese		47.6	mg/Kg	100	0.02
Total Molybdenum		<5.00	mg/Kg	100	0.05
Total Nickel		6.91	mg/Kg	100	0.02
Total Potassium		762	mg/Kg	1	0.50
Total Selenium		<1.00	mg/Kg	100	0.01
Total Silica		115	mg/Kg	100	0.05
Total Silver		<0.200	mg/Kg	100	0.002
Total Sodium		447	mg/Kg	1	0.50
Total Zinc		85.8	mg/Kg	100	0.02

Sample: 216774 - 1218020915

Analysis: Volatiles Analytical Method: S 8260B QC Batch: QC25947 Date Analyzed: 12/29/02
Analyst: JG Preparation Method: E 5030B Prep Batch: PB24023 Date Prepared: 12/29/02

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<500	µg/Kg	500	1
Dichlorodifluoromethane		<500	µg/Kg	500	1
Chloromethane (methyl chloride)		<500	µg/Kg	500	1
Vinyl Chloride		<500	µg/Kg	500	1
Bromomethane (methyl bromide)		<2500	µg/Kg	500	5
Chloroethane		<500	µg/Kg	500	1
Trichlorofluoromethane		<500	µg/Kg	500	1
Acetone		<5000	µg/Kg	500	10
Iodomethane (methyl iodide)		<2500	µg/Kg	500	5
Carbon Disulfide		<500	µg/Kg	500	1
Acrylonitrile		<500	µg/Kg	500	1
2-Butanone (MEK)		<2500	µg/Kg	500	5
4-methyl-2-pentanone (MIBK)		<2500	µg/Kg	500	5
2-hexanone		<2500	µg/Kg	500	5
trans 1,4-Dichloro-2-butene		<5000	µg/Kg	500	10
1,1-Dichloroethene		<500	µg/Kg	500	1
Methylene chloride		<2500	µg/Kg	500	5
MTBE		<500	µg/Kg	500	1
trans-1,2-Dichloroethene		<500	µg/Kg	500	1
1,1-Dichloroethane		<500	µg/Kg	500	1
cis-1,2-Dichloroethene		<500	µg/Kg	500	1

Continued ...

... Continued Sample: 216774 Analysis: Volatiles

Param	Flag	Result	Units	Dilution	RDL
2,2-Dichloropropane		<500	µg/Kg	500	1
1,2-Dichloroethane (EDC)		<500	µg/Kg	500	1
Chloroform		<500	µg/Kg	500	1
1,1,1-Trichloroethane		<500	µg/Kg	500	1
1,1-Dichloropropene		<500	µg/Kg	500	1
Benzene		13900	µg/Kg	500	1
Carbon Tetrachloride		<500	µg/Kg	500	1
1,2-Dichloropropane		<500	µg/Kg	500	1
Trichloroethene (TCE)		<500	µg/Kg	500	1
Dibromomethane (methylene bromide)		<500	µg/Kg	500	1
Bromodichloromethane		<500	µg/Kg	500	1
2-Chloroethyl vinyl ether		<2500	µg/Kg	500	5
cis-1,3-Dichloropropene		<500	µg/Kg	500	1
trans-1,3-Dichloropropene		<500	µg/Kg	500	1
Toluene		5890	µg/Kg	500	1
1,1,2-Trichloroethane		<500	µg/Kg	500	1
1,3-Dichloropropane		<500	µg/Kg	500	1
Dibromochloromethane		<500	µg/Kg	500	1
1,2-Dibromoethane (EDB)		<500	µg/Kg	500	1
Tetrachloroethene (PCE)		<500	µg/Kg	500	1
Chlorobenzene		<500	µg/Kg	500	1
1,1,1,2-Tetrachloroethane		<500	µg/Kg	500	1
Ethylbenzene		41700	µg/Kg	500	1
m,p-Xylene		47600	µg/Kg	500	1
Bromoform		<500	µg/Kg	500	1
Styrene		<500	µg/Kg	500	1
o-Xylene		7680	µg/Kg	500	1
1,1,2,2-Tetrachloroethane		<500	µg/Kg	500	1
2-Chlorotoluene		<500	µg/Kg	500	1
1,2,3-Trichloropropane		<500	µg/Kg	500	1
Isopropylbenzene		8690	µg/Kg	500	1
Bromobenzene		<500	µg/Kg	500	1
n-Propylbenzene		12500	µg/Kg	500	1
1,3,5-Trimethylbenzene		10500	µg/Kg	500	1
tert-Butylbenzene		<500	µg/Kg	500	1
1,2,4-Trimethylbenzene		33400	µg/Kg	500	1
1,4-Dichlorobenzene (para)		<500	µg/Kg	500	1
sec-Butylbenzene		4720	µg/Kg	500	1
1,3-Dichlorobenzene (meta)		<500	µg/Kg	500	1
p-Isopropyltoluene		3110	µg/Kg	500	1
4-Chlorotoluene		<500	µg/Kg	500	1
1,2-Dichlorobenzene (ortho)		<500	µg/Kg	500	1
n-Butylbenzene		5310	µg/Kg	500	1
1,2-Dibromo-3-chloropropane		<2500	µg/Kg	500	5
1,2,3-Trichlorobenzene		<2500	µg/Kg	500	5
1,2,4-Trichlorobenzene		<2500	µg/Kg	500	5
Naphthalene		10300	µg/Kg	500	5
Hexachlorobutadiene		<2500	µg/Kg	500	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		41.3	µg/Kg	500	50	82	45 - 105

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Toluene-d8	¹²	53.4	µg/Kg	500	50	106	92 - 106
4-Bromofluorobenzene		55.4	µg/Kg	500	50	110	84 - 115

Sample: 216774 - 1218020915

Analysis: pH Analytical Method: E 150.1 QC Batch: QC25936 Date Analyzed: 12/27/02
Analyst: RS Preparation Method: N/A Prep Batch: PB24015 Date Prepared: 12/27/02

Param	Flag	Result	Units	Dilution	RDL
pH		8.0	s.u.	1	1

Sample: 216775 - 1218020940

Analysis: Alkalinity Analytical Method: E 310.1 QC Batch: QC25954 Date Analyzed: 1/2/03
Analyst: RS Preparation Method: N/A Prep Batch: PB24025 Date Prepared: 1/2/03

Param	Flag	Result	Units	Dilution	RDL
Hydroxide Alkalinity		<1.0	mg/L as CaCo3	1	1
Carbonate Alkalinity		<1.0	mg/L as CaCo3	1	1
Bicarbonate Alkalinity		110	mg/L as CaCo3	1	4
Total Alkalinity		110	mg/L as CaCo3	1	4

Sample: 216775 - 1218020940

Analysis: Conductivity Analytical Method: SM 2510B QC Batch: QC26074 Date Analyzed: 1/8/03
Analyst: JSW Preparation Method: N/A Prep Batch: PB24116 Date Prepared: 1/8/03

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		937	µMHOS/cm	1	

Sample: 216775 - 1218020940

Analysis: Corrosivity Analytical Method: S 1110 QC Batch: QC25828 Date Analyzed: 12/26/02
Analyst: JH Preparation Method: N/A Prep Batch: PB23933 Date Prepared: 12/26/02

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		Non-corrosive	mm/yr	10	
pH		7.5	s.u.	10	

Sample: 216775 - 1218020940

Analysis: Hg, Total Analytical Method: S 7471A QC Batch: QC25879 Date Analyzed: 12/27/02
Analyst: BC Preparation Method: N/A Prep Batch: PB23968 Date Prepared: 12/26/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		0.46	mg/Kg	1	0.25

¹²high surrogate recovery due to matrix effect.

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Sample: 216775 - 1218020940

Analysis: Ignitability Analytical Method: SW-846 Ch. 7.1 QC Batch: QC25826 Date Analyzed: 12/26/02
Analyst: JH Preparation Method: N/A Prep Batch: PB23931 Date Prepared: 12/26/02

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		10	

Sample: 216775 - 1218020940

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC25902 Date Analyzed: 12/30/02
Analyst: RS Preparation Method: N/A Prep Batch: PB23983 Date Prepared: 12/30/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		87.1	mg/Kg	10	1
Fluoride		<1.0	mg/Kg	10	0.20
Nitrate-N		<1.0	mg/Kg	10	0.20
Sulfate		64.9	mg/Kg	10	1

Sample: 216775 - 1218020940

Analysis: PCB Analytical Method: 8082 QC Batch: QC25771 Date Analyzed: 12/23/02
Analyst: AG Preparation Method: 3550 Prep Batch: PB23879 Date Prepared: 12/23/02

Param	Flag	Result	Units	Dilution	RDL
PCB		<0.004	mg/Kg	0.16	0.02

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
deca chlorobiphenyl		0.0061	mg/Kg	0.16	0.01	38	0 - 183

Sample: 216775 - 1218020940

Analysis: Pesticides Analytical Method: E 8081 QC Batch: QC25833 Date Analyzed: 12/26/02
Analyst: AG Preparation Method: 3550 Prep Batch: PB23879 Date Prepared: 12/23/02

Param	Flag	Result	Units	Dilution	RDL
alpha-BHC		<0.004	mg/Kg	0.16	0.02
gamma-BHC (Lindane)		<0.004	mg/Kg	0.16	0.02
beta-BHC		<0.004	mg/Kg	0.16	0.02
delta-BHC		<0.004	mg/Kg	0.16	0.02
Heptachlor		<0.004	mg/Kg	0.16	0.02
Aldrin		<0.004	mg/Kg	0.16	0.02
Heptachlor Epoxide		<0.004	mg/Kg	0.16	0.02
gamma-Chlordane		<0.004	mg/Kg	0.16	0.02
alpha-Chlordane		<0.004	mg/Kg	0.16	0.02
Endosulfan I		<0.004	mg/Kg	0.16	0.02
P,P-DDE		<0.004	mg/Kg	0.16	0.02
Dieldrin		<0.004	mg/Kg	0.16	0.02
Endrin		<0.004	mg/Kg	0.16	0.02
P,P-DDD		<0.004	mg/Kg	0.16	0.02
Endosulfan II		<0.004	mg/Kg	0.16	0.02

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... Continued Sample: 216775 Analysis: Pesticides

Param	Flag	Result	Units	Dilution	RDL
p,p-DDT		<0.004	mg/Kg	0.16	0.02
Endrin aldehyde		<0.004	mg/Kg	0.16	0.02
Endosulfan sulfate		<0.004	mg/Kg	0.16	0.02
Methoxychlor		<0.004	mg/Kg	0.16	0.02
Endrin Ketone		<0.004	mg/Kg	0.16	0.02
Toxaphene		<0.050	mg/Kg	0.16	0.31
Technical Chlordane		<0.050	mg/Kg	0.16	0.31

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2,4,5,6-Tetrachloro-m-xylene		0.014	mg/Kg	0.16	0.01	87	-
deca chlorobiphenyl		0.0105	mg/Kg	0.16	0.01	65	-

Sample: 216775 - 1218020940

Analysis: Reactivity Analytical Method: ASTM D 5049-90/4978-95 QC Batch: QC25829 Date Analyzed: 12/26/02
Analyst: JH Preparation Method: N/A Prep Batch: PB23934 Date Prepared: 12/26/02

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		10	
Hydrogen Sulfide		<10	mg/Kg	10	
Hydrogen Cyanide		<2.5	mg/Kg	10	

Sample: 216775 - 1218020940

Analysis: Semivolatiles Analytical Method: S 8270C QC Batch: QC25987 Date Analyzed: 1/4/03
Analyst: RC Preparation Method: E 3510C Prep Batch: PB24057 Date Prepared: 12/19/02

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<2.50	mg/Kg	10	0.25
n-Nitrosodimethylamine		<2.50	mg/Kg	10	0.25
2-Picoline		<2.50	mg/Kg	10	0.25
Methyl methanesulfonate		<2.50	mg/Kg	10	0.25
Ethyl methanesulfonate		<2.50	mg/Kg	10	0.25
Phenol		<2.50	mg/Kg	10	0.25
Aniline		<2.50	mg/Kg	10	0.25
bis (2-chloroethyl) ether		<2.50	mg/Kg	10	0.25
2-Chlorophenol		<2.50	mg/Kg	10	0.25
1,3-Dichlorobenzene (meta)		<2.50	mg/Kg	10	0.25
1,4-Dichlorobenzene		<2.50	mg/Kg	10	0.25
Benzyl alcohol		<2.50	mg/Kg	10	0.25
1,2-Dichlorobenzene		<2.50	mg/Kg	10	0.25
2-Methylphenol		<2.50	mg/Kg	10	0.25
bis (2-chloroisopropyl) ether		<2.50	mg/Kg	10	0.25
4-Methylphenol/3-Methylphenol		<2.50	mg/Kg	10	0.25
Acetophenone		<2.50	mg/Kg	10	0.25
n-Nitrosodi-n-propylamine		<2.50	mg/Kg	10	0.25
Hexachloroethane		<2.50	mg/Kg	10	0.25
Nitrobenzene		<2.50	mg/Kg	10	0.25
n-Nitrosopiperidine		<2.50	mg/Kg	10	0.25

Continued ...

... Continued Sample: 216775 Analysis: Semivolatiles

Param	Flag	Result	Units	Dilution	RDL
Isophorone		<2.50	mg/Kg	10	0.25
2-Nitrophenol		<2.50	mg/Kg	10	0.25
2,4-Dimethylphenol		<2.50	mg/Kg	10	0.25
bis (2-chloroethoxy) methane		<2.50	mg/Kg	10	0.25
Benzoic acid		<2.50	mg/Kg	10	0.25
2,4-Dichlorophenol		<2.50	mg/Kg	10	0.25
1,2,4-Trichlorobenzene		<2.50	mg/Kg	10	0.25
a,a-Dimethylphenethylamine		<2.50	mg/Kg	10	0.25
Naphthalene		7.00	mg/Kg	10	0.25
4-Chloroaniline		<2.50	mg/Kg	10	0.25
2,6-Dichlorophenol		<2.50	mg/Kg	10	0.25
Hexachlorobutadiene		<2.50	mg/Kg	10	0.25
n-Nitroso-di-n-butylamine		<2.50	mg/Kg	10	0.25
4-Chloro-3-methylphenol		<2.50	mg/Kg	10	0.25
1-Methylnaphthalene		16.3	mg/Kg	10	0.25
2-Methylnaphthalene		17.2	mg/Kg	10	0.25
1,2,4,5-Tetrachlorobenzene		<2.50	mg/Kg	10	0.25
Hexachlorocyclopentadiene		<2.50	mg/Kg	10	0.25
2,4,6-Trichlorophenol		<2.50	mg/Kg	10	0.25
2,4,5-Trichlorophenol		<2.50	mg/Kg	10	0.25
2-Chloronaphthalene		<2.50	mg/Kg	10	0.25
1-Chloronaphthalene		<2.50	mg/Kg	10	0.25
2-Nitroaniline		<2.50	mg/Kg	10	0.25
Dimethylphthalate		<2.50	mg/Kg	10	0.25
Acenaphthylene		<2.50	mg/Kg	10	0.25
2,6-Dinitrotoluene		<2.50	mg/Kg	10	0.25
3-Nitroaniline		<2.50	mg/Kg	10	0.25
Acenaphthene		<2.50	mg/Kg	10	0.25
2,4-Dinitrophenol		<2.50	mg/Kg	10	0.25
Dibenzofuran		<2.50	mg/Kg	10	0.25
Pentachlorobenzene		<2.50	mg/Kg	10	0.25
4-Nitrophenol		<2.50	mg/Kg	10	0.25
1-Naphthylamine		<2.50	mg/Kg	10	0.25
2,4-Dinitrotoluene		<2.50	mg/Kg	10	0.25
2-Naphthylamine		<2.50	mg/Kg	10	0.25
2,3,4,6-Tetrachlorophenol		<2.50	mg/Kg	10	0.25
Fluorene		<2.50	mg/Kg	10	0.25
Diethylphthalate		<2.50	mg/Kg	10	0.25
4-Chlorophenyl-phenylether		<2.50	mg/Kg	10	0.25
4-Nitroaniline		<2.50	mg/Kg	10	0.25
4,6-Dinitro-2-methylphenol		<2.50	mg/Kg	10	0.25
Diphenylamine		<2.50	mg/Kg	10	0.25
Diphenylhydrazine		<2.50	mg/Kg	10	0.25
4-Bromophenyl-phenylether		<2.50	mg/Kg	10	0.25
Phenacetin		<2.50	mg/Kg	10	0.25
Hexachlorobenzene		<2.50	mg/Kg	10	0.25
4-Aminobiphenyl		<2.50	mg/Kg	10	0.25
Pentachlorophenol		<2.50	mg/Kg	10	0.25
Pentachloronitrobenzene		<2.50	mg/Kg	10	0.25
Pronamide		<2.50	mg/Kg	10	0.25
Phenanthrene		<2.50	mg/Kg	10	0.25
Anthracene		9.24	mg/Kg	10	0.25
Di-n-butylphthalate		<2.50	mg/Kg	10	0.25

Continued ...

... Continued Sample: 216775 Analysis: Semivolatiles

Param	Flag	Result	Units	Dilution	RDL
Fluoranthene		<2.50	mg/Kg	10	0.25
Benzidine		<2.50	mg/Kg	10	0.25
Pyrene		<2.50	mg/Kg	10	0.25
p-Dimethylaminoazobenzene		<2.50	mg/Kg	10	0.25
Butylbenzylphthalate		<2.50	mg/Kg	10	0.25
Benzo(a)anthracene		<2.50	mg/Kg	10	0.25
3,3-Dichlorobenzidine		<2.50	mg/Kg	10	0.25
Chrysene		3.09	mg/Kg	10	0.25
Bis (2-ethylhexyl) phthalate		<2.50	mg/Kg	10	0.25
Di-n-octylphthalate		<2.50	mg/Kg	10	0.25
Benzo(b)fluoranthene		<2.50	mg/Kg	10	0.25
7,12-Dimethylbenz(a)anthracene		<2.50	mg/Kg	10	0.25
Benzo(k)fluoranthene		<2.50	mg/Kg	10	0.25
Benzo(a)pyrene		<2.50	mg/Kg	10	0.25
3-Methylcholanthrene		<2.50	mg/Kg	10	0.25
Dibenzo(a,j)acridine		<2.50	mg/Kg	10	0.25
Indeno(1,2,3-cd)pyrene		<2.50	mg/Kg	10	0.25
Dibenzo(a,h)anthracene		<2.50	mg/Kg	10	0.25
Benzo(g,h,i)perylene		<2.50	mg/Kg	10	0.25

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol	13	14.19	mg/Kg	10	80	17	25 - 121
Phenol-d5	14	2.5	mg/Kg	10	80	3	24 - 113
Nitrobenzene-d5	15	19.52	mg/Kg	10	80	24	23 - 120
2-Fluorobiphenyl	16	10.71	mg/Kg	10	80	13	30 - 115
2,4,6-Tribromophenol	17	0	mg/Kg	10	80	0	19 - 122
Terphenyl-d14	18	18.31	mg/Kg	10	80	22	28 - 137

Sample: 216775 - 1218020940

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC25875 Date Analyzed: 12/29/02
Analyst: RR Preparation Method: S 3050B Prep Batch: PB23925 Date Prepared: 12/26/02

Param	Flag	Result	Units	Dilution	RDL
Total Aluminum		850	mg/Kg	10	0.10
Total Arsenic		5.5	mg/Kg	10	0.05
Total Barium		190	mg/Kg	10	0.10
Total Boron		126	mg/Kg	10	0.005
Total Cadmium		<0.500	mg/Kg	10	0.005
Total Calcium		2920	mg/Kg	10	0.50
Total Chromium		9.03	mg/Kg	10	0.01
Total Cobalt		<2.50	mg/Kg	10	0.02
Total Copper		12.5	mg/Kg	10	0.01
Total Iron		10900	mg/Kg	10	0.05

Continued ...

¹³Sample surrogate recovery out of range due to sample matrix.

¹⁴Sample surrogate recovery out of range due to sample matrix.

¹⁵Sample surrogate recovery out of range due to sample matrix.

¹⁶Sample surrogate recovery out of range due to sample matrix.

¹⁷Sample surrogate recovery out of range due to sample matrix.

¹⁸Sample surrogate recovery out of range due to sample matrix.

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... Continued Sample: 216775 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Lead		24.9	mg/Kg	10	0.01
Total Magnesium		233	mg/Kg	10	0.50
Total Manganese		95.2	mg/Kg	10	0.02
Total Molybdenum		<5.00	mg/Kg	10	0.05
Total Nickel		8.81	mg/Kg	10	0.02
Total Potassium		203	mg/Kg	10	0.50
Total Selenium		<1.00	mg/Kg	10	0.01
Total Silica		78.7	mg/Kg	10	0.05
Total Silver		<0.200	mg/Kg	10	0.002
Total Sodium		377	mg/Kg	10	0.50
Total Zinc		92.3	mg/Kg	10	0.02

Sample: 216775 - 1218020940

Analysis: Volatiles Analytical Method: S 8260B QC Batch: QC25947 Date Analyzed: 12/29/02
Analyst: JG Preparation Method: E 5030B Prep Batch: PB24023 Date Prepared: 12/29/02

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<500	µg/Kg	500	1
Dichlorodifluoromethane		<500	µg/Kg	500	1
Chloromethane (methyl chloride)		<500	µg/Kg	500	1
Vinyl Chloride		<500	µg/Kg	500	1
Bromomethane (methyl bromide)		<2500	µg/Kg	500	5
Chloroethane		<500	µg/Kg	500	1
Trichlorofluoromethane		<500	µg/Kg	500	1
Acetone		<5000	µg/Kg	500	10
Iodomethane (methyl iodide)		<2500	µg/Kg	500	5
Carbon Disulfide		<500	µg/Kg	500	1
Acrylonitrile		<500	µg/Kg	500	1
2-Butanone (MEK)		<2500	µg/Kg	500	5
4-methyl-2-pentanone (MIBK)		<2500	µg/Kg	500	5
2-hexanone		<2500	µg/Kg	500	5
trans 1,4-Dichloro-2-butene		<5000	µg/Kg	500	10
1,1-Dichloroethene		<500	µg/Kg	500	1
Methylene chloride		<2500	µg/Kg	500	5
MTBE		<500	µg/Kg	500	1
trans-1,2-Dichloroethene		<500	µg/Kg	500	1
1,1-Dichloroethane		<500	µg/Kg	500	1
cis-1,2-Dichloroethene		<500	µg/Kg	500	1
2,2-Dichloropropane		<500	µg/Kg	500	1
1,2-Dichloroethane (EDC)		<500	µg/Kg	500	1
Chloroform		<500	µg/Kg	500	1
1,1,1-Trichloroethane		<500	µg/Kg	500	1
1,1-Dichloropropene		<500	µg/Kg	500	1
Benzene		2700	µg/Kg	500	1
Carbon Tetrachloride		<500	µg/Kg	500	1
1,2-Dichloropropane		<500	µg/Kg	500	1
Trichloroethene (TCE)		<500	µg/Kg	500	1
Dibromomethane (methylene bromide)		<500	µg/Kg	500	1
Bromodichloromethane		<500	µg/Kg	500	1
2-Chloroethyl vinyl ether		<2500	µg/Kg	500	5
cis-1,3-Dichloropropene		<500	µg/Kg	500	1

Continued ...

... Continued Sample: 216775 Analysis: Volatiles

Param	Flag	Result	Units	Dilution	RDL
trans-1,3-Dichloropropene		<500	µg/Kg	500	1
Toluene		570	µg/Kg	500	1
1,1,2-Trichloroethane		<500	µg/Kg	500	1
1,3-Dichloropropane		<500	µg/Kg	500	1
Dibromochloromethane		<500	µg/Kg	500	1
1,2-Dibromoethane (EDB)		<500	µg/Kg	500	1
Tetrachloroethene (PCE)		<500	µg/Kg	500	1
Chlorobenzene		<500	µg/Kg	500	1
1,1,1,2-Tetrachloroethane		<500	µg/Kg	500	1
Ethylbenzene		15400	µg/Kg	500	1
m,p-Xylene		2420	µg/Kg	500	1
Bromoform		<500	µg/Kg	500	1
Styrene		<500	µg/Kg	500	1
o-Xylene		696	µg/Kg	500	1
1,1,2,2-Tetrachloroethane		<500	µg/Kg	500	1
2-Chlorotoluene		<500	µg/Kg	500	1
1,2,3-Trichloropropane		<500	µg/Kg	500	1
Isopropylbenzene		4500	µg/Kg	500	1
Bromobenzene		<500	µg/Kg	500	1
n-Propylbenzene		5620	µg/Kg	500	1
1,3,5-Trimethylbenzene		630	µg/Kg	500	1
tert-Butylbenzene		<500	µg/Kg	500	1
1,2,4-Trimethylbenzene		5070	µg/Kg	500	1
1,4-Dichlorobenzene (para)		<500	µg/Kg	500	1
sec-Butylbenzene		2810	µg/Kg	500	1
1,3-Dichlorobenzene (meta)		<500	µg/Kg	500	1
p-Isopropyltoluene		799	µg/Kg	500	1
4-Chlorotoluene		<500	µg/Kg	500	1
1,2-Dichlorobenzene (ortho)		<500	µg/Kg	500	1
n-Butylbenzene		2990	µg/Kg	500	1
1,2-Dibromo-3-chloropropane		<2500	µg/Kg	500	5
1,2,3-Trichlorobenzene		<2500	µg/Kg	500	5
1,2,4-Trichlorobenzene		<2500	µg/Kg	500	5
Naphthalene		5130	µg/Kg	500	5
Hexachlorobutadiene		<2500	µg/Kg	500	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		40.8	µg/Kg	500	50	81	45 - 105
Toluene-d8		50.3	µg/Kg	500	50	100	92 - 106
4-Bromofluorobenzene		49.8	µg/Kg	500	50	99	84 - 115

Sample: 216775 - 1218020940

Analysis: pH Analytical Method: E 150.1 QC Batch: QC25936 Date Analyzed: 12/27/02
Analyst: RS Preparation Method: N/A Prep Batch: PB24015 Date Prepared: 12/27/02

Param	Flag	Result	Units	Dilution	RDL
pH		7.6	s.u.	1	1

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Sample: 216776 - 1218021000

Analysis: Alkalinity Analytical Method: E 310.1 QC Batch: QC25954 Date Analyzed: 1/2/03
Analyst: RS Preparation Method: N/A Prep Batch: PB24025 Date Prepared: 1/2/03

Param	Flag	Result	Units	Dilution	RDL
Hydroxide Alkalinity		<1.0	mg/L as CaCo3	1	1
Carbonate Alkalinity		<1.0	mg/L as CaCo3	1	1
Bicarbonate Alkalinity		83.3	mg/L as CaCo3	1	4
Total Alkalinity		83.3	mg/L as CaCo3	1	4

Sample: 216776 - 1218021000

Analysis: Conductivity Analytical Method: SM 2510B QC Batch: QC26074 Date Analyzed: 1/8/03
Analyst: JSW Preparation Method: N/A Prep Batch: PB24116 Date Prepared: 1/8/03

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		3890	μMHOS/cm	1	

Sample: 216776 - 1218021000

Analysis: Corrosivity Analytical Method: S 1110 QC Batch: QC25828 Date Analyzed: 12/26/02
Analyst: JH Preparation Method: N/A Prep Batch: PB23933 Date Prepared: 12/26/02

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		Non-corrosive	mm/yr	10	
pH		7.5	s.u.	10	

Sample: 216776 - 1218021000

Analysis: Hg, Total Analytical Method: S 7471A QC Batch: QC25879 Date Analyzed: 12/27/02
Analyst: BC Preparation Method: N/A Prep Batch: PB23968 Date Prepared: 12/26/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		3.86	mg/Kg	1	0.25

Sample: 216776 - 1218021000

Analysis: Ignitability Analytical Method: SW-846 Ch. 7.1 QC Batch: QC25826 Date Analyzed: 12/26/02
Analyst: JH Preparation Method: N/A Prep Batch: PB23931 Date Prepared: 12/26/02

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		10	

Sample: 216776 - 1218021000

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC25902 Date Analyzed: 12/30/02
Analyst: RS Preparation Method: N/A Prep Batch: PB23983 Date Prepared: 12/30/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		814	mg/Kg	10	1

Continued ...

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... Continued Sample: 216776 Analysis: Ion Chromatography (IC)

Param	Flag	Result	Units	Dilution	RDL
Fluoride		<1.0	mg/Kg	10	0.20
Nitrate-N		<1.0	mg/Kg	10	0.20
Sulfate		15.1	mg/Kg	10	1

Sample: 216776 - 1218021000

Analysis: PCB Analytical Method: 8082 QC Batch: QC25771 Date Analyzed: 12/23/02
Analyst: AG Preparation Method: 3550 Prep Batch: PB23879 Date Prepared: 12/23/02

Param	Flag	Result	Units	Dilution	RDL
PCB		<0.004	mg/Kg	0.16	0.02

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
deca chlorobiphenyl		0.0116	mg/Kg	0.16	0.01	72	0 - 183

Sample: 216776 - 1218021000

Analysis: Pesticides Analytical Method: E 8081 QC Batch: QC25833 Date Analyzed: 12/26/02
Analyst: AG Preparation Method: 3550 Prep Batch: PB23879 Date Prepared: 12/23/02

Param	Flag	Result	Units	Dilution	RDL
alpha-BHC		<0.004	mg/Kg	0.16	0.02
gamma-BHC (Lindane)		<0.004	mg/Kg	0.16	0.02
beta-BHC		<0.004	mg/Kg	0.16	0.02
delta-BHC		<0.004	mg/Kg	0.16	0.02
Heptachlor		<0.004	mg/Kg	0.16	0.02
Aldrin		<0.004	mg/Kg	0.16	0.02
Heptachlor Epoxide		<0.004	mg/Kg	0.16	0.02
gamma-Chlordane		<0.004	mg/Kg	0.16	0.02
alpha-Chlordane		<0.004	mg/Kg	0.16	0.02
Endosulfan I		<0.004	mg/Kg	0.16	0.02
P,P-DDE		<0.004	mg/Kg	0.16	0.02
Dieldrin		<0.004	mg/Kg	0.16	0.02
Endrin		<0.004	mg/Kg	0.16	0.02
P,P-DDD		<0.004	mg/Kg	0.16	0.02
Endosulfan II		<0.004	mg/Kg	0.16	0.02
p,p-DDT		<0.004	mg/Kg	0.16	0.02
Endrin aldehyde		<0.004	mg/Kg	0.16	0.02
Endosulfan sulfate		<0.004	mg/Kg	0.16	0.02
Methoxychlor		<0.004	mg/Kg	0.16	0.02
Endrin Ketone		<0.004	mg/Kg	0.16	0.02
Toxaphene		<0.050	mg/Kg	0.16	0.31
Technical Chlordane		<0.050	mg/Kg	0.16	0.31

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2,4,5,6-Tetrachloro-m-xylene		0.0102	mg/Kg	0.16	0.01	63	-
deca chlorobiphenyl		0.0135	mg/Kg	0.16	0.01	84	-

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Sample: 216776 - 1218021000

Analysis: Reactivity Analytical Method: ASTM D 5049-90/4978-95 QC Batch: QC25829 Date Analyzed: 12/26/02
Analyst: JH Preparation Method: N/A Prep Batch: PB23934 Date Prepared: 12/26/02

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		10	
Hydrogen Sulfide		<10	mg/Kg	10	
Hydrogen Cyanide		<2.5	mg/Kg	10	

Sample: 216776 - 1218021000

Analysis: Semivolatiles Analytical Method: S 8270C QC Batch: QC25987 Date Analyzed: 1/4/03
Analyst: RC Preparation Method: E 3510C Prep Batch: PB24057 Date Prepared: 12/19/02

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<2.50	mg/Kg	10	0.25
n-Nitrosodimethylamine		<2.50	mg/Kg	10	0.25
2-Picoline		<2.50	mg/Kg	10	0.25
Methyl methanesulfonate		<2.50	mg/Kg	10	0.25
Ethyl methanesulfonate		<2.50	mg/Kg	10	0.25
Phenol		<2.50	mg/Kg	10	0.25
Aniline		<2.50	mg/Kg	10	0.25
bis (2-chloroethyl) ether		<2.50	mg/Kg	10	0.25
2-Chlorophenol		<2.50	mg/Kg	10	0.25
1,3-Dichlorobenzene (meta)		<2.50	mg/Kg	10	0.25
1,4-Dichlorobenzene		<2.50	mg/Kg	10	0.25
Benzyl alcohol		<2.50	mg/Kg	10	0.25
1,2-Dichlorobenzene		<2.50	mg/Kg	10	0.25
2-Methylphenol		<2.50	mg/Kg	10	0.25
bis (2-chloroisopropyl) ether		<2.50	mg/Kg	10	0.25
4-Methylphenol/3-Methylphenol		<2.50	mg/Kg	10	0.25
Acetophenone		<2.50	mg/Kg	10	0.25
n-Nitrosodi-n-propylamine		<2.50	mg/Kg	10	0.25
Hexachloroethane		<2.50	mg/Kg	10	0.25
Nitrobenzene		<2.50	mg/Kg	10	0.25
n-Nitrosopiperidine		<2.50	mg/Kg	10	0.25
Isophorone		<2.50	mg/Kg	10	0.25
2-Nitrophenol		<2.50	mg/Kg	10	0.25
2,4-Dimethylphenol		<2.50	mg/Kg	10	0.25
bis (2-chloroethoxy) methane		<2.50	mg/Kg	10	0.25
Benzoic acid		<2.50	mg/Kg	10	0.25
2,4-Dichlorophenol		<2.50	mg/Kg	10	0.25
1,2,4-Trichlorobenzene		<2.50	mg/Kg	10	0.25
a,a-Dimethylphenethylamine		<2.50	mg/Kg	10	0.25
Naphthalene		25.7	mg/Kg	10	0.25
4-Chloroaniline		<2.50	mg/Kg	10	0.25
2,6-Dichlorophenol		<2.50	mg/Kg	10	0.25
Hexachlorobutadiene		<2.50	mg/Kg	10	0.25
n-Nitroso-di-n-butylamine		<2.50	mg/Kg	10	0.25
4-Chloro-3-methylphenol		<2.50	mg/Kg	10	0.25
1-Methylnaphthalene		63.9	mg/Kg	10	0.25
2-Methylnaphthalene		61.2	mg/Kg	10	0.25
1,2,4,5-Tetrachlorobenzene		<2.50	mg/Kg	10	0.25
Hexachlorocyclopentadiene		<2.50	mg/Kg	10	0.25

Continued ...

... Continued Sample: 216776 Analysis: Semivolatiles

Param	Flag	Result	Units	Dilution	RDL
2,4,6-Trichlorophenol		<2.50	mg/Kg	10	0.25
2,4,5-Trichlorophenol		<2.50	mg/Kg	10	0.25
2-Chloronaphthalene		<2.50	mg/Kg	10	0.25
1-Chloronaphthalene		<2.50	mg/Kg	10	0.25
2-Nitroaniline		<2.50	mg/Kg	10	0.25
Dimethylphthalate		<2.50	mg/Kg	10	0.25
Acenaphthylene		<2.50	mg/Kg	10	0.25
2,6-Dinitrotoluene		<2.50	mg/Kg	10	0.25
3-Nitroaniline		<2.50	mg/Kg	10	0.25
Acenaphthene		<2.50	mg/Kg	10	0.25
2,4-Dinitrophenol		<2.50	mg/Kg	10	0.25
Dibenzofuran		<2.50	mg/Kg	10	0.25
Pentachlorobenzene		<2.50	mg/Kg	10	0.25
4-Nitrophenol		<2.50	mg/Kg	10	0.25
1-Naphthylamine		<2.50	mg/Kg	10	0.25
2,4-Dinitrotoluene		<2.50	mg/Kg	10	0.25
2-Naphthylamine		<2.50	mg/Kg	10	0.25
2,3,4,6-Tetrachlorophenol		<2.50	mg/Kg	10	0.25
Fluorene		<2.50	mg/Kg	10	0.25
Diethylphthalate		<2.50	mg/Kg	10	0.25
4-Chlorophenyl-phenylether		<2.50	mg/Kg	10	0.25
4-Nitroaniline		<2.50	mg/Kg	10	0.25
4,6-Dinitro-2-methylphenol		<2.50	mg/Kg	10	0.25
Diphenylamine		<2.50	mg/Kg	10	0.25
Diphenylhydrazine		<2.50	mg/Kg	10	0.25
4-Bromophenyl-phenylether		<2.50	mg/Kg	10	0.25
Phenacetin		<2.50	mg/Kg	10	0.25
Hexachlorobenzene		<2.50	mg/Kg	10	0.25
4-Aminobiphenyl		<2.50	mg/Kg	10	0.25
Pentachlorophenol		<2.50	mg/Kg	10	0.25
Pentachloronitrobenzene		<2.50	mg/Kg	10	0.25
Pronamide		<2.50	mg/Kg	10	0.25
Phenanthrene		<2.50	mg/Kg	10	0.25
Anthracene		16.1	mg/Kg	10	0.25
Di-n-butylphthalate		<2.50	mg/Kg	10	0.25
Fluoranthene		<2.50	mg/Kg	10	0.25
Benzidine		<2.50	mg/Kg	10	0.25
Pyrene		<2.50	mg/Kg	10	0.25
p-Dimethylaminoazobenzene		<2.50	mg/Kg	10	0.25
Butylbenzylphthalate		<2.50	mg/Kg	10	0.25
Benzo(a)anthracene		<2.50	mg/Kg	10	0.25
3,3-Dichlorobenzidine		<2.50	mg/Kg	10	0.25
Chrysene		3.66	mg/Kg	10	0.25
Bis (2-ethylhexyl) phthalate		<2.50	mg/Kg	10	0.25
Di-n-octylphthalate		<2.50	mg/Kg	10	0.25
Benzo(b)fluoranthene		<2.50	mg/Kg	10	0.25
7,12-Dimethylbenz(a)anthracene		<2.50	mg/Kg	10	0.25
Benzo(k)fluoranthene		<2.50	mg/Kg	10	0.25
Benzo(a)pyrene		<2.50	mg/Kg	10	0.25
3-Methylcholanthrene		<2.50	mg/Kg	10	0.25
Dibenzo(a,j)acridine		<2.50	mg/Kg	10	0.25
Indeno(1,2,3-cd)pyrene		<2.50	mg/Kg	10	0.25
Dibenzo(a,h)anthracene		<2.50	mg/Kg	10	0.25

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... Continued Sample: 216776 Analysis: Semivolatiles

Param	Flag	Result	Units	Dilution	RDL
Benzo(g,h,i)perylene		<2.50	mg/Kg	10	0.25
Test Comments		<2.50	mg/Kg	10	

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol	19	13.83	mg/Kg	10	80	17	25 - 121
Phenol-d5		35.8	mg/Kg	10	80	44	24 - 113
Nitrobenzene-d5		42.21	mg/Kg	10	80	52	23 - 120
2-Fluorobiphenyl	20	15	mg/Kg	10	80	18	30 - 115
2,4,6-Tribromophenol	21	0	mg/Kg	10	80	0	19 - 122
Terphenyl-d14	22	24.28	mg/Kg	10	80	30	28 - 137

Sample: 216776 - 1218021000

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC25875 Date Analyzed: 12/29/02
Analyst: RR Preparation Method: S 3050B Prep Batch: PB23925 Date Prepared: 12/26/02

Param	Flag	Result	Units	Dilution	RDL
Total Aluminum		550	mg/Kg	10	0.10
Total Arsenic		25.1	mg/Kg	10	0.05
Total Barium		1170	mg/Kg	10	0.10
Total Boron		4.53	mg/Kg	10	0.005
Total Cadmium		1.44	mg/Kg	10	0.005
Total Calcium		7940	mg/Kg	10	0.50
Total Chromium		19	mg/Kg	10	0.01
Total Cobalt		3.01	mg/Kg	10	0.02
Total Copper		58.8	mg/Kg	10	0.01
Total Iron		21500	mg/Kg	10	0.05
Total Lead		122	mg/Kg	10	0.01
Total Magnesium		861	mg/Kg	10	0.50
Total Manganese		95.2	mg/Kg	10	0.02
Total Molybdenum		<5.00	mg/Kg	10	0.05
Total Nickel		19	mg/Kg	10	0.02
Total Potassium		246	mg/Kg	10	0.50
Total Selenium		<1.00	mg/Kg	10	0.01
Total Silica		78.7	mg/Kg	10	0.05
Total Silver		<0.200	mg/Kg	10	0.002
Total Sodium		1620	mg/Kg	10	0.50
Total Zinc		430	mg/Kg	10	0.02

Sample: 216776 - 1218021000

Analysis: Volatiles Analytical Method: S 8260B QC Batch: QC25943 Date Analyzed: 12/30/02
Analyst: JG Preparation Method: E 5030B Prep Batch: PB24020 Date Prepared: 12/30/02

¹⁹Sample surrogate recovery out of range due to sample matrix.

²⁰Sample surrogate recovery out of range due to sample matrix.

²¹Sample surrogate recovery out of range due to sample matrix.

²²Sample surrogate recovery out of range due to sample matrix.

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1000	µg/Kg	1000	1
Dichlorodifluoromethane		<1000	µg/Kg	1000	1
Chloromethane (methyl chloride)		<1000	µg/Kg	1000	1
Vinyl Chloride		<1000	µg/Kg	1000	1
Bromomethane (methyl bromide)		<5000	µg/Kg	1000	5
Chloroethane		<1000	µg/Kg	1000	1
Trichlorofluoromethane		<1000	µg/Kg	1000	1
Acetone		<10000	µg/Kg	1000	10
Iodomethane (methyl iodide)		<5000	µg/Kg	1000	5
Carbon Disulfide		<1000	µg/Kg	1000	1
Acrylonitrile		<1000	µg/Kg	1000	1
2-Butanone (MEK)		<5000	µg/Kg	1000	5
4-methyl-2-pentanone (MIBK)		<5000	µg/Kg	1000	5
2-hexanone		<5000	µg/Kg	1000	5
trans 1,4-Dichloro-2-butene		<10000	µg/Kg	1000	10
1,1-Dichloroethene		<1000	µg/Kg	1000	1
Methylene chloride		<5000	µg/Kg	1000	5
MTBE		<1000	µg/Kg	1000	1
trans-1,2-Dichloroethene		<1000	µg/Kg	1000	1
1,1-Dichloroethane		<1000	µg/Kg	1000	1
cis-1,2-Dichloroethene		<1000	µg/Kg	1000	1
2,2-Dichloropropane		<1000	µg/Kg	1000	1
1,2-Dichloroethane (EDC)		<1000	µg/Kg	1000	1
Chloroform		<1000	µg/Kg	1000	1
1,1,1-Trichloroethane		<1000	µg/Kg	1000	1
1,1-Dichloropropene		<1000	µg/Kg	1000	1
Benzene		54700	µg/Kg	1000	1
Carbon Tetrachloride		<1000	µg/Kg	1000	1
1,2-Dichloropropane		<1000	µg/Kg	1000	1
Trichloroethene (TCE)		<1000	µg/Kg	1000	1
Dibromomethane (methylene bromide)		<1000	µg/Kg	1000	1
Bromodichloromethane		<1000	µg/Kg	1000	1
2-Chloroethyl vinyl ether		<5000	µg/Kg	1000	5
cis-1,3-Dichloropropene		<1000	µg/Kg	1000	1
trans-1,3-Dichloropropene		<1000	µg/Kg	1000	1
Toluene		110000	µg/Kg	1000	1
1,1,2-Trichloroethane		<1000	µg/Kg	1000	1
1,3-Dichloropropane		<1000	µg/Kg	1000	1
Dibromochloromethane		<1000	µg/Kg	1000	1
1,2-Dibromoethane (EDB)		<1000	µg/Kg	1000	1
Tetrachloroethene (PCE)		<1000	µg/Kg	1000	1
Chlorobenzene		<1000	µg/Kg	1000	1
1,1,1,2-Tetrachloroethane		<1000	µg/Kg	1000	1
Ethylbenzene		82900	µg/Kg	1000	1
m,p-Xylene		119000	µg/Kg	1000	1
Bromoform		<1000	µg/Kg	1000	1
Styrene		<1000	µg/Kg	1000	1
o-Xylene		43300	µg/Kg	1000	1
1,1,2,2-Tetrachloroethane		<1000	µg/Kg	1000	1
2-Chlorotoluene		<1000	µg/Kg	1000	1
1,2,3-Trichloropropane		<1000	µg/Kg	1000	1
Isopropylbenzene		17300	µg/Kg	1000	1
Bromobenzene		<1000	µg/Kg	1000	1

Continued ...

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... Continued Sample: 216776 Analysis: Volatiles

Param	Flag	Result	Units	Dilution	RDL
n-Propylbenzene		22800	µg/Kg	1000	1
1,3,5-Trimethylbenzene		23500	µg/Kg	1000	1
tert-Butylbenzene		<1000	µg/Kg	1000	1
1,2,4-Trimethylbenzene		66200	µg/Kg	1000	1
1,4-Dichlorobenzene (para)		<1000	µg/Kg	1000	1
sec-Butylbenzene		8620	µg/Kg	1000	1
1,3-Dichlorobenzene (meta)		<1000	µg/Kg	1000	1
p-Isopropyltoluene		5750	µg/Kg	1000	1
4-Chlorotoluene		<1000	µg/Kg	1000	1
1,2-Dichlorobenzene (ortho)		<1000	µg/Kg	1000	1
n-Butylbenzene		9060	µg/Kg	1000	1
1,2-Dibromo-3-chloropropane		<5000	µg/Kg	1000	5
1,2,3-Trichlorobenzene		<5000	µg/Kg	1000	5
1,2,4-Trichlorobenzene		<5000	µg/Kg	1000	5
Naphthalene		43800	µg/Kg	1000	5
Hexachlorobutadiene		<5000	µg/Kg	1000	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		39.0	µg/Kg	1000	50	78	45 - 105
Toluene-d8		50.2	µg/Kg	1000	50	100	92 - 106
4-Bromofluorobenzene		47.1	µg/Kg	1000	50	94	84 - 115

Sample: 216776 - 1218021000

Analysis: pH Analytical Method: E 150.1 QC Batch: QC25936 Date Analyzed: 12/27/02
Analyst: RS Preparation Method: N/A Prep Batch: PB24015 Date Prepared: 12/27/02

Param	Flag	Result	Units	Dilution	RDL
pH		6.9	s.u.	1	1

Quality Control Report Method Blank

Method Blank QCBatch: QC25771

Param	Flag	Results	Units	Reporting Limit
PCB		<0.004	mg/Kg	0.02

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
deca chlorobiphenyl		0.0134	mg/Kg	1	0.01	83	0 - 183

Method Blank QCBatch: QC25833

Param	Flag	Results	Units	Reporting Limit
alpha-BHC		<0.004	mg/Kg	0.02
gamma-BHC (Lindane)		<0.004	mg/Kg	0.02
beta-BHC		<0.004	mg/Kg	0.02
delta-BHC		<0.004	mg/Kg	0.02
Heptachlor		<0.004	mg/Kg	0.02
Aldrin		<0.004	mg/Kg	0.02
Heptachlor Epoxide		<0.004	mg/Kg	0.02
gamma-Chlordane		<0.004	mg/Kg	0.02
alpha-Chlordane		<0.004	mg/Kg	0.02
Endosulfan I		<0.004	mg/Kg	0.02
P,P-DDE		<0.004	mg/Kg	0.02
Dieldrin		<0.004	mg/Kg	0.02
Endrin		<0.004	mg/Kg	0.02
P,P-DDD		<0.004	mg/Kg	0.02
Endosulfan II		<0.004	mg/Kg	0.02
p,p-DDT		<0.004	mg/Kg	0.02
Endrin aldehyde		<0.004	mg/Kg	0.02
Endosulfan sulfate		<0.004	mg/Kg	0.02
Methoxychlor		<0.004	mg/Kg	0.02
Endrin Ketone		<0.004	mg/Kg	0.02
Toxaphene		<0.050	mg/Kg	0.31
Technical Chlordane		<0.050	mg/Kg	0.31

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2,4,5,6-Tetrachloro-m-xylene		0.0042	mg/Kg	1	0.01	26	-
deca chlorobiphenyl		0.0147	mg/Kg	1	0.01	91	-

Method Blank QCBatch: QC25875

Param	Flag	Results	Units	Reporting Limit
Total Aluminum		<10.0	mg/Kg	0.10
Total Arsenic		<5.00	mg/Kg	0.05
Total Barium		<10.0	mg/Kg	0.10
Total Boron		<0.500	mg/Kg	0.005
Total Cadmium		<0.500	mg/Kg	0.005
Total Calcium		85.4	mg/Kg	0.50
Total Chromium		<1.00	mg/Kg	0.01
Total Cobalt		<2.50	mg/Kg	0.02
Total Copper		<1.25	mg/Kg	0.01
Total Iron		<5.00	mg/Kg	0.05
Total Lead		<1.00	mg/Kg	0.01
Total Magnesium		<50	mg/Kg	0.50
Total Manganese		<2.50	mg/Kg	0.02
Total Molybdenum		<5.00	mg/Kg	0.05
Total Nickel		<2.50	mg/Kg	0.02
Total Potassium		<50	mg/Kg	0.50
Total Selenium		<1.00	mg/Kg	0.01
Total Silica		<5.00	mg/Kg	0.05
Total Silver		<0.200	mg/Kg	0.002
Total Sodium		94.8	mg/Kg	0.50
Total Zinc		<2.50	mg/Kg	0.02

Method Blank

QCBatch: QC25902

Param	Flag	Results	Units	Reporting Limit
Chloride		<1.0	mg/Kg	1
Fluoride		<0.2	mg/Kg	0.20
Nitrate-N		<0.2	mg/Kg	0.20
Sulfate		<1.0	mg/Kg	1

Method Blank

QCBatch: QC25943

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<10.0	µg/Kg	1
Dichlorodifluoromethane		<10.0	µg/Kg	1
Chloromethane (methyl chloride)		<10.0	µg/Kg	1
Vinyl Chloride		<10.0	µg/Kg	1
Bromomethane (methyl bromide)		<50.0	µg/Kg	5
Chloroethane		<10.0	µg/Kg	1
Trichlorofluoromethane		<10.0	µg/Kg	1
Acetone		<100	µg/Kg	10
Iodomethane (methyl iodide)		<50.0	µg/Kg	5
Carbon Disulfide		<10.0	µg/Kg	1
Acrylonitrile		<10.0	µg/Kg	1
2-Butanone (MEK)		<50.0	µg/Kg	5
4-methyl-2-pentanone (MIBK)		<50.0	µg/Kg	5
2-hexanone		<50.0	µg/Kg	5

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Param	Flag	Results	Units	Reporting Limit
trans 1,4-Dichloro-2-butene		<100	µg/Kg	10
1,1-Dichloroethene		<10.0	µg/Kg	1
Methylene chloride		<50.0	µg/Kg	5
MTBE		26.2	µg/Kg	1
trans-1,2-Dichloroethene		<10.0	µg/Kg	1
1,1-Dichloroethane		<10.0	µg/Kg	1
cis-1,2-Dichloroethene		<10.0	µg/Kg	1
2,2-Dichloropropane		<10.0	µg/Kg	1
1,2-Dichloroethane (EDC)		<10.0	µg/Kg	1
Chloroform		<10.0	µg/Kg	1
1,1,1-Trichloroethane		<10.0	µg/Kg	1
1,1-Dichloropropene		<10.0	µg/Kg	1
Benzene		<10.0	µg/Kg	1
Carbon Tetrachloride		<10.0	µg/Kg	1
1,2-Dichloropropane		<10.0	µg/Kg	1
Trichloroethene (TCE)		<10.0	µg/Kg	1
Dibromomethane (methylene bromide)		<10.0	µg/Kg	1
Bromodichloromethane		<10.0	µg/Kg	1
2-Chloroethyl vinyl ether		<50.0	µg/Kg	5
cis-1,3-Dichloropropene		<10.0	µg/Kg	1
trans-1,3-Dichloropropene		<10.0	µg/Kg	1
Toluene		<10.0	µg/Kg	1
1,1,2-Trichloroethane		<10.0	µg/Kg	1
1,3-Dichloropropane		<10.0	µg/Kg	1
Dibromochloromethane		<10.0	µg/Kg	1
1,2-Dibromoethane (EDB)		<10.0	µg/Kg	1
Tetrachloroethene (PCE)		<10.0	µg/Kg	1
Chlorobenzene		<10.0	µg/Kg	1
1,1,1,2-Tetrachloroethane		<10.0	µg/Kg	1
Ethylbenzene		<10.0	µg/Kg	1
m,p-Xylene		<10.0	µg/Kg	1
Bromoform		<10.0	µg/Kg	1
Styrene		<10.0	µg/Kg	1
o-Xylene		<10.0	µg/Kg	1
1,1,2,2-Tetrachloroethane		<10.0	µg/Kg	1
2-Chlorotoluene		<10.0	µg/Kg	1
1,2,3-Trichloropropane		<10.0	µg/Kg	1
Isopropylbenzene		<10.0	µg/Kg	1
Bromobenzene		<10.0	µg/Kg	1
n-Propylbenzene		<10.0	µg/Kg	1
1,3,5-Trimethylbenzene		<10.0	µg/Kg	1
tert-Butylbenzene		<10.0	µg/Kg	1
1,2,4-Trimethylbenzene		<10.0	µg/Kg	1
1,4-Dichlorobenzene (para)		<10.0	µg/Kg	1
sec-Butylbenzene		<10.0	µg/Kg	1
1,3-Dichlorobenzene (meta)		<10.0	µg/Kg	1
p-Isopropyltoluene		<10.0	µg/Kg	1
4-Chlorotoluene		<10.0	µg/Kg	1
1,2-Dichlorobenzene (ortho)		<10.0	µg/Kg	1
n-Butylbenzene		<10.0	µg/Kg	1
1,2-Dibromo-3-chloropropane		<50.0	µg/Kg	5
1,2,3-Trichlorobenzene		<50.0	µg/Kg	5

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Param	Flag	Results	Units	Reporting Limit
1,2,4-Trichlorobenzene		<50.0	µg/Kg	5
Naphthalene		<50.0	µg/Kg	5
Hexachlorobutadiene		<50.0	µg/Kg	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		28.2	µg/Kg	1	50	56	45 - 105
Toluene-d8		46.6	µg/Kg	1	50	93	92 - 106
4-Bromofluorobenzene		46.2	µg/Kg	1	50	92	84 - 115

Method Blank

QCBatch: QC25947

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<10.0	µg/Kg	1
Dichlorodifluoromethane		<10.0	µg/Kg	1
Chloromethane (methyl chloride)		<10.0	µg/Kg	1
Vinyl Chloride		<10.0	µg/Kg	1
Bromomethane (methyl bromide)		<50.0	µg/Kg	5
Chloroethane		<10.0	µg/Kg	1
Trichlorofluoromethane		<10.0	µg/Kg	1
Acetone		<100	µg/Kg	10
Iodomethane (methyl iodide)		<50.0	µg/Kg	5
Carbon Disulfide		<10.0	µg/Kg	1
Acrylonitrile		<10.0	µg/Kg	1
2-Butanone (MEK)		<50.0	µg/Kg	5
4-methyl-2-pentanone (MIBK)		<50.0	µg/Kg	5
2-hexanone		<50.0	µg/Kg	5
trans 1,4-Dichloro-2-butene		<100	µg/Kg	10
1,1-Dichloroethene		<10.0	µg/Kg	1
Methylene chloride		<50.0	µg/Kg	5
MTBE		32.8	µg/Kg	1
trans-1,2-Dichloroethene		<10.0	µg/Kg	1
1,1-Dichloroethane		<10.0	µg/Kg	1
cis-1,2-Dichloroethene		<10.0	µg/Kg	1
2,2-Dichloropropane		<10.0	µg/Kg	1
1,2-Dichloroethane (EDC)		<10.0	µg/Kg	1
Chloroform		<10.0	µg/Kg	1
1,1,1-Trichloroethane		<10.0	µg/Kg	1
1,1-Dichloropropene		<10.0	µg/Kg	1
Benzene		<10.0	µg/Kg	1
Carbon Tetrachloride		<10.0	µg/Kg	1
1,2-Dichloropropane		<10.0	µg/Kg	1
Trichloroethene (TCE)		<10.0	µg/Kg	1
Dibromomethane (methylene bromide)		<10.0	µg/Kg	1
Bromodichloromethane		<10.0	µg/Kg	1
2-Chloroethyl vinyl ether		<50.0	µg/Kg	5
cis-1,3-Dichloropropene		<10.0	µg/Kg	1
trans-1,3-Dichloropropene		<10.0	µg/Kg	1

Continued ...

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Param	Flag	Results	Units	Reporting Limit
Toluene		<10.0	µg/Kg	1
1,1,2-Trichloroethane		<10.0	µg/Kg	1
1,3-Dichloropropane		<10.0	µg/Kg	1
Dibromochloromethane		<10.0	µg/Kg	1
1,2-Dibromoethane (EDB)		<10.0	µg/Kg	1
Tetrachloroethene (PCE)		<10.0	µg/Kg	1
Chlorobenzene		<10.0	µg/Kg	1
1,1,1,2-Tetrachloroethane		<10.0	µg/Kg	1
Ethylbenzene		<10.0	µg/Kg	1
m,p-Xylene		<10.0	µg/Kg	1
Bromoform		<10.0	µg/Kg	1
Styrene		<10.0	µg/Kg	1
o-Xylene		<10.0	µg/Kg	1
1,1,2,2-Tetrachloroethane		<10.0	µg/Kg	1
2-Chlorotoluene		<10.0	µg/Kg	1
1,2,3-Trichloropropane		<10.0	µg/Kg	1
Isopropylbenzene		<10.0	µg/Kg	1
Bromobenzene		<10.0	µg/Kg	1
n-Propylbenzene		<10.0	µg/Kg	1
1,3,5-Trimethylbenzene		<10.0	µg/Kg	1
tert-Butylbenzene		<10.0	µg/Kg	1
1,2,4-Trimethylbenzene		<10.0	µg/Kg	1
1,4-Dichlorobenzene (para)		<10.0	µg/Kg	1
sec-Butylbenzene		<10.0	µg/Kg	1
1,3-Dichlorobenzene (meta)		<10.0	µg/Kg	1
p-Isopropyltoluene		<10.0	µg/Kg	1
4-Chlorotoluene		<10.0	µg/Kg	1
1,2-Dichlorobenzene (ortho)		<10.0	µg/Kg	1
n-Butylbenzene		<10.0	µg/Kg	1
1,2-Dibromo-3-chloropropane		<50.0	µg/Kg	5
1,2,3-Trichlorobenzene		<50.0	µg/Kg	5
1,2,4-Trichlorobenzene		<50.0	µg/Kg	5
Naphthalene		<50.0	µg/Kg	5
Hexachlorobutadiene		<50.0	µg/Kg	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		45.2	µg/Kg	1	50	90	45 - 105
Toluene-d8		51.5	µg/Kg	1	50	103	92 - 106
4-Bromofluorobenzene		45.1	µg/Kg	1	50	90	84 - 115

Method Blank

QCBatch: QC25954

Param	Flag	Results	Units	Reporting Limit
Hydroxide Alkalinity		<1.0	mg/L as CaCo3	1
Carbonate Alkalinity		<1.0	mg/L as CaCo3	1
Bicarbonate Alkalinity		<4.0	mg/L as CaCo3	4
Total Alkalinity		<4.0	mg/L as CaCo3	4

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Method Blank QCBatch: QC26074

Param	Flag	Results	Units	Reporting Limit
Specific Conductance		7.73	μ MHOS/cm	

Quality Control Report Duplicate Samples

Duplicate QCBatch: QC25826

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Ignitability		non-ignitable	non-ignitable		1	0	20

Duplicate QCBatch: QC25936

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
pH		6.9	6.9	s.u.	1	0	1

Duplicate QCBatch: QC25954

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity		<1.0	<1.0	mg/L as CaCo3	1	0	20
Carbonate Alkalinity		<1.0	<1.0	mg/L as CaCo3	1	0	20
Bicarbonate Alkalinity		105	110	mg/L as CaCo3	1	4	20
Total Alkalinity		105	110	mg/L as CaCo3	1	4	20

Duplicate QCBatch: QC26074

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Specific Conductance		3880	3890	μ MHOS/cm	1	0	4.3

Quality Control Report Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC25771

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Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
PCB	0.0354	0.0412	mg/Kg	1	0.06	<0.004	55	15	55 - 161	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
deca chlorobiphenyl	0.0099	0.0108	mg/Kg	1	0.01	61	67	0 - 183

Laboratory Control Spikes

QCBatch: QC25833

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
alpha-BHC	0.0138	0.0137	mg/Kg	1	0.01	<0.004	86	0	39 - 148	20
gamma-BHC (Lindane)	0.0138	0.0142	mg/Kg	1	0.01	<0.004	86	2	41 - 147	20
beta-BHC	0.0132	0.0120	mg/Kg	1	0.01	<0.004	82	9	44 - 144	20
delta-BHC	0.0150	0.0151	mg/Kg	1	0.01	<0.004	93	0	46 - 161	20
Heptachlor	0.0133	0.0130	mg/Kg	1	0.01	<0.004	83	2	0 - 40	20
Aldrin	0.0129	0.0128	mg/Kg	1	0.01	<0.004	80	0	0 - 35	20
Heptachlor Epoxide	0.0132	0.0129	mg/Kg	1	0.01	<0.004	82	2	0 - 28	20
gamma-Chlordane	0.0127	0.0126	mg/Kg	1	0.01	<0.004	79	0	39 - 146	20
alpha-Chlordane	0.0125	0.0124	mg/Kg	1	0.01	<0.004	78	0	39 - 147	20
Endosulfan I	0.0122	0.0122	mg/Kg	1	0.01	<0.004	76	0	0 - 19	20
P,P-DDE	0.0139	0.0138	mg/Kg	1	0.01	<0.004	86	0	0 - 66	20
Dieldrin	0.0126	0.0126	mg/Kg	1	0.01	<0.004	78	0	0 - 37	20
Endrin	0.0126	0.0126	mg/Kg	1	0.01	<0.004	78	0	1 - 26	20
P,P-DDD	0.0121	0.0119	mg/Kg	1	0.01	<0.004	75	1	0 - 24	20
Endosulfan II	0.0126	0.0123	mg/Kg	1	0.01	<0.004	78	2	0 - 45	20
p,p-DDT	0.0118	0.0122	mg/Kg	1	0.01	<0.004	73	3	0 - 160	20
Endrin aldehyde	0.0124	0.0124	mg/Kg	1	0.01	<0.004	77	0	0 - 30	20
Endosulfan sulfate	0.0107	0.0104	mg/Kg	1	0.01	<0.004	66	2	0 - 239	20
Methoxychlor	0.0137	0.0137	mg/Kg	1	0.01	<0.004	85	0	0 - 46	20
Endrin Ketone	0.0116	0.0120	mg/Kg	1	0.01	<0.004	72	3	0 - 107	20
Toxaphene	0.0989	0.0966	mg/Kg	1	0.12	<0.050	77	2	65 - 118	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
2,4,5,6-Tetrachloro-m-xylene	0.0146	0.0142	mg/Kg	1	0.01	91	88	-
deca chlorobiphenyl	0.0168	0.0133	mg/Kg	1	0.01	105	83	-

Laboratory Control Spikes

QCBatch: QC25875

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Aluminum	102	102	mg/Kg	100	100	<10.0	102	0	80 - 120	20
Total Arsenic	45.9	45.3	mg/Kg	100	50	<5.00	91	1	80 - 120	20
Total Barium	95.3	93.6	mg/Kg	100	100	<10.0	95	1	80 - 120	20
Total Boron	4.66	4.71	mg/Kg	100	5	<0.500	93	1	80 - 120	20

Continued ...

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Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Cadmium	22.8	22.4	mg/Kg	100	25	<0.500	91	1	80 - 120	20
Total Calcium	9140	8970	mg/Kg	1	10000	85.4	91	1	80 - 120	20
Total Chromium	9.28	9.04	mg/Kg	100	10	<1.00	92	2	80 - 120	20
Total Cobalt	23.2	22.9	mg/Kg	100	25	<2.50	92	1	80 - 120	20
Total Copper	12.4	12.8	mg/Kg	100	12.50	<1.25	99	3	80 - 120	20
Total Iron	49.1	48.7	mg/Kg	100	50	<5.00	98	0	80 - 120	20
Total Lead	49.8	49.1	mg/Kg	100	50	<1.00	99	1	80 - 120	20
Total Magnesium	8770	8630	mg/Kg	1	10000	<50	87	1	80 - 120	20
Total Manganese	25.2	25.3	mg/Kg	100	25	<2.50	100	0	80 - 120	20
Total Molybdenum	49.5	48.8	mg/Kg	100	50	<5.00	99	1	80 - 120	20
Total Nickel	24.1	24.2	mg/Kg	100	25	<2.50	96	0	80 - 120	20
Total Potassium	9790	9500	mg/Kg	1	10000	<50	97	3	80 - 120	20
Total Selenium	42.1	40.7	mg/Kg	100	50	<1.00	84	3	80 - 120	20
Total Silica	50.0	49.6	mg/Kg	100	50	<5.00	100	0	80 - 120	20
Total Silver	11.6	11.5	mg/Kg	100	12.50	<0.200	92	0	80 - 120	20
Total Sodium	9320	9020	mg/Kg	1	10000	94.8	93	3	80 - 120	20
Total Zinc	24.2	24.5	mg/Kg	100	25	<2.50	96	1	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC25902

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride ²³	26.53	26.58	mg/Kg	1	12.50	<1.0	212	0	90 - 110	20
Fluoride ²⁴	2.85	2.84	mg/Kg	1	2.50	<0.2	114	0	90 - 110	20
Nitrate-N ²⁵	2.54	2.55	mg/Kg	1	2.50	<0.2	101	0	90 - 110	20
Sulfate ²⁶	26.89	26.31	mg/Kg	1	12.50	<1.0	215	2	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC25943

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	1350	1390	µg/Kg	1	1250	<10.0	108	2	13 - 166	20
Benzene	1150	1260	µg/Kg	1	1250	<10.0	92	9	75 - 115	20
Trichloroethene (TCE)	1220	1180	µg/Kg	1	1250	<10.0	97	3	70 - 130	20
Toluene	1240	1360	µg/Kg	1	1250	<10.0	99	9	77 - 112	20
Chlorobenzene	1240	1230	µg/Kg	1	1250	<10.0	99	0	78 - 116	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	25.0	25.1	µg/Kg	1	50	50	50	45 - 105

Continued ...

²³When soil blank is subtracted, LCS %EA is 92 and LCS rpd is 0

²⁴When soil blank is subtracted, LCS %EA is 91 and LCS rpd is 0

²⁵When soil blank is subtracted, LCS %EA is 92 and LCS rpd is 0

²⁶When soil blank is subtracted, LCS %EA is 97 and LCS rpd is 2

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Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Toluene-d8	47.1	47.2	µg/Kg	1	50	94	94	92 - 106
4-Bromofluorobenzene	47.3	47.0	µg/Kg	1	50	95	94	84 - 115

Laboratory Control Spikes

QCBatch: QC25947

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	1320	1330	µg/Kg	1	1250	<10.0	105	0	13 - 166	20
Benzene	1250	1250	µg/Kg	1	1250	<10.0	100	0	75 - 115	20
Trichloroethene (TCE)	1200	1200	µg/Kg	1	1250	<10.0	96	0	70 - 130	20
Toluene	1220	1210	µg/Kg	1	1250	<10.0	97	0	77 - 112	20
Chlorobenzene	1250	1260	µg/Kg	1	1250	<10.0	100	0	78 - 116	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	37.8	38.8	µg/Kg	1	50	75	77	45 - 105
Toluene-d8	49.7	50.2	µg/Kg	1	50	99	100	92 - 106
4-Bromofluorobenzene	50.8	51.5	µg/Kg	1	50	101	103	84 - 115

Quality Control Report Matrix Spikes and Duplicate Spikes

Matrix Spikes

QCBatch: QC25771

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
PCB	< 0.025	< 0.025	mg/Kg	1	0.06	<0.004	30	2	0 - 203	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dilution	Spike Amount	MS % Rec	MSD % Rec	Recovery Limits
deca chlorobiphenyl	0.0180	0.0182	mg/Kg	1	0.01	112	113	0 - 183

Matrix Spikes

QCBatch: QC25833

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
alpha-BHC	0.0115	0.0126	mg/Kg	1	0.01	<0.004	71	9	2 - 19	20
gamma-BHC (Lindane)	0.0106	0.0114	mg/Kg	1	0.01	<0.004	66	7	2 - 18	20
beta-BHC	0.0092	0.0098	mg/Kg	1	0.01	<0.004	57	6	0 - 21	20
delta-BHC	0.0130	0.0146	mg/Kg	1	0.01	<0.004	81	11	0 - 27	20

Continued ...

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Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Heptachlor	0.0117	0.0104	mg/Kg	1	0.01	<0.004	73	11	0 - 40	20
Aldrin	0.0116	0.0119	mg/Kg	1	0.01	<0.004	72	2	0 - 35	20
Heptachlor Epoxide	0.0112	0.0119	mg/Kg	1	0.01	<0.004	70	6	0 - 28	20
gamma-Chlordane	0.0116	0.0123	mg/Kg	1	0.01	<0.004	72	5	0 - 115	20
alpha-Chlordane	0.0107	0.0113	mg/Kg	1	0.01	<0.004	66	5	0 - 95	20
Endosulfan I	0.0105	0.0111	mg/Kg	1	0.01	<0.004	65	5	0 - 19	20
P,P-DDE	0.0121	0.0127	mg/Kg	1	0.01	<0.004	75	4	0 - 66	20
Dieldrin	0.0117	0.0123	mg/Kg	1	0.01	<0.004	73	5	0 - 37	20
Endrin	0.0116	0.0123	mg/Kg	1	0.01	<0.004	72	5	1 - 26	20
P,P-DDD	0.0111	0.0114	mg/Kg	1	0.01	<0.004	69	2	0 - 24	20
Endosulfan II	0.0095	0.0117	mg/Kg	1	0.01	<0.004	59	20	0 - 45	20
p,p-DDT	0.0103	0.0103	mg/Kg	1	0.01	<0.004	64	0	0 - 160	20
Endrin aldehyde	0.0117	0.0121	mg/Kg	1	0.01	<0.004	73	3	0 - 30	20
Endosulfan sulfate	0.0053	0.0049	mg/Kg	1	0.01	<0.004	33	7	0 - 239	20
Methoxychlor	0.0130	0.0135	mg/Kg	1	0.01	<0.004	81	3	0 - 46	20
Endrin Ketone	0.0119	0.0120	mg/Kg	1	0.01	<0.004	74	0	0 - 107	20
Toxaphene	0.0273	0.0267	mg/Kg	1	0.12	<0.050	21	2	2 - 212	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dilution	Spike Amount	MS % Rec	MSD % Rec	Recovery Limits
2,4,5,6-Tetrachloro-m-xylene	0.0134	0.0144	mg/Kg	1	0.01	83	90	-
deca chlorobiphenyl	0.0135	0.0139	mg/Kg	1	0.01	84	86	-

Matrix Spikes

QCBatch: QC25875

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Aluminum	²⁷ 800	580	mg/Kg	100	100	330	470	61	75 - 125	20
Total Arsenic	62.6	61.8	mg/Kg	100	50	15.6	93	1	75 - 125	20
Total Barium	²⁸ 585	565	mg/Kg	100	100	455	130	16	75 - 125	20
Total Boron	8.67	8.28	mg/Kg	100	5	4.46	84	9	75 - 125	20
Total Cadmium	23.3	23.0	mg/Kg	100	25	1.09	88	1	75 - 125	20
Total Calcium	²⁹ 6550	³⁰ 5900	mg/Kg	1	10000	6050	5	371	75 - 125	20
Total Chromium	36.7	28.8	mg/Kg	100	10	25.7	110	112	75 - 125	20
Total Cobalt	24.0	23.7	mg/Kg	100	25	<2.50	96	1	75 - 125	20
Total Copper	³¹ 56.4	53.8	mg/Kg	100	12.50	39.8	132	16	75 - 125	20
Total Iron	³² 18700	19000	mg/Kg	100	50	19500	-1600	-46	75 - 125	20
Total Lead	³³ 166	195	mg/Kg	100	50	136	60	65	75 - 125	20

Continued ...

²⁷Matrix spike recovery invalid due to matrix effects. LCS demonstrates process under control.

²⁸Matrix spike recovery invalid due to matrix effects. LCS demonstrates process under control.

²⁹MS RECOVERY INVALID DUE TO MATRIX EFFECT/DILUTION FACTOR

³⁰MS RECOVERY INVALID DUE TO MATRIX EFFECT/DILUTION FACTOR

³¹Matrix spike recovery invalid due to matrix effects. LCS demonstrates process under control.

³²Matrix spike recovery invalid due to matrix effects. LCS demonstrates process under control.

³³Matrix spike recovery invalid due to matrix effects. LCS demonstrates process under control.

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Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Magnesium	³⁴ < 0.5	³⁵ < 0.5	mg/Kg	1	10000	681	-19	0	75 - 125	20
Total Manganese	³⁶ 126	109	mg/Kg	100	25	88.0	152	57	75 - 125	20
Total Molybdenum	48.6	48.8	mg/Kg	100	50	<5.00	97	0	75 - 125	20
Total Nickel	36.3	36.1	mg/Kg	100	25	13.9	89	0	75 - 125	20
Total Potassium	³⁷ < 0.5	³⁸ < 0.5	mg/Kg	1	10000	162	-7	-8	75 - 125	20
Total Selenium	37.9	39.5	mg/Kg	100	50	<1.00	75	4	75 - 125	20
Total Silica	³⁹ 223	209	mg/Kg	100	50	78.1	289	10	75 - 125	20
Total Silver	11.1	11.2	mg/Kg	100	12.50	<0.200	88	0	75 - 125	20
Total Sodium	⁴⁰ 2210	⁴¹ 2010	mg/Kg	1	10000	1820	3	68	75 - 125	20
Total Zinc	⁴² 317	375	mg/Kg	100	25	310	28	161	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC25902

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	1391.50	1402.40	mg/Kg	1	625	814	92	1	35 - 144	20
Fluoride	118.30	119.70	mg/Kg	1	125	<1.0	94	1	82 - 104	20
Nitrate-N	121.20	122.90	mg/Kg	1	125	<1.0	96	1	53 - 130	20
Sulfate	⁴³ 606.10	605.20	mg/Kg	1	625	15.1	94	0	54 - 129	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report Continuing Calibration Verification Standards

CCV (1) QCBatch: QC25771

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
PCB		mg/L	0.40	0.39	97	85 - 115	12/23/02

ICV (1) QCBatch: QC25771

³⁴MS RECOVERY INVALID DUE TO MATRIX EFFECT/DILUTION FACTOR
³⁵MS RECOVERY INVALID DUE TO MATRIX EFFECT/DILUTION FACTOR
³⁶Matrix spike recovery invalid due to matrix effects. LCS demonstrates process under control.
³⁷MS RECOVERY INVALID DUE TO MATRIX EFFECT/DILUTION FACTOR
³⁸MS RECOVERY INVALID DUE TO MATRIX EFFECT/DILUTION FACTOR
³⁹Matrix spike recovery invalid due to matrix effects. LCS demonstrates process under control.
⁴⁰MS RECOVERY INVALID DUE TO MATRIX EFFECT/DILUTION FACTOR
⁴¹MS RECOVERY INVALID DUE TO MATRIX EFFECT/DILUTION FACTOR
⁴²Matrix spike recovery invalid due to matrix effects. LCS demonstrates process under control.
⁴³*5 dilution is being reported, Matrix %EA is 93 and Matrix rpd is 0

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
PCB		mg/L	0.40	0.43	107	85 - 115	12/23/02

CCV (1)

QCBatch: QC25833

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
alpha-BHC		mg/L	0.10	0.0986	98	85 - 115	12/26/02
gamma-BHC (Lindane)		mg/L	0.10	0.1047	104	85 - 115	12/26/02
beta-BHC		mg/L	0.10	0.0888	88	85 - 115	12/26/02
delta-BHC		mg/L	0.10	0.1003	100	85 - 115	12/26/02
Heptachlor		mg/L	0.10	0.1016	101	85 - 115	12/26/02
Aldrin		mg/L	0.10	0.1001	100	85 - 115	12/26/02
Heptachlor Epoxide		mg/L	0.10	0.0925	92	85 - 115	12/26/02
gamma-Chlordane		mg/L	0.10	0.0935	93	85 - 115	12/26/02
alpha-Chlordane		mg/L	0.10	0.0896	89	85 - 115	12/26/02
Endosulfan I		mg/L	0.10	0.0903	90	85 - 115	12/26/02
P,P-DDE		mg/L	0.10	0.1012	101	85 - 115	12/26/02
Dieldrin		mg/L	0.10	0.0914	91	85 - 115	12/26/02
Endrin		mg/L	0.10	0.0926	92	85 - 115	12/26/02
P,P-DDD		mg/L	0.10	0.0883	88	85 - 115	12/26/02
Endosulfan II		mg/L	0.10	0.0894	89	85 - 115	12/26/02
p,p-DDT		mg/L	0.10	0.0880	88	85 - 115	12/26/02
Endrin aldehyde		mg/L	0.10	0.0903	90	85 - 115	12/26/02
Endosulfan sulfate		mg/L	0.10	0.1041	104	85 - 115	12/26/02
Methoxychlor		mg/L	0.10	0.1049	104	85 - 115	12/26/02
Endrin Ketone		mg/L	0.10	0.0922	92	85 - 115	12/26/02
Toxaphene		mg/L	0.80	0.6956	86	85 - 115	12/26/02
2,4,5,6-Tetrachloro-m-xylene		mg/L	0.10	0.0930	93	85 - 115	12/26/02
deca chlorobiphenyl		mg/L	0.10	0.0791	79	85 - 115	12/26/02

ICV (1)

QCBatch: QC25833

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
alpha-BHC		mg/L	0.10	0.0982	98	85 - 115	12/26/02
gamma-BHC (Lindane)		mg/L	0.10	0.1079	107	85 - 115	12/26/02
beta-BHC		mg/L	0.10	0.1039	103	85 - 115	12/26/02
delta-BHC		mg/L	0.10	0.0959	95	85 - 115	12/26/02
Heptachlor		mg/L	0.10	0.0925	92	85 - 115	12/26/02
Aldrin		mg/L	0.10	0.1045	104	85 - 115	12/26/02
Heptachlor Epoxide		mg/L	0.10	0.0903	90	85 - 115	12/26/02
gamma-Chlordane		mg/L	0.10	0.1013	101	85 - 115	12/26/02
alpha-Chlordane		mg/L	0.10	0.0908	90	85 - 115	12/26/02
Endosulfan I		mg/L	0.10	0.0930	93	85 - 115	12/26/02
P,P-DDE		mg/L	0.10	0.1074	107	85 - 115	12/26/02
Dieldrin		mg/L	0.10	0.0911	91	85 - 115	12/26/02

Continued ...

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Endrin		mg/L	0.10	0.0942	94	85 - 115	12/26/02
P,P-DDD		mg/L	0.10	0.0903	90	85 - 115	12/26/02
Endosulfan II		mg/L	0.10	0.0932	93	85 - 115	12/26/02
p,p-DDT		mg/L	0.10	0.0873	87	85 - 115	12/26/02
Endrin aldehyde		mg/L	0.10	0.0856	85	85 - 115	12/26/02
Endosulfan sulfate		mg/L	0.10	0.1083	108	85 - 115	12/26/02
Methoxychlor		mg/L	0.10	0.0942	94	85 - 115	12/26/02
Endrin Ketone		mg/L	0.10	0.0861	86	85 - 115	12/26/02
Toxaphene		mg/L	0.80	0.8720	109	85 - 115	12/26/02
2,4,5,6-Tetrachloro-m-xylene		mg/L	0.10	0.0862	86	85 - 115	12/26/02
deca chlorobiphenyl		mg/L	0.10	0.0858	85	85 - 115	12/26/02

CCV (1)

QCBatch: QC25875

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Aluminum		mg/L	2	2.03	102	90 - 110	12/29/02
Total Arsenic		mg/L	1	1.02	102	90 - 110	12/29/02
Total Barium		mg/L	2	2.04	102	90 - 110	12/29/02
Total Boron		mg/L	0.10	0.102	102	90 - 110	12/29/02
Total Cadmium		mg/L	0.50	0.506	101	90 - 110	12/29/02
Total Calcium		mg/L	25	24.5	98	90 - 110	12/29/02
Total Chromium		mg/L	0.20	0.197	98	90 - 110	12/29/02
Total Cobalt		mg/L	0.50	0.498	100	90 - 110	12/29/02
Total Copper		mg/L	0.25	0.253	101	90 - 110	12/29/02
Total Iron		mg/L	1	1.04	104	90 - 110	12/29/02
Total Lead		mg/L	1	1.03	103	90 - 110	12/29/02
Total Magnesium		mg/L	25	25.5	102	90 - 110	12/29/02
Total Manganese		mg/L	0.50	0.510	102	90 - 110	12/29/02
Total Molybdenum		mg/L	1	0.971	97	90 - 110	12/29/02
Total Nickel		mg/L	0.50	0.496	99	90 - 110	12/29/02
Total Potassium		mg/L	25	25.6	102	90 - 110	12/29/02
Total Selenium		mg/L	1	1.02	102	90 - 110	12/29/02
Total Silica		mg/L	1	0.952	95	90 - 110	12/29/02
Total Silver		mg/L	0.25	0.251	100	90 - 110	12/29/02
Total Sodium		mg/L	25	24.9	99	90 - 110	12/29/02
Total Zinc		mg/L	0.50	0.507	101	90 - 110	12/29/02

ICV (1)

QCBatch: QC25875

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Aluminum		mg/L	2	2.04	102	90 - 110	12/29/02
Total Arsenic		mg/L	1	1.02	102	90 - 110	12/29/02
Total Barium		mg/L	2	2.05	102	90 - 110	12/29/02

Continued ...

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Boron		mg/L	0.10	0.100	100	90 - 110	12/29/02
Total Cadmium		mg/L	0.50	0.508	102	90 - 110	12/29/02
Total Calcium		mg/L	25	24.5	98	90 - 110	12/29/02
Total Chromium		mg/L	0.20	0.200	100	90 - 110	12/29/02
Total Cobalt		mg/L	0.50	0.500	100	90 - 110	12/29/02
Total Copper		mg/L	0.25	0.252	101	90 - 110	12/29/02
Total Iron		mg/L	1	1.03	103	90 - 110	12/29/02
Total Lead		mg/L	1	1.03	103	90 - 110	12/29/02
Total Magnesium		mg/L	25	24.9	99	90 - 110	12/29/02
Total Manganese		mg/L	0.50	0.507	101	90 - 110	12/29/02
Total Molybdenum		mg/L	1	0.985	98	90 - 110	12/29/02
Total Nickel		mg/L	0.50	0.498	100	90 - 110	12/29/02
Total Potassium		mg/L	25	24.5	98	90 - 110	12/29/02
Total Selenium		mg/L	1	1.01	101	90 - 110	12/29/02
Total Silica		mg/L	1	0.960	96	90 - 110	12/29/02
Total Silver		mg/L	0.25	0.253	101	90 - 110	12/29/02
Total Sodium		mg/L	25	24.8	99	90 - 110	12/29/02
Total Zinc		mg/L	0.50	0.497	99	90 - 110	12/29/02

CCV (1) QCBatch: QC25879

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.005	0.00507	101	80 - 120	12/27/02

ICV (1) QCBatch: QC25879

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.005	0.00528	105	80 - 120	12/27/02

CCV (1) QCBatch: QC25902

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	11.71	93	90 - 110	12/30/02
Fluoride		mg/L	2.50	2.41	96	90 - 110	12/30/02
Nitrate-N		mg/L	2.50	2.36	94	90 - 110	12/30/02
Sulfate		mg/L	12.50	11.89	95	90 - 110	12/30/02

ICV (1) QCBatch: QC25902

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	11.53	92	90 - 110	12/30/02
Fluoride		mg/L	2.50	2.43	97	90 - 110	12/30/02
Nitrate-N		mg/L	2.50	2.41	96	90 - 110	12/30/02
Sulfate		mg/L	12.50	12.00	96	90 - 110	12/30/02

CCV (1) QCBatch: QC25936

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	7	7.1	101	-0.1 s.u. - +0.1 s.u.	12/27/02

ICV (1) QCBatch: QC25936

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	7	7.0	100	-0.1 s.u. - +0.1 s.u.	12/27/02

CCV (1) QCBatch: QC25943

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	50	49.0	98	80 - 120	12/30/02
1,1-Dichloroethene		µg/L	50	50.0	100	80 - 120	12/30/02
Chloroform		µg/L	50	51.0	102	80 - 120	12/30/02
1,2-Dichloropropane		µg/L	50	50.0	100	80 - 120	12/30/02
Toluene		µg/L	50	49.0	98	80 - 120	12/30/02
Chlorobenzene		µg/L	50	48.0	96	80 - 120	12/30/02
Ethylbenzene		µg/L	50	49.0	98	80 - 120	12/30/02
Dibromofluoromethane		µg/L	50	50.9	102	80 - 120	12/30/02
Toluene-d8		µg/L	50	49.3	99	80 - 120	12/30/02
4-Bromofluorobenzene		µg/L	50	51.5	103	80 - 120	12/30/02

CCV (1) QCBatch: QC25947

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	50	53	106	80 - 120	12/29/02

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
1,1-Dichloroethene		µg/L	50	51	102	80 - 120	12/29/02
Chloroform		µg/L	50	54	108	80 - 120	12/29/02
1,2-Dichloropropane		µg/L	50	52	104	80 - 120	12/29/02
Toluene		µg/L	50	53	106	80 - 120	12/29/02
Chlorobenzene		µg/L	50	51	102	80 - 120	12/29/02
Ethylbenzene		µg/L	50	53	106	80 - 120	12/29/02
Dibromofluoromethane		µg/L	50	51.9	103	80 - 120	12/29/02
Toluene-d8		µg/L	50	53.7	107	80 - 120	12/29/02
4-Bromofluorobenzene		µg/L	50	54.7	109	80 - 120	12/29/02

CCV (1)

QCBatch: QC25954

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0	<1.0	0	90 - 110	1/2/03
Carbonate Alkalinity		mg/L as CaCo3	0	224	0	90 - 110	1/2/03
Bicarbonate Alkalinity		mg/L as CaCo3	0	12	0	90 - 110	1/2/03
Total Alkalinity		mg/L as CaCo3	250	236	94	90 - 110	1/2/03

ICV (1)

QCBatch: QC25954

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0	<1.0	0	90 - 110	1/2/03
Carbonate Alkalinity		mg/L as CaCo3	0	228	0	90 - 110	1/2/03
Bicarbonate Alkalinity		mg/L as CaCo3	0	10	0	90 - 110	1/2/03
Total Alkalinity		mg/L as CaCo3	250	238	95	90 - 110	1/2/03

CCV (1)

QCBatch: QC25987

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Phenol		mg/L	60	67.09	111	80 - 120	1/4/03
1,4-Dichlorobenzene		mg/L	60	63.7	106	80 - 120	1/4/03
2-Nitrophenol		mg/L	60	63.7	106	80 - 120	1/4/03
2,4-Dichlorophenol		mg/L	60	68.01	113	80 - 120	1/4/03
Hexachlorobutadiene		mg/L	60	64.88	108	80 - 120	1/4/03
4-Chloro-3-methylphenol		mg/L	60	70.81	118	80 - 120	1/4/03
2,4,6-Trichlorophenol		mg/L	60	70.17	116	80 - 120	1/4/03
Acenaphthene		mg/L	60	66.18	110	80 - 120	1/4/03
Diphenylamine		mg/L	60	64.27	107	80 - 120	1/4/03

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Pentachlorophenol		mg/L	60	67.1	111	80 - 120	1/4/03
Fluoranthene		mg/L	60	65.35	108	80 - 120	1/4/03
Di-n-octylphthalate		mg/L	60	67.65	112	80 - 120	1/4/03
Benzo(a)pyrene		mg/L	60	66.98	111	80 - 120	1/4/03
2-Fluorophenol		mg/L	60	65.98	109	80 - 120	1/4/03
Phenol-d5		mg/L	60	61.98	103	80 - 120	1/4/03
Nitrobenzene-d5		mg/L	60	62.43	104	80 - 120	1/4/03
2-Fluorobiphenyl		mg/L	60	66.55	110	80 - 120	1/4/03
2,4,6-Tribromophenol		mg/L	60	69.57	115	80 - 120	1/4/03
Terphenyl-d14		mg/L	60	65.16	108	80 - 120	1/4/03

CCV (1)

QCBatch: QC26074

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		μMHOS/cm	1413	1414	100	90 - 110	1/8/03

ICV (1)

QCBatch: QC26074

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		μMHOS/cm	1413	1414	100	90 - 110	1/8/03

TraceAnalysis, Inc.
General Terms and Conditions

Article 1: General

1.1 The words "we", "us", and "our" refer to TraceAnalysis. You will deliver samples to us for analysis, accompanied, or preceded by, a signed Chain of Custody/Analysis Request defining the scope and timing of our work and stating either the testing criteria you require or identifying the agency to which the results will be submitted.

Article 2: Our General Responsibilities

2.1 We agree to provide the professional services described in this agreement. We will provide you with written reports containing analytical results. In performing our service, we will use that degree of care and skill ordinarily exercised under similar circumstances by reputable members of our profession practicing in the same locality.

2.2 Test and observations will be conducted using test procedures and laboratory protocols as specified in accepted Chain of Custody/Analysis Request. If you direct a manner of making tests that varies from our standard or recommended procedures, you agree to hold us harmless from all claims, damages, and expenses arising out of your direction.

2.3 We will not release information regarding our services for you or any information that we receive from you, except for information that is in the public domain and except as we are required by law.

Article 3: Your General Responsibilities

3.1 On each Chain of Custody/Analysis Request you will designate a representative who has authority to transmit instructions, receive information, and make decisions relative to our work.

3.2 You will respond in a reasonable time to our request for decisions, authorization for changes, additional compensation, or schedule extensions.

3.3 For each Chain of Custody/Analysis Request you will either provide us with the exact methods for analysis of each fraction or you will identify the regulations and agency under which or for which the analysis is to be prepared. If permits, consent orders, work plans, quality assurance plans, or correspondence with regulatory agencies address laboratory requirements, you will provide us with copies of the relevant provisions prior to our initiation of the analyses.

Article 4: Reports and Records

4.1 We will furnish copies of each report to you as specified in the Chain of Custody and Analysis Request. We will retain analytical data for seven years and financial data for three years relating to the services performed following transmittal of our final report.

4.2 If you do not pay for our services as agreed, you agree that we may retain all reports and work not yet delivered to you. You also agree that our work will not be used by you for any purpose unless paid for.

Article 5: Delivery and Acceptance of Samples

5.1 Until we accept delivery of samples by notation on chain of custody documents or otherwise in writing accept the samples, you are responsible for loss of or damage to samples. Until so accepted, we have no responsibility as to samples.

5.2 As to any samples that are suspected of containing hazardous substances or radioactive material, such that would make special handling required, you will specify the suspected or known substances and level and type of radioactive activity. This information will be given to us in writing as a part of the Chain of Custody/Analysis Request and will precede or accompany samples suspected of containing hazardous substances.

5.3 Samples accepted by us remain your property while in our custody. We will retain samples for a period of 14 days following the date of submission or our report. We will extend the retention period if you so direct. Following the retention period we will dispose of non-hazardous samples. We may return highly hazardous, acutely toxic, or radioactive samples and samples containers and residues to you. You agree to accept them.

5.4 Regardless of a prior acceptance, we may refuse acceptance or revoke acceptance of samples if we determine that the samples present a risk to health, safety, or the environment, or that we are not authorized to accept them. If we revoke acceptance of any sample, you will have it removed from our facilities promptly.

Article 6: Changes to Task Orders

6.1 No persons other than the designated representatives for each Chain of Custody/Analysis Request are authorized to act regarding changes to a Chain of Custody/Analysis Request. We will notify you promptly if we identify any activity that we regard as a change to the terms and conditions of a Chain of Custody/Analysis Request. Our notice will include the date, nature, circumstance, and cause of the activity regarded as a change. We will specify the particular elements of project performance for which we may seek an equitable adjustment.

6.2 You will respond to the notice provided for in paragraph 6.1 promptly. Changes may be made to a Chain of Custody/Analysis Request through issuance of an amendment. The amendment will specify the reason for the change and, as appropriate, include any modified budgets, schedules, scope of work, and other necessary provisions.

6.3 Until agreement is reached concerning the proposed change, we may regard the situation as a suspension directed by you.

Article 7: Compensation

7.1 Our pricing for the work is predicated upon your acceptance of the conditions and allocations of risks and responsibilities described in this agreement. You agree to pay for services as stated in our proposal and accepted by you or according to our then current standard pricing documents if there is no other written agreement as to price. An estimate or statement of probable cost is not a firm figure unless stated as such.

7.2 Unless otherwise agreed to elsewhere, you agree to pay invoices within 30 days of receipt unless, within 15 days from receipt of the invoice, you notify us in writing of a particular item that is alleged to be incorrect. You agree to pay the uncontested portions of the invoices within 30 days of receipt. You agree to pay interest on unpaid balances beginning 60 days after receipt of invoice at the rate of 1.5% per month, but not to exceed the maximum rate allowed by law.

7.3 If you direct us to invoice another, we will do so, but you agree to be ultimately responsible for our compensation until you provide us with that third party's written acceptance of all terms of our agreement and until we agree to the substitution.

7.4 You agree to compensate us for our services and expenses if we are required to respond to legal process related to our services for you. Compensable services include hourly charges for all personnel involved in the response and attorney fees reasonably incurred in obtaining advice concerning the response, the preparation of the testifier, and appearances related to the legal process.

7.5 If we are delayed by, or the period of performance is materially extended because of, factors beyond our control, or if project condition or the scope or amount of work change, or if the standards or methods of testing change, we will give you timely notice of the change and we will receive an equitable adjustment of our compensation.

Article 8: Risk Allocation, Disputes, and Damages

8.1 Neither we nor you will be liable to the other for special, incidental, consequential or punitive losses or damages, including but not limited to those arising from delay, loss of use, loss of profits or revenue, or the cost of capital.

8.2 We will not be liable to you for damages unless suit is commenced within two years of injury or loss or within two years of the date of the completion of our services, whichever is earlier. In no event will we be liable to you unless you have notified us of the discovery of the negligent act, error, omission or breach within 30 days of the date of its discovery and unless you have given us an opportunity to investigate and to recommend ways of mitigating your damages.

8.3 In the event you fail to pay us within 90 days following the invoice date, we may consider the default a total breach of our agreement and we may, at our option, terminate all of our duties without liability to you or to others.

8.4 If it is claimed by a third party that we did not complete an acceptable analysis, at your request will seek further review and acceptance of the completed work by the third party and use your best efforts to obtain that acceptance. We will assist you as directed.

8.5 You and we agree that disputes will be submitted to "Alternative Dispute Resolution" (ADR) as a condition precedent to litigation and other remedies provided by law. Each of us agrees to exercise good faith efforts to resolve disputes through mediation unless we both agree upon another ADR procedure. All disputes will be governed by the law of the place where our services are rendered, or if our services are rendered in more than one state, you and we agree that the law of the place that services were first rendered will govern.

8.6 If either of us makes a claim against the other as to issues out of the performance of this agreement, the prevailing party will be entitled to recover its reasonable expenses of litigation, including reasonable attorney's fees. If we bring lawsuit against you to collect our invoiced fees and expenses, you agree to pay our reasonable collection expenses including attorney fees.

Article 9: Indemnities

9.1 We will indemnify and hold you harmless from and against demands, damages, and expenses caused by our negligent acts and omissions and breach of contract and by the negligent acts and omissions and breach of contract of persons for whom we are legally responsible. You will indemnify and hold us harmless from and against demands, damages, and expenses caused by your negligent act and omissions and breach of contract and by the negligent acts and omissions and breach of contract of persons for whom you are legally responsible. These indemnities are subject to specific limitations provided for in this agreement.

Article 10: Miscellaneous Provisions

10.1 This agreement constitutes the entire agreement between you and us, and it supersedes all prior agreements. Any term, condition, prior course of dealing, course of performance, usage of trade, understanding, purchase order conditions, or other agreement purporting to modify, vary, supplement, or explain any provision of this agreement is of no effect until placed in writing and signed by both parties subsequent to the date of this agreement. In no event will the printed terms or conditions stated in a purchase or work order, other than an agreed upon Chain of Custody/Analysis Request, be considered a part of this agreement, even if the document is signed by both of us.

10.2 Neither party will assign this agreement without the express written approval of the other, but we may subcontract laboratory procedures with your approval as we deem necessary to meet our obligations to you.

10.3 If any of the provisions of this agreement are held to be invalid or unenforceable in any respect, the remaining terms will be in full effect and the agreement will be construed as if the invalid or unenforceable matters were never included in it. No waiver of any default will be waiver of any future default.

10.4 Neither you or we will have any liability for nonperformance caused in whole or in part by causes beyond our reasonable control. Such causes include but are not limited to Acts of God, civil unrest and war, labor unrest and strikes, equipment failures, matrix interference, acts of authorities, and failures of subcontractors that could not be reasonably anticipated.

10.5 You may stop our work by giving a written suspension or termination directive, but once work has been suspended, we need not resume work until we agree to change in scope, schedule, and compensation. Upon suspension or termination, we will use reasonable care to preserve samples provided that you agree to compensate us for any additional effort, but we will have no responsibility for meeting holding time limitations after the effective time of a suspension or termination directive. We will be compensated for service rendered and expenses incurred prior to termination that cannot reasonably be avoided.



Photo 1: sample number 1218020855
Sample very oily/thick with strong odor.



Photo 2: Sample number 1218020855.
Sample very oily/thick with strong odor.



Photo 3: Sample number 1218020915
Sample contained caliche rock and some weeds.



Photo 4: Sample number 1218020940. Oily/clay



Photo 5: Sample number 1218021000.
Sample very oily/thick with strong odor.



Photo 6: The waste pit with three homes in the background.



Photo 7: A sinkhole developing in the top of the pit that was located on Deck property north of the General Petroleum facility. General Petroleum operated this pit.

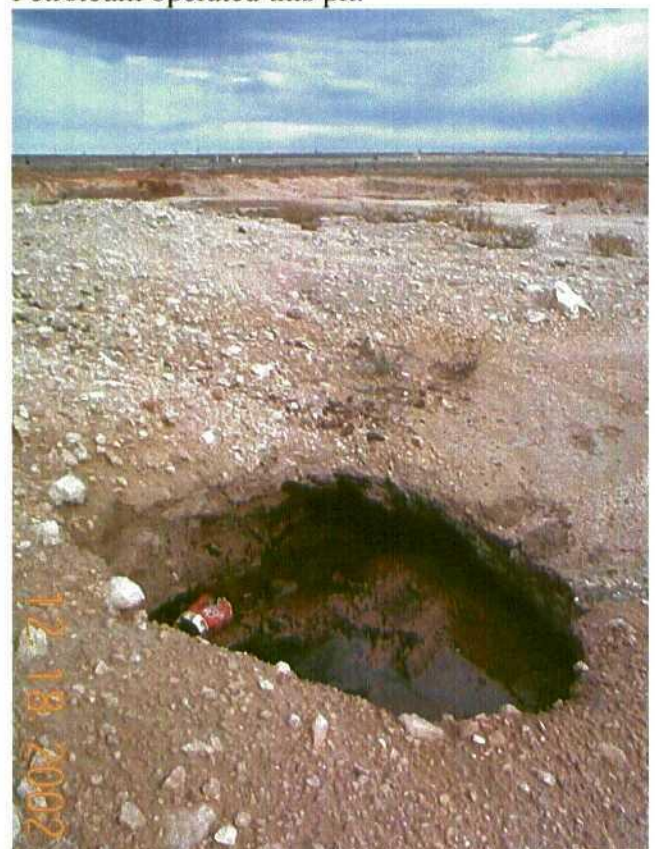


Photo 8: The General petroleum pit on Deck property was filled in and is now developing a sinkhole and the hydrocarbons are coming to the surface.

12-18-02

General Petroleum Treating Plant
Eunice, NM

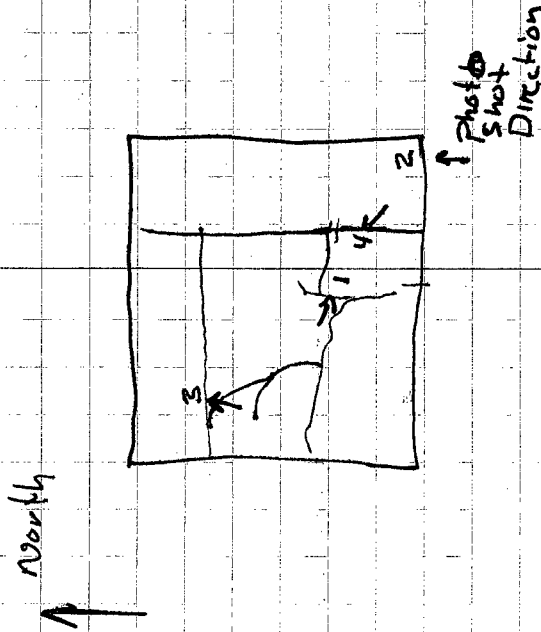
Maryre Kieling
Ed Martin

Temp: cool mid 50's, overcast
Possible sprinkles.

Sample Pit for Characterization
will take 4 samples at
four locations around the pit

Location 1	1218020855	Very oily Gassy
Location 2	1218020915	Caliche Rock
Location 3	1218020940	Gross weeds
Location 4	1218021000	clayey oily

Samples taken at 12 to 24 inches inside
each pit location



Drove North to the Pit on Deck
Property that was part of General Petroleum
The pit had a collapsed hole structure
with water & oil. Took Two Photos
The hole was approximately 3 feet in diameter.

Finished 11:00 am